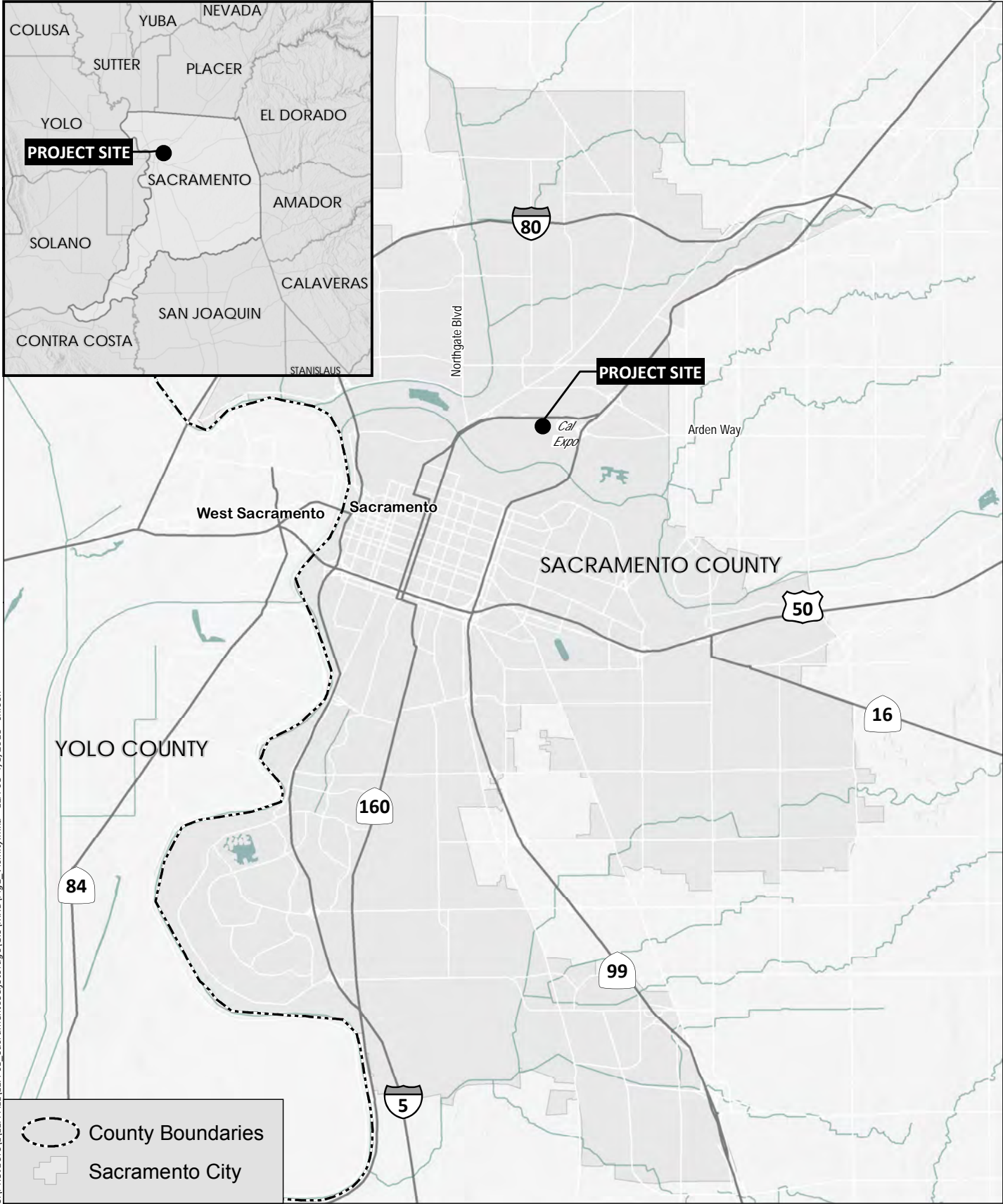




Appendix A

Figures

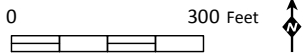




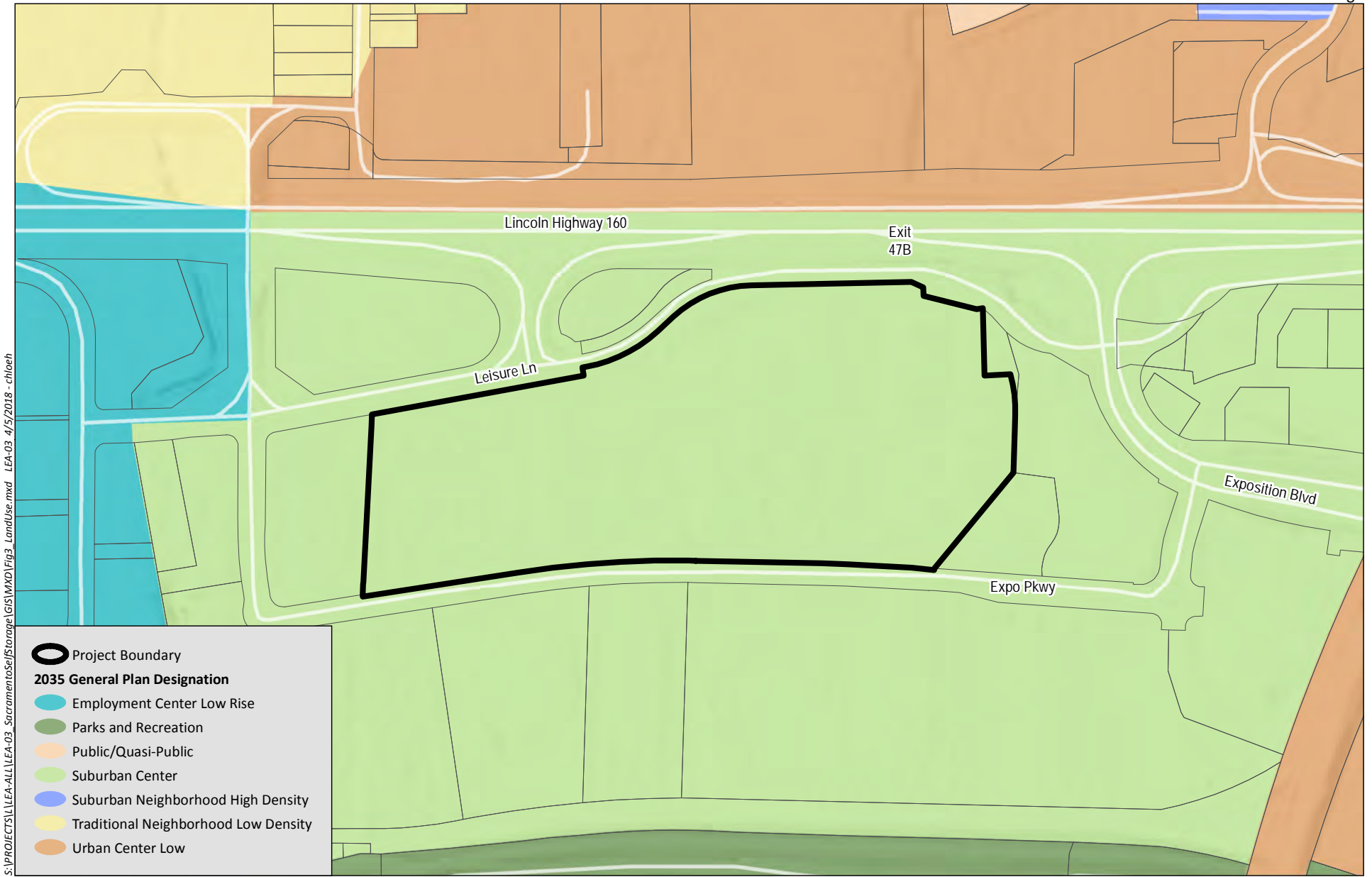


S:\PROJECTS\LEA-ALL\LEA-03 SacramentoSelfStorage\GIS\MXD\Fig2_AerialProjectLocation.mxd LEA-03 3/29/2018 - chloeh









○ Project Boundary



Source: Base Map Layers (NearMap)



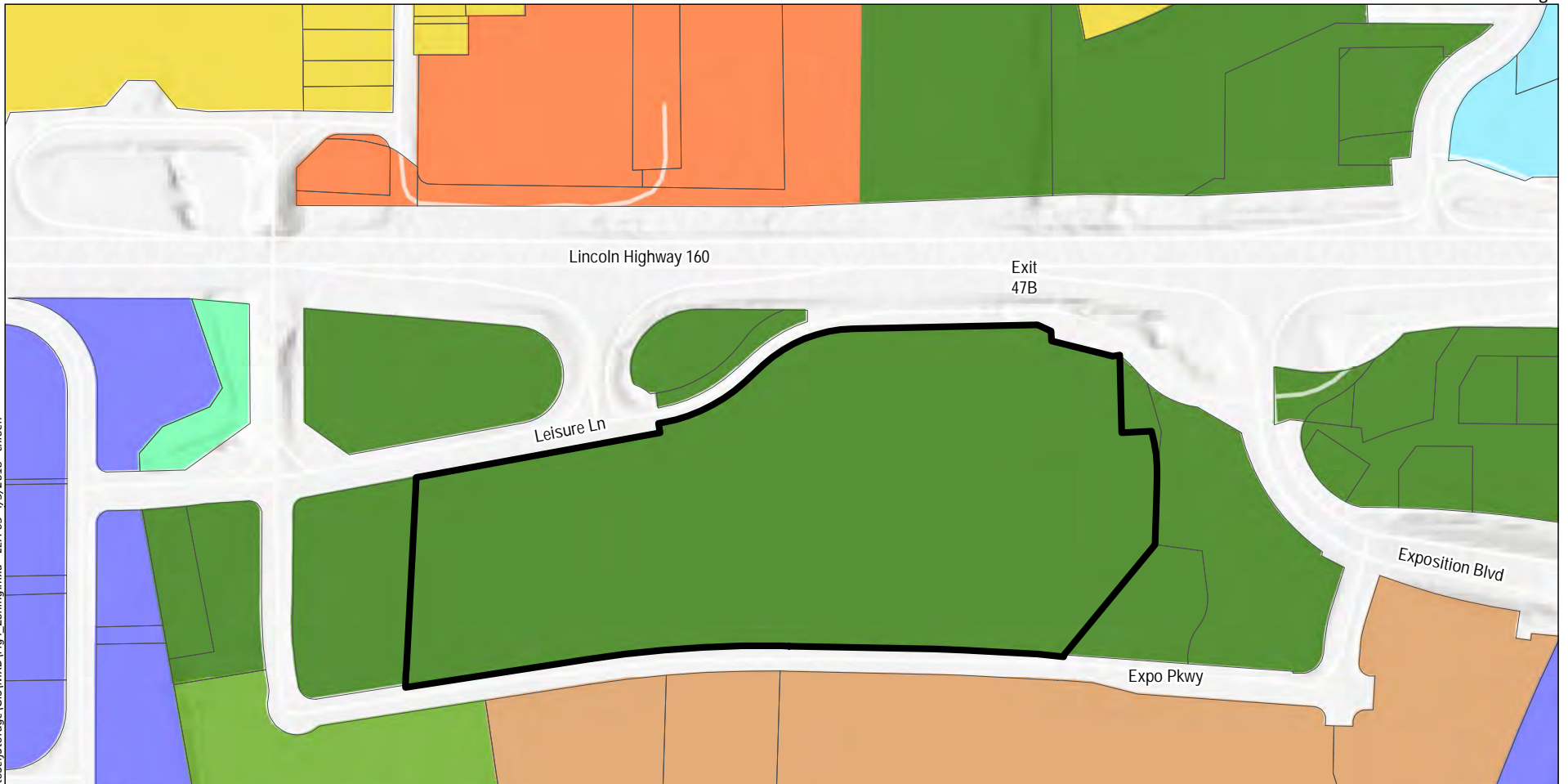
S:\PROJECTS\LEA-ALL\LEA-03_SacramentoSelfStorage\GIS\Map\Fig3_LandUse.mxd LEA-03 4/5/2018 - chloeh

-  Project Boundary
- 2035 General Plan Designation**
-  Employment Center Low Rise
-  Parks and Recreation
-  Public/Quasi-Public
-  Suburban Center
-  Suburban Neighborhood High Density
-  Traditional Neighborhood Low Density
-  Urban Center Low

0 250 Feet



Source: Base Map Layers (NearMap)



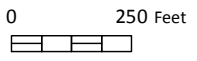
S:\PROJECTS\LEA-ALL\LEA-03 SacramentoSelfStorage\GIS\MXD\Fig4_Zoning.mxd LEA-03 4/5/2018 - chloeh

Project Boundary

Zoning Designation

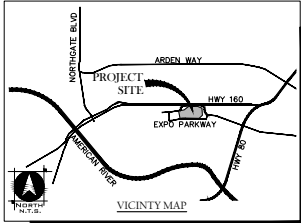
ARP-F; American River Parkway	H-PC; Hospital
C-2; General Commercial	M-1; Light Industrial
C-2-LI; General Commercial	M-1-LI; Light Industrial
C-2-LI-PC; General Commercial	M-1-LI-PC; Light Industrial
C-2-R-PC-PUD; General Commercial	OB-LI; Office Business Low-Rise Mixed Use
	R-1; Single Unit Dwelling

F: Floodplain, LI: Labor Intensive, PC: Parkway Corridor, PUD: Planned Unit Development



Source: Base Map Layers (NearMap)

TENTATIVE PARCEL MAP
 PARCEL 2 - BOOK 229 OF PARCEL MAPS - PAGE 10
SACRAMENTO SELF STORAGE
 500 LEISURE LANE
 SACRAMENTO, CA



UTILITY PROVIDERS		PROJECT INFORMATION	
PARK DISTRICT CITY OF SACRAMENTO	SCHOOL DISTRICT TWIN RIVERS UNIFIED SCHOOL DISTRICT	PROJECT ADDRESS 500 LEISURE LANE SACRAMENTO, CA	PROJECT APN 275 0380 010
WATER CITY OF SACRAMENTO WATER	SANITARY SEWER SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT	OWNER COLUMBIA WOODLAKE, LLC 890 FARVIEW AVENUE, SUITE 200 SEATTLE, WA 98107 ATTN: ALEX WASHBURN	DEVELOPER/APPLICANT COLUMBIA WOODLAKE, LLC CITY AND ARCHITECTURE 100 KETTLE CT. SE SALMON CR 9807 ATTN: GREG HAMBER
STORM DRAIN CITY OF SACRAMENTO UTILITIES	GAS PG&E	ENGINEER/SURVEYOR TSD ENGINEERING, INC. 785 ORCHARD DRIVE, SUITE 110 FOLSOM, CA 95630 ATTN: CASEY FEICKERT	EXISTING NUMBER OF LOTS (0) ONE
ELECTRIC SNTU	TELEPHONE ATTN	PROPOSED NUMBER OF LOTS (4) FOUR	EXISTING USE GENERAL COMMERCIAL
CABLE COMCAST	FIRE CITY OF SACRAMENTO FIRE DISTRICT	PROPOSED USE GENERAL COMMERCIAL	EXISTING ZONING C-7 U GENERAL COMMERCIAL
		PROPOSED ZONING C-7 U GENERAL COMMERCIAL	

BASIS OF ELEVATION
 THE ELEVATIONS SHOWN HEREON ARE BASED UPON CITY OF SACRAMENTO BENCHMARK NO. 2961R, HAVING AN ELEVATION OF 62.7 FEET ANCHORED BEING A BENCH MARK IN THE NORTHEAST CORNER OF THE BRIDGE ON TRIMBLE ROAD OVER HIGHWAY 160 AT FEE DRIVE.

BASIS OF BEARING
 THE BASIS OF BEARINGS FOR THIS SURVEY IS IDENTICAL WITH THE CENTERLINE OF EXPO PARKWAY, AS SHOWN ON THE PLAT OF WOODLAKE BUSINESS PARK PHASE 2, BOOK 211 OF MAPS AND NO. 7, SACRAMENTO COUNTY RECORDS, BASED UPON FOUND MONUMENTS SHOWN HEREON.

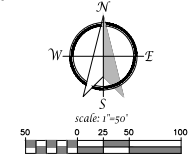
FLOOD ZONE
 FLOOD ZONE "X" AREAS OF 0.2% ANNUAL CHANCE FLOOD AREAS OF 0.1% ANNUAL CHANCE OF FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITHIN DRAINAGE AREAS LESS THAN 1/4 SQUARE MILE, AND AREAS PROTECTED BY LEVES FROM 1% ANNUAL CHANCE FLOOD PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP MAP NO. 60007C0177L, DATED AUGUST 16, 2012.

- NOTES**
1. DELIBERATION OF COVENANTS, CONDITIONS, RESTRICTIONS, AND GRANT OF EASEMENTS GRANTING RECIPROCAL EASEMENTS FOR ACCESS, PARKING, DRAINAGE, SEWER, WATER AND UTILITIES WILL BE REQUIRED.
 2. TOPOGRAPHY COMPILED FROM FIELD SURVEY DATA ACQUIRED ON AUGUST, 2017.
 3. EXACT PARCEL CONTOUR BATHYMETRY MAY VARY SLIGHTLY AT FINAL PARCEL MAP TO ACCOMMODATE REQUIRED BUILDING SETBACKS AND REFINEMENTS REQUIRED AS PART OF BUILDING DEVELOPMENT.
 4. RECIPROCAL EASEMENTS FOR UTILITIES, DRAINAGE, SANITARY SEWER FACILITIES, AND PROJECT SITE DRAINAGE SHALL BE GRANTED AND RESERVED AS NECESSARY AND AT NO COST AT OR BEFORE THE TIME OF SALE OR COVENANCE OR ANY PARCEL SHOWN IN THIS MAP.

PARCEL SUMMARY	
PARCEL 1 108,098 SF / 4.56 AC	PARCEL 2 198,036 SF / 4.53 AC
PARCEL 3 123,773 SF / 2.81 AC	PARCEL 4 109,677 SF / 2.52 AC 19 PARKING SPACES

TENTATIVE PARCEL MAP
 MARCH 7, 2018

TSD ENGINEERING, INC.
 expect more.
 785 Orchard Drive, Suite #110
 Folsom, CA 95630
 Phone: (916) 608-0707
 Fax: (916) 608-0701



S:\PROJECTS\11EA-ALL-UE-03_SacramentoSelfStorage\GIS\WKD\Fig4_SitePlan.indd



Appendix B

CALEEMOD Output and

Climate Action Plan Checklist



Attachment A

CalEEMod Output

Lenity - Sacramento Self Storage - Sacramento County, Annual

Lenity - Sacramento Self Storage
Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	139.48	1000sqft	3.20	139,482.00	0
Hotel	120.00	Room	4.00	174,240.00	0
Retirement Community	170.00	Dwelling Unit	34.00	170,000.00	454
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2021
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Lenity - Sacramento Self Storage - Sacramento County, Annual

Project Characteristics -

Land Use -

Construction Phase - Grading commence October 2018
(Demolition and Site Prep complete)

Architectural Coating - low VOC coating

Vehicle Trips - Trip generation provided by Kimley Horn

Area Coating - low VOC coating

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - Prior to issuance of building permits, the applicant shall comply with the alternative Climate Action Plan requirement to exceed the minimum energy efficiency standards under California Administrative Code Title 24

Water Mitigation - Per CalGreen

Waste Mitigation - Per AB-341

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaCoating	Area_EF_Residential_Exterior	100	50
tblAreaCoating	Area_EF_Residential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	740.00	500.00

Lenity - Sacramento Self Storage - Sacramento County, Annual

tblConstructionPhase	PhaseEndDate	8/5/2022	5/14/2021
tblConstructionPhase	PhaseEndDate	3/4/2022	12/11/2020
tblConstructionPhase	PhaseEndDate	5/3/2019	1/11/2019
tblConstructionPhase	PhaseEndDate	5/20/2022	2/26/2021
tblConstructionPhase	PhaseStartDate	5/21/2022	2/27/2021
tblConstructionPhase	PhaseStartDate	5/4/2019	1/12/2019
tblConstructionPhase	PhaseStartDate	1/19/2019	10/1/2018
tblConstructionPhase	PhaseStartDate	3/5/2022	12/12/2020
tblVehicleTrips	ST_TR	8.19	6.95
tblVehicleTrips	ST_TR	49.97	59.84
tblVehicleTrips	ST_TR	2.03	2.99
tblVehicleTrips	ST_TR	1.68	1.52
tblVehicleTrips	SU_TR	5.95	6.95
tblVehicleTrips	SU_TR	25.24	59.84
tblVehicleTrips	SU_TR	1.95	2.99
tblVehicleTrips	SU_TR	1.68	1.52
tblVehicleTrips	WD_TR	8.17	6.95
tblVehicleTrips	WD_TR	42.70	59.84
tblVehicleTrips	WD_TR	2.40	2.99
tblVehicleTrips	WD_TR	1.68	1.52

2.0 Emissions Summary

Lenity - Sacramento Self Storage - Sacramento County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.1709	1.9664	1.1806	2.1000e-003	0.3030	0.0870	0.3900	0.1213	0.0800	0.2013	0.0000	191.5270	191.5270	0.0584	0.0000	192.9858
2019	0.5039	4.2038	3.7279	8.6500e-003	0.4345	0.1837	0.6182	0.1089	0.1726	0.2815	0.0000	784.2978	784.2978	0.1019	0.0000	786.8450
2020	0.4344	3.6470	3.4240	8.3000e-003	0.3032	0.1512	0.4544	0.0820	0.1421	0.2241	0.0000	748.6183	748.6183	0.0943	0.0000	750.9765
2021	1.4128	0.3109	0.3957	6.7000e-004	0.0132	0.0166	0.0297	3.5000e-003	0.0155	0.0190	0.0000	59.3369	59.3369	0.0141	0.0000	59.6882
Maximum	1.4128	4.2038	3.7279	8.6500e-003	0.4345	0.1837	0.6182	0.1213	0.1726	0.2815	0.0000	784.2978	784.2978	0.1019	0.0000	786.8450

Lenity - Sacramento Self Storage - Sacramento County, Annual

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.1709	1.9664	1.1806	2.1000e-003	0.1390	0.0870	0.2260	0.0553	0.0800	0.1353	0.0000	191.5267	191.5267	0.0584	0.0000	192.9856
2019	0.5039	4.2038	3.7279	8.6500e-003	0.3649	0.1837	0.5486	0.0948	0.1726	0.2674	0.0000	784.2975	784.2975	0.1019	0.0000	786.8446
2020	0.4344	3.6470	3.4240	8.3000e-003	0.3032	0.1512	0.4544	0.0820	0.1421	0.2241	0.0000	748.6179	748.6179	0.0943	0.0000	750.9762
2021	1.4128	0.3109	0.3957	6.7000e-004	0.0132	0.0166	0.0297	3.5000e-003	0.0155	0.0190	0.0000	59.3368	59.3368	0.0141	0.0000	59.6881
Maximum	1.4128	4.2038	3.7279	8.6500e-003	0.3649	0.1837	0.5486	0.0948	0.1726	0.2674	0.0000	784.2975	784.2975	0.1019	0.0000	786.8446

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	22.16	0.00	15.65	25.38	0.00	11.04	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2018	12-31-2018	2.1285	2.1285
2	1-1-2019	3-31-2019	1.2328	1.2328
3	4-1-2019	6-30-2019	1.1411	1.1411
4	7-1-2019	9-30-2019	1.1537	1.1537
5	10-1-2019	12-31-2019	1.1639	1.1639
6	1-1-2020	3-31-2020	1.0462	1.0462
7	4-1-2020	6-30-2020	1.0383	1.0383
8	7-1-2020	9-30-2020	1.0497	1.0497

Lenity - Sacramento Self Storage - Sacramento County, Annual

9	10-1-2020	12-31-2020	0.9386	0.9386
10	1-1-2021	3-31-2021	0.9042	0.9042
11	4-1-2021	6-30-2021	0.8182	0.8182
		Highest	2.1285	2.1285

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.2755	0.0203	1.7609	9.0000e-005		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	2.8714	2.8714	2.8000e-003	0.0000	2.9413
Energy	0.0492	0.4408	0.3310	2.6800e-003		0.0340	0.0340		0.0340	0.0340	0.0000	1,432.1245	1,432.1245	0.0558	0.0185	1,439.0411
Mobile	1.2471	4.8599	12.2604	0.0337	2.7545	0.0316	2.7861	0.7386	0.0295	0.7682	0.0000	3,100.4532	3,100.4532	0.1651	0.0000	3,104.5807
Waste						0.0000	0.0000		0.0000	0.0000	66.4816	0.0000	66.4816	3.9290	0.0000	164.7053
Water						0.0000	0.0000		0.0000	0.0000	17.7179	75.8002	93.5181	0.0647	0.0393	106.8475
Total	3.5718	5.3210	14.3523	0.0365	2.7545	0.0752	2.8297	0.7386	0.0732	0.8118	84.1995	4,611.2493	4,695.4488	4.2173	0.0578	4,818.1158

Lenity - Sacramento Self Storage - Sacramento County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.2755	0.0203	1.7609	9.0000e-005		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	2.8714	2.8714	2.8000e-003	0.0000	2.9413
Energy	0.0450	0.4038	0.3030	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	1,366.8915	1,366.8915	0.0538	0.0175	1,373.4616
Mobile	1.2149	4.6321	11.4448	0.0307	2.4791	0.0290	2.5081	0.6648	0.0271	0.6919	0.0000	2,818.2829	2,818.2829	0.1535	0.0000	2,822.1196
Waste						0.0000	0.0000		0.0000	0.0000	49.8612	0.0000	49.8612	2.9467	0.0000	123.5290
Water						0.0000	0.0000		0.0000	0.0000	14.1743	60.6402	74.8145	0.0518	0.0314	85.4780
Total	3.5355	5.0562	13.5087	0.0332	2.4791	0.0698	2.5489	0.6648	0.0680	0.7327	64.0355	4,248.6860	4,312.7215	3.2086	0.0490	4,407.5294

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.02	4.98	5.88	9.01	10.00	7.19	9.93	10.00	7.16	9.74	23.95	7.86	8.15	23.92	15.32	8.52

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2018	1/11/2019	5	75	
2	Building Construction	Building Construction	1/12/2019	12/11/2020	5	500	
3	Paving	Paving	12/12/2020	2/26/2021	5	55	
4	Architectural Coating	Architectural Coating	2/27/2021	5/14/2021	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 344,250; Residential Outdoor: 114,750; Non-Residential Indoor: 545,583; Non-Residential Outdoor: 181,861; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Lenity - Sacramento Self Storage - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	270.00	78.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	54.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Lenity - Sacramento Self Storage - Sacramento County, Annual

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2982	0.0000	0.2982	0.1200	0.0000	0.1200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1680	1.9642	1.1580	2.0500e-003		0.0869	0.0869		0.0800	0.0800	0.0000	186.9401	186.9401	0.0582	0.0000	188.3950
Total	0.1680	1.9642	1.1580	2.0500e-003	0.2982	0.0869	0.3851	0.1200	0.0800	0.1999	0.0000	186.9401	186.9401	0.0582	0.0000	188.3950

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3.2 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9400e-003	2.1300e-003	0.0226	5.0000e-005	4.8500e-003	4.0000e-005	4.8800e-003	1.2900e-003	3.0000e-005	1.3200e-003	0.0000	4.5869	4.5869	1.6000e-004	0.0000	4.5908
Total	2.9400e-003	2.1300e-003	0.0226	5.0000e-005	4.8500e-003	4.0000e-005	4.8800e-003	1.2900e-003	3.0000e-005	1.3200e-003	0.0000	4.5869	4.5869	1.6000e-004	0.0000	4.5908

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1342	0.0000	0.1342	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1680	1.9642	1.1580	2.0500e-003		0.0869	0.0869		0.0800	0.0800	0.0000	186.9398	186.9398	0.0582	0.0000	188.3948
Total	0.1680	1.9642	1.1580	2.0500e-003	0.1342	0.0869	0.2211	0.0540	0.0800	0.1340	0.0000	186.9398	186.9398	0.0582	0.0000	188.3948

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3.2 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9400e-003	2.1300e-003	0.0226	5.0000e-005	4.8500e-003	4.0000e-005	4.8800e-003	1.2900e-003	3.0000e-005	1.3200e-003	0.0000	4.5869	4.5869	1.6000e-004	0.0000	4.5908
Total	2.9400e-003	2.1300e-003	0.0226	5.0000e-005	4.8500e-003	4.0000e-005	4.8800e-003	1.2900e-003	3.0000e-005	1.3200e-003	0.0000	4.5869	4.5869	1.6000e-004	0.0000	4.5908

3.2 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1265	0.0000	0.1265	0.0256	0.0000	0.0256	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2453	0.1502	2.8000e-004		0.0107	0.0107		9.8600e-003	9.8600e-003	0.0000	25.0656	25.0656	7.9300e-003	0.0000	25.2639
Total	0.0213	0.2453	0.1502	2.8000e-004	0.1265	0.0107	0.1372	0.0256	9.8600e-003	0.0355	0.0000	25.0656	25.0656	7.9300e-003	0.0000	25.2639

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3.2 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.6000e-004	2.7600e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.6042	0.6042	2.0000e-005	0.0000	0.6047
Total	3.6000e-004	2.6000e-004	2.7600e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.6042	0.6042	2.0000e-005	0.0000	0.6047

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0569	0.0000	0.0569	0.0115	0.0000	0.0115	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2453	0.1502	2.8000e-004		0.0107	0.0107		9.8600e-003	9.8600e-003	0.0000	25.0656	25.0656	7.9300e-003	0.0000	25.2638
Total	0.0213	0.2453	0.1502	2.8000e-004	0.0569	0.0107	0.0677	0.0115	9.8600e-003	0.0214	0.0000	25.0656	25.0656	7.9300e-003	0.0000	25.2638

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3.2 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.6000e-004	2.7600e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.6042	0.6042	2.0000e-005	0.0000	0.6047
Total	3.6000e-004	2.6000e-004	2.7600e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.6042	0.6042	2.0000e-005	0.0000	0.6047

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2975	2.6559	2.1626	3.3900e-003		0.1625	0.1625		0.1528	0.1528	0.0000	296.2313	296.2313	0.0722	0.0000	298.0354
Total	0.2975	2.6559	2.1626	3.3900e-003		0.1625	0.1625		0.1528	0.1528	0.0000	296.2313	296.2313	0.0722	0.0000	298.0354

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3.3 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0471	1.2056	0.3685	2.4400e-003	0.0575	8.5900e-003	0.0661	0.0166	8.2200e-003	0.0248	0.0000	233.9953	233.9953	0.0147	0.0000	234.3621
Worker	0.1376	0.0967	1.0439	2.5300e-003	0.2499	1.8400e-003	0.2517	0.0665	1.7000e-003	0.0682	0.0000	228.4014	228.4014	7.1000e-003	0.0000	228.5790
Total	0.1847	1.3023	1.4123	4.9700e-003	0.3073	0.0104	0.3178	0.0831	9.9200e-003	0.0930	0.0000	462.3967	462.3967	0.0218	0.0000	462.9411

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2975	2.6559	2.1626	3.3900e-003		0.1625	0.1625		0.1528	0.1528	0.0000	296.2309	296.2309	0.0722	0.0000	298.0351
Total	0.2975	2.6559	2.1626	3.3900e-003		0.1625	0.1625		0.1528	0.1528	0.0000	296.2309	296.2309	0.0722	0.0000	298.0351

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3.3 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0471	1.2056	0.3685	2.4400e-003	0.0575	8.5900e-003	0.0661	0.0166	8.2200e-003	0.0248	0.0000	233.9953	233.9953	0.0147	0.0000	234.3621
Worker	0.1376	0.0967	1.0439	2.5300e-003	0.2499	1.8400e-003	0.2517	0.0665	1.7000e-003	0.0682	0.0000	228.4014	228.4014	7.1000e-003	0.0000	228.5790
Total	0.1847	1.3023	1.4123	4.9700e-003	0.3073	0.0104	0.3178	0.0831	9.9200e-003	0.0930	0.0000	462.3967	462.3967	0.0218	0.0000	462.9411

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2629	2.3791	2.0892	3.3400e-003		0.1385	0.1385		0.1302	0.1302	0.0000	287.1964	287.1964	0.0701	0.0000	288.9480
Total	0.2629	2.3791	2.0892	3.3400e-003		0.1385	0.1385		0.1302	0.1302	0.0000	287.1964	287.1964	0.0701	0.0000	288.9480

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0370	1.0847	0.3025	2.3800e-003	0.0566	5.6100e-003	0.0622	0.0163	5.3700e-003	0.0217	0.0000	228.8525	228.8525	0.0136	0.0000	229.1912
Worker	0.1246	0.0845	0.9267	2.4100e-003	0.2459	1.7700e-003	0.2477	0.0654	1.6300e-003	0.0670	0.0000	217.8664	217.8664	6.1600e-003	0.0000	218.0204
Total	0.1617	1.1692	1.2293	4.7900e-003	0.3025	7.3800e-003	0.3098	0.0817	7.0000e-003	0.0888	0.0000	446.7189	446.7189	0.0197	0.0000	447.2116

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2629	2.3791	2.0892	3.3400e-003		0.1385	0.1385		0.1302	0.1302	0.0000	287.1960	287.1960	0.0701	0.0000	288.9477
Total	0.2629	2.3791	2.0892	3.3400e-003		0.1385	0.1385		0.1302	0.1302	0.0000	287.1960	287.1960	0.0701	0.0000	288.9477

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0370	1.0847	0.3025	2.3800e-003	0.0566	5.6100e-003	0.0622	0.0163	5.3700e-003	0.0217	0.0000	228.8525	228.8525	0.0136	0.0000	229.1912
Worker	0.1246	0.0845	0.9267	2.4100e-003	0.2459	1.7700e-003	0.2477	0.0654	1.6300e-003	0.0670	0.0000	217.8664	217.8664	6.1600e-003	0.0000	218.0204
Total	0.1617	1.1692	1.2293	4.7900e-003	0.3025	7.3800e-003	0.3098	0.0817	7.0000e-003	0.0888	0.0000	446.7189	446.7189	0.0197	0.0000	447.2116

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.5000e-003	0.0985	0.1026	1.6000e-004		5.2700e-003	5.2700e-003		4.8500e-003	4.8500e-003	0.0000	14.0198	14.0198	4.5300e-003	0.0000	14.1331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.5000e-003	0.0985	0.1026	1.6000e-004		5.2700e-003	5.2700e-003		4.8500e-003	4.8500e-003	0.0000	14.0198	14.0198	4.5300e-003	0.0000	14.1331

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3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.7000e-004	2.9100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6833	0.6833	2.0000e-005	0.0000	0.6838
Total	3.9000e-004	2.7000e-004	2.9100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6833	0.6833	2.0000e-005	0.0000	0.6838

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.5000e-003	0.0985	0.1026	1.6000e-004		5.2700e-003	5.2700e-003		4.8500e-003	4.8500e-003	0.0000	14.0197	14.0197	4.5300e-003	0.0000	14.1331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.5000e-003	0.0985	0.1026	1.6000e-004		5.2700e-003	5.2700e-003		4.8500e-003	4.8500e-003	0.0000	14.0197	14.0197	4.5300e-003	0.0000	14.1331

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.7000e-004	2.9100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6833	0.6833	2.0000e-005	0.0000	0.6838
Total	3.9000e-004	2.7000e-004	2.9100e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.6833	0.6833	2.0000e-005	0.0000	0.6838

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0257	0.2648	0.3004	4.7000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	41.0481	41.0481	0.0133	0.0000	41.3800
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0257	0.2648	0.3004	4.7000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	41.0481	41.0481	0.0133	0.0000	41.3800

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	7.0000e-004	7.7800e-003	2.0000e-005	2.2600e-003	2.0000e-005	2.2700e-003	6.0000e-004	1.0000e-005	6.2000e-004	0.0000	1.9329	1.9329	5.0000e-005	0.0000	1.9342
Total	1.0600e-003	7.0000e-004	7.7800e-003	2.0000e-005	2.2600e-003	2.0000e-005	2.2700e-003	6.0000e-004	1.0000e-005	6.2000e-004	0.0000	1.9329	1.9329	5.0000e-005	0.0000	1.9342

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0257	0.2648	0.3004	4.7000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	41.0481	41.0481	0.0133	0.0000	41.3800
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0257	0.2648	0.3004	4.7000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	41.0481	41.0481	0.0133	0.0000	41.3800

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	7.0000e-004	7.7800e-003	2.0000e-005	2.2600e-003	2.0000e-005	2.2700e-003	6.0000e-004	1.0000e-005	6.2000e-004	0.0000	1.9329	1.9329	5.0000e-005	0.0000	1.9342
Total	1.0600e-003	7.0000e-004	7.7800e-003	2.0000e-005	2.2600e-003	2.0000e-005	2.2700e-003	6.0000e-004	1.0000e-005	6.2000e-004	0.0000	1.9329	1.9329	5.0000e-005	0.0000	1.9342

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3748					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0200e-003	0.0420	0.0500	8.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	7.0215	7.0215	4.8000e-004	0.0000	7.0335
Total	1.3808	0.0420	0.0500	8.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	7.0215	7.0215	4.8000e-004	0.0000	7.0335

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3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1400e-003	3.3600e-003	0.0376	1.0000e-004	0.0109	8.0000e-005	0.0110	2.9000e-003	7.0000e-005	2.9700e-003	0.0000	9.3344	9.3344	2.5000e-004	0.0000	9.3405
Total	5.1400e-003	3.3600e-003	0.0376	1.0000e-004	0.0109	8.0000e-005	0.0110	2.9000e-003	7.0000e-005	2.9700e-003	0.0000	9.3344	9.3344	2.5000e-004	0.0000	9.3405

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.3748					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0200e-003	0.0420	0.0500	8.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	7.0214	7.0214	4.8000e-004	0.0000	7.0335
Total	1.3808	0.0420	0.0500	8.0000e-005		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	7.0214	7.0214	4.8000e-004	0.0000	7.0335

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3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1400e-003	3.3600e-003	0.0376	1.0000e-004	0.0109	8.0000e-005	0.0110	2.9000e-003	7.0000e-005	2.9700e-003	0.0000	9.3344	9.3344	2.5000e-004	0.0000	9.3405
Total	5.1400e-003	3.3600e-003	0.0376	1.0000e-004	0.0109	8.0000e-005	0.0110	2.9000e-003	7.0000e-005	2.9700e-003	0.0000	9.3344	9.3344	2.5000e-004	0.0000	9.3405

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Walkability Design

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2149	4.6321	11.4448	0.0307	2.4791	0.0290	2.5081	0.6648	0.0271	0.6919	0.0000	2,818.2829	2,818.2829	0.1535	0.0000	2,822.1196
Unmitigated	1.2471	4.8599	12.2604	0.0337	2.7545	0.0316	2.7861	0.7386	0.0295	0.7682	0.0000	3,100.4532	3,100.4532	0.1651	0.0000	3,104.5807

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	834.00	834.00	834.00	1,282,950	1,154,655
Regional Shopping Center	2,992.00	2,992.00	2,992.00	4,180,737	3,762,663
Retirement Community	508.30	508.30	508.30	1,304,353	1,173,918
Unrefrigerated Warehouse-No Rail	212.01	212.01	212.01	616,598	554,939
Total	4,546.31	4,546.31	4,546.31	7,384,638	6,646,175

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Unrefrigerated Warehouse-No	10.00	5.00	6.50	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
Regional Shopping Center	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
Retirement Community	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
Unrefrigerated Warehouse-No Rail	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	921.2187	921.2187	0.0453	9.3600e-003	925.1404
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	945.6298	945.6298	0.0465	9.6100e-003	949.6554
NaturalGas Mitigated	0.0450	0.4038	0.3030	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.6728	445.6728	8.5400e-003	8.1700e-003	448.3212
NaturalGas Unmitigated	0.0492	0.4408	0.3310	2.6800e-003		0.0340	0.0340		0.0340	0.0340	0.0000	486.4947	486.4947	9.3200e-003	8.9200e-003	489.3856

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	6.72044e+006	0.0362	0.3294	0.2767	1.9800e-003		0.0250	0.0250		0.0250	0.0250	0.0000	358.6281	358.6281	6.8700e-003	6.5700e-003	360.7593
Regional Shopping Center	271000	1.4600e-003	0.0133	0.0112	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	14.4616	14.4616	2.8000e-004	2.7000e-004	14.5475
Retirement Community	2.05678e+006	0.0111	0.0948	0.0403	6.0000e-004		7.6600e-003	7.6600e-003		7.6600e-003	7.6600e-003	0.0000	109.7577	109.7577	2.1000e-003	2.0100e-003	110.4100
Unrefrigerated Warehouse-No Rail	68346.2	3.7000e-004	3.3500e-003	2.8100e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.6472	3.6472	7.0000e-005	7.0000e-005	3.6689
Total		0.0492	0.4408	0.3310	2.6800e-003		0.0340	0.0340		0.0340	0.0340	0.0000	486.4946	486.4946	9.3200e-003	8.9200e-003	489.3857

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	6.14475e+006	0.0331	0.3012	0.2530	1.8100e-003		0.0229	0.0229		0.0229	0.0229	0.0000	327.9072	327.9072	6.2800e-003	6.0100e-003	329.8557
Regional Shopping Center	248550	1.3400e-003	0.0122	0.0102	7.0000e-005		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	13.2636	13.2636	2.5000e-004	2.4000e-004	13.3424
Retirement Community	1.89678e+006	0.0102	0.0874	0.0372	5.6000e-004		7.0700e-003	7.0700e-003		7.0700e-003	7.0700e-003	0.0000	101.2196	101.2196	1.9400e-003	1.8600e-003	101.8211
Unrefrigerated Warehouse-No Rail	61511.6	3.3000e-004	3.0200e-003	2.5300e-003	2.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	3.2825	3.2825	6.0000e-005	6.0000e-005	3.3020
Total		0.0450	0.4038	0.3030	2.4600e-003		0.0311	0.0311		0.0311	0.0311	0.0000	445.6728	445.6728	8.5300e-003	8.1700e-003	448.3212

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.70755e+006	457.2143	0.0225	4.6500e-003	459.1607
Regional Shopping Center	578500	154.8992	7.6100e-003	1.5700e-003	155.5586
Retirement Community	796447	213.2566	0.0105	2.1700e-003	214.1645
Unrefrigerated Warehouse-No Rail	449132	120.2597	5.9100e-003	1.2200e-003	120.7716
Total		945.6298	0.0465	9.6100e-003	949.6554

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.645e+006	440.4653	0.0216	4.4800e-003	442.3404
Regional Shopping Center	562200	150.5347	7.4000e-003	1.5300e-003	151.1756
Retirement Community	787758	210.9301	0.0104	2.1400e-003	211.8280
Unrefrigerated Warehouse-No Rail	445506	119.2886	5.8600e-003	1.2100e-003	119.7964
Total		921.2187	0.0453	9.3600e-003	925.1404

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.2755	0.0203	1.7609	9.0000e-005		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	2.8714	2.8714	2.8000e-003	0.0000	2.9413
Unmitigated	2.2755	0.0203	1.7609	9.0000e-005		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	2.8714	2.8714	2.8000e-003	0.0000	2.9413

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0845					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0536	0.0203	1.7609	9.0000e-005		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	2.8714	2.8714	2.8000e-003	0.0000	2.9413
Total	2.2755	0.0203	1.7609	9.0000e-005		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	2.8714	2.8714	2.8000e-003	0.0000	2.9413

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1375					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0845					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0536	0.0203	1.7609	9.0000e-005		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	2.8714	2.8714	2.8000e-003	0.0000	2.9413
Total	2.2755	0.0203	1.7609	9.0000e-005		9.7000e-003	9.7000e-003		9.7000e-003	9.7000e-003	0.0000	2.8714	2.8714	2.8000e-003	0.0000	2.9413

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	74.8145	0.0518	0.0314	85.4780
Unmitigated	93.5181	0.0647	0.0393	106.8475

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	3.04401 / 0.338224	5.4551	3.9200e-003	2.3900e-003	6.2643
Regional Shopping Center	3.70363 / 2.26996	8.3788	4.8600e-003	2.9200e-003	9.3709
Retirement Community	11.0762 / 6.98281	25.2400	0.0145	8.7400e-003	28.2075
Unrefrigerated Warehouse-No Rail	32.2548 / 0	54.4442	0.0414	0.0253	63.0048
Total		93.5181	0.0647	0.0393	106.8475

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	2.43521 / 0.270579	4.3641	3.1400e-003	1.9100e-003	5.0115
Regional Shopping Center	2.9629 / 1.81597	6.7031	3.8900e-003	2.3400e-003	7.4967
Retirement Community	8.86095 / 5.58625	20.1920	0.0116	6.9900e-003	22.5660
Unrefrigerated Warehouse-No Rail	25.8038 / 0	43.5554	0.0331	0.0202	50.4038
Total		74.8145	0.0518	0.0314	85.4780

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Lenity - Sacramento Self Storage - Sacramento County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	49.8612	2.9467	0.0000	123.5290
Unmitigated	66.4816	3.9290	0.0000	164.7053

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	65.7	13.3365	0.7882	0.0000	33.0406
Regional Shopping Center	52.5	10.6570	0.6298	0.0000	26.4023
Retirement Community	78.2	15.8739	0.9381	0.0000	39.3269
Unrefrigerated Warehouse-No Rail	131.11	26.6142	1.5729	0.0000	65.9354
Total		66.4816	3.9289	0.0000	164.7053

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	49.275	10.0024	0.5911	0.0000	24.7805
Regional Shopping Center	39.375	7.9928	0.4724	0.0000	19.8018
Retirement Community	58.65	11.9054	0.7036	0.0000	29.4952
Unrefrigerated Warehouse-No Rail	98.3325	19.9606	1.1796	0.0000	49.4516
Total		49.8612	2.9467	0.0000	123.5290

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

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Equipment Type	Number
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11.0 Vegetation

Lenity - Sacramento Self Storage - Sacramento County, Winter

Lenity - Sacramento Self Storage
Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	139.48	1000sqft	3.20	139,482.00	0
Hotel	120.00	Room	4.00	174,240.00	0
Retirement Community	170.00	Dwelling Unit	34.00	170,000.00	454
Regional Shopping Center	50.00	1000sqft	1.15	50,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2021
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	590.31	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Lenity - Sacramento Self Storage - Sacramento County, Winter

Project Characteristics -

Land Use -

Construction Phase - Grading commence October 2018
(Demolition and Site Prep complete)

Architectural Coating - low VOC coating

Vehicle Trips - Trip generation provided by Kimley Horn

Area Coating - low VOC coating

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation - Prior to issuance of building permits, the applicant shall comply with the alternative Climate Action Plan requirement to exceed the minimum energy efficiency standards under California Administrative Code Title 24

Water Mitigation - Per CalGreen

Waste Mitigation - Per AB-341

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaCoating	Area_EF_Residential_Exterior	100	50
tblAreaCoating	Area_EF_Residential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	740.00	500.00

Lenity - Sacramento Self Storage - Sacramento County, Winter

tblConstructionPhase	PhaseEndDate	8/5/2022	5/14/2021
tblConstructionPhase	PhaseEndDate	3/4/2022	12/11/2020
tblConstructionPhase	PhaseEndDate	5/3/2019	1/11/2019
tblConstructionPhase	PhaseEndDate	5/20/2022	2/26/2021
tblConstructionPhase	PhaseStartDate	5/21/2022	2/27/2021
tblConstructionPhase	PhaseStartDate	5/4/2019	1/12/2019
tblConstructionPhase	PhaseStartDate	1/19/2019	10/1/2018
tblConstructionPhase	PhaseStartDate	3/5/2022	12/12/2020
tblVehicleTrips	ST_TR	8.19	6.95
tblVehicleTrips	ST_TR	49.97	59.84
tblVehicleTrips	ST_TR	2.03	2.99
tblVehicleTrips	ST_TR	1.68	1.52
tblVehicleTrips	SU_TR	5.95	6.95
tblVehicleTrips	SU_TR	25.24	59.84
tblVehicleTrips	SU_TR	1.95	2.99
tblVehicleTrips	SU_TR	1.68	1.52
tblVehicleTrips	WD_TR	8.17	6.95
tblVehicleTrips	WD_TR	42.70	59.84
tblVehicleTrips	WD_TR	2.40	2.99
tblVehicleTrips	WD_TR	1.68	1.52

2.0 Emissions Summary

Lenity - Sacramento Self Storage - Sacramento County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	5.1852	59.5941	35.7857	0.0635	8.8255	2.6349	11.4603	3.6369	2.4241	6.0609	0.0000	6,393.2874	6,393.2874	1.9492	0.0000	6,442.0165
2019	4.8252	54.5838	33.9980	0.0655	8.8255	2.3837	11.2092	3.6369	2.1930	5.8299	0.0000	6,549.8498	6,549.8498	1.9472	0.0000	6,570.5418
2020	3.5010	28.6891	27.0448	0.0647	2.5233	1.1775	3.7008	0.6799	1.1076	1.7875	0.0000	6,438.5780	6,438.5780	0.8031	0.0000	6,458.6547
2021	50.4107	12.9571	15.0360	0.0238	0.4108	0.6785	0.7926	0.1090	0.6242	0.6545	0.0000	2,308.1855	2,308.1855	0.7166	0.0000	2,326.0992
Maximum	50.4107	59.5941	35.7857	0.0655	8.8255	2.6349	11.4603	3.6369	2.4241	6.0609	0.0000	6,549.8498	6,549.8498	1.9492	0.0000	6,570.5418

Lenity - Sacramento Self Storage - Sacramento County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.6038	0.1625	14.0874	7.4000e-004		0.0776	0.0776		0.0776	0.0776	0.0000	25.3216	25.3216	0.0247	0.0000	25.9379
Energy	0.2694	2.4156	1.8138	0.0147		0.1861	0.1861		0.1861	0.1861		2,938.4578	2,938.4578	0.0563	0.0539	2,955.9196
Mobile	6.4464	27.3398	71.5033	0.1811	15.6675	0.1756	15.8431	4.1891	0.1644	4.3535		18,336.5582	18,336.5582	1.0291		18,362.2845
Total	19.3196	29.9179	87.4046	0.1965	15.6675	0.4393	16.1068	4.1891	0.4281	4.6172	0.0000	21,300.3377	21,300.3377	1.1100	0.0539	21,344.1420

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.6038	0.1625	14.0874	7.4000e-004		0.0776	0.0776		0.0776	0.0776	0.0000	25.3216	25.3216	0.0247	0.0000	25.9379
Energy	0.2468	2.2127	1.6602	0.0135		0.1705	0.1705		0.1705	0.1705		2,691.8912	2,691.8912	0.0516	0.0494	2,707.8878
Mobile	6.2689	26.0230	67.1351	0.1646	14.1008	0.1615	14.2623	3.7702	0.1512	3.9214		16,663.8753	16,663.8753	0.9593		16,687.8589
Total	19.1194	28.3982	82.8827	0.1788	14.1008	0.4096	14.5104	3.7702	0.3993	4.1695	0.0000	19,381.0881	19,381.0881	1.0356	0.0494	19,421.6846

Lenity - Sacramento Self Storage - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.04	5.08	5.17	9.02	10.00	6.75	9.91	10.00	6.72	9.70	0.00	9.01	9.01	6.71	8.39	9.01

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2018	1/11/2019	5	75	
2	Building Construction	Building Construction	1/12/2019	12/11/2020	5	500	
3	Paving	Paving	12/12/2020	2/26/2021	5	55	
4	Architectural Coating	Architectural Coating	2/27/2021	5/14/2021	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 187.5

Acres of Paving: 0

Residential Indoor: 344,250; Residential Outdoor: 114,750; Non-Residential Indoor: 545,583; Non-Residential Outdoor: 181,861; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Lenity - Sacramento Self Storage - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	270.00	78.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	54.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Lenity - Sacramento Self Storage - Sacramento County, Winter

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.6733	2.6337	11.3071	3.5965	2.4230	6.0195		6,244.4284	6,244.4284	1.9440		6,293.0278

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.2 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0951	0.0723	0.6963	1.5000e-003	0.1521	1.1200e-003	0.1533	0.0404	1.0300e-003	0.0414		148.8589	148.8589	5.1900e-003		148.9887
Total	0.0951	0.0723	0.6963	1.5000e-003	0.1521	1.1200e-003	0.1533	0.0404	1.0300e-003	0.0414		148.8589	148.8589	5.1900e-003		148.9887

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	3.9030	2.6337	6.5367	1.6184	2.4230	4.0415	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.2 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0951	0.0723	0.6963	1.5000e-003	0.1521	1.1200e-003	0.1533	0.0404	1.0300e-003	0.0414		148.8589	148.8589	5.1900e-003		148.9887
Total	0.0951	0.0723	0.6963	1.5000e-003	0.1521	1.1200e-003	0.1533	0.0404	1.0300e-003	0.0414		148.8589	148.8589	5.1900e-003		148.9887

3.2 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	4.7389	54.5202	33.3768	0.0620	8.6733	2.3827	11.0560	3.5965	2.1920	5.7885		6,140.0195	6,140.0195	1.9426		6,188.5854

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.2 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0863	0.0637	0.6213	1.4500e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		143.8000	143.8000	4.5600e-003		143.9141
Total	0.0863	0.0637	0.6213	1.4500e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		143.8000	143.8000	4.5600e-003		143.9141

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	4.7389	54.5202	33.3768	0.0620	3.9030	2.3827	6.2857	1.6184	2.1920	3.8105	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.2 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0863	0.0637	0.6213	1.4500e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		143.8000	143.8000	4.5600e-003		143.9141
Total	0.0863	0.0637	0.6213	1.4500e-003	0.1521	1.0800e-003	0.1532	0.0404	1.0000e-003	0.0414		143.8000	143.8000	4.5600e-003		143.9141

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.3 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3880	9.5711	3.1733	0.0191	0.4695	0.0692	0.5387	0.1351	0.0662	0.2013		2,016.9693	2,016.9693	0.1347		2,020.3375
Worker	1.1645	0.8592	8.3872	0.0195	2.0539	0.0146	2.0685	0.5448	0.0135	0.5583		1,941.3003	1,941.3003	0.0616		1,942.8408
Total	1.5525	10.4303	11.5605	0.0386	2.5234	0.0839	2.6072	0.6799	0.0797	0.7597		3,958.2696	3,958.2696	0.1964		3,963.1783

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.3 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3880	9.5711	3.1733	0.0191	0.4695	0.0692	0.5387	0.1351	0.0662	0.2013		2,016.9693	2,016.9693	0.1347		2,020.3375
Worker	1.1645	0.8592	8.3872	0.0195	2.0539	0.0146	2.0685	0.5448	0.0135	0.5583		1,941.3003	1,941.3003	0.0616		1,942.8408
Total	1.5525	10.4303	11.5605	0.0386	2.5234	0.0839	2.6072	0.6799	0.0797	0.7597		3,958.2696	3,958.2696	0.1964		3,963.1783

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.3 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3098	8.7397	2.6480	0.0189	0.4694	0.0462	0.5156	0.1351	0.0441	0.1792		2,003.9159	2,003.9159	0.1261		2,007.0687
Worker	1.0713	0.7634	7.5483	0.0189	2.0539	0.0143	2.0682	0.5448	0.0132	0.5580		1,881.5990	1,881.5990	0.0541		1,882.9515
Total	1.3811	9.5030	10.1963	0.0378	2.5233	0.0604	2.5837	0.6799	0.0573	0.7372		3,885.5149	3,885.5149	0.1802		3,890.0202

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.3 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3098	8.7397	2.6480	0.0189	0.4694	0.0462	0.5156	0.1351	0.0441	0.1792		2,003.9159	2,003.9159	0.1261		2,007.0687
Worker	1.0713	0.7634	7.5483	0.0189	2.0539	0.0143	2.0682	0.5448	0.0132	0.5580		1,881.5990	1,881.5990	0.0541		1,882.9515
Total	1.3811	9.5030	10.1963	0.0378	2.5233	0.0604	2.5837	0.6799	0.0573	0.7372		3,885.5149	3,885.5149	0.1802		3,890.0202

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0595	0.0424	0.4194	1.0500e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		104.5333	104.5333	3.0100e-003		104.6084
Total	0.0595	0.0424	0.4194	1.0500e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		104.5333	104.5333	3.0100e-003		104.6084

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0595	0.0424	0.4194	1.0500e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		104.5333	104.5333	3.0100e-003		104.6084
Total	0.0595	0.0424	0.4194	1.0500e-003	0.1141	7.9000e-004	0.1149	0.0303	7.3000e-004	0.0310		104.5333	104.5333	3.0100e-003		104.6084

3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.4 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419
Total	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.4 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419
Total	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419

3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.9924					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	50.2113	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.5 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1993	0.1368	1.3779	3.6500e-003	0.4108	2.7700e-003	0.4136	0.1090	2.5600e-003	0.1115		363.5087	363.5087	9.6900e-003		363.7509
Total	0.1993	0.1368	1.3779	3.6500e-003	0.4108	2.7700e-003	0.4136	0.1090	2.5600e-003	0.1115		363.5087	363.5087	9.6900e-003		363.7509

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.9924					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	50.2113	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Lenity - Sacramento Self Storage - Sacramento County, Winter

3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1993	0.1368	1.3779	3.6500e-003	0.4108	2.7700e-003	0.4136	0.1090	2.5600e-003	0.1115		363.5087	363.5087	9.6900e-003		363.7509
Total	0.1993	0.1368	1.3779	3.6500e-003	0.4108	2.7700e-003	0.4136	0.1090	2.5600e-003	0.1115		363.5087	363.5087	9.6900e-003		363.7509

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Diversity

Improve Walkability Design

Lenity - Sacramento Self Storage - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.2689	26.0230	67.1351	0.1646	14.1008	0.1615	14.2623	3.7702	0.1512	3.9214		16,663.87 53	16,663.87 53	0.9593		16,687.85 89
Unmitigated	6.4464	27.3398	71.5033	0.1811	15.6675	0.1756	15.8431	4.1891	0.1644	4.3535		18,336.55 82	18,336.55 82	1.0291		18,362.28 45

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	834.00	834.00	834.00	1,282,950	1,154,655
Regional Shopping Center	2,992.00	2,992.00	2,992.00	4,180,737	3,762,663
Retirement Community	508.30	508.30	508.30	1,304,353	1,173,918
Unrefrigerated Warehouse-No Rail	212.01	212.01	212.01	616,598	554,939
Total	4,546.31	4,546.31	4,546.31	7,384,638	6,646,175

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Retirement Community	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Unrefrigerated Warehouse-No	10.00	5.00	6.50	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Lenity - Sacramento Self Storage - Sacramento County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
Regional Shopping Center	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
Retirement Community	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915
Unrefrigerated Warehouse-No Rail	0.555851	0.039752	0.205040	0.120748	0.020349	0.005402	0.018507	0.022668	0.002052	0.002157	0.005939	0.000618	0.000915

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2468	2.2127	1.6602	0.0135		0.1705	0.1705		0.1705	0.1705		2,691.8912	2,691.8912	0.0516	0.0494	2,707.8878
NaturalGas Unmitigated	0.2694	2.4156	1.8138	0.0147		0.1861	0.1861		0.1861	0.1861		2,938.4578	2,938.4578	0.0563	0.0539	2,955.9196

Lenity - Sacramento Self Storage - Sacramento County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	18412.2	0.1986	1.8051	1.5163	0.0108		0.1372	0.1372		0.1372	0.1372		2,166.1360	2,166.1360	0.0415	0.0397	2,179.0082
Regional Shopping Center	742.466	8.0100e-003	0.0728	0.0611	4.4000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003		87.3489	87.3489	1.6700e-003	1.6000e-003	87.8680
Retirement Community	5635.02	0.0608	0.5193	0.2210	3.3100e-003		0.0420	0.0420		0.0420	0.0420		662.9436	662.9436	0.0127	0.0122	666.8831
Unrefrigerated Warehouse-No Rail	187.25	2.0200e-003	0.0184	0.0154	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003		22.0294	22.0294	4.2000e-004	4.0000e-004	22.1603
Total		0.2694	2.4156	1.8138	0.0147		0.1861	0.1861		0.1861	0.1861		2,938.4578	2,938.4578	0.0563	0.0539	2,955.9196

Lenity - Sacramento Self Storage - Sacramento County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	16.8349	0.1816	1.6505	1.3864	9.9000e-003		0.1254	0.1254		0.1254	0.1254		1,980.5795	1,980.5795	0.0380	0.0363	1,992.3491
Regional Shopping Center	0.680959	7.3400e-003	0.0668	0.0561	4.0000e-004		5.0700e-003	5.0700e-003		5.0700e-003	5.0700e-003		80.1128	80.1128	1.5400e-003	1.4700e-003	80.5889
Retirement Community	5.19667	0.0560	0.4789	0.2038	3.0600e-003		0.0387	0.0387		0.0387	0.0387		611.3725	611.3725	0.0117	0.0112	615.0056
Unrefrigerated Warehouse-No Rail	0.168525	1.8200e-003	0.0165	0.0139	1.0000e-004		1.2600e-003	1.2600e-003		1.2600e-003	1.2600e-003		19.8265	19.8265	3.8000e-004	3.6000e-004	19.9443
Total		0.2468	2.2127	1.6602	0.0135		0.1705	0.1705		0.1705	0.1705		2,691.8912	2,691.8912	0.0516	0.0494	2,707.8878

6.0 Area Detail

6.1 Mitigation Measures Area

Lenity - Sacramento Self Storage - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.6038	0.1625	14.0874	7.4000e-004		0.0776	0.0776		0.0776	0.0776	0.0000	25.3216	25.3216	0.0247	0.0000	25.9379
Unmitigated	12.6038	0.1625	14.0874	7.4000e-004		0.0776	0.0776		0.0776	0.0776	0.0000	25.3216	25.3216	0.0247	0.0000	25.9379

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7533					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.4217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4288	0.1625	14.0874	7.4000e-004		0.0776	0.0776		0.0776	0.0776		25.3216	25.3216	0.0247		25.9379
Total	12.6038	0.1625	14.0874	7.4000e-004		0.0776	0.0776		0.0776	0.0776	0.0000	25.3216	25.3216	0.0247	0.0000	25.9379

Lenity - Sacramento Self Storage - Sacramento County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7533					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.4217					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4288	0.1625	14.0874	7.4000e-004		0.0776	0.0776		0.0776	0.0776		25.3216	25.3216	0.0247		25.9379
Total	12.6038	0.1625	14.0874	7.4000e-004		0.0776	0.0776		0.0776	0.0776	0.0000	25.3216	25.3216	0.0247	0.0000	25.9379

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Lenity - Sacramento Self Storage - Sacramento County, Winter

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Attachment B

Climate Action Plan - Consistency Review Checklist

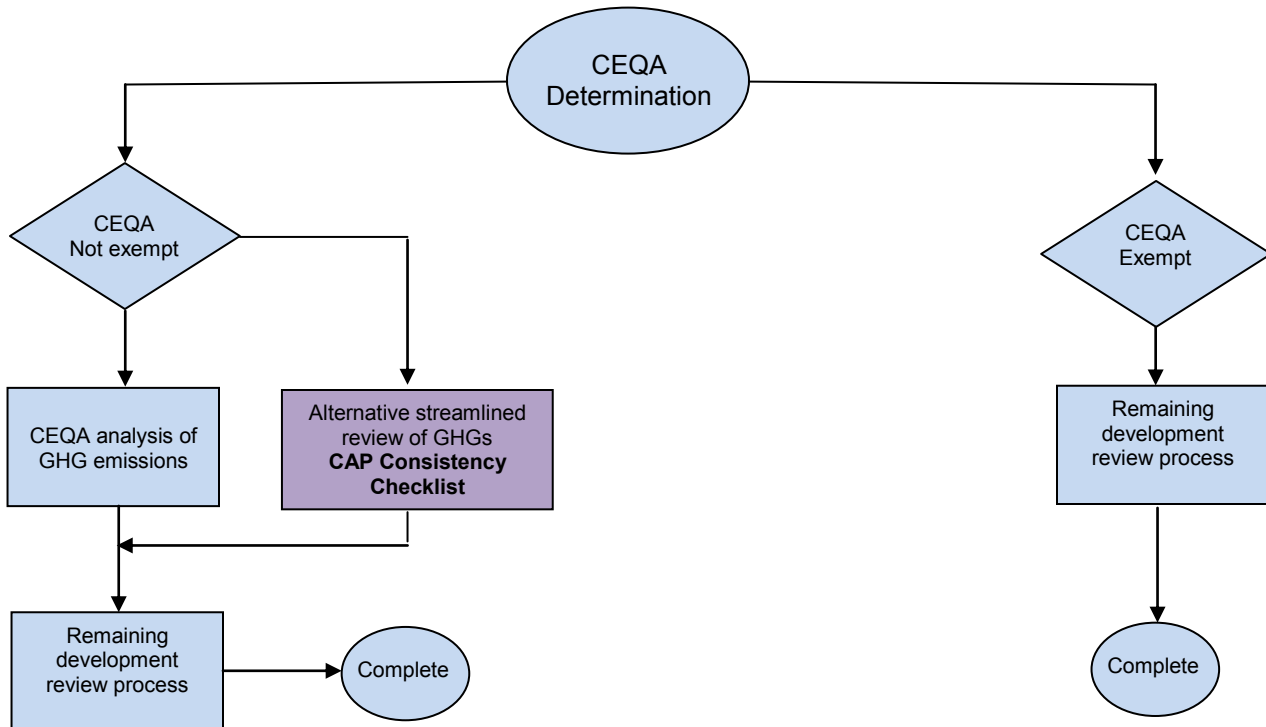
CLIMATE ACTION PLAN – CONSISTENCY REVIEW CHECKLIST

The purpose of the Climate Action Plan Consistency Review Checklist (CAP Consistency Review Checklist) is to provide a streamlined review process for proposed new development projects which are subject to discretionary review and trigger environmental review pursuant to the California Environmental Quality Act (CEQA)..

CEQA Guidelines require the analysis of greenhouse gas (GHG) emissions and potential climate change impacts from new development. The Sacramento Climate Action Plan qualifies under section 15183.5 of the CEQA Guidelines as a plan for the reduction of GHG emissions for use in cumulative impact analysis pertaining to development projects. This allows projects that demonstrate consistency with the CAP to be eligible for this streamlining procedure. Projects that demonstrate consistency with the CAP and the Sacramento 2030 General Plan may be able to answer “No additional significant environmental effect” in the City’s initial study checklist. Projects that do not demonstrate consistency may, at the City’s discretion, prepare a more comprehensive project-specific analysis of GHG emissions consistent with CEQA requirements. (See FAQ about the CAP Consistency Review Checklist for more details.)

The diagram below shows the context for the CAP Consistency Review Checklist within the planning review process framework.

Streamlined Review of GHG Emissions in Development Projects



CLIMATE ACTION PLAN – CONSISTENCY REVIEW CHECKLIST

Application Submittal Requirements

1. The CAP Consistency Review Checklist is required only for proposed new development projects which are subject to CEQA review (non-exempt projects)
2. If required, the CAP Consistency Review Checklist must be submitted in addition to the basic set of requirements set forth in the Universal Application and the Planning Application Submittal Matrix.
3. The applicant shall work with staff to meet the requirements of this checklist. These requirements will be reflected in the conditions of approval and/or mitigation measures.
4. All conditions of approval and mitigation measures from this checklist shall be shown on full-size sheets for building plan check submittals.

Application Information

Project Number: LEA-03

Address of Property: 500 Leisure Lane

Was a special consultant retained to complete this checklist? Yes No. If yes, complete following

Consultant Name*: Victor Ortiz

Company: HELIX Environmental Planning Inc.

Phone: 619-462-1515 E-Mail: victoro@helixepi.com

CAP Consistency Checklist Form for Projects that are Not Exempt from CEQA

Checklist Item (Check the appropriate box, and provide explanation for your answer).	Yes	No*
1. Is the proposed project substantially consistent with the City's over-all goals for land use and urban form, allowable floor area ratio (FAR) and/or density standards in the City's 2035 General Plan, as it currently exists?	X	
<p>Please explain how proposed project compares to 2035 General Plan with respect to density standards, FAR, land use and urban form. (See directions for filling out CAP Checklist)</p> <p>The project is consistent with the General Plan land use designation (Suburban Center); additionally, it would not require any change to the current zoning (C-2-LI, or General Commercial).</p>		

2. Would the project incorporate traffic calming measures? (Examples of traffic calming measures include, but are not limited to: curb extensions, speed tables, raised crosswalks, raised intersections, median islands, tight corner radii, roundabouts or mini-circles, on-street parking, planter strips with street trees, chicanes/chokers.)	Yes	NA
		X
<p>Please explain how the proposed project meets this requirement (list traffic calming measures). If "not applicable" (NA), explain why traffic calming measures were not required.</p> <p>The proposed project does not include any roadway or facility improvements, traffic calming measures do not apply.</p>		

*If "No", equivalent or better GHG reduction must be demonstrated as part of the project and incorporated into the conditions of approval.

Note: Requirements from this checklist should be incorporated into the conditions of approval, and shown on the full-size plans submitted for building plan check.

Checklist Item (Check the appropriate box, and provide explanation for your answer).	Yes	NA
3. Would the project incorporate pedestrian facilities and connections to public transportation consistent with the City's Pedestrian Master Plan?	X	
<p>Please explain how the proposed project meets this requirement. If "not applicable" (NA), explain why this was not required.</p> <p>The proposed project site plan features numerous pedestrian access points and pedestrian access features with opportunities for pedestrians to access the site from surrounding streets and other parts of the site. Sidewalk improvements will extend east of the project site, so major conflicts between vehicles and pedestrians are not expected. The project would also comply with the City development standards and regulations, which address hazards or barriers for pedestrian or bicycle access.</p>		

4. Would the project incorporate bicycle facilities consistent with the City's Bikeway Master Plan, and meet or exceed minimum standards for bicycle facilities in the Zoning Code and CALGreen?	Yes	NA
	<p>Please explain how the proposed project meets this requirement. If "not applicable" (NA), explain why this was not required.</p> <p>The project would also comply with the City development standards and regulations, which address hazards or barriers for pedestrian or bicycle access.</p>	X

*If "No", equivalent or better GHG reduction must be demonstrated as part of the project and incorporated into the conditions of approval.

Note: Requirements from this checklist should be incorporated into the conditions of approval, and shown on the full-size plans submitted for building plan check.

Checklist Item (Check the appropriate box, and provide explanation for your answer).	Yes	No*	NA
5. For residential projects of 10 or more units, commercial projects greater than 25,000 square feet, or industrial projects greater than 100,000 square feet, would the project include on-site renewable energy systems (e.g., photovoltaic systems) that would generate at least a minimum of 15% of the project's total energy demand on-site? (CAP Actions: 3.4.1 and 3.4.2)		X	
<p>Please explain how the proposed project meets this requirement. If "not applicable" (NA), explain why this was not required. If project does not meet requirements, see DIRECTIONS FOR FILLING OUT CAP CONSISTENCY REVIEW CHECKLIST re: alternatives to meeting checklist requirements.</p> <p>Prior to issuance of building permits, the applicant shall comply with the alternative Climate Action Plan requirement to exceed the minimum energy efficiency standards under California Administrative Code Title 24 by 5% for residential land uses and 5% for commercial land uses. Measures to increase the energy efficiency of the project buildings shall include, but are not limited to:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Increased wall insulation, smart meters, above-standard ventilation systems or energy efficiency lighting fixtures <input type="checkbox"/> Enrollment in Greenenergy (SMUD) or other program achieving programmatic reductions in greenhouse gas emissions <input type="checkbox"/> Purchase of energy efficiency credits (SMAQMD) or other program achieving programmatic improvements in building efficiency <p>The applicant shall submit energy calculations with building plans and certification of any required professional to demonstrate compliance with this condition, including specific reference to the percentage improvements required under the Climate Action Plan.</p> <p>Attach a copy of the CalEEMod input and output. Record the model and version here _____.</p> <p>Do NOT select the "use historical" box in CalEEMod for energy demand analysis related to this requirement.</p>			
6. Would the project (if constructed on or after January 1, 2014) comply with minimum CALGreen Tier 1 water efficiency standards?	Yes	NA	X
<p>Please explain how the proposed project meets this requirement. If "not applicable" (NA), explain why this was not required.</p> <p>The project shall comply with the adopted CAP by meeting the Tier 1 Voluntary Standards for Health Facilities (OSHPD 1, 2 & 4) in the 2013 California Green Building Standards Code (CALGreen).</p>			

*If "No", equivalent or better GHG reduction must be demonstrated as part and incorporated into the conditions of approval.

Note: Requirements from this checklist should be incorporated into the conditions of approval, and shown on the full-size plans submitted for building plan check.

Certification

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this initial evaluation to the best of my ability and that the facts, statements and information presented are true and correct to the best of my knowledge and belief.

Signature:  _____ Date: June 7, 2018

DIRECTIONS FOR FILLING OUT CAP CONSISTENCY REVIEW CHECKLIST

General Plan Consistency & Sustainable Land Use

1. Is the proposed project substantially consistent with the land use and urban form designation, allowable floor area ratio (FAR) and/or density standards in the City's [2035 General Plan](#)?

Consistency with the General Plan land use and urban form designation, FAR and/or density standards is a key determining factor in whether or not the CAP Consistency Review procedure can be used. This is because future growth and development consistent with the General Plan was used to estimate business as usual emission forecasts, as well as emission reductions from actions that would be applicable to new development.

Refer to the 2035 General Plan, Land Use and Urban Form Designations and Development Standards starting on page 2-29. If a project is not fully consistent with the General Plan, the project still may qualify for consistency with the CAP, but this determination will need to be closely coordinated with the City. The City will determine whether the proposed land uses under consideration could be found consistent with the growth projections and assumptions used to develop the GHG emissions inventory and projections in the CAP.

Mobility

2. Would the project incorporate traffic calming measures? (Applicable CAP Action: 2.1.1)

List the traffic calming measures that have been incorporated into the project. These may include, but are not limited to: curb extensions, speed tables, raised crosswalks, raised intersections, median islands, tight corner radii, roundabouts or mini-circles, on-street parking, planter strips with street trees, chicanes/chokers.

The project proponent and City staff should consult with staff in the Department of Public Works-Transportation Division to verify that traffic calming measures are adequate and in compliance with the City's Street Design Standards.

If the proposed project does not include any roadway or facility improvements, traffic calming measures may not apply. For example, certain infill projects may not result in on-street or transportation facility improvements because sufficient infrastructure already exists.

3. Would the project incorporate pedestrian facilities and connections to public transportation consistent with the City's Pedestrian Master Plan? (Applicable CAP Action: 2.2.1)

List the pedestrian facilities and connections to public transportation that have been included in the proposed project on the Checklist. These may include, but are not limited to: sidewalks on both sides of streets, marked crosswalks, count-down signal timers, curb extensions, median islands, transit shelters, street lighting.

The project proponent and City staff should consult with Department of Public Works-Transportation Division staff to verify that pedestrian facilities are consistent with the [Pedestrian Master Plan](#). As in the previous example, if "not applicable", an explanation shall be documented in the Checklist. For example, certain infill projects may not require on-street or transportation facility improvements because sufficient infrastructure already exists.

The “Pedestrian Review Process Guide” ([Appendix A to the Master Plan](#)) will be used to determine consistency, as follows:

- For typical infill development projects where existing streets will serve the site (no new streets are proposed): the level of pedestrian improvements necessary to determine Pedestrian Master Plan consistency will be measured according to the “Basic, Upgrade or Premium” categories defined in Appendix A to the Pedestrian Master Plan, which are based on project location, surrounding land uses, proximity to transit, etc. If the proposed project does not include the minimum level of improvements per the assigned category for the project’s location, the project will be required as a condition of approval to include appropriate features, per the approval of the Department of Public Works-Transportation Division.
- For new “greenfield” projects and/or larger infill development projects where new streets are proposed as part of the project, the following will apply:
 - “Basic, Upgrade or Premium” levels of improvement will be required based on the proposed project’s location and context, where applicable, consistent with the criteria defined in the Master Plan. If the proposed project does not include the minimum level of improvements per the assigned category, the project will be required as a condition of approval to include appropriate features, per the approval of the Department of Public Works-Transportation Division.
 - The “Pedestrian Smart Growth Scorecard” (Appendix A to the Master Plan) will be required to be completed for the project, and a minimum score of 3 or better will need to be achieved. If the proposed project cannot achieve the minimum score, changes to the proposed project may be required, and/or the project may be required as a condition of approval to include certain improvements such that the average score will meet 3 or better. (Note: an Excel version of the Pedestrian Smart Growth Scorecard is available, to assist in automating the rating & scoring process)

4. Would the project incorporate bicycle facilities consistent with the City’s Bikeway Master Plan, and meet or exceed minimum standards for bicycle facilities in the Zoning Code and CALGreen? (Applicable CAP Action: 2.3.1)

List the bicycle facilities that are incorporated into the proposed project on the Checklist. These include, but are not limited to: Class I bike trails and Class II bike lanes connecting the project site to an existing bike network and transit stations, bike parking [bike racks, indoor secure bike parking, bike lockers], end-of-trip facilities at non-residential land uses [showers, lockers]).

The project proponent and City staff should consult with staff in the Transportation Division of the Department of Public Works to verify that such facilities are consistent with the [Bikeway Master Plan](#) and meet or exceed Zoning Code and CALGreen standards. Generally, the following guidelines will be used:

- If existing on-street and off-street bikeways are already present and determined to be consistent with the Bikeway Master Plan, no additional on-street bikeways will be required. Check the “not applicable” box if appropriate. However, on-site facilities shall still be required to meet or exceed minimum Zoning and CALGreen requirements.
- If not applicable, fully document the reasons why using the Checklist.

- If on-street bicycle facilities are not present or are only partially consistent with the Master Plan, the project will be required as a condition of approval to construct or pay for its fair-share of on-street and/or off-street bikeways described in the Master Plan, in addition to meeting or exceeding minimum on-site facilities.
- In some cases, a combination of new or upgraded on-street and off-street bikeways may be used to determine consistency with the Master Plan, at the discretion of the Department of Public Works-Transportation Division staff.

Energy Efficiency and Renewable Energy

- 5. For residential projects of 10 or more units, commercial projects greater than 25,000 square feet, or industrial projects greater than 100,000 square feet, would the project include on-site renewable energy systems (e.g., solar photovoltaic, solar water heating etc.) that would generate at least 15% of the project's total energy demand? (CAP Actions: 3.4.1 and 3.4.2)**

For projects of the minimum size specified in this measure, a commitment in the project description or in a mitigation measure that the project shall generate a minimum of 15% of the project's energy demand on-site is sufficient to demonstrate consistency with this measure. However, the project conditions of approval or mitigation measures should specify the intended renewable energy technology to be used (e.g. solar photovoltaic, solar water heating, wind, etc.) and estimated size of the systems to meet project demand based on the project description.

"Total energy demand" refers to the energy (electricity and natural gas) consumed by the built environment (including HVAC systems, water heating systems, and lighting systems) as well as uses that are independent of the construction of buildings, such as office equipment and other plug-ins.

Applicants may estimate the total energy demand of their projects using California Emissions Estimator Model (CalEEMod 2013.2), the same software used to estimate greenhouse gas emissions. **For CalEEMod estimates of energy demand to meet this specific requirement, the user should NOT select the "use historical" box, otherwise they will be "double-counting" emissions reductions that have already been counted.** CalEEMod outputs for electricity demand are provided in annual kWh, and natural gas demand is provided in annual kBtu.

The energy demand estimate by CalEEMod is based on two datasets:

- The California Commercial End Use Survey (CEUS);
- The Residential Appliance Saturation Survey (RASS)

CalEEMod takes energy use intensity data (above) and forecasts energy demand based on climate zone, land use subtype (such as "hospital", "arena", or "apartments, mid rise"), building area, and the number of buildings or units. This is an appropriate level of analysis for use at the planning submittal stage, but it may not provide an accurate picture of actual project energy demand because it does not factor project specifics such as building design.

Therefore, the applicant is advised (but not required) to run a more comprehensive energy simulation once project-specific details are known: basic building design, square-footage, building envelope, lighting design (at least rudimentary), and the mechanical system (at least minimally zoned). Some of the energy simulation programs that are appropriate for this level of analysis include: DOE 2.2, Trace 700, and Energy Pro.

The U.S. DOE maintains a list of energy simulation programs that are available.

http://apps1.eere.energy.gov/buildings/tools_directory/subjects.cfm/pagename=subjects/pagename_menu=whole_building_analysis/pagename_submenu=energy_simulation

The applicant may then revise the estimate and make a final determination regarding the size of the PV system that is required.

Substitutions: Projects may substitute a quantity of energy efficiency for renewable energy, as long as the substituted GHG reduction does not “double count” GHG reductions already taken by the CAP. In other words, substitutions must reduce GHG emissions from the project beyond what is already accounted for in the CAP (to avoid double-counting).

- Additional mitigation may include equivalent or better GHG reduction from individual measures or a combination of:
- In lieu of installing PV systems that would generate 15% of the projects total energy, the project may exceed energy efficiency standards of Title 24, part 6 of the California Building Code, such as building to CALGreen Tier 1 energy standards. (Residential projects shall exceed the 2013 Title 24 energy efficiency by a minimum of 10% and commercial projects shall exceed 2013 Title 24 energy efficiency by a minimum of 5%).

6. Would the project comply with minimum CALGreen Tier I water efficiency standards? (CAP Action: 5.1.1)

The [California Green Building Standards Code \(CALGreen\)](#) includes mandatory green building measures, as well as voluntary measures that local jurisdictions may choose to adopt to achieve higher performance tiers, at either Tier 1 or Tier 2 compliance levels. Sacramento has adopted Tier 1 Water Efficiency Standards to be required on or after January 1, 2014. Currently, in order to meet the Tier 1 Water Efficiency Standards, buildings are required to implement all mandatory water efficiency and conservation measures as well as certain Tier 1 specific measures that exceed minimum mandatory measures (e.g. 30% increase in indoor water efficiency). Specific Tier 1 provisions can be found in the CALGreen Code at <http://www.bsc.ca.gov/Home/CALGreen.aspx>.

The City recognizes that project construction details are often not known at the environmental review stage, and it may be premature for a project proponent to identify compliance with precise requirements of CALGreen. A condition of approval requiring the project to comply with minimum CALGreen Tier 1 water efficiency and conservation standards is sufficient to demonstrate consistency with this criterion.

Planning approval of your project will include the following condition:

Project must meet CALGreen Tier 1 water efficiency and conservation standards. Copies of the appropriate CalGreen checklist (see FAQ) shall be included on the full-size sheets for building plan check submittals.

Note: Requirements from this checklist should be incorporated into the conditions of approval, and shown on the full-size plans submitted for building plan check.



Appendix C

CNDDDB Records Search





Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad is (Carmichael (3812153) or Citrus Heights (3812163) or Clarksburg (3812145) or Elk Grove (3812143) or Florin (3812144) or Rio Linda (3812164) or Sacramento East (3812154) or Sacramento West (3812155) or Taylor Monument (3812165))

Map Index Number: 41025	EO Index: 41042
Key Quad: Carmichael (3812153)	Element Code: AAABF02020
Occurrence Number: 167	Occurrence Last Updated: 1999-05-12

Scientific Name: <i>Spea hammondi</i>	Common Name: western spadefoot
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	CDFW_SSC-Species of Special Concern
Global: G3	IUCN_NT-Near Threatened
State: S3	

General Habitat: OCCURS PRIMARILY IN GRASSLAND HABITATS, BUT CAN BE FOUND IN VALLEY-FOOTHILL HARDWOOD WOODLANDS.	Micro Habitat: VERNAL POOLS ARE ESSENTIAL FOR BREEDING AND EGG-LAYING.
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Last Date Observed: 1997-01-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-01-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
0.4 MILE NNW OF JUNCTION OF KIEFER BLVD AND EAGLES NEST ROAD, MATHER REGIONAL PARK.

Detailed Location:
3 VERNAL POOLS IN THIS PORTION OF THE COMPLEX WERE FOUND TO CONTAIN WESTERN SPADEFOOT. PART OF THE OLD MATHER AFB. 1993 REPORT INDICATED THAT THERE WERE 6 VERNAL POOLS & SWALES WHERE THEY WERE SEEN BUT NO MAP OR COORDINATES GIVEN.

Ecological:
VERNAL POOLS, AND DISTURBED VERNAL POOLS.

Threats:
IMPACTED BY HUMANS.

General:
OBSERVED SEVERAL POPULATIONS IN 1993 AND 1996-97 IN THE VICINITY OF EAGLES NEST ROAD. ALSO OBSERVED LEPIDURUS PACKARDI & LINDERIELLA OCCIDENTALIS.

PLSS: T08N, R06E, Sec. 24 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4266445 E651135	Latitude/Longitude: 38.53359 / -121.26601	Elevation (feet): 140

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

JSA93R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS PLANT AND WILDLIFE SURVEY RESULTS FOR THE MATHER REDEVELOPMENT PLAN AREA, SACRAMENTO COUNTY. PREPARED FOR: SAC HOUSING & REDEVELOPMENT AGENCY 1993-08-03
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 70289

EO Index: 71179

Key Quad: Carmichael (3812153)

Element Code: AAABF02020

Occurrence Number: 396

Occurrence Last Updated: 2007-11-01

Scientific Name: *Spea hammondi*

Common Name: western spadefoot

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: BLM_S-Sensitive
CDFW_SSC-Species of Special Concern
IUCN_NT-Near Threatened

CNDDDB Element Ranks: **Global:** G3

State: S3

General Habitat:

OCCURS PRIMARILY IN GRASSLAND HABITATS, BUT CAN BE FOUND IN VALLEY-FOOTHILL HARDWOOD WOODLANDS.

Micro Habitat:

VERNAL POOLS ARE ESSENTIAL FOR BREEDING AND EGG-LAYING.

Last Date Observed: 2007-02-25

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2007-02-25

Occurrence Rank: Fair

Owner/Manager: SAC COUNTY

Trend: Unknown

Presence: Presumed Extant

Location:

0.2 MILE EAST OF EAGLES NEST ROAD AND 0.4 MILE NORTH OF KIEFER BOULEVARD, MATHER REGIONAL PARK.

Detailed Location:

POND IS LOCATED ON FORMER MATHER AIR FORCE BASE PROPERTY; THIS WAS AT ONE TIME A BOMB DISPOSAL SITE, AND SIGNS STILL WARN OF THIS THREAT.

Ecological:

HABITAT CONSISTS OF A POND SURROUNDED BY UNGRAZED ANNUAL GRASSLAND. SITE IS HIGHLY-DISTURBED, WITH INVASIVE PLANTS SPECIES, ORV'S, AND DEBRIS FROM CRASHED MODEL AIRPLANES.

Threats:

THREATENED BY ROAD DEVELOPMENT.

General:

16 ADULTS OBSERVED/CAPTURED BETWEEN 9 DEC 2006 & 25 FEB 2007; 13 TOE-CLIPS COLLECTED (DEPOSITED AT UC DAVIS).

PLSS: T08N, R07E, Sec. 19 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4266360 E651888

Latitude/Longitude: 38.53269 / -121.25738

Elevation (feet): 147

County Summary:

Sacramento

Quad Summary:

Carmichael (3812153)

Sources:

CHA06F0025 CHANG, A.T. (UNIVERSITY OF CALIFORNIA, DAVIS) - FIELD SURVEY FORM FOR SPEA HAMMONDII 2006-12-03



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11286	EO Index: 13106
Key Quad: Florin (3812144)	Element Code: ABNFD01020
Occurrence Number: 22	Occurrence Last Updated: 1995-12-07

Scientific Name: <i>Phalacrocorax auritus</i>	Common Name: double-crested cormorant
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_WL-Watch List IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat:

COLONIAL NESTER ON COASTAL CLIFFS, OFFSHORE ISLANDS, & ALONG LAKE MARGINS IN THE INTERIOR OF THE STATE.

Micro Habitat:

NESTS ALONG COAST ON SEQUESTERED ISLETS, USUALLY ON GROUND WITH SLOPING SURFACE, OR IN TALL TREES ALONG LAKE MARGINS.

Last Date Observed: 1988-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-XX-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY, PVT	Trend: Unknown
Presence: Presumed Extant	

Location:

SE ARM OF NORTH STONE LAKE, APPROX 6 MI S OF SACRAMENTO.

Detailed Location:

8 NESTS WITH APPROXIMATELY 20 ADULT BIRDS IN THE AREA; 2 NESTS CONTAINING YOUNG OBSERVED.

Ecological:

HABITAT CONSISTS OF A LARGE COTTONWOOD GROVE SURROUNDED BY A FRESHWATER MARSH BELOW.

Threats:

GRAZING IS MAIN THREAT; IT DOES NOT ALLOW REGENERATION OF TREES.

General:

GREAT BLUE HERON AND GREAT EGRET ALSO NEST HERE. COUNTY OF SACRAMENTO LEASES THIS PROPERTY TO A PRIVATE PARTY.

PLSS: T06N, R04E, Sec. 12 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4249814 E631712	Latitude/Longitude: 38.38685 / -121.49190	Elevation (feet): 5

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

MID88F0001	MIDDLETON, J. - FIELD SURVEY FORM FOR ARDEA HERODIAS 1988-05-02
MID88F0002	MIDDLETON, J. - FIELD SURVEY FORM FOR ARDEA ALBA 1988-05-02
VEN88F0001	VENNARD, M. - FIELD SURVEY FORM FOR PHALACROCORAX AURITUS AT NORTH STONE LAKE, S OF SACRAMENTO. 1988-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 66450
Key Quad: Florin (3812144)
Occurrence Number: 38

EO Index: 66554
Element Code: ABNFD01020
Occurrence Last Updated: 2006-09-27

Scientific Name: *Phalacrocorax auritus*
Listing Status: **Federal:** None
State: None
CNDDB Element Ranks: **Global:** G5
State: S4

Common Name: double-crested cormorant
Rare Plant Rank:
Other Lists: CDFW_WL-Watch List
IUCN_LC-Least Concern

General Habitat:
COLONIAL NESTER ON COASTAL CLIFFS, OFFSHORE ISLANDS, & ALONG LAKE MARGINS IN THE INTERIOR OF THE STATE.

Micro Habitat:
NESTS ALONG COAST ON SEQUESTERED ISLETS, USUALLY ON GROUND WITH SLOPING SURFACE, OR IN TALL TREES ALONG LAKE MARGINS.

Last Date Observed: 2005-03-26
Last Survey Date: 2005-03-26
Owner/Manager: SRCSD-BUFFERLANDS
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:
NORTHERN ISLAND ON BLACK CROWN LAKE, JUST UPSTREAM (EAST) OF I-5, 6.5 MILES NW OF ELK GROVE.

Detailed Location:

Ecological:
NEST TREES WERE POPULUS FREMONTII GROWING ON THE ISLAND. SURROUNDING AREA IS MANAGED SEASONAL WETLANDS AND RIPARIAN/GRASSLAND RESTORATION SITES.

Threats:
THREATENED BY LOSS OF TREES TO BEAVER PREDATION.

General:
2 ACTIVE DCCO NESTS PRESENT DURING 2005.

PLSS: T07N, R04E, Sec. 24 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4255905 E632254	Latitude/Longitude: 38.44164 / -121.48454	Elevation (feet): 10

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
ALB05F0005 ALBRIGHT, J. (SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT BUFFERLANDS) - FIELD SURVEY FORM FOR PHALACROCORAX AURITUS (ROOKERY SITE) 2005-03-26



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	66452	EO Index:	66556
Key Quad:	Florin (3812144)	Element Code:	ABNFD01020
Occurrence Number:	39	Occurrence Last Updated:	2006-09-27

Scientific Name:	<i>Phalacrocorax auritus</i>	Common Name:	double-crested cormorant
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S4	Other Lists:	CDFW_WL-Watch List IUCN_LC-Least Concern

General Habitat:

COLONIAL NESTER ON COASTAL CLIFFS, OFFSHORE ISLANDS, & ALONG LAKE MARGINS IN THE INTERIOR OF THE STATE.

Micro Habitat:

NESTS ALONG COAST ON SEQUESTERED ISLETS, USUALLY ON GROUND WITH SLOPING SURFACE, OR IN TALL TREES ALONG LAKE MARGINS.

Last Date Observed:	2005-03-25	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2005-03-25	Occurrence Rank:	Excellent
Owner/Manager:	SRCS-D-BUFFERLANDS	Trend:	Unknown
Presence:	Presumed Extant		

Location:

ALONG MORRISON CREEK, 0.7 MILE UPSTREAM (EAST) OF I-5, 6.5 MILES NW OF ELK GROVE.

Detailed Location:**Ecological:**

HABITAT IS MATURE MIXED RIPARIAN, DOMINATED BY POPULUS FREMONTII, QUERCUS LOBATA, SALIX GOODINGII. ROOKERY INCLUDES GREAT BLUE HERON & GREAT EGRET NESTS. SURROUNDING AREA IS MANAGED SEASONAL WETLANDS & RIPARIAN/GRASSLAND RESTORATION SITE.

Threats:

THREATENED BY LOSS OF TREES TO BEAVER PREDATION.

General:

28 ACTIVE DCCO NESTS PRESENT DURING 2005.

PLSS: T07N, R05E, Sec. 19 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4256530 E632498	Latitude/Longitude: 38.44723 / -121.48163	Elevation (feet): 5

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

ALB05F0004 ALBRIGHT, J. (SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT BUFFERLANDS) - FIELD SURVEY FORM FOR PHALACROCORAX AURITUS (ROOKERY SITE) 2005-03-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11286	EO Index: 13052
Key Quad: Florin (3812144)	Element Code: ABNGA04010
Occurrence Number: 1	Occurrence Last Updated: 1995-11-02

Scientific Name: <i>Ardea herodias</i>	Common Name: great blue heron
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDF_S-Sensitive IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat: COLONIAL NESTER IN TALL TREES, CLIFFSIDES, AND SEQUESTERED SPOTS ON MARSHES.	Micro Habitat: ROOKERY SITES IN CLOSE PROXIMITY TO FORAGING AREAS: MARSHES, LAKE MARGINS, TIDE-FLATS, RIVERS AND STREAMS, WET MEADOWS.
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Last Date Observed: 1988-05-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-05-02	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY, PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH STONE LAKE, NEAR JCT SE ARM & MAIN LAKE BODY, APPROXIMATELY 6 MI S OF SACRAMENTO.

Detailed Location:
16 NESTS WITH ADULTS IN THEM ON 1 FEB 88; 54 NESTS WITH ADULTS COUNTED ON 2 MAY 88.

Ecological:
HABITAT CONSISTS OF A LARGE COTTONWOOD GROVE SURROUNDED BY FRESHWATER MARSH.

Threats:
MAIN THREAT IS GRAZING, WHICH DOES NOT ALLOW FOR REGENERATION OF COTTONWOOD TREES.

General:
COUNTY OF SACRAMENTO LEASES THE AREA TO A PRIVATE PARTY.

PLSS: T06N, R04E, Sec. 12 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4249814 E631712	Latitude/Longitude: 38.38685 / -121.49190	Elevation (feet): 5

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

MID88F0001	MIDDLETON, J. - FIELD SURVEY FORM FOR ARDEA HERODIAS 1988-05-02
MID88F0002	MIDDLETON, J. - FIELD SURVEY FORM FOR ARDEA ALBA 1988-05-02
VEN88F0001	VENNARD, M. - FIELD SURVEY FORM FOR PHALACROCORAX AURITUS AT NORTH STONE LAKE, S OF SACRAMENTO. 1988-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11602	EO Index: 25978	
Key Quad: Carmichael (3812153)	Element Code: ABNGA04010	
Occurrence Number: 2	Occurrence Last Updated: 2005-03-21	

Scientific Name: <i>Ardea herodias</i>	Common Name: great blue heron
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDF_S-Sensitive IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat: COLONIAL NESTER IN TALL TREES, CLIFFSIDES, AND SEQUESTERED SPOTS ON MARSHES.	Micro Habitat: ROOKERY SITES IN CLOSE PROXIMITY TO FORAGING AREAS: MARSHES, LAKE MARGINS, TIDE-FLATS, RIVERS AND STREAMS, WET MEADOWS.
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Last Date Observed: 2005-03-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-03-18	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG SOUTH SIDE OF THE AMERICAN RIVER, ACROSS FROM WILLIAM POND PARK, PART OF THE AMERICAN RIVER PARKWAY, CARMICHAEL.

Detailed Location:
SOME NEST TREES ARE LOCATED IN THE BACKYARDS OF RESIDENCES ON THE SOUTH SIDE OF THE RIVER; OTHERS ARE PART OF THE NATIVE RIPARIAN ALONG THE AMERICAN RIVER.

Ecological:
NEST TREES APPEAR TO BE A MIX OF NATIVE OAKS AND EXOTIC TREES. GREAT EGRETS ALSO NEST AT THIS SITE.

Threats:
POSSIBLE THREAT OF DISTURBANCE FROM RIVER RECREATION.

General:
1988: 24 NESTS LOCATED IN 5 TREES, 3 OF WHICH ARE IN BACKYARDS. 1990: 12 NESTS/20 ADULTS FOUND IN 1 TREE IN A BACKYARD. 2004: ~20 ACTIVE NESTS (10 GBHE/10 GREG). 18 MAR 2005: 15 ACTIVE GBHE NESTS.

PLSS: T08N, R06E, Sec. 04 (M)	Accuracy: specific area	Area (acres): 35
UTM: Zone-10 N4271447 E645687	Latitude/Longitude: 38.57955 / -121.32743	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

JOH04F0001	JOHNSON, D.L. - FIELD SURVEY FORM FOR ARDEA HERODIAS & ARDEA ALBA (ROOKERY SITE) 2004-06-XX
JOH88F0004	JOHNSON, D.L. - FIELD SURVEY FORM FOR ARDEA HERODIAS ALONG AMERICAN RIVER, 0.5 MI. SSW OF GOETHE PARK, CARMICHAEL 1988-05-04
SOG90F0002	SOGGE, M. - FIELD SURVEY FORM FOR ARDEA HERODIAS 1990-01-26
WAR05F0004	WARENYCIA, D. & D. JOHNSON (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR ARDEA HERODIAS (ROOKERY SITE) 2005-03-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11341	EO Index: 25961
Key Quad: Rio Linda (3812164)	Element Code: ABNGA04010
Occurrence Number: 16	Occurrence Last Updated: 2003-02-27

Scientific Name: <i>Ardea herodias</i>	Common Name: great blue heron
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDF_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	
State: S4	

General Habitat: COLONIAL NESTER IN TALL TREES, CLIFFSIDES, AND SEQUESTERED SPOTS ON MARSHES.	Micro Habitat: ROOKERY SITES IN CLOSE PROXIMITY TO FORAGING AREAS: MARSHES, LAKE MARGINS, TIDE-FLATS, RIVERS AND STREAMS, WET MEADOWS.
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Last Date Observed: 2002-04-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-04-04	Occurrence Rank: Excellent
Owner/Manager: CITY OF SACRAMENTO	Trend: Increasing
Presence: Presumed Extant	

Location:
DRY CREEK, 0.5 MILE SOUTH OF THE JUNCTION OF WEST 2ND STREET AND ASCOT AVENUE, RIO LINDA

Detailed Location:
ROOKERY IS LOCATED MIDWAY BETWEEN DRAINAGE CANAL AND RIO LINDA / MARYSVILLE BOULEVARD.

Ecological:
HABITAT CONSISTS OF A NARROW VALLEY OAK RIPARIAN CORRIDOR ALONG DRY CREEK. BOTH GREAT EGRETS AND GREAT BLUE HERONS NEST HERE.

Threats:
General:
NESTING OBSERVED IN A SINGLE OAK TREE IN MAR 1988. 8 OCCUPIED NESTS OBSERVED ON 11 APR 2001. 18 OCCUPIED NESTS OBSERVED ON 4 APR 2002.

PLSS: T09N, R05E, Sec. 06 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4280455 E633421	Latitude/Longitude: 38.66263 / -121.46649	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
KIN02F0002 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR ARDEA HERODIAS (ROOKERY SITE) 2002-04-04
VEN88F0003 VENNARD, M. - FIELD SURVEY FORM & MAP FOR ARDEA HERODIAS 1988-03-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 54474	EO Index: 54474	
Key Quad: Rio Linda (3812164)	Element Code: ABNGA04010	
Occurrence Number: 71	Occurrence Last Updated: 2004-02-25	

Scientific Name: <i>Ardea herodias</i>	Common Name: great blue heron
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDF_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	
State: S4	

General Habitat: COLONIAL NESTER IN TALL TREES, CLIFFSIDES, AND SEQUESTERED SPOTS ON MARSHES.	Micro Habitat: ROOKERY SITES IN CLOSE PROXIMITY TO FORAGING AREAS: MARSHES, LAKE MARGINS, TIDE-FLATS, RIVERS AND STREAMS, WET MEADOWS.
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Last Date Observed: 2001-04-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-XX-XX	Occurrence Rank: Excellent
Owner/Manager: SAC AREA FLOOD CONTROL AGENCY	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH SIDE OF ROBLA CREEK, DIRECTLY NORTH OF KELTON WAY, RIO LINDA.

Detailed Location:
GREAT EGRETS ARE ALSO PART OF THIS COLONY.

Ecological:
NEST TREE IS AN ISOLATED VALLEY OAK, WITH GRASSLAND TO THE NORTH AND LEVEE/RESIDENTIAL TO THE SOUTH.

Threats:
General:
2 OCCUPIED NESTS OBSERVED ON 11 APR 2001. IN 2002, HERONS DID NOT OCCUPY THIS TREE, POSSIBLY DUE TO THE PRESENCE OF A NESTING PAIR OF RED-TAILED HAWKS.

PLSS: T09N, R05E, Sec. 05 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4280180 E633470	Latitude/Longitude: 38.66015 / -121.46597	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
KIN01F0001 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR ARDEA HERODIAS (NESTING COLONY) 2001-04-11



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	54478	EO Index:	54478
Key Quad:	Rio Linda (3812164)	Element Code:	ABNGA04010
Occurrence Number:	72	Occurrence Last Updated:	2004-02-25

Scientific Name:	<i>Ardea herodias</i>	Common Name:	great blue heron
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S4	Other Lists:	CDF_S-Sensitive IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
COLONIAL NESTER IN TALL TREES, CLIFFSIDES, AND SEQUESTERED SPOTS ON MARSHES.	ROOKERY SITES IN CLOSE PROXIMITY TO FORAGING AREAS: MARSHES, LAKE MARGINS, TIDE-FLATS, RIVERS AND STREAMS, WET MEADOWS.

Last Date Observed:	2002-04-04	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-04-04	Occurrence Rank:	Fair
Owner/Manager:	CITY OF SACRAMENTO	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG ROBLA CREEK, JUST EAST OF THE WPRR TRACKS, RIO LINDA.

Detailed Location:

Ecological:

NEST TREE IS AN ISOLATED VALLEY OAK AND SNAG, SURROUNDED BY A MANAGED FLOODPLAIN WITH CATTLE GRAZING; LIGHT INDUSTRIAL TO THE SOUTH AND NEMDC TO THE WEST.

Threats:

General:

2 NESTS OBSERVED IN APR 2001. 3 OCCUPIED NESTS OBSERVED ON 4 APR 2002.

PLSS: T09N, R05E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4279957 E632920	Latitude/Longitude: 38.65822 / -121.47233	Elevation (feet): 30

County Summary:

Sacramento

Quad Summary:

Rio Linda (3812164)

Sources:

KIN02F0017 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR ARDEA HERODIAS (NESTING COLONY) 2002-04-04



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 57600	EO Index: 57616
Key Quad: Citrus Heights (3812163)	Element Code: ABNGA04010
Occurrence Number: 75	Occurrence Last Updated: 2004-10-25

Scientific Name: <i>Ardea herodias</i>	Common Name: great blue heron
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDF_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	
State: S4	

General Habitat: COLONIAL NESTER IN TALL TREES, CLIFFSIDES, AND SEQUESTERED SPOTS ON MARSHES.	Micro Habitat: ROOKERY SITES IN CLOSE PROXIMITY TO FORAGING AREAS: MARSHES, LAKE MARGINS, TIDE-FLATS, RIVERS AND STREAMS, WET MEADOWS.
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Last Date Observed: 2004-06-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-06-XX	Occurrence Rank: Good
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO BAR ACCESS TO THE AMERICAN RIVER, ON THE NORTH SIDE OF THE RIVER, UPSTREAM OF THE SAN JUAN RAPIDS, FAIR OAKS.

Detailed Location:
NEST TREES ARE BORDERED BY THE AMERICAN RIVER TO THE SOUTH AND A DIRT ACCESS ROAD TO THE NORTH.

Ecological:
NEST TREES ARE COTTONWOODS LOCATED WITHIN 30' OF THE RIVER; SURROUNDED BY RIPARIAN HABITAT THAT HAS TAKEN OVER DREDGER TAILINGS LEFT OVER FROM THE GOLDRUSH OF THE LATE 1800'S. ACTIVITIES IN THE VICINITY INCLUDE HIKING, RAFTING, AND FISHING.

Threats:
General:
2 NESTS ACTIVE IN SUMMER 2004, BOTH FLEDGING YOUNG.

PLSS: T09N, R06E, Sec. 23 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4276678 E649685	Latitude/Longitude: 38.62601 / -121.28044	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Citrus Heights (3812163)
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Sources:
JOH04F0002 JOHNSON, D.L. - FIELD SURVEY FORM FOR ARDEA HERODIAS (ROOKERY SITE) 2004-06-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	66449	EO Index:	66552
Key Quad:	Florin (3812144)	Element Code:	ABNGA04010
Occurrence Number:	85	Occurrence Last Updated:	2006-10-04

Scientific Name:	<i>Ardea herodias</i>	Common Name:	great blue heron
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S4	Other Lists:	CDF_S-Sensitive IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
COLONIAL NESTER IN TALL TREES, CLIFFSIDES, AND SEQUESTERED SPOTS ON MARSHES.	ROOKERY SITES IN CLOSE PROXIMITY TO FORAGING AREAS: MARSHES, LAKE MARGINS, TIDE-FLATS, RIVERS AND STREAMS, WET MEADOWS.

Last Date Observed:	2005-03-25	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2005-03-25	Occurrence Rank:	Excellent
Owner/Manager:	SRCS-D-BUFFERLANDS	Trend:	Unknown
Presence:	Presumed Extant		

Location:
ALONG LOWER MORRISON CREEK, JUST UPSTREAM OF I-5, 6.5 MILES NW OF ELK GROVE.

Detailed Location:

Ecological:

HABITAT CONSISTS OF MATURE MIXED RIPARIAN; DOMINATED BY POPULUS FREMONTII, QUERCUS LOBATA, AND SALIX GOODINGII. ROOKERY SITE INCLUDES NESTING GREAT BLUE HERONS, GREAT EGRETS, AND DOUBLE-CRESTED CORMORANTS.

Threats:

THREATENED BY LOSS OF NEST TREES TO AGE OF FOREST AND BEAVER PREDATION.

General:

46 ACTIVE GBHE NESTS PRESENT DURING 2005.

PLSS:	T07N, R04E, Sec. 24 (M)	Accuracy:	1/10 mile	Area (acres):	0
UTM:	Zone-10 N4256172 E632196	Latitude/Longitude:	38.44405 / -121.48516	Elevation (feet):	10

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:
ALB05F0007 ALBRIGHT, J. (SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT BUFFERLANDS) - FIELD SURVEY FORM FOR ARDEA HERODIAS (ROOKERY SITE) 2005-03-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 72891	EO Index: 73808
Key Quad: Sacramento East (3812154)	Element Code: ABNGA04010
Occurrence Number: 88	Occurrence Last Updated: 2008-11-19

Scientific Name: <i>Ardea herodias</i>	Common Name: great blue heron
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDF_S-Sensitive IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat: COLONIAL NESTER IN TALL TREES, CLIFFSIDES, AND SEQUESTERED SPOTS ON MARSHES.	Micro Habitat: ROOKERY SITES IN CLOSE PROXIMITY TO FORAGING AREAS: MARSHES, LAKE MARGINS, TIDE-FLATS, RIVERS AND STREAMS, WET MEADOWS.
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Last Date Observed: 2008-06-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2008-06-04	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH SIDE OF AMERICA RIVER, JUST EAST OF RIVER MILE 1, SOUTH OF POND, AND EAST OF DISCOVERY PARK, SACRAMENTO.

Detailed Location:
MAPPED TO PROVIDED COORDINATES.

Ecological:
HABITAT DESCRIBED AS DISCONTINUOUS PORTIONS OF RIPARIAN HABITAT ALONG RIVER CONTAINING POPULUS FREMONTII, SALIX EXIGUA, S. GOODINGII, S. LUCIDA LASIANDRA, CEPHALANTHUS OCCIDENTALIS, & SAMBUCUS MEXICANA. INLAND SITE WITH OPEN-WATER POND.

Threats:
THREATENED BY GRAVEL MINING, AND POSSIBLE LAND CONVERSION.

General:
FIVE NESTS (4 IN 1 TREE) WERE OBSERVED IN COTTONWOOD TREES WITH A TOTAL AT LEAST 4 JUVENILES PRESENT ON 4 JUN 2008.

PLSS: T09N, R04E, Sec. 25 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4273772 E631973	Latitude/Longitude: 38.60264 / -121.48439	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:
CRO08F0004 CROUCH, K. (PADRE ASSOCIATES, INC.) - FIELD SURVEY FORM FOR ARDEA HERODIAS 2008-06-04



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 78763	EO Index: 79705
Key Quad: Taylor Monument (3812165)	Element Code: ABNGA04010
Occurrence Number: 132	Occurrence Last Updated: 2010-05-03

Scientific Name: <i>Ardea herodias</i>	Common Name: great blue heron
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDF_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	
State: S4	

General Habitat:	Micro Habitat:
COLONIAL NESTER IN TALL TREES, CLIFFSIDES, AND SEQUESTERED SPOTS ON MARSHES.	ROOKERY SITES IN CLOSE PROXIMITY TO FORAGING AREAS: MARSHES, LAKE MARGINS, TIDE-FLATS, RIVERS AND STREAMS, WET MEADOWS.

Last Date Observed: 2010-05-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-05-02	Occurrence Rank: Good
Owner/Manager: YOL COUNTY-ELKHORN REG PARK	Trend: Unknown
Presence: Presumed Extant	

Location:
1 MILE SE OF I-5 AT SACRAMENTO RIVER, ALONG OLD RIVER RD (LEEVE) & THE SACRAMENTO RIVER, ELKHORN REGIONAL PARK, KIESEL.

Detailed Location:
ROOKERY COVERS A LARGE AREA NORTH FROM THE BOAT RAMP PARKING AREA, EAST OF OLD RIVER RD/RAILROAD TRACKS, & WEST OF SACRAMENTO RIVER. NESTS CAN BE OBSERVED FROM WALKING THE RAILROAD TRACKS.

Ecological:
NESTS IN COTTONWOODS. AREA APPEARS TO BE THE LARGEST RIPARIAN HABITAT LEFT IN VICINITY. ALSO DETECTED & LIKELY NESTING WERE SWAINSON'S & RED-TAILED HAWKS, ASH-THROATED FLYCATCHER, WESTERN KINGBIRD, TREE SWALLOW, & NUTTALL'S WOODPECKER.

Threats:
POTENTIAL DISTURBANCE (NOISE) FROM BOATS & CARS, & POSSIBLY VEHICLE COLLISIONS ON ROAD (PROBABLY RARE).

General:
SITE FOUND 24 APR 2010. 155 NESTS WERE COUNTED (MORE LIKELY PRESENT) W/ INCUBATING ADULTS ON 2 MAY 2010; 95% GREAT EGRET (THROUGHOUT), 5% GREAT BLUE HERON (NORTH END). 2 SWAINSON'S HAWKS (1 LIGHT, 1 DARK PHASE) WERE PERCHED IN COTTONWOODS.

PLSS: T09N, R03E, Sec. 02 (M)	Accuracy: specific area	Area (acres): 14
UTM: Zone-10 N4280269 E620566	Latitude/Longitude: 38.66280 / -121.61422	Elevation (feet): 25

County Summary:	Quad Summary:
Yolo	Taylor Monument (3812165)

Sources:
ACO10F0001 ACORD, B. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-CALIFORNIA NATURAL DIVERSITY DATABASE) - FIELD SURVEY FORM FOR ARDEA HERODIAS & ARDEA ALBA 2010-05-02



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11286	EO Index:	25947
Key Quad:	Florin (3812144)	Element Code:	ABNGA04040
Occurrence Number:	1	Occurrence Last Updated:	1995-11-02

Scientific Name:	<i>Ardea alba</i>	Common Name:	great egret
Listing Status:	Federal: None	Rare Plant Rank:	
	State: None	Other Lists:	CDF_S-Sensitive IUCN_LC-Least Concern
CNDDDB Element Ranks:	Global: G5		
	State: S4		

General Habitat:	Micro Habitat:
COLONIAL NESTER IN LARGE TREES.	ROOKERY SITES LOCATED NEAR MARSHES, TIDE-FLATS, IRRIGATED PASTURES, AND MARGINS OF RIVERS AND LAKES.

Last Date Observed:	1988-05-02	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1988-05-02	Occurrence Rank:	Unknown
Owner/Manager:	SAC COUNTY, PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
SE ARM OF NORTH STONE LAKE, NEAR JCT OF MAIN BODY OF LAKE, APPROX 6 MILES SOUTH OF SACRAMENTO.

Detailed Location:

Ecological:
GREAT BLUE HERONS AND DOUBLE-CRESTED CORMORANTS ALSO NEST AT THIS ROOKERY SITE.

Threats:
THREATENED BY CATTLE GRAZING ON ALL SIDES OF ROOKERY, WHICH ELIMINATES REGENERATION OF TREES.

General:
ONE GREAT EGRET NEST FOUND ON 1 FEB 88; 11 ACTIVE NESTS COUNTED ON 2 MAY 88. PROPERTY IS OWNED BY SACRAMENTO COUNTY, BUT LEASED TO A PRIVATE PARTY.

PLSS: T06N, R04E, Sec. 12 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4249814 E631712	Latitude/Longitude: 38.38685 / -121.49190	Elevation (feet): 5

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

MID88F0001	MIDDLETON, J. - FIELD SURVEY FORM FOR ARDEA HERODIAS 1988-05-02
MID88F0002	MIDDLETON, J. - FIELD SURVEY FORM FOR ARDEA ALBA 1988-05-02
VEN88F0001	VENNARD, M. - FIELD SURVEY FORM FOR PHALACROCORAX AURITUS AT NORTH STONE LAKE, S OF SACRAMENTO. 1988-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11602	EO Index:	25946
Key Quad:	Carmichael (3812153)	Element Code:	ABNGA04040
Occurrence Number:	2	Occurrence Last Updated:	2005-03-21

Scientific Name:	<i>Ardea alba</i>	Common Name:	great egret
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S4	Other Lists:	CDF_S-Sensitive IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
COLONIAL NESTER IN LARGE TREES.	ROOKERY SITES LOCATED NEAR MARSHES, TIDE-FLATS, IRRIGATED PASTURES, AND MARGINS OF RIVERS AND LAKES.

Last Date Observed:	2005-03-18	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2005-03-18	Occurrence Rank:	Good
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG SOUTH SIDE OF THE AMERICAN RIVER, ACROSS FROM WILLIAM POND PARK, PART OF THE AMERICAN RIVER PARKWAY, CARMICHAEL.

Detailed Location:
 SOME NEST TREES ARE LOCATED IN THE BACKYARDS OF RESIDENCES ON THE SOUTH SIDE OF THE RIVER; OTHERS ARE PART OF THE NATIVE RIPARIAN ALONG THE AMERICAN RIVER.

Ecological:
 NEST TREES APPEAR TO BE A MIX OF NATIVE OAKS AND EXOTIC TREES. GREAT BLUE HERONS ALSO NEST AT THIS SITE.

Threats:
 POSSIBLE THREAT OF DISTURBANCE FROM RIVER RECREATION.

General:
 24 JUN 1988: 2 NESTS LOCATED, ONLY 1 WITH YOUNG, AS PART OF A BREEDING BIRD ATLAS PROJECT. 2004: 20+ ACTIVE NESTS (10 GREAT BLUE HERONS/10 GREAT EGRETS). 18 MAR 2005: 20 ACTIVE NESTS GREAT EGRET NESTS.

PLSS: T08N, R06E, Sec. 04 (M)	Accuracy: specific area	Area (acres): 35
UTM: Zone-10 N4271447 E645687	Latitude/Longitude: 38.57955 / -121.32743	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

JOH04F0001	JOHNSON, D.L. - FIELD SURVEY FORM FOR ARDEA HERODIAS & ARDEA ALBA (ROOKERY SITE) 2004-06-XX
JOH88F0003	JOHNSON, D.L. - FIELD SURVEY FORM FOR ARDEA ALBA ALONG AMERICAN RIVER, 0.5 MI. SSW OF GOETHE PARK, CARMICHAEL. 1988-06-24
WAR05F0005	WARENYCIA, D. & D. JOHNSON (SACRAMENTO AUDUBON) - FIELD SURVEY FORM FOR ARDEA ALBA (ROOKERY SITE) 2005-03-18



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11341	EO Index: 25940
Key Quad: Rio Linda (3812164)	Element Code: ABNGA04040
Occurrence Number: 9	Occurrence Last Updated: 2003-02-27

Scientific Name: <i>Ardea alba</i>	Common Name: great egret
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDF_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	
State: S4	

General Habitat: COLONIAL NESTER IN LARGE TREES.	Micro Habitat: ROOKERY SITES LOCATED NEAR MARSHES, TIDE-FLATS, IRRIGATED PASTURES, AND MARGINS OF RIVERS AND LAKES.
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Last Date Observed: 2002-04-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-04-04	Occurrence Rank: Excellent
Owner/Manager: CITY OF SACRAMENTO	Trend: Increasing
Presence: Presumed Extant	

Location:
 DRY CREEK, 0.5 MILE SOUTH OF THE JUNCTION OF WEST 2ND STREET AND ASCOT AVENUE, RIO LINDA.

Detailed Location:
 ROOKERY IS LOCATED MIDWAY BETWEEN DRAINAGE CANAL AND RIO LINDA / MARYSVILLE BOULEVARD.

Ecological:
 HABITAT CONSISTS OF A NARROW VALLEY OAK RIPARIAN CORRIDOR ALONG DRY CREEK. BOTH GREAT EGRETS AND GREAT BLUE HERONS NEST HERE.

Threats:
General:
 NESTING OBSERVED IN A SINGLE OAK TREE IN MAR 1988. 15 OCCUPIED NESTS OBSERVED ON 11 APR 2001. 34 OCCUPIED NESTS OBSERVED ON 4 APR 2002.

PLSS: T09N, R05E, Sec. 06 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4280455 E633421	Latitude/Longitude: 38.66263 / -121.46649	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
 KIN02F0003 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR ARDEA ALBA (ROOKERY SITE) 2002-04-04
 VEN88F0004 VENNARD, M. - FIELD SURVEY FORM & MAP FOR ARDEA ALBA 1988-03-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 17136	EO Index: 9707
Key Quad: Taylor Monument (3812165)	Element Code: ABNGA04040
Occurrence Number: 17	Occurrence Last Updated: 1992-02-19

Scientific Name: <i>Ardea alba</i>	Common Name: great egret
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDF_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	
State: S4	

General Habitat: COLONIAL NESTER IN LARGE TREES.	Micro Habitat: ROOKERY SITES LOCATED NEAR MARSHES, TIDE-FLATS, IRRIGATED PASTURES, AND MARGINS OF RIVERS AND LAKES.
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Last Date Observed: 1989-06-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1989-06-19	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Stable
Presence: Presumed Extant	

Location:
SMALL DRAINAGE CANAL CROSSING ELVERTA RD, APPROXIMATELY 600 M WEST OF POWERLINE RD, JUST N OF SACRAMENTO METRO AIRPORT.

Detailed Location:
ALTHOUGH NO NESTS COULD BE SEEN, APPROXIMATELY 30 BIRDS WERE FLUSHED FROM THE TREES.

Ecological:
HABITAT IS A DENSE WILLOW RIPARIAN STRIP, APPROXIMATELY 20-30 M WIDE, WITH A FEW COTTONWOOD TREES. SURROUNDING HABITAT CONSISTS OF RICE FIELDS AND DRY CROP AGRICULTURE.

Threats:
POTENTIAL THREAT OF CONVERSION TO AGRICULTURE.

General:
SNOWY EGRETS AND BLACK-CROWNED NIGHT HERONS ALSO BREED AT THIS LOCATION.

PLSS: T10N, R04E, Sec. 18 (M)	Accuracy: specific area	Area (acres): 32
UTM: Zone-10 N4286241 E622850	Latitude/Longitude: 38.71629 / -121.58692	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:
SOG89F0002 SOGGE, M.K. - FIELD SURVEY FORM FOR ARDEA ALBA 1989-06-19



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 54474	EO Index: 54475
Key Quad: Rio Linda (3812164)	Element Code: ABNGA04040
Occurrence Number: 29	Occurrence Last Updated: 2004-02-25

Scientific Name: <i>Ardea alba</i>	Common Name: great egret
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDF_S-Sensitive IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat: COLONIAL NESTER IN LARGE TREES.	Micro Habitat: ROOKERY SITES LOCATED NEAR MARSHES, TIDE-FLATS, IRRIGATED PASTURES, AND MARGINS OF RIVERS AND LAKES.
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Last Date Observed: 2001-04-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-XX-XX	Occurrence Rank: Excellent
Owner/Manager: SAC AREA FLOOD CONTROL AGENCY	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH SIDE OF ROBLA CREEK, DIRECTLY NORTH OF KELTON WAY, RIO LINDA.

Detailed Location:
GREAT BLUE HERONS ARE ALSO PART OF THIS COLONY.

Ecological:
NEST TREE IS AN ISOLATED VALLEY OAK, WITH GRASSLAND TO THE NORTH AND LEVEE/RESIDENTIAL TO THE SOUTH.

Threats:
General:
10 OCCUPIED NESTS OBSERVED ON 11 APR 2001. IN 2002, EGRETS DID NOT OCCUPY THIS TREE, POSSIBLY DUE TO THE PRESENCE OF A NESTING PAIR OF RED-TAILED HAWKS.

PLSS: T09N, R05E, Sec. 05 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4280180 E633470	Latitude/Longitude: 38.66015 / -121.46597	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
KIN01F0002 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR ARDEA ALBA (NESTING COLONY) 2001-04-11



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 66449	EO Index: 66553
Key Quad: Florin (3812144)	Element Code: ABNGA04040
Occurrence Number: 33	Occurrence Last Updated: 2006-09-28

Scientific Name: <i>Ardea alba</i>	Common Name: great egret
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDF_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	
State: S4	

General Habitat: COLONIAL NESTER IN LARGE TREES.	Micro Habitat: ROOKERY SITES LOCATED NEAR MARSHES, TIDE-FLATS, IRRIGATED PASTURES, AND MARGINS OF RIVERS AND LAKES.
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Last Date Observed: 2005-03-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-03-25	Occurrence Rank: Excellent
Owner/Manager: SRCSD-BUFFERLANDS	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG LOWER MORRISON CREEK, JUST UPSTREAM (EAST) OF I-5, 6.5 MILES NW OF ELK GROVE.

Detailed Location:

Ecological:

HABITAT CONSISTS OF MATURE MIXED RIPARIAN; DOMINATED BY POPULUS FREMONTII, QUERCUS LOBATA, AND SALIX GOODINGII. ROOKERY SITE INCLUDES NESTING GREAT BLUE HERONS, GREAT EGRETS, AND DOUBLE-CRESTED CORMORANTS.

Threats:

THREATENED BY LOSS OF NEST TREES TO AGE OF FOREST AND BEAVER PREDATION.

General:

44 ACTIVE GBEG NESTS PRESENT DURING 2005.

PLSS: T07N, R04E, Sec. 24 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4256172 E632196	Latitude/Longitude: 38.44405 / -121.48516	Elevation (feet): 10

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:
ALB05F0006 ALBRIGHT, J. (SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT BUFFERLANDS) - FIELD SURVEY FORM FOR ARDEA ALBA (ROOKERY SITE) 2005-03-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 78763	EO Index: 79704
Key Quad: Taylor Monument (3812165)	Element Code: ABNGA04040
Occurrence Number: 35	Occurrence Last Updated: 2010-05-03

Scientific Name: <i>Ardea alba</i>	Common Name: great egret
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDF_S-Sensitive IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat: COLONIAL NESTER IN LARGE TREES.	Micro Habitat: ROOKERY SITES LOCATED NEAR MARSHES, TIDE-FLATS, IRRIGATED PASTURES, AND MARGINS OF RIVERS AND LAKES.
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Last Date Observed: 2010-05-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-05-02	Occurrence Rank: Good
Owner/Manager: YOL COUNTY-ELKHORN REG PARK	Trend: Unknown
Presence: Presumed Extant	

Location:
1 MILE SE OF I-5 AT SACRAMENTO RIVER, ALONG OLD RIVER RD (LEVEE) & THE SACRAMENTO RIVER, ELKHORN REGIONAL PARK, KIESEL.

Detailed Location:
ROOKERY COVERS A LARGE AREA NORTH FROM THE BOAT RAMP PARKING AREA, EAST OF OLD RIVER RD/RAILROAD TRACKS, & WEST OF SACRAMENTO RIVER. NESTS CAN BE OBSERVED FROM WALKING THE RAILROAD TRACKS.

Ecological:
NESTS IN COTTONWOODS. AREA APPEARS TO BE THE LARGEST RIPARIAN HABITAT LEFT IN VICINITY. ALSO DETECTED & LIKELY NESTING WERE SWAINSON'S & RED-TAILED HAWKS, ASH-THROATED FLYCATCHER, WESTERN KINGBIRD, TREE SWALLOW, & NUTTALL'S WOODPECKER.

Threats:
POTENTIAL DISTURBANCE (NOISE) FROM BOATS & CARS, & POSSIBLY VEHICLE COLLISIONS ON ROAD (PROBABLY RARE).

General:
SITE FOUND 24 APR 2010. 155 NESTS WERE COUNTED (MORE LIKELY PRESENT) W/ INCUBATING ADULTS ON 2 MAY 2010; 95% GREAT EGRET (THROUGHOUT), 5% GREAT BLUE HERON (NORTH END). 2 SWAINSON'S HAWKS (1 LIGHT, 1 DARK PHASE) WERE PERCHED IN COTTONWOODS.

PLSS: T09N, R03E, Sec. 02 (M)	Accuracy: specific area	Area (acres): 14
UTM: Zone-10 N4280269 E620566	Latitude/Longitude: 38.66280 / -121.61422	Elevation (feet): 25

County Summary: Yolo	Quad Summary: Taylor Monument (3812165)
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Sources:
ACO10F0001 ACORD, B. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-CALIFORNIA NATURAL DIVERSITY DATABASE) - FIELD SURVEY FORM FOR ARDEA HERODIAS & ARDEA ALBA 2010-05-02



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 17136	EO Index: 9706
Key Quad: Taylor Monument (3812165)	Element Code: ABNGA06030
Occurrence Number: 3	Occurrence Last Updated: 1992-02-19

Scientific Name: <i>Egretta thula</i>	Common Name: snowy egret
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat:	Micro Habitat:
COLONIAL NESTER, WITH NEST SITES SITUATED IN PROTECTED BEDS OF DENSE TULE.	ROOKERY SITES SITUATED CLOSE TO FORAGING AREAS: MARSHES, TIDAL-FLATS, STREAMS, WET MEADOWS, AND BORDERS OF LAKES.

Last Date Observed: 1989-06-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1989-06-19	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Stable
Presence: Presumed Extant	

Location:
SMALL DRAINAGE CANAL CROSSING ELVERTA RD, APPROXIMATELY 600 M WEST OF POWERLINE RD, JUST N OF SACRAMENTO METRO AIRPORT.

Detailed Location:
ALTHOUGH NO NESTS COULD BE SEEN, APPROXIMATELY 50 BIRDS WERE FLUSHED FROM THE TREES.

Ecological:
HABITAT IS A DENSE WILLOW RIPARIAN STRIP, APPROXIMATELY 20-30 M WIDE, WITH A FEW TALL COTTONWOOD TREES. SURROUNDING HABITAT CONSISTS OF RICE FIELDS AND DRY CROP AGRICULTURE.

Threats:
POTENTIAL THREAT OF CONVERSION TO AGRICULTURE.

General:
GREAT EGRETS AND BLACK-CROWNED NIGHT HERONS ALSO NEST AT THIS LOCATION.

PLSS: T10N, R04E, Sec. 18 (M)	Accuracy: specific area	Area (acres): 32
UTM: Zone-10 N4286241 E622850	Latitude/Longitude: 38.71629 / -121.58692	Elevation (feet): 15

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

Sources:
SOG89F0003 SOGGE, M.K. - FIELD SURVEY FORM FOR EGRETTA THULA (NESTING COLONY) 1989-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 17136	EO Index: 9708
Key Quad: Taylor Monument (3812165)	Element Code: ABNGA11010
Occurrence Number: 3	Occurrence Last Updated: 1992-02-19

Scientific Name: <i>Nycticorax nycticorax</i>	Common Name: black-crowned night heron
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat:	Micro Habitat:
COLONIAL NESTER, USUALLY IN TREES, OCCASIONALLY IN TULE PATCHES.	ROOKERY SITES LOCATED ADJACENT TO FORAGING AREAS: LAKE MARGINS, MUD-BORDERED BAYS, MARSHY SPOTS.

Last Date Observed: 1989-06-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1989-06-19	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Stable
Presence: Presumed Extant	

Location:
SMALL DRAINAGE CANAL CROSSING ELVERTA RD, APPROXIMATELY 600 M WEST OF POWERLINE RD, JUST N OF SACRAMENTO METRO AIRPORT.

Detailed Location:
ALTHOUGH NO NESTS COULD BE SEEN, APPROXIMATELY 120 BIRDS (50 ADULTS AND 70 JUVENILES) WERE FLUSHED FROM THE TREES.

Ecological:
HABITAT IS A DENSE WILLOW RIPARIAN STRIP, APPROXIMATELY 20-30 M WIDE, WITH A FEW TALL COTTONWOOD TREES. SURROUNDING HABITAT CONSISTS OF RICE FIELDS AND DRY CROP AGRICULTURE.

Threats:
POTENTIAL THREAT OF CONVERSION TO AGRICULTURE.

General:
SOME ADULTS WERE OBSERVED CARRYING NEST MATERIAL TO TREES. ADULTS AND IMMATURES OBSERVED FORAGING IN ADJACENT FIELDS. GREAT EGRETS AND SNOWY EGRETS ALSO NEST AT THIS LOCATION.

PLSS: T10N, R04E, Sec. 18 (M)	Accuracy: specific area	Area (acres): 32
UTM: Zone-10 N4286241 E622850	Latitude/Longitude: 38.71629 / -121.58692	Elevation (feet): 15

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

Sources:
SOG89F0001 SOGGE, M.K. - FIELD SURVEY FORM FOR NYCTICORAX NYCTICORAX (BLACK-CROWNED NIGHT HERON) 1989-06-19



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64809
Key Quad: Florin (3812144)
Occurrence Number: 15

EO Index: 64888
Element Code: ABNGA11010
Occurrence Last Updated: 2006-06-05

Scientific Name: *Nycticorax nycticorax*

Common Name: black-crowned night heron

Listing Status:
Federal: None
State: None
CNDDB Element Ranks:
Global: G5
State: S4

Rare Plant Rank:
Other Lists: IUCN_LC-Least Concern

General Habitat:

COLONIAL NESTER, USUALLY IN TREES, OCCASIONALLY IN TULE PATCHES.

Micro Habitat:

ROOKERY SITES LOCATED ADJACENT TO FORAGING AREAS: LAKE MARGINS, MUD-BORDERED BAYS, MARSHY SPOTS.

Last Date Observed: 2005-02-01
Last Survey Date: 2005-02-01
Owner/Manager: SRCSD-BUFFERLANDS
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:
 NICHOLAS POND, 0.3 MILE NORTH OF LAGUNA BOULEVARD AND 0.4 MILE EAST OF I-5, ELK GROVE.

Detailed Location:

Ecological:

HABITAT CONSISTS OF AN OPEN-WATER POND WITH AN ISLAND IN THE MIDDLE; THE HERON ROOKERY IS FOUND ON THE ISLAND, WHICH IS VEGETATED BY SALIX GOODINGII.

Threats:

POSSIBLE THREAT FROM BEAVER DAMAGE TO EXISTING TREES AND LOSS OF TREES TO INUNDATION.

General:

42 INDIVIDUALS OBSERVED AT THIS ROOKERY ON 1 FEB 2005.

PLSS: T07N, R05E, Sec. 30 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4254851 E632653	Latitude/Longitude: 38.43208 / -121.48017	Elevation (feet): 7

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

ALB05F0001 ALBRIGHT, J. (SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT BUFFERLANDS) - FIELD SURVEY FORM FOR NYCTICORAX NYCTICORAX 2005-02-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64810	EO Index: 64889
Key Quad: Florin (3812144)	Element Code: ABNGA11010
Occurrence Number: 16	Occurrence Last Updated: 2006-06-05

Scientific Name: <i>Nycticorax nycticorax</i>	Common Name: black-crowned night heron
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat: COLONIAL NESTER, USUALLY IN TREES, OCCASIONALLY IN TULE PATCHES.	Micro Habitat: ROOKERY SITES LOCATED ADJACENT TO FORAGING AREAS: LAKE MARGINS, MUD-BORDERED BAYS, MARSHY SPOTS.
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Last Date Observed: 2005-03-16	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-03-16	Occurrence Rank: Good
Owner/Manager: SRCSD-BUFFERLANDS	Trend: Unknown
Presence: Presumed Extant	

Location:
FISHHEAD LAKE, 0.2 MILE WEST OF FRANKLIN BOULEVARD & 0.5 MILE NORTH OF SIMS ROAD, ELK GROVE.

Detailed Location:

Ecological:
HABITAT CONSISTS OF A MANAGED MITIGATION WETLAND. VEGETATION INCLUDES EMERGENT MARSH PLANTS (TULE AND CATTAILS) ALONG CHANNEL EDGES, WITH ASSOCIATED RIPARIAN (WILLOWS AND COTTONWOODS).

Threats:

General:

12 INDIVIDUALS OBSERVED AT THIS ROOKERY ON 16 MAR 2005.

PLSS: T07N, R05E, Sec. 20 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4256360 E635383	Latitude/Longitude: 38.44527 / -121.44861	Elevation (feet): 7

County Summary:	Quad Summary:
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Sacramento	Florin (3812144)
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Sources:

ALB05F0002 ALBRIGHT, J. (SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT BUFFERLANDS) - FIELD SURVEY FORM FOR NYCTICORAX NYCTICORAX 2005-03-16



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 64811	EO Index: 64890
Key Quad: Florin (3812144)	Element Code: ABNGA11010
Occurrence Number: 17	Occurrence Last Updated: 2006-06-05

Scientific Name: <i>Nycticorax nycticorax</i>	Common Name: black-crowned night heron
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat:	Micro Habitat:
COLONIAL NESTER, USUALLY IN TREES, OCCASIONALLY IN TULE PATCHES.	ROOKERY SITES LOCATED ADJACENT TO FORAGING AREAS: LAKE MARGINS, MUD-BORDERED BAYS, MARSHY SPOTS.

Last Date Observed: 2005-03-16	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-03-16	Occurrence Rank: Good
Owner/Manager: SRCSD-BUFFERLANDS	Trend: Unknown
Presence: Presumed Extant	

Location:
FISHHEAD LAKE, 0.3 MILE NE OF THE INTERSECTION OF SIMS ROAD & LAGUNA STATION ROAD, ELK GROVE.

Detailed Location:

Ecological:
HABITAT SURROUNDING ROOKERY CONSISTS OF A MANAGED MITIGATION WETLAND. VEGETATION INCLUDES EMERGENT MARSH PLANTS (TULE AND CATTAILS) ALONG CHANNEL EDGES, WITH ASSOCIATED RIPARIAN (WILLOWS AND COTTONWOODS).

Threats:

General:

13 INDIVIDUALS OBSERVED AT THIS ROOKERY ON 16 MAR 2005.

PLSS: T07N, R05E, Sec. 20 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4256689 E634724	Latitude/Longitude: 38.44833 / -121.45610	Elevation (feet): 7

County Summary:	Quad Summary:
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Sacramento	Florin (3812144)
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Sources:

ALB05F0003 ALBRIGHT, J. (SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT BUFFERLANDS) - FIELD SURVEY FORM FOR NYCTICORAX NYCTICORAX 2005-03-16



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24813	EO Index: 6398
Key Quad: Carmichael (3812153)	Element Code: ABNKC06010
Occurrence Number: 21	Occurrence Last Updated: 1994-01-14

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat:

ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.

Micro Habitat:

OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.

Last Date Observed: 1990-04-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1990-04-22	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:

EAST SIDE OF HEDGE AVENUE, 0.5 MILE SOUTH OF ELDER CREEK ROAD, EAST OF SACRAMENTO.

Detailed Location:**Ecological:**

NEST TREE IS AN OLIVE WITHIN AN OLD ORCHARD.

Threats:**General:**

2 ADULTS OBSERVED OCCUPYING NEST IN 1990.

PLSS: T08N, R06E, Sec. 31 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4263008 E642871	Latitude/Longitude: 38.50399 / -121.36149	Elevation (feet): 45

County Summary:

Sacramento

Quad Summary:

Carmichael (3812153)

Sources:

JOH90F0009 JOHNSON, D. - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) (NEST SITE) 1990-04-22



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 24817	EO Index: 12178
Key Quad: Buffalo Creek (3812152)	Element Code: ABNKC06010
Occurrence Number: 22	Occurrence Last Updated: 1993-12-06

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat: ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	Micro Habitat: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.
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Last Date Observed: 1990-06-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1990-06-23	Occurrence Rank: Good
Owner/Manager: DOD-MATHER AFB	Trend: Unknown
Presence: Presumed Extant	

Location:
SE CORNER OF MATHER LAKE, MATHER AIR FORCE BASE.

Detailed Location:
NEST IS LOCATED IN A TREE AT THE EDGE OF A FRESHWATER LAKE.

Ecological:

Threats:
MAIN THREAT IS THE UNCERTAIN FUTURE OF MATHER AFB; IT IS UNKNOWN WHETHER MATHER LAKE WILL BE MAINTAINED.

General:
2 ADULTS AND 2 JUVENILES OBSERVED IN 1990.

PLSS: T08N, R07E, Sec. 18 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4268659 E652671	Latitude/Longitude: 38.55327 / -121.24791	Elevation (feet): 160

County Summary: Sacramento	Quad Summary: Buffalo Creek (3812152), Carmichael (3812153)
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Sources:
JOH90F0010 JOHNSON, D. - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) (NEST SITE) 1990-06-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	24816	EO Index:	6399
Key Quad:	Carmichael (3812153)	Element Code:	ABNKC06010
Occurrence Number:	25	Occurrence Last Updated:	1997-09-15

Scientific Name:	<i>Elanus leucurus</i>	Common Name:	white-tailed kite
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3S4	Other Lists:	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.

Last Date Observed:	1988-03-13	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1988-03-13	Occurrence Rank:	Good
Owner/Manager:	SAC COUNTY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 AMERICAN RIVER FLOODPLAIN, BEHIND RIO AMERICANO HIGH SCHOOL, SACRAMENTO.

Detailed Location:
 2 NESTS WERE BUILT, APPROXIMATELY 0.15 MILE APART - BOTH NESTS WERE ABANDONED.

Ecological:
 HABITAT CONSISTS OF RIPARIAN WOODLANDS, SCATTERED OAK TREES, AND GRASSLAND, MIXED WITH ISOLATED PONDS.

Threats:
General:
 2 ADULTS OBSERVED NESTING, BUT NESTING WAS UNSUCCESSFUL.

PLSS: T08N, R06E, Sec. 05 (M)	Accuracy: specific area	Area (acres): 264
UTM: Zone-10 N4270816 E643478	Latitude/Longitude: 38.57423 / -121.35292	Elevation (feet): 30

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
 DET88F0002 DETWILER, W. - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) (NEST SITE) 1988-03-13



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 24815	EO Index: 6400
Key Quad: Carmichael (3812153)	Element Code: ABNKC06010
Occurrence Number: 26	Occurrence Last Updated: 1995-11-02

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat:
ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.

Micro Habitat:
OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.

Last Date Observed: 1988-02-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-02-27	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH END OF GOETHE PARK, RANCHO CORDOVA.

Detailed Location:
NEST LOCATED ON THE EAST SIDE OF THE ENTRANCE ROAD TO THE PARK.

Ecological:
Threats:

General:
2 ADULTS OBSERVED NESTING IN 1988.

PLSS: T09N, R06E, Sec. 33 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4272710 E645974	Latitude/Longitude: 38.59088 / -121.32389	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
JOH88F0001 JOHNSON, D.L. - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) AT GOETHE PARK. 1988-02-27



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	24814	EO Index:	6397
Key Quad:	Carmichael (3812153)	Element Code:	ABNKC06010
Occurrence Number:	27	Occurrence Last Updated:	1993-12-07

Scientific Name:	<i>Elanus leucurus</i>	Common Name:	white-tailed kite
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3S4	Other Lists:	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern

General Habitat:
 ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.

Micro Habitat:
 OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.

Last Date Observed:	1990-02-18	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1990-02-18	Occurrence Rank:	Good
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 0.25 MILE SOUTH OF ELDER CREEK ROAD, 0.6 MILE EAST OF BRADSHAW ROAD, EAST OF SACRAMENTO.

Detailed Location:
 NEST LOCATED IN A TREE LINE BETWEEN PASTURES AND AGRICULTURAL FIELDS.

Ecological:
Threats:

General:
 2 ADULTS OBSERVED NESTING IN 1990.

PLSS: T08N, R06E, Sec. 33 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4263437 E646165	Latitude/Longitude: 38.50732 / -121.32363	Elevation (feet): 70

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
 JOH90F0012 JOHNSON, D. - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) (NEST SITE) 1990-02-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24807	EO Index: 6353
Key Quad: Elk Grove (3812143)	Element Code: ABNKC06010
Occurrence Number: 28	Occurrence Last Updated: 1994-02-04

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat: ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	Micro Habitat: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.
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Last Date Observed: 1990-06-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1990-06-03	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH SIDE OF MCCOY AVENUE, 0.4 MILE EAST OF ELK GROVE-FLORIN ROAD, SOUTH OF SACRAMENTO.

Detailed Location:
Ecological:
NEST TREE IS LOCATED ON RURAL RESIDENTIAL PROPERTY.

Threats:
General:
2 ADULTS OBSERVED NESTING IN 1990.

PLSS: T07N, R06E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4261089 E642574	Latitude/Longitude: 38.48675 / -121.36528	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
JOH90F0013 JOHNSON, D. - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) (NEST SITE) 1990-06-03



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	24831	EO Index:	6464
Key Quad:	Citrus Heights (3812163)	Element Code:	ABNKC06010
Occurrence Number:	32	Occurrence Last Updated:	1995-11-02

Scientific Name:	<i>Elanus leucurus</i>	Common Name:	white-tailed kite
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G5 State: S3S4	Other Lists:	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern

General Habitat:
 ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.

Micro Habitat:
 OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.

Last Date Observed:	1990-05-05	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1990-05-05	Occurrence Rank:	Good
Owner/Manager:	SAC COUNTY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 SACRAMENTO BAR, ON THE NORTH SIDE OF THE AMERICAN RIVER, NEAR THE END OF BANNISTER AVENUE, FAIR OAKS.

Detailed Location:

Ecological:
 HABITAT CONSISTS OF A DISTUBED RIPARIAN AREA CONTAINING GRAVEL DREDGE TAILINGS; VEGETATED BY LIVE OAK AND COTTONWOOD TREES.

Threats:

General:
 ADULT WAS OBSERVED SETTLING DOWN ON THE NEST IN 1990.

PLSS: T09N, R06E, Sec. 14 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4277014 E649379	Latitude/Longitude: 38.62909 / -121.28388	Elevation (feet): 90

County Summary: Sacramento	Quad Summary: Citrus Heights (3812163)
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Sources:
 JOH90F0014 JOHNSON, D. - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) (NEST SITE) 1990-05-05



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 26582	EO Index: 1463	
Key Quad: Rio Linda (3812164)	Element Code: ABNKC06010	
Occurrence Number: 54	Occurrence Last Updated: 1996-02-14	

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat: ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	Micro Habitat: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.
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Last Date Observed: 1995-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1995-XX-XX	Occurrence Rank: Unknown
Owner/Manager: DOD-MCCLELLAN AFB	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG DON JULIO CREEK, ABOUT 1.4 KM NE OF THE INTERSECTION OF MAIN AVENUE AND RALEY BOULEVARD, MCCLELLAN AIR FORCE BASE.

Detailed Location:

Ecological:
NEST IS IN BOXELDER ALONG DON JULIO CREEK. SURROUNDING AREA IS ANNUAL GRASSLAND.

Threats:
THREATS INCLUDE MILITARY OPERATIONS AND DEVELOPMENT.

General:
1 NEST OBSERVED FROM FEB-JUN 1995 DURING A FAIRY SHRIMP SURVEY; NESTING SUCCESS UNKNOWN.

PLSS: T09N, R05E, Sec. 24 (M)	Accuracy: nonspecific area	Area (acres): 6
UTM: Zone-10 N4280410 E637756	Latitude/Longitude: 38.66156 / -121.41669	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
LAC95R0001 LACY, T. (WESCO-RMI) - 1995 VERNAL POOL CRUSTACEAN SURVEY RESULTS - MCCLELLAN AFB AND LINCOLN & DAVIS COMMUNICATIONS FACILITIES; CONSERVATION PLAN INCLUDED. 1995-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 51561	EO Index: 51561
Key Quad: Rio Linda (3812164)	Element Code: ABNKC06010
Occurrence Number: 66	Occurrence Last Updated: 2003-06-17

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat:	Micro Habitat:
ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.

Last Date Observed: 2002-06-06	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-06-06	Occurrence Rank: Good
Owner/Manager: SAC COUNTY FLOOD CONTROL	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG ROBLA CREEK, JUST UPSTREAM OF THE MAGPIE CREEK DIVERSION CHANNEL CONFLUENCE, SW OF RIO LINDA AIRPORT.

Detailed Location:

Ecological:
HABITAT CONSISTS OF A SMALL, REMNANT RIPARIAN PATCH ALONG THE HISTORIC ROBLA CREEK CORRIDOR.

Threats:

General:
THIS SITE WAS ALSO OCCUPIED IN 2001. NEST FAILED DURING THE NESTLING STAGE IN 2002, POSSIBLY DUE TO HEAVY RAIN AND WIND; THE PAIR BUILT SEVERAL REPLACEMENT NESTS WHICH NEVER REACHED INCUBATION STAGE.

PLSS: T09N, R05E, Sec. 04 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4281254 E635186	Latitude/Longitude: 38.66956 / -121.44605	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
KIN02F0008 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) (NEST SITE) 2002-06-06



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 51562	EO Index: 51562
Key Quad: Rio Linda (3812164)	Element Code: ABNKC06010
Occurrence Number: 67	Occurrence Last Updated: 2003-06-17

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat: ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	Micro Habitat: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.
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Last Date Observed: 2002-07-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-07-01	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST WEST OF WHERE THE SACRAMENTO NORTH BIKE TRAIL CROSSES DRY CREEK SOUTH, RIO LINDA.

Detailed Location:
NEST SITE IS LOCATED 400 FEET WEST OF THE BIKE TRAIL CROSSING OF DRY CREEK SOUTH.

Ecological:
HABITAT CONSISTS OF SOME ISOLATED, SMALL VALLEY OAKS ALONG A FENCELINE.

Threats:
General:
NEST OBSERVED ON 1 JUL 2002, DURING NEST-BUILDING STAGE; SITE REVISITED SEVERAL TIMES, BUT NO EVIDENCE OF NESTLINGS EVER OBSERVED.

PLSS: T10N, R05E, Sec. 32 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4281791 E634866	Latitude/Longitude: 38.67445 / -121.44962	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
KIN02F0009 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) (NEST SITE) 2002-07-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 51566	EO Index: 51566	
Key Quad: Rio Linda (3812164)	Element Code: ABNKC06010	
Occurrence Number: 68	Occurrence Last Updated: 2003-06-18	

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat: ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	Micro Habitat: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.
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Last Date Observed: 2002-07-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-07-11	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
0.2 MILE EAST OF DRY CREEK ROAD, BETWEEN E STREET AND ROBLA CREEK, RIO LINDA.

Detailed Location:
Ecological:
NEST SITE IS LOCATED WITHIN A EUCALYPTUS GROVE AT A RESIDENTIAL SITE; SURROUNDED BY OPEN GRASSLAND.

Threats:
General:
NEST BUILDING OBSERVED ON 11 JUL 2002; SITE REVISITED SEVERAL TIMES, BUT NO EVIDENCE OF NESTLINGS OR FLEDGLINGS OBSERVED, SO NEST PRESUMED TO HAVE FAILED.

PLSS: T10N, R05E, Sec. 33 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4281907 E636031	Latitude/Longitude: 38.67532 / -121.43622	Elevation (feet): 45

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
KIN02F0010 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) (NEST SITE) 2002-07-11



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 51568	EO Index: 51568
Key Quad: Rio Linda (3812164)	Element Code: ABNKC06010
Occurrence Number: 69	Occurrence Last Updated: 2003-06-18

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat:	Micro Habitat:
ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.

Last Date Observed: 2002-06-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-06-25	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
 NE OF THE INTERSECTION OF SOTNIP AND TUNIS, JUST WEST OF NEMDC, DEL PASO.

Detailed Location:
Ecological:
 NEST TREE IS AN ORNAMENTAL TREE ON A VACANT LOT; SURROUNDED BY RESIDENTIAL TO THE NORTH, NEMDC TO THE EAST, AND VACANT LAND TO THE SOUTH AND WEST.

Threats:
General:
 NEST BUILDING OBSERVED ON 25 JUN 2002; SITE REVISITED SEVERAL TIMES, BUT NO EVIDENCE OF NESTLINGS OR FLEDGLINGS OBSERVED, SO NEST PRESUMED TO HAVE FAILED.

PLSS: T09N, R05E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4279794 E632495	Latitude/Longitude: 38.65682 / -121.47726	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
 KIN02F0011 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) (NEST SITE) 2002-06-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 51569	EO Index: 51569	
Key Quad: Rio Linda (3812164)	Element Code: ABNKC06010	
Occurrence Number: 70	Occurrence Last Updated: 2003-06-18	

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat: ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	Micro Habitat: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.
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Last Date Observed: 2002-06-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-06-25	Occurrence Rank: Excellent
Owner/Manager: PVT-UNION PACIFIC RR, RD 1000	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST NE OF WHERE ROBLA CREEK CONVERGES WITH THE NEMDC, BETWEEN NEMDC AND THE WESTERN PACIFIC RAILROAD TRACKS, DEL PASO.

Detailed Location:

Ecological:
NEST TREE IS A VALLEY OAK SURROUNDED BY OPEN, NON-NATIVE GRASSLAND HABITAT.

Threats:

General:
NESTING OBSERVED ON 25 JUN 2002; NESTING SUCCESSFUL WITH 2 YOUNG FLEDGED.

PLSS: T09N, R05E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4280199 E632618	Latitude/Longitude: 38.66045 / -121.47576	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
KIN02F0012 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) (NEST SITE) 2002-06-25



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 51570	EO Index: 51570
Key Quad: Rio Linda (3812164)	Element Code: ABNKC06010
Occurrence Number: 71	Occurrence Last Updated: 2003-06-18

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat:	Micro Habitat:
ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.

Last Date Observed: 2002-06-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-06-25	Occurrence Rank: Excellent
Owner/Manager: PVT-RD 1000	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST SOUTH OF WHERE DRY CREEK CONVERGES WITH NEMDC, BETWEEN NEMDC AND THE WESTERN PACIFIC RAILROAD TRACKS, DEL PASO.

Detailed Location:

Ecological:
NEST TREE IS A VALLEY OAK SURROUNDED BY OPEN, NON-NATIVE GRASSLAND HABITAT.

Threats:

General:
NESTING OBSERVED ON 25 JUN 2002; NESTING SUCCESSFUL WITH 2 YOUNG FLEDGED.

PLSS: T09N, R05E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4280446 E632518	Latitude/Longitude: 38.66269 / -121.47686	Elevation (feet): 30

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
KIN02F0013 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) (NEST SITE) 2002-06-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 51571	EO Index: 51571	
Key Quad: Rio Linda (3812164)	Element Code: ABNKC06010	
Occurrence Number: 72	Occurrence Last Updated: 2003-06-18	

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat: ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	Micro Habitat: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.
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Last Date Observed: 2002-06-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-06-25	Occurrence Rank: Excellent
Owner/Manager: PVT-RD 1000	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST SE OF THE DRY CREEK CONVERGENCE WITH NEMDC, DEL PASO.

Detailed Location:

Ecological:
NEST TREE IS A VALLEY OAK SURROUNDED BY OPEN, NON-NATIVE GRASSLAND HABITAT; NEARBY RIPARIAN IN NEMDC.

Threats:

General:

NEST-BUILDING OBSERVED ON 25 JUN 2002; SITE REVISITED THROUGHOUT THE NESTING SEASON, BUT THERE WAS NO EVIDENCE OF NESTLINGS OR FLEDGLINGS (PRESUMABLY A FAILED NESTING ATTEMPT).

PLSS: T09N, R05E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4280625 E632524	Latitude/Longitude: 38.66430 / -121.47676	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

KIN02F0014 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR ELANUS LEUCURUS (=CAERULEUS) (NEST SITE) 2002-06-25



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 65932	EO Index: 66011
Key Quad: Sacramento East (3812154)	Element Code: ABNKC06010
Occurrence Number: 98	Occurrence Last Updated: 2006-08-30

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat: ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	Micro Habitat: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.
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Last Date Observed: 1974-02-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1974-02-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH SIDE OF THE AMERICAN RIVER, ABOUT 0.3 MI SE OF HWY 160 OVERPASS OVER THE AMERICAN RIVER.

Detailed Location:
NEST LOCATED IN COTTONWOOD.

Ecological:
RIPARIAN HABITAT MAINLY OF FREMONT COTTONWOOD AND WILLOW (SALIX SPP.) THICKETS WHICH LINE RIVER BANKS.

Threats:
General:
2 YOUNG FLEDGED.

PLSS: T09N, R05E, Sec. 31 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4272699 E633196	Latitude/Longitude: 38.59279 / -121.47055	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:
VIN74R0001 VINCENTY, J.A. - A STUDY OF FACTORS AFFECTING NESTING RAPTOR POPULATIONS IN URBAN AREAS, SACRAMENTO COUNTY, CALIFORNIA. (WMB ADM RPT., NO.74-5) 1974-08-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 65935	EO Index: 66014
Key Quad: Citrus Heights (3812163)	Element Code: ABNKC06010
Occurrence Number: 101	Occurrence Last Updated: 2006-08-22

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat: ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	Micro Habitat: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.
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Last Date Observed: 1974-02-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1974-02-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST SOUTH OF FAIR OAKS, ABOUT 0.4 MI EAST OF SUNRISE BLVD, LOWER SUNRISE RECREATION AREA.

Detailed Location:
Ecological:
OAK WOODLAND & OAK GRASSLAND. TREES MAINLY QUERCUS DOUGLASII & QUERCUS WISLIZENI. SCATTERED PINUS SABINIANA & QUERCUS LOBATA ALSO. DOM. TREE IN DREDGER TRAILINGS IS POPULUS FREMONTII.

Threats:
General:
NEST TREE WAS INTERIOR LIVE OAK. NESTING SUCCESS UNKNOWN.

PLSS: T09N, R06E, Sec. 24 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4276627 E650310	Latitude/Longitude: 38.62544 / -121.27327	Elevation (feet): 100

County Summary: Sacramento	Quad Summary: Carmichael (3812153), Citrus Heights (3812163)
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Sources:
VIN74R0001 VINCENTY, J.A. - A STUDY OF FACTORS AFFECTING NESTING RAPTOR POPULATIONS IN URBAN AREAS, SACRAMENTO COUNTY, CALIFORNIA. (WMB ADM RPT., NO.74-5) 1974-08-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 65943	EO Index: 66022
Key Quad: Sacramento East (3812154)	Element Code: ABNKC06010
Occurrence Number: 108	Occurrence Last Updated: 2006-08-31

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat: ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	Micro Habitat: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.
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Last Date Observed: 1988-05-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-05-03	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
PARADISE BEACH ON THE AMERICAN RIVER AT THE END OF CARLSON DRIVE, SACRAMENTO.

Detailed Location:
UNKNOWN WHERE WITHIN THE PARADISE BEACH AREA THE BIRDS WERE NESTING SO THE ENTIRE AREA IS MAPPED.

Ecological:
Threats:

General:
1 PAIR OBSERVED NESTING FROM 30 APR TO 3 MAY 1988.

PLSS: T08N, R05E, Sec. 03 (M)	Accuracy: nonspecific area	Area (acres): 76
UTM: Zone-10 N4271522 E637182	Latitude/Longitude: 38.58158 / -121.42503	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:
AUD88U0001 AUDUBON SOCIETY - SEASON OBSERVATIONS, THE OBSERVER, SACRAMENTO AUDUBON SOCIETY. 1988-08-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 71322	EO Index: 72224
Key Quad: Carmichael (3812153)	Element Code: ABNKC06010
Occurrence Number: 114	Occurrence Last Updated: 2008-05-15

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat:	Micro Habitat:
ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.

Last Date Observed: 2008-05-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2008-05-11	Occurrence Rank: Good
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
 ANCIL HOFFMAN COUNTY PARK (SAC CO DEPT OF REGIONAL PARKS), 184 METERS WEST OF RIVER MARKER "MILE 16" (TOPO).

Detailed Location:
 APPROXIMATELY 145 METERS ENE OF BATHROOMS ON THE SOUTH END OF THE PICNIC PARKING LOT EAST OF THE GOLF COURSE PARKING LOT, NEAR WOODEN FORT-TYPE STRUCTURE.

Ecological:
 HABITAT CONSIST OF OAK WOODLANDS & GROOMED LAWNS WITHIN URBAN PARK WITH A VARIETY OF HUMAN RECREATION ACTIVITIES WITHIN 200 M. NEST IN OAK TREE.

Threats:
 HUMAN RECREATION MAY DISTURB BIRDS. HOWEVER, THIS HAS BEEN A HIGH USE PARK FOR MANY YEARS & PAIR MAY HAVE HABITUATED.

General:
 PAIR OBSERVED COLLECTING NEST MATERIAL & BUILDING NEST ON 11 MAY 2008.

PLSS: T09N, R06E, Sec. 27 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4274946 E647369	Latitude/Longitude: 38.61079 / -121.30740	Elevation (feet): 75

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
 ACO08F0002 ACORD, B. & K. ROGERS (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR ELANUS LEUCURUS 2008-05-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 78322	EO Index: 79245
Key Quad: Sacramento East (3812154)	Element Code: ABNKC06010
Occurrence Number: 142	Occurrence Last Updated: 2010-03-11

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G5	CDFW_FP-Fully Protected
State: S3S4	IUCN_LC-Least Concern

General Habitat: ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	Micro Habitat: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.
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Last Date Observed: 2009-08-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-08-XX	Occurrence Rank: Good
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Stable
Presence: Presumed Extant	

Location:
WITHIN THE AMERICAN RIVER PARKWAY, S OF TRIBUTE RD BETWEEN CAPITAL CITY FWY TO THE E & RAIL ROAD TO THE W, SACRAMENTO.

Detailed Location:
NEST TREE ABOUT 300 FEET SOUTH OF THE PAVED BIKE TRAIL. MAPPED TO PROVIDED COORDINATES AND MAP.

Ecological:
NEST WAS IN A DECIDUOUS OAK TREE AND WELL CONCEALED WHILE THE TREE HAD FOLIAGE. THE SITE WAS LOCATED IN AN OPEN GRASSLAND AREA (CNDDB ELDERBERRY SAVANNA OCC #2). ABOUT 17 ACRES N OF PAVED TRAIL IS BEING RESTORED WITH NATIVE PLANTS.

Threats:
DISTURBANCES INCLUDE FREEWAY. NO THREATS.

General:
2 ADULTS OBSERVED CONDUCTING AN INCUBATION EXCHANGE, & AN ADULT OBSERVED BRINGING FOOD TO NEST DURING THE BREEDING SEASON, 2009. IN AUGUST, A JUVENILE, PRESUMED FROM NEST, WAS OBS IN AREA. NEST CONFIRMED IN FALL WHEN TREE WAS DEFOLIATED.

PLSS: T09N, R05E, Sec. 32 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4272604 E635205	Latitude/Longitude: 38.59164 / -121.44751	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:
ACO09F0010 ACORD, B. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-CALIFORNIA NATURAL DIVERSITY DATABASE) - FIELD SURVEY FORM FOR ELANUS LEUCURUS 2009-08-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 78324	EO Index: 79250
Key Quad: Carmichael (3812153)	Element Code: ABNKC06010
Occurrence Number: 143	Occurrence Last Updated: 2010-03-11

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat: ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	Micro Habitat: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.
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Last Date Observed: 2009-08-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-08-15	Occurrence Rank: Good
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Stable
Presence: Presumed Extant	

Location:
ABOUT 0.4 MILES NNE OF ROSSMOOR DR AT AMBASSADOR DR, ROSSMOOR BAR, AMERICAN RIVER PARKWAY, RANCHO CORDOVA.

Detailed Location:
ABOUT 300 FEET EAST OF THE PARK ENTRANCE ROAD (ROSSMOOR DR), AND JUST SOUTH OF THE PILES OF RIVER ROCK. MAPPED TO PROVIDED COORDINATES AND MAP.

Ecological:
NEST WAS LOCATED IN AN OAK TREE THAT WAS BORDERED BY OPEN GRASSY AREAS TO THE SOUTH AND PILES OF RIVER ROCK TO THE NORTH. DURING THE WINTER OF 2009-2010, THE COUNTY PARKS FENCED-OFF ABOUT 75 ACRES WEST OF NEST FOR NATIVE PLANT RESTORATION.

Threats:
NO THREATS. VISIBLE DISTURBANCE INCLUDE HUGE PILES OF RIVER ROCK FROM HISTORIC GOLD MINING THAT DEGRADE HABITAT.

General:
ADULT PAIR OBSERVED BEFORE, DURING, & AFTER THE 2009 BREEDING SEASON. 2 ADULTS AND 2 CHICKS OBSERVED ON 15 AUG 2009. CHICKS SUCCESSFULLY FLEDGED.

PLSS: T09N, R06E, Sec. 23 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4275712 E648278	Latitude/Longitude: 38.61755 / -121.29679	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
ACO09F0011 ACORD, B. & K. ROGERS (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-CALIFORNIA NATURAL DIVERSITY DATABASE) - FIELD SURVEY FORM FOR ELANUS LEUCURUS 2009-08-15



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 78326	EO Index: 79253
Key Quad: Carmichael (3812153)	Element Code: ABNKC06010
Occurrence Number: 144	Occurrence Last Updated: 2010-03-11

Scientific Name: <i>Elanus leucurus</i>	Common Name: white-tailed kite
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	CDFW_FP-Fully Protected
Global: G5	IUCN_LC-Least Concern
State: S3S4	

General Habitat: ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.	Micro Habitat: OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.
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Last Date Observed: 2009-08-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-08-15	Occurrence Rank: Good
Owner/Manager: PVT, SAC COUNTY-PARKS & REC	Trend: Stable
Presence: Presumed Extant	

Location:
AT THE SOUTHWEST CORNER OF AMBASSADOR DR AT RIVER VISTA WAY, RANCHO CORDOVA.

Detailed Location:
NEST IN REDWOOD TREE IN BACKYARD OF HOUSE ON CORNER. MAPPED TO PROVIDED COORDINATES AND MAP.

Ecological:
NEST WAS IN A REDWOOD TREE IN YARD OF PVT RESIDENCE IN TRACK HOME DEVELOPMENT IMMEDIATELY ADJ TO THE AM RIV PARKWAY. THE ADULT PAIR FREQUENTLY PERCHED & ATE IN TREE ABOUT 57 M SSW OF NEST TREE, & FORAGED IN RUDERAL GRASSLANDS TO N & W.

Threats:
NO THREATS. DISTURBANCES INCLUDE INVASIVE PLANTS (YELLOW STARHISTLE) DEGRADING HABITAT IN FORAGING FIELDS.

General:
ADULT PAIR OBSERVED BEFORE, DURING, & AFTER THE 2009 BREEDING SEASON. THE NEST WAS BLOWN OUT OF TREE EARLIER, BUT OBSERVED REBUILDING ON 20 JUN. ADULT ON NEST INCUBATING ON 25 JUL; LATER CHICK FEEDING OBS. NEST ABANDONED; PRESUMED FAILED.

PLSS: T09N, R06E, Sec. 27 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4274550 E647665	Latitude/Longitude: 38.60718 / -121.30408	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
ACO09F0012 ACORD, B. & K. ROGERS (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-CALIFORNIA NATURAL DIVERSITY DATABASE) - FIELD SURVEY FORM FOR ELANUS LEUCURUS 2009-08-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 78441
Key Quad: Florin (3812144)
Occurrence Number: 151

EO Index: 79362
Element Code: ABNKC06010
Occurrence Last Updated: 2010-03-25

Scientific Name: *Elanus leucurus*

Common Name: white-tailed kite

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G5
 State: S3S4

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_FP-Fully Protected
 IUCN_LC-Least Concern

General Habitat:

ROLLING FOOTHILLS AND VALLEY MARGINS WITH SCATTERED OAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND.

Micro Habitat:

OPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.

Last Date Observed: 2008-04-23
Last Survey Date: 2008-04-23
Owner/Manager: PVT, SRCSD-BUFFERLANDS
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Fair
Trend: Unknown

Location:

BACKYARD OF RESIDENCE ON CHINQUAPIN WAY, ADJACENT TO NORTH SIDE OF SACRAMENTO COUNTY SANITATION DISTRICT BUFFERLANDS.

Detailed Location:

"NEST IS LOCATED IN A TALL PINE TREE IN THE BACKYARD OF A RESIDENCE THAT ABUTS THE NORTH LEVEE OF UNIONHOUSE CREEK." MAPPED TO LIKELY NEST TREE VISIBLE IN 2009 AERIAL THAT IS ABOUT 28 M NORTH OF PROVIDED COORDINATES ON LEVEE.

Ecological:

DENSE RESIDENTIAL DEVELOPMENTS BORDERED BY UNDEVELOPED, ANNUAL GRASSLANDS OF THE BUFFERLANDS.

Threats:

General:

2 ADULTS OBSERVED AT NEST ON 23 APR 2008. THE NEST HAS BEEN REPORTED AS ACTIVE THE PAST 2-3 YEARS (2005-2006-2007?).

PLSS: T07N, R05E, Sec. 17 (M)
UTM: Zone-10 N4258538 E635045

Accuracy: 80 meters
Latitude/Longitude: 38.46494 / -121.45206

Area (acres): 0
Elevation (feet): 12

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

STR08F0004 STRINGER, S. & J. ARSENIJEVIC (HDR, INC.) - FIELD SURVEY FORM FOR ELANUS LEUCURUS 2008-04-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11618	EO Index: 27345
Key Quad: Carmichael (3812153)	Element Code: ABNKC12040
Occurrence Number: 33	Occurrence Last Updated: 1995-11-02

Scientific Name: <i>Accipiter cooperii</i>	Common Name: Cooper's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_WL-Watch List
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	
State: S4	

General Habitat: WOODLAND, CHIEFLY OF OPEN, INTERRUPTED OR MARGINAL TYPE.	Micro Habitat: NEST SITES MAINLY IN RIPARIAN GROWTHS OF DECIDUOUS TREES, AS IN CANYON BOTTOMS ON RIVER FLOOD-PLAINS; ALSO, LIVE OAKS.
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Last Date Observed: 1988-04-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-04-23	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Decreasing
Presence: Presumed Extant	

Location:
E SIDE OF GOETHE PARK IN ARP, RANCHO CORDOVA.

Detailed Location:

Ecological:

Threats:

General:

FEMALE OBSERVED ON NEST WITH MALE IN CLOSE PROXIMITY. NEST LATER VACATED DUE TO MAN-CAUSED WILDFIRE.

PLSS: T09N, R06E, Sec. 28 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4273497 E646036	Latitude/Longitude: 38.59796 / -121.32301	Elevation (feet): 65

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
JOH88F0002 JOHNSON, D.L. - FIELD SURVEY FORM FOR ACCIPITER COOPERII AT GOETHE PARK 1988-04-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	33435	EO Index:	29285
Key Quad:	Sacramento East (3812154)	Element Code:	ABNKC12040
Occurrence Number:	61	Occurrence Last Updated:	1996-09-04

Scientific Name:	<i>Accipiter cooperii</i>	Common Name:	Cooper's hawk
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S4	Other Lists:	CDFW_WL-Watch List IUCN_LC-Least Concern

General Habitat:	WOODLAND, CHIEFLY OF OPEN, INTERRUPTED OR MARGINAL TYPE.	Micro Habitat:	NEST SITES MAINLY IN RIPARIAN GROWTHS OF DECIDUOUS TREES, AS IN CANYON BOTTOMS ON RIVER FLOOD-PLAINS; ALSO, LIVE OAKS.
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Last Date Observed:	1996-07-17	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1996-07-17	Occurrence Rank:	Fair
Owner/Manager:	SAC COUNTY-PARKS & REC	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 NATOMAS EAST MAIN DRAINAGE CANAL, SOUTH OF EAST LEVEE ROAD AND 0.2 MILE EAST OF NORTHGATE BLVD, SACRAMENTO.

Detailed Location:

Ecological:
 NEST TREE IS A VALLEY OAK; NEST IS 1/3 OF THE WAY DOWN FROM THE CANOPY TOP. HABITAT CONSISTS OF VALLEY OAK/COTTONWOOD RIPARIAN, INCLUDING AN UNDERSTORY OF GRAPES, WILLOWS, BUTTOWILLOW, AND BLACKBERRY; SURROUNDED BY URBAN DEVELOPMENT.

Threats:
 MAIN THREAT IS HUMAN DISTURBANCE FROM TRANSIENTS/HOMELESS PEOPLE THAT USE THE AREA.

General:
 1 ADULT AND 3 YOUNG NEAR FLEDGING ("BRANCHERS") OBSERVED ON 17 JULY 1996.

PLSS: T09N, R05E, Sec. 01 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4273995 E633000	Latitude/Longitude: 38.60450 / -121.47256	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:
 WAL96F0001 WALKER, R. (EIP ASSOCIATES) - FIELD SURVEY FORM FOR ACCIPITER COOPERII (NEST SITE) 1996-07-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	36011	EO Index:	31009
Key Quad:	Elk Grove (3812143)	Element Code:	ABNKC12040
Occurrence Number:	66	Occurrence Last Updated:	1997-07-07

Scientific Name:	<i>Accipiter cooperii</i>	Common Name:	Cooper's hawk
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S4	Other Lists:	CDFW_WL-Watch List IUCN_LC-Least Concern

General Habitat:	WOODLAND, CHIEFLY OF OPEN, INTERRUPTED OR MARGINAL TYPE.	Micro Habitat:	NEST SITES MAINLY IN RIPARIAN GROWTHS OF DECIDUOUS TREES, AS IN CANYON BOTTOMS ON RIVER FLOOD-PLAINS; ALSO, LIVE OAKS.
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Last Date Observed:	1997-05-28	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1997-05-28	Occurrence Rank:	Good
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
SW OF THE INTERSECTION OF CARMENCITA ROAD AND LAGUNA CREEK, 4 MILES NNE OF ELK GROVE.

Detailed Location:
NEST TREE IS LOCATED APPROXIMATELY 50 FEET WEST OF CARMENCITA ROAD.

Ecological:
NEST TREE IS LOCATED IN A BAND OF VALLEY OAK WOODLAND ADJACENT TO LAGUNA CREEK, WITH AN UNDERSTORY OF ELYTRIGIA AND ANNUAL GRASSES. ADJACENT RIPARIAN WOODLAND FORMS A COMPLETE CANOPY, EXTENDING TO ABOUT 100 FEET FROM THE CHANNEL EDGE.

Threats:
General:
2 ADULTS AND AT LEAST 1 JUVENILE OBSERVED AT NEST ON 28 MAY 1997.

PLSS: T07N, R06E, Sec. 16 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4258575 E645661	Latitude/Longitude: 38.46360 / -121.33042	Elevation (feet): 65

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
CUR97F0001 CURLETTE, J. & R. WALKER - FIELD SURVEY FORM FOR ACCIPITER COOPERII (NEST SITE) 1997-05-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 62278	EO Index: 62315
Key Quad: Florin (3812144)	Element Code: ABNKC12040
Occurrence Number: 99	Occurrence Last Updated: 2005-08-11

Scientific Name: <i>Accipiter cooperii</i>	Common Name: Cooper's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_WL-Watch List IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat: WOODLAND, CHIEFLY OF OPEN, INTERRUPTED OR MARGINAL TYPE.	Micro Habitat: NEST SITES MAINLY IN RIPARIAN GROWTHS OF DECIDUOUS TREES, AS IN CANYON BOTTOMS ON RIVER FLOOD-PLAINS; ALSO, LIVE OAKS.
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Last Date Observed: 2005-08-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-08-XX	Occurrence Rank: Good
Owner/Manager: SRCSD-BUFFERLANDS	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST SIDE OF FRANKLIN BOULEVARD, 0.2 MILE NORTH OF SIMS ROAD, BETWEEN ELK GROVE AND SACRAMENTO.

Detailed Location:
NEST TREE IS LOCATED ALONG THE DRIVEWAY OF A RESIDENCE ON THE EASTERN BORDER OF THE SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS.

Ecological:
NEST TREE WAS AN OLIVE; NEST WAS ONLY 30' FROM FRANKLIN BOULEVARD. SITE IS BORDERED BY THE BUFFERLANDS TO THE WEST AND RESIDENTIAL TO THE EAST.

Threats:
POSSIBLE THREATS FROM ADJACENT TRAFFIC AND NEARBY CONSTRUCTION.

General:
ACTIVE NEST PRESENT ON 15 JUN 2005; 2 JUVENILES WERE OBSERVED AT THE SITE INTO EARLY AUG 2005 (2 FLEDGED).

PLSS: T07N, R05E, Sec. 21 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4255810 E635660	Latitude/Longitude: 38.44027 / -121.44555	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
CON05F0001 CONARD, C. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR ACCIPITER COOPERII (NEST SITE) 2005-06-15



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 68556	EO Index: 68912
Key Quad: Sacramento East (3812154)	Element Code: ABNKC12040
Occurrence Number: 116	Occurrence Last Updated: 2008-07-08

Scientific Name: <i>Accipiter cooperii</i>	Common Name: Cooper's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_WL-Watch List IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat: WOODLAND, CHIEFLY OF OPEN, INTERRUPTED OR MARGINAL TYPE.	Micro Habitat: NEST SITES MAINLY IN RIPARIAN GROWTHS OF DECIDUOUS TREES, AS IN CANYON BOTTOMS ON RIVER FLOOD-PLAINS; ALSO, LIVE OAKS.
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Last Date Observed: 2008-05-31	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2008-05-31	Occurrence Rank: Excellent
Owner/Manager: CITY OF SACRAMENTO	Trend: Unknown
Presence: Presumed Extant	

Location:
VICINITY OF 21ST STREET AND H STREET, SACRAMENTO.

Detailed Location:
2007: NEST TREE WAS ON THE NORTH SIDE OF H STREET, IN THE FIRST TREE WEST OF THE NW CORNER OF 21ST AND H. 2008: NEST TREE WAS DIRECTLY ACROSS FROM 2130 H STREET, EAST OF 21ST & H STREETS.

Ecological:
2007: NEST TREE WAS A LARGE ELM (NEST LOCATED ~3/4 OF THE WAY UP THE TREE) ON A BUSY STREET CORNER. 2008: NEST TREE IS A LARGE MAGNOLIA.

Threats:
THREATENED BY TREE TRIMMING AND NEST TREE REMOVAL DUE TO DUTCH ELM DISEASE.

General:
2007: PAIR NESTING IN AREA FOR LAST SEVERAL YRS. PAIR NESTED SUCCESSFULLY IN 2006, FLEDGING 2. FEMALE WAS OBS ADDING TO A WELL-DEVELOPED NEST ON 2 MAR 2007. 2008: NEST 1ST OBS ON 8 APR DURING COURTSHIP. PAIR OBS WITH 3 CHICKS ON 31 MAY.

PLSS: T08N, R05E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4271101 E632607	Latitude/Longitude: 38.57849 / -121.47762	Elevation (feet): 23

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

BEZ08U0001	BEZDECHECK, V. - EMAIL TO SACRAMENTO_BIRDS@YAHOOGROUPS.COM REGARDING NESTING COHA. 2008-05-31
KIN07F0001	KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR ACCIPITER COOPERII (NEST SITE) 2007-03-02



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11220	EO Index: 7542	
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070	
Occurrence Number: 12	Occurrence Last Updated: 2013-04-05	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1994-08-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-08-11	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Stable
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM-54.20(L), ON THE SOUTH EDGE OF CHICORY BEND, 0.3 MILES WEST OF I-5 AT SEAMAS AVE, SACRAMENTO.

Detailed Location:
TERRITORY #SA009 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE.

Ecological:
NEST TREES WERE COTTONWOODS IN DENSE COTTONWOOD-DOMINATED RIPARIAN STRIP ALONG RIVERBANK. NEAREST FORAGING HABITAT CONSISTED OF WHEAT FIELDS AND FALLOW FIELDS ON THE WEST SIDE OF THE RIVER.

Threats:
DEVELOPMENT IS ENCROACHING ON FORAGING HABITAT ACROSS THE RIVER FROM SITE.

General:
ACTIVE NEST SITE, 1979-91 (EXCEPT POSSIBLY IN 1980). 2 FLEDGED IN 1979. 2 FLEDGED IN 1981. 1 FLEDGED IN 1984. 1 FLEDGED IN 1988. 2 YOUNG PRODUCED IN 1993. 2 FLEDGED IN 1994.

PLSS: T08N, R04E, Sec. 22 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4265174 E628405	Latitude/Longitude: 38.52570 / -121.52693	Elevation (feet): 10

County Summary: Sacramento, Yolo	Quad Summary: Sacramento West (3812155)
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Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
LEV90F0006	LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
LEV91F0005	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
MAI90F0001	MAIER, L. - FIELD SURVEY FORM FOR 12 BUTEO SWAINSONI NEST SITES ALONG THE SACRAMENTO RIVER. 1990-XX-XX
MAI90F0008	MAIER, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
MOR93F0010	MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11221	EO Index: 7546	
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070	
Occurrence Number: 114	Occurrence Last Updated: 2013-01-23	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1993-07-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-07-15	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Stable
Presence: Presumed Extant	

Location:
SOUTHWEST BANK OF THE SACRAMENTO RIVER, FROM RM-47.8 TO 48.55, ABOUT 1 MILE UPSTREAM OF FREEPORT BEND, SACRAMENTO.

Detailed Location:
TERRITORY #Y0025 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. MAPPED APPROXIMATELY TO PROVIDED TRS AND "1 MI W OF FREEPORT BEND."

Ecological:
1984-1990: NEST(S) IN COTTONWOODS WITHIN RIPARIAN HABITAT; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURAL FIELDS INCLUDING ALFALFA AND CORN.

Threats:
General:
1981: 2 SWHA OBSERVED SOARING. NEST FIRST FOUND IN 1984, ACTIVE EVERY YEAR WITH YOUNG FLEDGED IN 1984 (1 YOUNG), 1985 (1), 1986 (1), 1988 (2), & 1990 (1). ACTIVE NEST OBS IN 1993, SUCCESS UNKNOWN.

PLSS: T07N, R04E, Sec. 10 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4259361 E629036	Latitude/Longitude: 38.47324 / -121.52077	Elevation (feet): 10

County Summary: Sacramento, Yolo	Quad Summary: Clarksburg (3812145)
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- Sources:**
- DFG84U0003 CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
 - DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
 - DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
 - EST88F0042 ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1988-XX-XX
 - LEV90F0011 LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-08-XX
 - MAI90F0001 MAIER, L. - FIELD SURVEY FORM FOR 12 BUTEO SWAINSONI NEST SITES ALONG THE SACRAMENTO RIVER. 1990-XX-XX
 - MAI90F0009 MAIER, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-05-XX
 - MOR93F0007 MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11672	EO Index: 2595	
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070	
Occurrence Number: 131	Occurrence Last Updated: 2013-01-30	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1994-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-XX-XX	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
DEER CREEK, AT THE INTERSECTION OF WILTON ROAD, 0.5 MILE NW OF COSUMNES RIVER.

Detailed Location:
MAPPED TO PROVIDED MAP AND COORDINATES. CDFW SWAINSON'S HAWK DATABASE TERRITORY #SA013.

Ecological:
RIPARIAN AREA SURROUNDED BY AGRICULTURAL CROPLAND AND GRAZING PASTURES.

Threats:
POSSIBLE THREAT FROM SURROUNDING DEVELOPMENT OF SMALL RANCHETTES.

General:
2 ADULTS OBSERVED SOARING/ROOSTING HERE IN 1981 & 1984. 1 ADULT OBS IN THE AREA IN 1985. 2 ADULTS NESTING IN AN OAK 1986. 2 ADULTS & 1 JUVENILE NESTING IN AN OAK 1987. NEST OBS DURING A SURVEY OF THE COSUMNES RIVER AREA IN 1994.

PLSS: T07N, R06E, Sec. 35 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4253836 E649572	Latitude/Longitude: 38.42027 / -121.28662	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

DFG84U0003 CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX

DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX

ROS94F0001 ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11038	EO Index: 27935	
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070	
Occurrence Number: 132	Occurrence Last Updated: 2013-03-22	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2003-07-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-07-11	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, FROM R74.8 TO RM75.6, ABOUT 0.75 MI N OF ELVERTA ROAD AT GARDEN HWY, NW OF SACRAMENTO.

Detailed Location:
3 NESTING SITES, FROM S TO N: 1) TERRITORY #SA091 & PART OF SA014 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE; ACTIVE NESTS DETECTED 1983-1993, 2) CDFW NEST RECORD FROM 2003, 3) 1991/1992 NESTS RECORDED AT #SA014 IN CDFW DATABASE.

Ecological:
NESTS WERE IN COTTONWOODS WITHIN A DENSE RIPARIAN STRIP; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURE (TOMATOES, WHEAT, RICE, WALNUTS, ROW CROPS IN 1991).

Threats:
General:
1) SWHA OBSERVED/NO NEST FOUND, 1981. ACTIVE 1983, 1984. SWHA BUT NO NEST 1985. 2 FLEDGED 1986. ACTIVE, 1990. ONLY "FLOATERS" OBS, 1992. NEST W/PAIR & 1 YOUNG, 1993. 2) ACTIVE/0 YOUNG OBS, 2003. 3) 1 FLEDGED, 1991. PAIR W/1 YOUNG OBS, 1992.

PLSS: T10N, R03E, Sec. 12 (M)	Accuracy: nonspecific area	Area (acres): 92
UTM: Zone-10 N4287612 E621400	Latitude/Longitude: 38.72884 / -121.60335	Elevation (feet): 20

County Summary: Sacramento, Sutter, Yolo	Quad Summary: Taylor Monument (3812165)
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Sources:

BEL84F0005	BELL, B. - SA FIELD SURVEY FORM FOR BUTEO SWAINSONI. 1984-XX-XX
DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
LEV91F0023	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
MOR93F0022	MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 10991	EO Index: 7571
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070
Occurrence Number: 133	Occurrence Last Updated: 2013-03-22

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1993-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM73 - 73.4, IN THE VICINITY OF ELKHORN PUMP STATION, NW OF THE SACRAMENTO INTERNATIONAL AIRPORT.

Detailed Location:
TERRITORIES #SA015 (PART-SEE ALSO EO#513), SA090, & SA029/YO173 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE.

Ecological:
1981-1991: PAIR ALTERNATED BETWEEN 2 NEST SITES ON OPPOSITE SIDES OF THE RIVER AT RM 73.1L & 73.4R; NESTS IN COTTONWOODS, SURROUNDED BY AGRICULTURE (WALNUTS, ALFALFA, TOMATOES, PEARS).

Threats:
THREATENED BY HIGH DISTURBANCE FACTOR, INCLUDING HEAVY TRUCK TRAFFIC, RECREATIONAL ACTIVITY, AND BOATING.

General:
2 ADULTS FLEDGED 1 YOUNG IN 1981. ONLY SOARING BIRDS OBSERVED 1982-1984. PAIR USING 2 NESTS IN 1991; SUCCESS UNKNOWN. NEST WITH 2 YOUNG IN 1992. ACTIVE NEST IN 1993 WAS ABANDONED, POSSIBLY DUE TO HARASSMENT BY CROWS.

PLSS: T10N, R03E, Sec. 23 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4285148 E620196	Latitude/Longitude: 38.70681 / -121.61763	Elevation (feet): 25

County Summary: Sacramento, Yolo	Quad Summary: Taylor Monument (3812165)
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Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
LEV91F0022	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11217	EO Index: 27162	
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070	
Occurrence Number: 136	Occurrence Last Updated: 2013-04-04	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1993-07-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-07-15	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM 61.5(R), JUST NORTH OF GOLDEN STATE MIDDLE SCHOOL & RIVERBANK RD, WEST SACRAMENTO.

Detailed Location:
TERRITORY #YO043 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. MAPPED TO PROVIDED MAP AND COORDINATES.

Ecological:
NEST TREE IS A MEDIUM-SIZED COTTONWOOD, LOCATED 30 FEET FROM THE RIVER; SURROUNDING FORAGING HABITAT CONSISTED OF GRASSY/WEEDY FIELDS.

Threats:
General:
1 HAWK OBSERVED SOARING & PERCHING ON SNAG, NO NEST FOUND 1983. NEST SITE DISCOVERED IN 1984, ACTIVE EVERY YEAR (EXCEPT 1988 & 1989) FROM 1984-1991, 1-2 YOUNG FLEDGED EVERY YEAR EXCEPT 1991. ACTIVITY UNKNOWN 1992. 1+ YOUNG PRODUCED 1993.

PLSS: T09N, R04E, Sec. 27 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4273810 E627938	Latitude/Longitude: 38.60358 / -121.53071	Elevation (feet): 25

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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- Sources:**
- DFG84U0003 CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
 - DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
 - DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
 - EIP92R0001 EIP ASSOCIATES & SACRAMENTO AREA FLOOD CONTROL AGENCY - EXCERPT FROM DRAFT SWAINSON'S HAWK AND GIANT GARTER SNAKE HABITAT CONSERVATION PLAN. 1992-XX-XX
 - LEV90F0008 LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
 - LEV91F0007 LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
 - MOR93F0013 MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15
 - WIL90F0012 WILKINSON, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-04-26
 - WIL90F0013 WILKINSON, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-04-26



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 10976	EO Index: 7605	
Key Quad: Grays Bend (3812166)	Element Code: ABNKC19070	
Occurrence Number: 152	Occurrence Last Updated: 2013-03-20	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1994-07-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-07-21	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER FROM RM72.1 TO RM72.6, N OF GARDEN HWY AT W ELKHORN BLVD & 2 MI W OF SACRAMENTO INTERNATIONAL AIRPORT.

Detailed Location:
MAPPED TO VICINITY OF TERRITORIES #SA089 AND YO/YO172 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE; EXACT NEST TREE LOCATIONS NOT KNOWN, GIVEN LOCATIONS RM72.1(L) AND RM72.5-72.6(R), RESPECTIVELY.

Ecological:
SA089: 1991 NEST TREE WAS A TALL COTTONWOOD; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURE (TOMATOES, ONIONS, AND FALLOW FIELDS). YO172: 1991 NEST IN COTTONWOOD SURROUNDED BY WALNUT AND PISTACHIO ORCHARDS.

Threats:
POTENTIAL THREATS FROM LEVEE RECONSTRUCTION AND VEGETATION REMOVAL (1991).

General:
SA089: 2 FLEDGED, 1990. 2 FLEDGED, 1991. 1 FLEDGED, 1992. NEST FAILED BEFORE HATCHING, 1993. NEST FAILED DURING NEST-BUILDING, 1994. YO172: 1 FLEDGED, 1991. 1 YOUNG, 1993. 2 FLEDGED IN 1994.

PLSS: T10N, R03E, Sec. 27 (M)	Accuracy: nonspecific area	Area (acres): 167
UTM: Zone-10 N4283776 E618994	Latitude/Longitude: 38.69460 / -121.63168	Elevation (feet): 25

County Summary: Sacramento, Yolo	Quad Summary: Taylor Monument (3812165), Grays Bend (3812166)
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Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
LEV91F0028	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
LEV91F0029	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11033	EO Index: 27142
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070
Occurrence Number: 155	Occurrence Last Updated: 2013-12-13

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern
CNDDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG SACRAMENTO RIVER, ABOUT 0.6 MILES EAST OF CO RD 124 AT RD 122 AND 1.6 MILES SSE OF THE I-5 BRIDGE.

Detailed Location:
VICINITY OF TERRITORIES YO168 & SA030 (PART- SEE ALSO EO#2167) FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE, AT RM68.7 -68.9R. MAPPED TO 1984 DETECTION LOCATION (E SIDE RIVER) & SITES YO-106 & YO-107 FROM ESTEP'S 2008 REPORT (W SIDE).

Ecological:
NESTS IN RIPARIAN HABITAT. 2007 NESTS IN RIPARIAN COTTONWOODS SURROUNDED BY IRRIGATED CROPLAND.

Threats:
POTENTIALLY THREATENED BY THE SACRAMENTO URBAN AREA LEVEE RECONSTRUCTION PROJECT (1990).

General:
2 ADULTS NEST-BUILDING OBS IN 1984. NESTING PAIR OBSERVED IN 1990. NEST PRODUCED 2 YOUNG, 1 CONFIRMED FLEDGED IN 1993. 1 FLEDGED IN 1994. 3 YOUNG PRODUCED FROM 2 NESTS IN 2007.

PLSS: T09N, R03E, Sec. 12 (M)	Accuracy: specific area	Area (acres): 15
UTM: Zone-10 N4279533 E621299	Latitude/Longitude: 38.65607 / -121.60593	Elevation (feet): 20

County Summary: Sacramento, Yolo	Quad Summary: Taylor Monument (3812165)
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Sources:

BEL84F0004	BELL, B. - SA FIELD SURVEY FORM FOR BUTEO SWAINSONI. 1984-XX-XX
DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
MOR93F0018	MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15
WIL90F0001	WILKINSON, C. (U.S. FISH AND WILDLIFE SERVICE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-04-26



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11308	EO Index: 27120	
Key Quad: Bruceville (3812134)	Element Code: ABNKC19070	
Occurrence Number: 179	Occurrence Last Updated: 2012-12-18	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2003-05-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-05-15	Occurrence Rank: Unknown
Owner/Manager: PVT, UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH SIDE OF HOOD FRANKLIN RD, JUST WEST OF I-5 OFFRAMP, ABOUT 1.5 MILES W OF FRANKLIN.

Detailed Location:
TERRITORIES #SA011 AND #SA072 FROM CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS AT "I-5, HOOD FRANKLIN RD." MAPPED TO COORDINATES FROM CDFW DATABASE OF SWHA NEST RECORDS FROM 2000-2004.

Ecological:
1980-84: HABITAT DESCRIBED AS GRASSLANDS, AGRICULTURAL LAND. 2003: NEST IN 45' TREE CODED AS "OTHER EXOTIC" (=NOT EUCALYPTUS OR WALNUT), SURROUNDED BY PASTURE.

Threats:
General:
1979, 1980, 1984, 1992: ADULTS OBSERVED IN GENERAL AREA, NESTS NOT FOUND. ACTIVE NEST OBS 15 MAY 2003, NO YOUNG RECORDED.

PLSS: T06N, R04E, Sec. 13 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4248438 E632558	Latitude/Longitude: 38.37432 / -121.48247	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Bruceville (3812134), Florin (3812144)
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Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
SCH92F0060	SCHNEIDER ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1992-07-06



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11621

EO Index: 2586

Key Quad: Elk Grove (3812143)

Element Code: ABNKC19070

Occurrence Number: 183

Occurrence Last Updated: 2013-04-15

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 1994-XX-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1994-XX-XX

Occurrence Rank: Excellent

Owner/Manager: TNC-COSUMNES RIVER PRESERVE

Trend: Stable

Presence: Presumed Extant

Location:

COSUMNES RIVER, RM 13.4(R), 2 MILES EAST OF THE INTERSECTION OF GRANT LINE ROAD & HWY 99, COSUMNES RIVER PRESERVE.

Detailed Location:

MAPPED TO PROVIDED MAP AND COORDINATES. CDFW SWAINSON'S HAWK DATABASE TERRITORY #SA025.

Ecological:

1987 NEST IN COTTONWOOD. RIPARIAN AREA SURROUNDED BY AGRICULTURAL CROPLAND AND GRAZING PASTURES.

Threats:

General:

1 ADULT OBSERVED DIVING ON TURKEY VULTURE, BUT NO NEST FOUND IN 1982. NO SWHA OR NEST OBS IN 1984. 1 ADULT OBS IN 1985 & 1986. NEST WITH PAIR & 1 YOUNG OBS IN 1987. ACTIVE NEST OBS DURING A SUMMER 1994 SURVEY OF COSUMNES RIVER AREA.

PLSS: T06N, R06E, Sec. 16 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4249300 E646923

Latitude/Longitude: 38.37985 / -121.31790

Elevation (feet): 45

County Summary:

Quad Summary:

Sacramento

Elk Grove (3812143)

Sources:

- DFG84U0003 CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
- DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
- ROS94F0001 ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1994-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11655	EO Index:	2589
Key Quad:	Elk Grove (3812143)	Element Code:	ABNKC19070
Occurrence Number:	184	Occurrence Last Updated:	1999-10-07

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	1995-06-13	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1995-06-13	Occurrence Rank:	Excellent
Owner/Manager:	PVT	Trend:	Stable
Presence:	Presumed Extant		

Location:
NORTH BANK OF COSUMNES RIVER, AT RM-14.9, ESE OF ELK GROVE.

Detailed Location:
LOCATED ~0.25 MILE UPSTREAM FROM DFG COSUMNES RIVER CONSERVATION EASEMENT.

Ecological:
NEST TREE IS A VALLEY OAK; HABITAT CONSISTS OF RIPARIAN SURROUNDED BY ROW CROPS.

Threats:
General:

DFG SWHA #SA038. 1 DARK, 1 MEDIUM PHASE OBSERVED SOARING IN 1984; NO NEST FOUND. 2 ADULTS/3 JUVENILES OBSERVED AT THE NEST IN 1987. 2 CHICKS OBSERVED IN THE NEST ON 13 JUNE 1995.

PLSS:	T06N, R06E, Sec. 10 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4249698 E647701	Latitude/Longitude:	38.38330 / -121.30892	Elevation (feet):	60

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
ROS95F0002	ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1995-06-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11725	EO Index: 27114
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 185	Occurrence Last Updated: 1999-10-07

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1984-05-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1985-05-24	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
0.25 MILE SE OF THE INTERSECTION OF DAVIS AND WALMORT ROADS.

Detailed Location:
Ecological:
HABITAT CONSISTS OF RIPARIAN SURROUNDED BY AGRICULTURAL FIELDS.

Threats:
General:
DFG SWHA #SA036. 1 LIGHT AND 1 DARK PHASE OBSERVED SOARING; NO NEST FOUND, BUT NESTING PRESUMED. SITE CHECKED ON 24 MAY 1985, BUT NO NEST AND NO BIRDS WERE OBSERVED.

PLSS: T06N, R07E, Sec. 18 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4248971 E652138	Latitude/Longitude: 38.37601 / -121.25829	Elevation (feet): 70

County Summary: Sacramento	Quad Summary: Galt (3812133), Elk Grove (3812143)
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Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11157	EO Index: 7592
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 186	Occurrence Last Updated: 2013-01-23

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT, UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
BABEL SLOUGH, FROM CONFLUENCE WITH SACAMENTO RIVER SW ABOUT 0.9 MILES.

Detailed Location:
1984-94: 3 TERRITORIES FROM CDFW DATABASE OF SWHA OBSERVATIONS: #YO061 AT RM49.5; #YO200 AT RM49.6, & YO201 (SEE ALSO OCC#633), AT RM49.8. 2005 OBS ON S SIDE BABEL SLOUGH.

Ecological:
DENSELY ACTIVE NESTING/COMMUNAL ROOSTING AREA. 1984-94: NESTS IN MED TO TALL COTTONWOODS(CW), IN DENSE CW-DOMINATED RIPARIAN, 0-200' FROM RIVER'S EDGE. 2005: SUSPECTED NESTS IN SYCAMORES. '07: NESTS IN CWS. ALFALFA, WHEAT, ROW CROPS NEARBY.

Threats:
POSSIBLE DISTURBANCE FROM RECREATION AT NEARBY MARINA ON RIVER. POTENTIAL HOUSING DEVELOPMENT (2006).

General:
YEAR/#ACTIVE NESTS/#FLEDGED: 1984/1/1, 1985/1/1, 1986-87/1/?, 1988/1/2, 1990/2/1, 1991/3/1, 1993/2/3, 1994/1/2. 159 SWHA ROOSTING 20 AUG 1991. 2005/3/?/2, 2006/1/?, 2007/4/4 YOUNG OBSERVED.

PLSS: T07N, R04E, Sec. 04 (M)	Accuracy: nonspecific area	Area (acres): 89
UTM: Zone-10 N4260129 E626609	Latitude/Longitude: 38.48051 / -121.54844	Elevation (feet): 15

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
EST88F0043	ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1988-XX-XX
HAR91F0013	HARRISON, P. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1991-08-20
LEV90F0013	LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
LEV90F0014	LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-08-XX
LEV91F0011	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
LEV91F0012	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
LEV91F0013	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
RES05F0043	RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2005-08-18
RES05F0044	RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2005-08-18
RES05F0122	RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2005-08-18
TWE06F0002	TWEEDY, C. & P. STONE (JONES AND STOKES ASSOCIATES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2006-06-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11255	EO Index: 27112
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 188	Occurrence Last Updated: 2013-01-08

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2003-06-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-06-10	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
EAST SIDE OF SACRAMENTO RIVER, ABOUT 0.8 MI SW OF I-5 AT MORRISON CREEK & 1.7 MI NNE OF SCRIBNER RD AT HWY 160.

Detailed Location:
TERRITORY #SA023 FROM CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS. MAPPED TO COORDINATES FROM CDFW NEST RECORDS DATABASE, 2000-2004.

Ecological:
1982: GOOD HABITAT WITH LARGE COTTONWOODS IN SWAMPY AREA ON N SIDE OF LEVEE. 2003: NEST IN 60' COTTONWOOD WITH RIPARIAN TO THE EAST AND PASTURE TO THE WEST.

Threats:
General:
1982: 2 ADULTS OBSERVED CARRYING PREY. 1985: 2 ADULTS OBSERVED IN VICINITY, AT RM 45(L). 2003: ACTIVE NEST OBSERVED ON 10 JUN, NO YOUNG DOCUMENTED.

PLSS: T07N, R04E, Sec. 26 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4254822 E630690	Latitude/Longitude: 38.43211 / -121.50266	Elevation (feet): 0

County Summary: Sacramento	Quad Summary: Clarksburg (3812145)
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Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11369	EO Index: 27110
Key Quad: Florin (3812144)	Element Code: ABNKC19070
Occurrence Number: 189	Occurrence Last Updated: 2012-12-19

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-07-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-07-XX	Occurrence Rank: Unknown
Owner/Manager: SRCSD-BUFFERLANDS	Trend: Unknown
Presence: Presumed Extant	

Location:
BETWEEN DWIGHT RD & SIMS RD ON EAST SIDE OF RAILROAD TRACKS, SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS.

Detailed Location:
1979 DETECTION TERRITORY #SA0005 AT "SHELDON & J8 RDS," FROM CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS. MAPPED TO COORDINATES FROM TABLE OF SWHA NEST SITES ON SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS, 2009.

Ecological:
1979: SURROUNDING HABITAT WAS AGRICULTURAL LAND. 2009: NEST IN GOODDING'S WILLOW.

Threats:

General:
1979: 1 ADULT OBS JUL 26, NO NEST FOUND. NO ACTIVITY IN 1980 OR 1982. 2009: ACTIVE NEST MONITORED MAY-JUL FLEDGED 2 YOUNG.

PLSS: T07N, R05E, Sec. 29 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4255323 E634663	Latitude/Longitude: 38.43603 / -121.45706	Elevation (feet): 20

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

CON09U0001	CONARD, C. - COORDINATES FOR SWAINSON'S HAWKS, LEAST TERNS, AND A GREAT GRAY OWL 2009-08-07
DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11652	EO Index: 27109
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 190	Occurrence Last Updated: 2013-04-12

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1987-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1987-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG DEER CREEK, ABOUT 0.5 MILES SW OF THE WILTON ROAD CROSSING AND 0.9 MILES SE OF GRANT LINE RD AT BOND RD.

Detailed Location:
TERRITORY #SA024 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE.

Ecological:
NEST TREE WAS AN OAK SURROUNDED BY RIPARIAN HABITAT, AGRICULTURAL FIELDS, AND PASTURE.

Threats:
General:
2 SWAINSON'S HAWKS OBSERVED IN 1982, NO NEST FOUND. 1 ADULT OBSERVED ON NEST IN 1984. 1 ADULT OBSERVED IN 1985. NESTING PAIR OBSERVED IN 1986, SUCCESS UNKNOWN. NESTING PAIR WITH 1 YOUNG OBSERVED IN 1987.

PLSS: T07N, R06E, Sec. 35 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4253259 E648905	Latitude/Longitude: 38.41518 / -121.29438	Elevation (feet): 60

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

DFG84U0003 CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX

DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11728	EO Index: 27111
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 191	Occurrence Last Updated: 2013-04-12

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1979-06-29	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2000-07-30	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
EAST OF GRANT LINE ROAD, ABOUT 1 MILE SSW OF THE GRANT LINE AT EAGLES NEST/SLOUGHHOUSE RD INTERSECTION, ELK GROVE.

Detailed Location:
TERRITORY SA002 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. LOCATED ABOUT HALF-WAY BETWEEN CALVINE ROAD AND SLOUGHHOUSE ROAD.

Ecological:
1979 NEST IN OAK; SURROUNDING HABITAT INCLUDED OAKS AND AGRICULTURE. SITE APPEARS TO BE SURROUNDED BY VINEYARDS IN 2012 AERIAL (PROBABLY SINCE 1998), POSSIBLY REDUCING IMMEDIATE FORAGING HABITAT.

Threats:
General:
PAIR WITH 2 YOUNG OBSERVED AT NEST IN 1979. 2 SWHA OBSERVED IN JUN 1980, NESTING NOT CONFIRMED. NO NEST OR SWHA DETECTED IN 1982. FLYOVER DETECTION IN 1994. NO SWHA OR NEST FOUND NEAR GRANT LINE AND EAGLES NEST RD IN 2000.

PLSS: T07N, R07E, Sec. 18 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4258031 E651822	Latitude/Longitude: 38.45768 / -121.25995	Elevation (feet): 90

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
ROS00F0004	ROSCOE, T. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2000-07-30



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11143	EO Index: 27108	
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070	
Occurrence Number: 192	Occurrence Last Updated: 2012-12-21	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1988-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-06-14	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG THE SACRAMENTO RIVER AT GARCIA BEND, RM 50.7R.

Detailed Location:
MAPPED TO TRS, UTMS, & STATED LOCATION FOR TERRITORY #SA033 IN CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS AT "SACRAMENTO RIVER RM 50.7R - GARCIA BEND."

Ecological:
NEST(S) IN COTTONWOODS. SURROUNDING HABITAT INCLUDED RIPARIAN, SPARSE RIPARIAN, RESIDENTIAL, & AGRICULTURAL.

Threats:
General:
1983: 1 ADULT OBS ON NEST. 1986: 2 SWHA OBS IN AREA. 1987: ACTIVE NEST OBS. 1988: ACTIVE NEST FLEDGED 1 YOUNG. 1992, 1993: NO HAWKS OR NESTS OBSERVED. 1994: 2 ADULTS OBSERVED ON 14 JUN, NEST NOT CONFIRMED.

PLSS: T08N, R04E, Sec. 32 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4261794 E625634	Latitude/Longitude: 38.49565 / -121.55932	Elevation (feet): 5

County Summary: Sacramento, Yolo	Quad Summary: Clarksburg (3812145)
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Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11099	EO Index: 7536
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070
Occurrence Number: 194	Occurrence Last Updated: 2013-03-25

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 1994-07-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-07-21	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Stable
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM-66.80(L), JUST WEST OF POWERLINE ROAD INTERSECTION WITH GARDEN HIGHWAY, SACRAMENTO.

Detailed Location:
TERRITORY #SA031 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE.

Ecological:
1991 NEST IN TALL COTTONWOOD 20 FEET FROM THE RIVER, WITHIN RIPARIAN HABITAT; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURE (WHEAT, TOMATOES, CORN, ORCHARDS). 1994 NEST IN COTTONWOOD.

Threats:
POTENTIAL THREAT FROM THE SACRAMENTO URBAN AREA LEVEE RECONSTRUCTION PROJECT (1990).

General:
NESTING IN 1983. ADULT W/YOUNG OBSERVED, 1984. FLYOVERS/NO NEST OBSERVED IN 1985. INACTIVE IN 1986. NESTING IN 1987. NESTING IN 1990. 1 FLEDGED IN 1991. NEST W/1 YOUNG OBSERVED IN 1992. 1 OF 2 YOUNG FLEDGED IN 1993. 2 NESTS, 3 FLEDGED 1994.

PLSS: T09N, R04E, Sec. 07 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4278826 E623723	Latitude/Longitude: 38.64936 / -121.57821	Elevation (feet): 20

County Summary:	Quad Summary:
Sacramento, Yolo	Taylor Monument (3812165)

- Sources:**
- DFG84U0003 CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
 - DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
 - DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
 - LEV91F0017 LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
 - MOR93F0017 MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15
 - WIL90F0002 WILKINSON, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-04-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11145	EO Index: 7535	
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070	
Occurrence Number: 195	Occurrence Last Updated: 2013-06-12	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1993-07-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-07-15	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Stable
Presence: Presumed Extant	

Location:
EAST SIDE OF THE SACRAMENTO RIVER FROM RM65.05 TO RM65.3, AROUND GARDEN HIGHWAY AT RADIO ROAD, SACRAMENTO.

Detailed Location:
VICINITY OF TERRITORY #SA046 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. NEST TREES WERE ALONG RIVER, EXCEPT FOR 1 NEST IN 1992, WHICH WAS IN FIELDS TO THE EAST.

Ecological:
RIVERSIDE NESTS MOSTLY IN COTTONWOODS (USED OAK IN 1990) IN DENSE RIPARIAN STRIP; NEAR RESIDENCES, SURROUNDED BY AGRICULTURE (SUGAR BEETS, WHEAT, TOMATOES IN 1990). EAST NEST IN 1992 WAS IN A GROUP OF OAKS SURROUNDED BY AGRICULTURAL FIELDS.

Threats:
MAIN THREAT IS HUMAN DISTURBANCE; POTENTIAL THREAT FROM THE SACRAMENTO URBAN AREA LEVEE RECONSTRUCTION PROJECT (1990).

General:
NESTING ADULT OBSERVED IN 1984. NEST WITH 1 YOUNG IN 1986. NEST WITH 2 YOUNG IN 1989. 1 FLEDGED IN 1990. ACTIVE NEST BUT NO YOUNG IN 1991. RIVERSIDE NEST WITH 1 YOUNG, EAST NEST FLEDGED 1 IN 1992. NEST WITH 2 YOUNG IN 1993.

PLSS: T09N, R04E, Sec. 16 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4277007 E625582	Latitude/Longitude: 38.63271 / -121.55717	Elevation (feet): 20

County Summary: Sacramento, Yolo	Quad Summary: Taylor Monument (3812165)
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Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
ENG92U0001	ENGLAND, A.S. - CORRESPONDENCE FROM SID ENGLAND TO BILL ZIEBRON DETAILING THE RESULTS OF THE 1992 NATOMAS BASIN SWAINSON'S HAWK NESTING SURVEY. 1992-08-31
LEV90F0015	LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-08-XX
LEV91F0014	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
MOR93F0015	MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15
SOG89F0007	SOGGE, M.K. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1989-06-28
WIL90F0003	WILKINSON, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-05-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11150	EO Index: 27102
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 196	Occurrence Last Updated: 2013-06-14

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
BOTH SIDES OF THE SACRAMENTO RIVER, RM63.3 - 63.5, AROUND THE CO RD 126/OLD RIVER RD JUNCTION, WEST OF SACRAMENTO.

Detailed Location:
VICINITY OF TERRITORY #SA032 FROM CDFW SWHA DATABASE (AT RM63.6). E SIDE OF RIVER: TERRITORY "SA" (AT RM-63.3). WEST SIDE OF RIVER: MAPPED TO SITE YO-77 FROM ESTEP'S 2008 REPORT.

Ecological:
1983, 1991 NESTS IN COTTONWOODS. SURROUNDED BY TOMATO FIELDS IN '91. E SIDE: NESTS IN COTTONWOODS; SURROUNDED BY FALLOW/RUDERAL TO THE SW, ROW CROPS TO NW & E (2000). W SIDE: 2007 NEST IN ROADSIDE VALLEY OAK SURROUNDED BY IRRIGATED CROPS.

Threats:
2000 SURVEYORS NOTED THREAT FROM ENCROACHMENT BY RESIDENTIAL DEVELOPMENT ALONG RIVERBANK.

General:
NESTING PAIR OBSERVED IN 1983. 0 OBSERVED, 1984. 2 SOARING, 1985. ACTIVE NEST, 1987. NEST FAILED, 1991. 0 OBSERVED 1992-1993. 2 PARTIALLY-FEATHERED CHICKS IN NEST, 30 JUN 2000. NEST WITH 1 YOUNG OBSERVED IN 2007.

PLSS: T09N, R04E, Sec. 29 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4274347 E625301	Latitude/Longitude: 38.60879 / -121.56088	Elevation (feet): 20

County Summary: Sacramento, Yolo	Quad Summary: Sacramento West (3812155)
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- Sources:**
- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
 - DFG84U0003 CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
 - DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
 - DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
 - EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
 - HOL00F0076 HOLT, W. & C. SWOLGAARD - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2000-06-30
 - WIL91F0002 LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	10979	EO Index:	27095
Key Quad:	Taylor Monument (3812165)	Element Code:	ABNKC19070
Occurrence Number:	205	Occurrence Last Updated:	2013-03-25

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	1994-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1994-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
SACRAMENTO RIVER, RM-70.1, 0.25 MILES SOUTH OF I-5, ALONG GARDEN HIGHWAY.

Detailed Location:
TERRITORIES YO055 & "YO" (NO # ASSIGNED TO 1994 DETECTION) FROM CDFW DATABASE.

Ecological:
NEST TREE WAS A COTTONWOOD SURROUNDED BY GOOD RIPARIAN VEGETATION.

Threats:

General:
2 ADULTS OBSERVED IN 1984; ONE FEEDING YOUNG IN THE NEST, THE OTHER PERCHED. FLYOVERS OBSERVED, BUT NO NEST DETECTED IN 1985, 1986, & 1992. 2 ADULTS & 1 JUVENILE OBSERVED AT THE NEST IN 1994.

PLSS:	T09N, R03E, Sec. 02 (M)	Accuracy:	1/10 mile	Area (acres):	0
UTM:	Zone-10 N4281003 E620121	Latitude/Longitude:	38.66947 / -121.61921	Elevation (feet):	20

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

Sources:

DFG84U0003 CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX

DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11233	EO Index: 27089
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 212	Occurrence Last Updated: 2013-02-25

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-05-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-05-19	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
CANAL FOLLOWING RR TRACKS ON E SIDE OF THE SACRAMENTO RIVER, ABOUT 0.9 MILES SSE OF SCRIBNER RD AT SOUTH RIVER ROAD.

Detailed Location:
JUST NORTHWEST OF STONE LAKE. MAPPED TO 2003 SITE FROM CDFW NEST RECORDS AND FROM 2009 DWR NEST RECORD.

Ecological:
1984: SURROUNDING HABITAT RIPARIAN/AGRICULTURAL. 1985: "LITTLE RIPARIAN LEFT IN THIS AREA." 2003: NEST IN 50' VALLEY OAK WITH PASTURE TO THE EAST AND RIPARIAN TO THE WEST (NORTH POLY). 2009: HABITAT DESCRIBED AS RIPARIAN TREE (SOUTH POLY).

Threats:
General:
1984: 2 ADULTS OBSERVED PERCHED TOGETHER; NO NEST FOUND. 1985, 1986: 1 ADULT OBS SOARING, NEST NOT FOUND. ADULT MALE OBS RETRIEVING FOOD TO UNSEEN NEST ON 10 JUN 2003; NEST SUCCESS UNKNOWN. 2009: 2 NESTING SWAINSON'S HAWKS OBS ON 19 MAY.

PLSS: T06N, R04E, Sec. 02 (M)	Accuracy: nonspecific area	Area (acres): 87
UTM: Zone-10 N4250963 E630281	Latitude/Longitude: 38.39741 / -121.50806	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Florin (3812144), Clarksburg (3812145)
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Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
DWR11D0001	CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11192	EO Index: 27084	
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070	
Occurrence Number: 218	Occurrence Last Updated: 2013-01-24	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER AT RM 43.2(R), ON THE NORTH SIDE OF PUMPHOUSE RD (RD 39), 1 MILE NORTH OF CLARKSBURG.

Detailed Location:
TERRITORIES #YO056 & "YO" (NO # ASSIGNED) FROM CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS. NEST SITE(S) FROM 1985-94 ABOUT 0.5 MILES N OF ORIGINAL NEST TREE. SITE YO-93 FROM ESTEP 2008 LOCATED ALONG RD 39.

Ecological:
1984-94: NEST(S) IN COTTONWOOD IN CW-DOMINATED RIPARIAN WITHIN CROPLAND. 1985-86: HABITAT "POOR...RIP-RAP ACTIVITY ALL AROUND [NEST TREE]." 2007: NEST TREE NOT DIRECTLY OBS; TERRITORY IN RIPARIAN WITHIN ALFALFA/VINEYARDS/IRRIGATED CROPS.

Threats:
General:
1984: NEST WITH 1 YOUNG OBSERVED. 1985: NEST FLEDGED 1 YOUNG. 1986: NO SWHA OBS. 1987: 1 ADULT OBS SOARING. 1988: NEST FLEDGED 1. 1994: NEST FLEDGED 2. 2007: NESTING TERRITORY DETECTED, NESTING OUTCOME UNKNOWN/UNCONFIRMED.

PLSS: T07N, R04E, Sec. 27 (M)	Accuracy: nonspecific area	Area (acres): 162
UTM: Zone-10 N4255158 E628277	Latitude/Longitude: 38.43549 / -121.53024	Elevation (feet): 10

County Summary: Sacramento, Yolo	Quad Summary: Clarksburg (3812145)
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Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
EST88F0041	ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1988-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11626	EO Index: 27048
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 262	Occurrence Last Updated: 2013-05-28

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1992-07-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-07-10	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG DEER CREEK, ABOUT 1 MILE SE OF GRANT LINE ROAD AT ELK GROVE BLVD, SE OF ELK GROVE.

Detailed Location:
TERRITORY #SA037 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. 1992 DETECTIONS IN VICINITY; UNKNOWN IF NEST(S) FOUND.

Ecological:
SURROUNDING HABITAT WAS RIPARIAN, AGRICULTURAL FIELDS, PASTURE, GRASSLAND, AND URBAN DEVELOPMENT.

Threats:
General:
2 DARK PHASE ADULTS OBSERVED, BUT NO NEST FOUND IN 1984. 1 ADULT OBSERVED IN 1985. NO NESTS OR HAWKS SEEN IN 1986. 2 ADULTS & 1 JUVENILE OBSERVED AT NEST IN 1987. 2 DETECTIONS OF BREEDING PAIRS IN 1992; NEST OUTCOME UNKNOWN.

PLSS: T06N, R06E, Sec. 03 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4251257 E647364	Latitude/Longitude: 38.39740 / -121.31245	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
SCH92F0071	SCHNEIDER, ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1992-07-10
SCH92F0073	SCHNEIDER, ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1992-07-10



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11256	EO Index: 27027	
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070	
Occurrence Number: 287	Occurrence Last Updated: 2013-06-07	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1992-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-XX-XX	Occurrence Rank: Fair
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
DISCOVERY PARK, ON THE SACRAMENTO RIVER AT RM-60.5(L), SACRAMENTO.

Detailed Location:
VICINITY OF TERRITORIES #SA016 (PART- SEE ALSO EO #635), "SA" (NO # ASSIGNED), AND YO215 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE.

Ecological:
NEST TREES WERE COTTONWOODS. 1991 NEST IN A MEDIUM-SIZED COTTONWOOD, 40 FEET FROM THE RIVER; SURROUNDING FORAGING HABITAT CONSISTED OF GRASSY, WEEDY FIELDS (NO CROPS).

Threats:
POSSIBLE THREAT FROM DISTURBANCE ACROSS THE RIVER FROM MAJOR LAND DEVELOPMENT/CONSTRUCTION.

General:
1 FLEDGED IN 1974. NEST WITH 2 YOUNG OBSERVED ON 19 JUN 1981. SOARING SWHA OBS 1983. POSSIBLE NEST 1985. 1-2 PAIRS NESTED IN 1990; 2 YOUNG CONFIRMED FLEDGED. 1 FLEDGED IN 1991. NEST WITH PAIR & 1 YOUNG OBS IN 1992.

PLSS: T09N, R04E, Sec. 26 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4273726 E629627	Latitude/Longitude: 38.60257 / -121.51133	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Sacramento West (3812155)
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- Sources:**
- DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
 - DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
 - EIP92R0001 EIP ASSOCIATES & SACRAMENTO AREA FLOOD CONTROL AGENCY - EXCERPT FROM DRAFT SWAINSON'S HAWK AND GIANT GARTER SNAKE HABITAT CONSERVATION PLAN. 1992-XX-XX
 - LEV90F0007 LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
 - LEV91F0006 LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
 - VIN74R0001 VINCENTY, J.A. - A STUDY OF FACTORS AFFECTING NESTING RAPTOR POPULATIONS IN URBAN AREAS, SACRAMENTO COUNTY, CALIFORNIA. (WMB ADM RPT., NO.74-5) 1974-08-XX
 - WIL90F0011 WILKINSON, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-05-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	21028	EO Index:	10033
Key Quad:	Florin (3812144)	Element Code:	ABNKC19070
Occurrence Number:	312	Occurrence Last Updated:	1992-04-22

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	1990-07-02	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1990-07-02	Occurrence Rank:	Fair
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG BIGHORN ROAD, 0.3 MI NORTH OF ELK GROVE BLVD AND 0.5 MI WEST OF HWY 99, 1.5 MI WEST OF ELK GROVE.

Detailed Location:
 BIRDS WERE FIRST OBSERVED USING SNAGS ADJACENT TO BIGHORN ROAD, LATER NESTING IN VALLEY OAKS BEHIND SNAGS. AFTER YOUNG FLEDGED, THE BIRDS RANGED NORTH OVER FIELDS NEAR THE MARSH ON ELK GROVE CREEK.

Ecological:
 HABITAT SURROUNDING NEST TREE AND NEARBY SNAGS IS OPEN GRASSLAND.

Threats:
 THREATENED BY PROPOSED DEVELOPMENT.

General:
 THE PAIR OF HAWKS WAS OBSERVED FROM 20 APRIL THROUGH 2 JULY 1990, THROUGH THEIR BREEDING PERIOD. AT LEAST ONE YOUNG FLEDGED, AFTER WHICH THEY MOVED TO SOME TREES ON STOCKTON BLVD, NORTH OF DUNISCH ROAD.

PLSS: T07N, R05E, Sec. 35 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4252860 E639779	Latitude/Longitude: 38.41306 / -121.39896	Elevation (feet): 30

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 HAR90F0002 HARVEY, D. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-07-02



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 21061	EO Index: 7565
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070
Occurrence Number: 320	Occurrence Last Updated: 2013-03-25

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Good
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM68.45(L), ABOUT 1.4 MILES WEST OF POWERLINE RD ALONG GARDEN HWY & ACROSS RIVER, NW OF SACRAMENTO.

Detailed Location:
VICINITY OF TERRITORIES #YO214 & SA068 FROM CDFW DATABASE. MOST DETECTIONS ON W SIDE OF RIVER. MAPPED TO SITE YO-105 FROM ESTEP'S 2007 REPORT (W SIDE POLYGON) AND 1990 DETECTION LOCATION FROM FIELD SURVEY FORM (E SIDE POLYGON).

Ecological:
NEST TREES WERE COTTONWOODS IN RIPARIAN HABITAT; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURE (ORCHARDS, WHEAT, TOMATOES IN 1991). NEST IN RIPARIAN COTTONWOOD SURROUNDED BY IRRIGATED CROPS IN 2007.

Threats:
POTENTIALLY THREATENED BY THE SACRAMENTO AREA LEVEE RECONSTRUCTION PROJECT (1990).

General:
2 NESTS IN 1990, ON BOTH SIDES OF RIVER; OUTCOMES UNKNOWN. PAIR HATCHED 2 CHICKS THAT DIED BEFORE FLEDGING IN 1991. ACTIVE NEST PRODUCED 0 YOUNG, 1992. INACTIVE, 1993. NEST WITH 2 YOUNG OBSERVED DURING 2007 SURVEY; FLEDGING SUCCESS UNKNOWN.

PLSS: T09N, R03E, Sec. 12 (M)	Accuracy: nonspecific area	Area (acres): 22
UTM: Zone-10 N4278729 E621804	Latitude/Longitude: 38.64875 / -121.60027	Elevation (feet): 20

County Summary: Sacramento, Yolo	Quad Summary: Taylor Monument (3812165)
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Sources:

DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
LEV91F0018	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
WIL90F0004	WILKINSON, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-05-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 21062	EO Index: 7534	
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070	
Occurrence Number: 321	Occurrence Last Updated: 2013-03-26	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2002-04-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-04-19	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM66.2(L), ABOUT 0.6 MILES SE OF GARDEN HWY AT POWER LINE RD AND 1 MILE NW OF KCRA RADIO/TV TOWERS.

Detailed Location:
TERRITORY #SA067 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. 1990 DETECTION WAS ON WEST SIDE OF RIVER. MAPPED TO COORDINATES FROM CDFW NEST RECORDS, 2000-2004.

Ecological:
1991 NEST TREE WAS A TALL COTTONWOOD WITHIN COTTONWOOD RIPARIAN HABITAT; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURE (TOMATOES, WHEAT) AND FALLOW FIELDS.

Threats:
General:
2 ADULTS OBSERVED SOARING IN 1990; PRESUMED NESTING. 3 HATCHLINGS PRODUCED IN 1991; DIED PRIOR TO FLEDGING. 2 ADULTS OBS AT NEST WITH 3 JUVENILES IN 1993. 2 FLEDGED IN 1994. ACTIVE NEST OBS ON 19 APR 2002, BUT NO SWHA SEEN AFTER 17 JUN.

PLSS: T09N, R04E, Sec. 08 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4278509 E624730	Latitude/Longitude: 38.64636 / -121.56670	Elevation (feet): 20

County Summary: Sacramento, Yolo	Quad Summary: Taylor Monument (3812165)
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- Sources:**
- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
 - DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
 - DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
 - LEV91F0016 LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
 - MOR93F0016 MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15
 - WIL90F0005 WILKINSON, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-05-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 21063	EO Index: 18953
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070
Occurrence Number: 322	Occurrence Last Updated: 2013-03-26

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM-65.8, ABOUT 2 MILES WSW OF THE DEL PASO ROAD INTERSECTION WITH I-5, SACRAMENTO.

Detailed Location:
3 NEST SITES. S SITE: TERRITORY #YO167 FROM CDFW DATABASE. NE SITE: MAPPED TO 1992 MAP. NW SITE: MAPPED TO COORDINATES GIVEN FOR SITE YO-104 IN ESTEP'S 2008 REPORT.

Ecological:
S SITE: NESTS IN TALL TO MEDIUM-SIZED OAKS 200-300' FEET FROM THE RIVER, IN RIPARIAN HABITAT SURROUNDED BY AGRICULTURE (ROTATION OF 24 CROP TYPES). NE: NEST IN FREMONT COTTONWOOD. NW: NEST IN COTTONWOOD SURROUNDED BY IRRIGATED CROPS.

Threats:
1990 SURVEYOR CITED DISTURBANCE FROM VEHICLES & NEARBY RESIDENCES, SACRAMENTO URBAN AREA LEVEE RECONSTRUCTION PROJECT.

General:
S: NESTING PAIR IN APR 1990; 1 FLEDGLING WITH ADULTS IN AUG 1990. PAIR WITH 2 FLEDGLINGS IN 1991. NO NEST FOUND IN 1993. NE: NESTING PAIR OBSERVED JUN 1992. NW: NEST WITH 2 YOUNG OBSERVED DURING 2007 SURVEY.

PLSS: T09N, R04E, Sec. 08 (M)	Accuracy: nonspecific area	Area (acres): 40
UTM: Zone-10 N4278044 E624792	Latitude/Longitude: 38.64216 / -121.56607	Elevation (feet): 20

County Summary: Sacramento, Yolo	Quad Summary: Taylor Monument (3812165)
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Sources:

DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
LEV90F0016	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-08-XX
LEV91F0015	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
RAI92F0003	RAINE, R. & E. RAINE - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1992-06-XX
WIL90F0006	WILKINSON, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-04-30



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 21064	EO Index: 7533
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070
Occurrence Number: 323	Occurrence Last Updated: 2013-06-11

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Good
Owner/Manager: YOL COUNTY-ELKHORN REG PARK	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM 69.8 TO 69.4, ABOUT 1 MI SE OF THE I-5 BRIDGE & 1.4 MILES SW OF I-5 AT AIRPORT BLVD, NEAR KIESEL.

Detailed Location:
VICINITY OF TERRITORIES YO169, YO170, YO171, & YO212 FROM CDFW DATABASE. 2007 DETECTIONS AT SITES YO-64, YO-108, & YO-117 FROM ESTEP'S 2008 REPORT. THE MAJORITY OF DETECTIONS REPORTED WERE WITHIN ELKHORN REGIONAL PARK, ON W SIDE OF RIVER.

Ecological:
NEST TREES WERE COTTONWOODS IN RIPARIAN HABITAT, SURROUNDED BY WHEAT & TOMATO FIELDS IN 1993. THE AREA SUPPORTED A LARGE EGRET/HERON ROOKERY OF OVER 155 NESTS IN 2010.

Threats:
POTENTIALLY THREATENED BY THE SACRAMENTO URBAN AREA LEVEE PROJECT (1990). DISTURBANCE FROM BOATS, CARS.

General:
1990: 3 NESTS; AT LEAST 1 FLEDGED. 1991: 3 NESTS; 1 FAILED, AT LEAST 2 FLEDGED. 1993: 3 NESTS; AT LEAST 3 YOUNG. 1994: 2 NESTS; 3 YOUNG. 2007: 3 NESTS; AT LEAST 2 YOUNG. 2010: 2 PERCHED ADULTS ON 2 MAY ROOKERY SURVEY; UNKNOWN IF NESTING.

PLSS: T09N, R03E, Sec. 02 (M)	Accuracy: nonspecific area	Area (acres): 56
UTM: Zone-10 N4280255 E620565	Latitude/Longitude: 38.66267 / -121.61424	Elevation (feet): 20

County Summary:	Quad Summary:
Sacramento, Yolo	Taylor Monument (3812165)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

ACO10F0001	ACORD, B. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-CALIFORNIA NATURAL DIVERSITY DATABASE) - FIELD SURVEY FORM FOR ARDEA HERODIAS & ARDEA ALBA 2010-05-02
DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
LEV91F0019	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
LEV91F0020	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
LEV91F0024	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
MOR93F0019	MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15
MOR93F0020	MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15
WIL90F0007	WILKINSON, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-04-17
WIL90F0008	WILKINSON, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-05-18
WIL90F0009	WILKINSON, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-04-30



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 21079	EO Index: 9026
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 326	Occurrence Last Updated: 2013-03-26

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1992-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-XX-XX	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM-64.5(L), 0.3 MI S OF SAN JUAN RD ALONG GARDEN HIGHWAY, 2.5 MILES W OF THE I-5/I-80 JUNCTION.

Detailed Location:
TERRITORY #SA066 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE.

Ecological:
1990/1991 NEST TREE WAS A TALL COTTONWOOD 20' FROM THE RIVER'S EDGE, IN RIPARIAN HABITAT SURROUNDED BY AGRICULTURAL FIELDS (BEETS/CORN/ORCHARDS IN 1990, CORN/FALLOW IN 1991).

Threats:
BOATING AND CROP-DUSTING DISTURBANCE, POTENTIAL THREAT FROM THE SACRAMENTO URBAN LEVEE RECONSTRUCTION PROJECT (1990).

General:
2 ADULTS OBSERVED NESTING IN 1990; NO YOUNG FLEDGED. PAIR FLEDGED 2 YOUNG IN 1991. NEST WITH 2 YOUNG OBSERVED IN 1992. NO SWAINSON'S HAWKS OBSERVED IN 1993.

PLSS: T09N, R04E, Sec. 20 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4275884 E625269	Latitude/Longitude: 38.62264 / -121.56097	Elevation (feet): 30

County Summary: Sacramento, Yolo	Quad Summary: Sacramento West (3812155)
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Sources:

DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
LEV90F0009	LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
LEV91F0008	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
WIL90F0002	WILKINSON, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-04-20
WIL90F0010	WILKINSON, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-04-19



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23631	EO Index: 23766
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070
Occurrence Number: 392	Occurrence Last Updated: 1999-10-26

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1994-06-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-06-12	Occurrence Rank: Good
Owner/Manager: RECLAMATION DISTRICT 1000	Trend: Stable
Presence: Presumed Extant	

Location:
NORTH END OF FISHERMANS LAKE, WHERE IT INTERSECTS DEL PASO ROAD, 1 MILE WEST OF EL CENTRO ROAD, NORTH OF SACRAMENTO.

Detailed Location:
TERRITORY #SA092 FROM CDFW DATABASE. NEST WAS LOCATED ON THE EAST SIDE OF FISHERMANS LAKE, 50 YARDS FROM DEL PASO ROAD, IN A 45-FT COTTONWOOD. SEVERAL ALTERNATE NESTS LOCATED IN THE AREA.

Ecological:
NEST TREE WAS A COTTONWOOD. HABITAT CONSISTED OF COTTONWOOD RIPARIAN FOREST, ADJACENT TO A DRAINAGE CANAL, SURROUNDED BY AGRICULTURAL FIELDS. THIS SITE ALSO SUPPORTED GIANT GARTER SNAKE.

Threats:
General:
2 ADULTS OBSERVED WITH 3 NESTLINGS IN 1993; WHICH WAS THEIR FOURTH CONSECUTIVE YEAR OF NESTING AT THIS SITE. 1 YOUNG FLEDGED IN 1994.

PLSS: T09N, R04E, Sec. 09 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4279319 E625584	Latitude/Longitude: 38.65354 / -121.55674	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
ENG92U0001	ENGLAND, A.S. - CORRESPONDENCE FROM SID ENGLAND TO BILL ZIEBRON DETAILING THE RESULTS OF THE 1992 NATOMAS BASIN SWAINSON'S HAWK NESTING SURVEY. 1992-08-31
RAI92F0001	RAINE, R. & E. RAINE - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1992-06-26
YOR93F0005	YORK, R. & D. ANDERSON (CALIFORNIA ENERGY COMMISSION) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) WITH INCIDENTAL SIGHTING OF GIANT GARTER SNAKE. 1993-06-02



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	21418	EO Index:	19481
Key Quad:	Taylor Monument (3812165)	Element Code:	ABNKC19070
Occurrence Number:	393	Occurrence Last Updated:	1992-06-29

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	1992-06-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1992-06-XX	Occurrence Rank:	Excellent
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
SOUTH END OF FISHERMANS LAKE, 1 MILE SW OF THE INTERSECTION OF EL CENTRO ROAD & DEL PASO ROAD, 7 MI NORTH OF SACRAMENTO.

Detailed Location:
NEST WAS LOCATED IN A 35-FT COTTONWOOD, ON THE EAST SIDE OF FISHERMANS LAKE.

Ecological:
NEST TREE WAS A POPULUS FREMONTII, ADJACENT TO A DRAINAGE CANAL; SURROUNDING HABITAT WAS AGRICULTURE.

Threats:

General:
TWO ADULTS OBSERVED IN 1992; FIRST YEAR OF NESTING AT THIS LOCATION.

PLSS: T09N, R04E, Sec. 09 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4278205 E625997	Latitude/Longitude: 38.64345 / -121.55220	Elevation (feet): 15

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

Sources:
RAI92F0002 RAIN, R. & E. RAINE - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1992-06-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 21806	EO Index: 8363
Key Quad: Florin (3812144)	Element Code: ABNKC19070
Occurrence Number: 395	Occurrence Last Updated: 1999-10-07

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 1992-07-16	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-07-16	Occurrence Rank: Excellent
Owner/Manager: PVT-BEACH LAKE PROPERTIES	Trend: Unknown
Presence: Presumed Extant	

Location:
EAST BANK OF SACRAMENTO RIVER, 1 MILE SOUTH OF FREEPORT.

Detailed Location:
NEST TREE IS LOCATED ON THE EAST SIDE OF THE LEVEE IN AN ISOLATED STAND OF TREES ALONG THE ACCESS ROAD TO BEACH LAKE.

Ecological:
NEST TREE IS A VALLEY OAK (QUERCUS LOBATA); ADJACENT AGRICULTURAL FIELDS INCLUDE SAFFLOWER AND ALFALFA.

Threats:
POSSIBLE THREAT FROM INCREASED FOOT TRAFFIC/HUMAN DISTURBANCE IF PROPOSED NATURE CENTER IS BUILT.

General:
DFG SWHA #SA044. 1 ADULT/1 JUVENILE OBSERVED ON NEST ON 16 JUL 1992; 2 ADULTS PRESENT ON 20 JUL 1992.

PLSS: T07N, R04E, Sec. 24 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4255987 E630949	Latitude/Longitude: 38.44257 / -121.49948	Elevation (feet): 10

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
NOS92F0002	NOSAL, T. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1992-07-16



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23086
Key Quad: Davis (3812156)
Occurrence Number: 413

EO Index: 7586
Element Code: ABNKC19070
Occurrence Last Updated: 2013-01-29

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-04-27
Last Survey Date: 2009-04-27
Owner/Manager: PVT, DFG, CITY OF DAVIS
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

SOUTH FORK PUTAH CREEK, FROM COUNTY RD 106A CROSSING TO ABOUT 0.7 MILES NE OF EAST END OF RD 34A; ESE OF DAVIS.

Detailed Location:

TERRITORIES #YO258, YO161 & YO162 FROM CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS. MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 NEST RECORDS, AND SITES YO-223, 252, 253, 254 & 255 FROM ESTEP (2008).

Ecological:

MANY NEST TREES IN THIS AREA. NESTS WERE FOUND IN COTTONWOODS (AND ONE WILLOW) WITHIN A RIPARIAN CORRIDOR SURROUNDED BY ROW CROPS.

Threats:

General:

2 ACTIVE NESTS IN 1988. 1 ACTIVE NEST, 1993. 3 ACTIVE NESTS/5 YOUNG(Y) IN '94. 5 NESTS/5Y, 2002. 5 NESTS/7Y & 1 ABANDONED NEST OBS '03. 9 ACTIVE NESTS/6 PRODUCTIVE/10Y, '04. 5 NESTS/5Y, '07. SWHA PERCHED NEAR NEST 27 APR '09.

PLSS: T08N, R03E, Sec. 27 (M)	Accuracy: specific area	Area (acres): 94
UTM: Zone-10 N4263824 E618924	Latitude/Longitude: 38.51486 / -121.63590	Elevation (feet): 20

County Summary:

Yolo

Quad Summary:

Sacramento West (3812155), Davis (3812156)

Sources:

- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
- DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX
- DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
- DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
- EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
- EST88F0012 ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1988-XX-XX
- EST88F0013 ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1988-XX-XX
- EST92F0012 ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1992-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23024	EO Index: 27192
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 498	Occurrence Last Updated: 2013-04-09

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern
CNDDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2010-03-29	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-03-29	Occurrence Rank: Good
Owner/Manager: PVT-UNION PACIFIC RR	Trend: Unknown
Presence: Presumed Extant	

Location:
0.4 MILE NORTH OF I-80, 0.5 MILE NW OF THE I-80/HIGHWAY 50 JUNCTION, WEST SACRAMENTO.

Detailed Location:
VICINITY OF TERRITORIES #YO160 & YO (NO # ASSIGNED) FROM CDFW DATABASE. MAPPED TO PROVIDED COORDINATES, WHICH INCLUDES ESTEP (2008) SITES YO-32 & 78.

Ecological:
MULTIPLE NEST SITES, PRIMARILY IN LARGE COTTONWOODS (& 1 VALLEY OAK IN 2003), WITHIN WELL-DEVELOPED RIPARIAN HABITAT AROUND THE CANALS & RAILROAD TRACKS. ADJACENT TO YOLO BYPASS FLOOD-CONTROL FACILITY, URBAN DEVELOPMENT, & CROPLAND TO WEST.

Threats:
General:
1 SWHA SOARING NEAR NEST, 1988. NEST WITH 2 YOUNG, 1994. NEST WITH PAIR & 3 YOUNG, 1999. NEST WITH PAIR & 3 YOUNG (BANDED), 2001. 3-4 NESTS EACH WITH 1 YOUNG (AT LEAST 1 FLEDGED), 2003. 2 ACTIVE NESTS, 2007. PAIR BUILDING NEST, 2010.

PLSS: T09N, R04E, Sec. 32 (M)	Accuracy: specific area	Area (acres): 34
UTM: Zone-10 N4271208 E624478	Latitude/Longitude: 38.58063 / -121.57089	Elevation (feet): 10

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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- Sources:**
- BRA01F0014 BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2001-06-22
 - BRA99F0001 BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1999-06-04
 - DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
 - DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
 - DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
 - EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
 - EST88F0040 ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1988-04-07
 - NAV10F0001 NAVICKY, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2010-03-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23018	EO Index: 13259
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 499	Occurrence Last Updated: 2013-04-05

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2002-04-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-04-19	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM-52.7(L), BETWEEN CLAY BANK BEND AND OAK HALL BEND, ABOUT 1 MI W OF I-5 AT 43RD AVE, SACRAMENTO.

Detailed Location:
VICINITY OF TERRITORY #SA054 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. MAPPED TO COORDINATES GIVEN FOR CDFW NEST RECORD FROM 2002.

Ecological:
1990-91 NEST TREE WAS A COTTONWOOD 25 FT FROM THE RIVER WITH SURROUNDING FORAGING HABITAT CONSISTING OF AGRICULTURAL FIELDS (ALFALFA & WHEAT), YOLO CO SIDE. 2002 NEST TREE WAS A 55' COTTONWOOD WITH CROPS NE, RESIDENTIAL S, ORCHARDS NW.

Threats:
1991 SURVEYOR CITED THREATS FROM DEVELOPMENT OF FORAGING HABITAT & HIGH DISTURBANCE (PEDESTRIAN/BIKE TRAFFIC) NEAR SITE.

General:
ONE BIRD OBSERVED SOARING AT THIS SITE IN 1986; NO NEST FOUND. TWO ADULTS OBS NESTING IN 1990 AND 1991; NO YOUNG PRODUCED. A NON-BREEDING PAIR OBS IN AREA IN 1993. ACTIVE NEST OBS ON 19 APR 2002, BUT SWHA NOT SEEN AFTER 9 MAY.

PLSS: T08N, R04E, Sec. 28 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4264024 E627176	Latitude/Longitude: 38.51552 / -121.54123	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Sacramento West (3812155)
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- Sources:**
- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
 - DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
 - DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
 - LEV90F0001 LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
 - LEV91F0001 LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
 - MAI90F0001 MAIER, L. - FIELD SURVEY FORM FOR 12 BUTEO SWAINSONI NEST SITES ALONG THE SACRAMENTO RIVER. 1990-XX-XX
 - MAI90F0004 MAIER, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-05-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23019	EO Index: 20415
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 500	Occurrence Last Updated: 2013-04-05

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2003-07-16	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-07-16	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
W SIDE OF THE SACRAMENTO RIVER (RM55.1), ALONG S RIVER RD ABOUT 0.6 MI S OF LINDEN RD, JUST UPSTREAM FROM CHICORY BEND.

Detailed Location:
VICINITY OF TERRITORIES #YO202/SA087; NUMBER OF CONCURRENTLY ACTIVE NESTS UNCLEAR DUE TO MULTIPLE OBSERVERS IN 1990-1991. MAPPED TO COORDINATES GIVEN FOR CDFW NEST RECORD FROM 2003.

Ecological:
1990 & 1991 NEST TREE WAS A TALL COTTONWOOD; SURROUNDING FORAGING HABITAT CONSISTED OF ROW CROPS.

Threats:
1991 SURVEYORS NOTED VARIOUS DISTURBANCES (TREE CLEARING ACTIVITIES, MARINA OPERATIONS). DEVELOPMENT.

General:
1-2 ACTIVE NESTS FLEDGED 1-3 YOUNG IN 1990. 1 OR 2 NESTS ACTIVE 1991; NO YOUNG OBSERVED. NESTING PAIR, BUT NO YOUNG SEEN IN 1992. NO HAWKS OR NEST SEEN IN 1993. NEST WITH 1 FULLY-FEATHERED YOUNG BEING FED BY ADULT OBSERVED ON 16 JUL 2003.

PLSS: T08N, R04E, Sec. 22 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4266169 E628697	Latitude/Longitude: 38.53463 / -121.52340	Elevation (feet): 20

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
LEV90F0002	LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
LEV91F0002	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23020	EO Index: 20410
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 501	Occurrence Last Updated: 2013-06-19

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern
CNDDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1994-08-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-08-11	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM 55.9 - 56.6, BETWEEN LINDEN RD AND VALLEJO WY, ABOUT 1 MI S OF MILLER PARK IN SACRAMENTO.

Detailed Location:
THREE POLYGONS, FROM NORTH: 1) TERRITORY #YO205 (PART)/SA088 AT RM56.6 ON BOTH SIDES OF RIVER. 2) TERRITORY #YO205 (PART)/YO204, ABOUT 450 M BACK FROM RIVER AT RM56.3R. 3) TERRITORY #YO203, AT RM55.9R.

Ecological:
1) NESTS IN LONE OAKS. 2) NEST IN SMALL OAK ABOUT 1200' BACK FROM RIVER, SURROUNDED BY FALLOW FIELDS. 3) NEST IN MEDIUM-SIZED WALNUT TREE; SURROUNDED BY FALLOW FIELDS, ROW CROPS, & WHEAT FIELDS. AERIALS SHOW DEVELOPMENT ON W SIDE POST-1993.

Threats:
POSSIBLE AGRICULTURAL THREAT: WHEAT FIELDS WERE SPRAYED & HARVESTED DURING BREEDING SEASON (1990). DEVELOPMENT.

General:
1) ACTIVE NESTS PRODUCED 1 YOUNG IN 1990 & 1991. NEST ABANDONED BY END OF APR IN 1993. 1 FLEDGED IN 1994. 2) NON-BREEDING PAIR ACTIVE AT NEST IN 1991. PAIR PRODUCED 2 YOUNG IN 1993. 2 FLEDGED IN 1994. 3) 1 FLEDGED IN 1990.

PLSS: T08N, R04E, Sec. 14 (M)	Accuracy: nonspecific area	Area (acres): 157
UTM: Zone-10 N4267035 E629591	Latitude/Longitude: 38.54230 / -121.51298	Elevation (feet): 20

County Summary: Sacramento, Yolo	Quad Summary: Sacramento West (3812155)
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Sources:

DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
LEV90F0003	LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
LEV90F0004	LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
LEV91F0003	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
LEV91F0004	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
MAI90F0001	MAIER, L. - FIELD SURVEY FORM FOR 12 BUTEO SWAINSONI NEST SITES ALONG THE SACRAMENTO RIVER. 1990-XX-XX
MAI90F0005	MAIER, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
MAI90F0006	MAIER, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
MOR93F0011	MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23023	EO Index: 14240
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 504	Occurrence Last Updated: 2013-04-04

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1994-08-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-08-11	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM-57.6(R), 0.3 MILES WEST OF JEFFERSON BLVD AT 19TH ST, JUST N OF THE BARGE CANAL, WEST SACRAMENTO.

Detailed Location:
TERRITORY #YQ206 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE.

Ecological:
1990 NEST TREE WAS A MEDIUM-SIZED COTTONWOOD; SURROUNDING FORAGING HABITAT CONSISTED OF FALLOW FIELDS AND ROW CROPS, THOUGH THE IMMEDIATE AREA APPEARS TO BE INDUSTRIAL.

Threats:
THREATENED BY THE HIGH DEGREE OF DISTURBANCE AT THIS SITE (1990).

General:
TWO ADULTS FLEDGED ONE YOUNG IN 1990. NO NEST OR HAWKS SEEN IN 1993. 1 FLEDGED IN 1994.

PLSS: T08N, R04E, Sec. 10 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4269420 E628760	Latitude/Longitude: 38.56391 / -121.52208	Elevation (feet): 35

County Summary: Sacramento, Yolo	Quad Summary: Sacramento West (3812155)
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Sources:

DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
LEV90F0005	LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
MAI90F0001	MAIER, L. - FIELD SURVEY FORM FOR 12 BUTEO SWAINSONI NEST SITES ALONG THE SACRAMENTO RIVER. 1990-XX-XX
MAI90F0007	MAIER, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23234	EO Index: 7587
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 508	Occurrence Last Updated: 2013-02-12

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM 47.5-47.2(R), VICINITY OF FREEPORT BEND, SACRAMENTO.

Detailed Location:
1986-1990: TERRITORY #YO198 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. 2007: MAPPED TO SITE YO-88 FROM 2008 ESTEP REPORT.

Ecological:
1986-90 NEST IN LARGE COTTONWOOD 15' FROM THE RIVER; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURAL FIELDS (ALFALFA, SAFFLOWER, WHEAT). 2007: NEST IN COTTONWOOD; SURROUNDINGS INCLUDED ALFALFA, IRRIGATED CROPLAND, AND VINEYARDS.

Threats:

General:
NEST WITH ONE YOUNG OBSERVED IN 1986. NEST WITH ONE ADULT & TWO YOUNG OBS IN 1987. 3 FLEDGED IN 1988. PAIR OBSERVED NESTING, BUT NO YOUNG FLEDGED IN 1990. POSSIBLE BREEDING PAIR OBS IN 1991. NEST WITH TWO YOUNG OBS DURING 2007 SURVEY.

PLSS: T07N, R04E, Sec. 11 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4259235 E629874	Latitude/Longitude: 38.47199 / -121.51119	Elevation (feet): 20

County Summary: Sacramento, Yolo	Quad Summary: Clarksburg (3812145)
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Sources:

DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
LEV90F0010	LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-XX-XX
LEV91F0009	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 23233	EO Index: 7588
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 509	Occurrence Last Updated: 2013-01-08

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 1994-06-30	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-06-30	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM 48.55-48.8(R), ABOUT 1.5 MILES EAST OF FREEPORT BEND, SACRAMENTO.

Detailed Location:
TERRITORY #YO199 FROM CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS. LOCATIONS GIVEN "RM 48.8R" (1990) & "RM 48.55R" (1991, '93, '94). FIELD SURVEY FORMS FOR 1990, 1991 DETECTIONS GIVE SIMILAR INFORMATION.

Ecological:
1990: NEST IN SMALL LOCUST. 1991: NEST IN LARGE OAK TREE WITHIN A GROUP OF 3 ISOLATED TREES IN A FARMYARD. SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURAL FIELDS (TOMATOES AND WHEAT). SAME NEST TREE MAY HAVE BEEN USED IN 1993 & 1994.

Threats:

General:
ADULT SWHA, BUT NO NESTS OBSERVED 1981-82. 1990: ACTIVE NEST OBSERVED 8 AUG; NO YOUNG FLEDGED. 1991: NEST HATCHED 2 YOUNG, FLEDGED 1. 1993: ACTIVE NEST OBSERVED, NEST FAILED. 1994: ACTIVE NEST FAILED BEFORE HATCHING.

PLSS: T07N, R04E, Sec. 10 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4259279 E627886	Latitude/Longitude: 38.47267 / -121.53396	Elevation (feet): 10

County Summary:	Quad Summary:
Sacramento, Yolo	Clarksburg (3812145)

Sources:

DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
LEV90F0012	LEVY, C. ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-08-XX
LEV91F0010	LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23562	EO Index: 7532
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070
Occurrence Number: 513	Occurrence Last Updated: 2013-03-22

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2003-07-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-07-11	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG BOTH SIDES OF THE SACRAMENTO RIVER RM74, AT THE GARDEN HWY/ELVERTA RD JUNCTION, NW OF THE SACRAMENTO INTL AIRPORT.

Detailed Location:
TWO NESTING SITES REPRESENTED. SW SITE: TERRITORIES #YO226 & SA015 (PART- SEE ALSO EO#133) FROM CDFW DATABASE/LOC FROM FIELD SURVEY FORMS; AT RM74. NE SITE: MAPPED TO COORDINATES GIVEN FOR CDFW NEST RECORD FROM 2003.

Ecological:
SW SITE: NESTS IN TALL COTTONWOODS IN NARROW RIPARIAN STRIP; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURE (WALNUTS, CORN, WHEAT) AND FALLOW FIELDS IN 1991. NE SITE: NEST IN 50' COTTONWOOD WITH CROPLAND TO EAST, RIPARIAN TO WEST.

Threats:

General:
SW SITE: ACTIVE IN 1987, BUT OUTCOME UNKNOWN; 2 FLEDGED IN 1991; ACTIVE, BUT 0 YOUNG OBSERVED IN 1992; 1 OF 2 YOUNG FLEDGED IN 1993; 1 FLEDGED IN 1994. NE SITE: NEST WITH 1 FEATHERED YOUNG OBSERVED ON 11 JUL 2003.

PLSS: T10N, R03E, Sec. 13 (M)	Accuracy: nonspecific area	Area (acres): 22
UTM: Zone-10 N4286320 E621230	Latitude/Longitude: 38.71722 / -121.60554	Elevation (feet): 20

County Summary: Sacramento, Yolo	Quad Summary: Taylor Monument (3812165)
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- Sources:**
- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
 - DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
 - DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
 - LEV91F0021 LEVY, C. & C. WILKINSON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1991-XX-XX
 - MOR93F0021 MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	21395	EO Index:	23769
Key Quad:	Taylor Monument (3812165)	Element Code:	ABNKC19070
Occurrence Number:	594	Occurrence Last Updated:	2013-03-22

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2002-04-22	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-06-17	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG RESERVOIR RD JUST E OF GARDEN HWY, BETWEEN THE ELKHORN PUMP STATION & SACRAMENTO INTERNATIONAL AIRPORT.

Detailed Location:
 2 NEST SITES. E SITE MAPPED TO DESCRIPTION FROM 1992 NATOMAS BASIN REPORT, IN "RIPARIAN CORRIDOR [ALONG] RESERVOIR RD...APPROX. 200 YDS WEST OF THE AIRPORT BOUNDARY FENCE." W SITE MAPPED TO COORDINATES FROM CDFW NEST RECORDS 2000-2004.

Ecological:
 NEST TREES LOCATED WITHIN A RIPARIAN CORRIDOR. 2002 NEST WAS IN A 45' COTTONWOOD. AERIAL PHOTOS INDICATE SOME CLEARING OF RIPARIAN VEGETATION IN THE VICINITY OF THE NEST SITES OCCURRED AFTER 2010.

Threats:
General:
 1 YOUNG FLEDGED IN 1992. ACTIVE NEST OBSERVED 22 APR 2002; BUT NO ACTIVITY OBSERVED ON OR AFTER 17 JUN.

PLSS: T10N, R03E, Sec. 25 (M)	Accuracy: nonspecific area	Area (acres):	22
UTM: Zone-10 N4284175 E621218	Latitude/Longitude: 38.69790 / -121.60604	Elevation (feet):	20

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
ENG92U0001	ENGLAND, A.S. - CORRESPONDENCE FROM SID ENGLAND TO BILL ZIEBRON DETAILING THE RESULTS OF THE 1992 NATOMAS BASIN SWAINSON'S HAWK NESTING SURVEY. 1992-08-31



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	23629	EO Index:	20518
Key Quad:	Sacramento West (3812155)	Element Code:	ABNKC19070
Occurrence Number:	595	Occurrence Last Updated:	1996-01-03

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	1992-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1992-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
0.25 MILES WEST OF EL CENTRO ROAD AND 0.25 MILES SOUTH OF SAN JUAN ROAD, 2 MILES NORTH OF BRYTE.

Detailed Location:
MAPPED TO LOCATION DESCRIPTION FROM 1992 ENGLAND REPORT.

Ecological:
NEST TREE WAS A COTTONWOOD, LOCATED ALONG A SMALL DRAINAGE CANAL.

Threats:
General:
1 YOUNG FLEDGED IN 1992.

PLSS:	T09N, R04E, Sec. 21 (M)	Accuracy:	1/5 mile	Area (acres):	0
UTM:	Zone-10 N4276010 E626741	Latitude/Longitude:	38.62357 / -121.54405	Elevation (feet):	10

County Summary:	Quad Summary:
Sacramento	Sacramento West (3812155), Taylor Monument (3812165)

Sources:
ENG92U0001 ENGLAND, A.S. - CORRESPONDENCE FROM SID ENGLAND TO BILL ZIEBRON DETAILING THE RESULTS OF THE 1992 NATOMAS BASIN SWAINSON'S HAWK NESTING SURVEY. 1992-08-31



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 23882	EO Index: 7543
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 631	Occurrence Last Updated: 2012-12-20

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 1994-08-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-08-11	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM 46.70(R), JUST DOWNSTREAM FROM FREEPORT BEND, ABOUT 0.65 MILE NORTH OF FREEPORT BRIDGE.

Detailed Location:
TERRITORIES #YO032 & #YO198 FROM CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS. 1982: INCIDENTAL OBS AT RM 46.2. 1993, 1994: UTMS GIVEN FOR NEST SITE AT RM 46.7, "0.5 MILES NORTH OF FREEPORT BRIDGE."

Ecological:

Threats:

General:
1982: 1 ADULT OBSERVED, NEST NOT FOUND. 1984: NO SWHA OR NESTS OBS. 1993: 2 ADULTS AND 2 JUVENILES OBSERVED AT NEST ON 15 JUL. 1994: PAIR FLEDGED 2 YOUNG FROM NEST.

PLSS: T07N, R04E, Sec. 14 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4258455 E630433	Latitude/Longitude: 38.46488 / -121.50493	Elevation (feet): 15

County Summary:	Quad Summary:
Sacramento, Yolo	Clarksburg (3812145)

Sources:

DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
MOR93F0006	MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 23880	EO Index: 7545
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 633	Occurrence Last Updated: 2013-01-23

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, RM 50.25(R), 0.6 MILE UPSTREAM FROM BABEL SLOUGH JUNCTION, SW OF SACRAMENTO.

Detailed Location:
1993 NEST ASSIGNED TO TERRITORY #YO201 FROM CDFW DATABASE OF 1979-1994 SWHA OBSERVATIONS (OBS ATTRIBUTED TO YO201 ALSO MAPPED AT OCCURRENCE #186). MAPPED TO COORDINATES GIVEN FOR SITE YO-80 IN 2008 ESTEP REPORT.

Ecological:
2007 NEST IN COTTONWOOD IN RIPARIAN HABITAT, ADJACENT TO IRRIGATED CROPLAND AND ALFALFA.

Threats:
General:
2 ADULTS AND 2 JUVENILES OBSERVED AT NEST SITE ON 15 JUL 1993. NEST WITH 1 YOUNG OBSERVED DURING 2007 SURVEY.

PLSS: T07N, R04E, Sec. 04 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4261210 E625976	Latitude/Longitude: 38.49034 / -121.55551	Elevation (feet): 15

County Summary:	Quad Summary:
Yolo	Clarksburg (3812145)

Sources:

DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
MOR93F0008	MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23875	EO Index: 7539
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 634	Occurrence Last Updated: 2013-04-05

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST SIDE OF THE SACRAMENTO RIVER AT CLAY BANK BEND, JUST SOUTH OF THE JUNCTION OF GREGORY AVENUE AND SOUTH RIVER ROAD.

Detailed Location:
VICINITY OF TERRITORY #YO224 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE, AT RM 52.2(R). MAPPED TO COORDINATES GIVEN FOR SITE YO-38 FROM ESTEP'S 2008 REPORT.

Ecological:
2007 NEST IN WALNUT IN RIPARIAN HABITAT; NEARBY LAND USE WAS ALFALFA/IRRIGATED CROPLAND.

Threats:
General:
2 ADULTS AND 1-2 JUVENILES OBSERVED AT THE NEST SITE IN 1993. NESTING PAIR FLEDGED 1 IN 1994. ACTIVITY AT NEST OBSERVED DURING 2007 SURVEY, BUT NESTING OUTCOME COULD NOT BE CONFIRMED.

PLSS: T08N, R04E, Sec. 28 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4263929 E626162	Latitude/Longitude: 38.51481 / -121.55289	Elevation (feet): 20

County Summary: Sacramento, Yolo	Quad Summary: Sacramento West (3812155)
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Sources:

DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
MOR93F0009	MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	23874	EO Index:	7540
Key Quad:	Sacramento West (3812155)	Element Code:	ABNKC19070
Occurrence Number:	635	Occurrence Last Updated:	2013-04-04

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2007-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
SACRAMENTO RIVER, RM-60.90(R), JUST UPSTREAM FROM DISCOVERY PARK, WEST SACRAMENTO.

Detailed Location:
TERRITORIES #SA016 (PART - SEE ALSO EO#287) AND #YO225 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. MAPPED TO INCLUDE GIVEN RM (60.9 R) AND TO COORDINATES FOR SITE YO-103 FROM ESTEP'S 2008 REPORT.

Ecological:
1986 NEST WAS IN RIPARIAN COTTONWOOD, SURROUNDED BY AGRICULTURE AND DEVELOPED LAND. 2007 NEST IN COTTONWOOD SURROUNDED BY IRRIGATED CROPS AND RICE. AERIAL PHOTOS SHOW CONTINUED RESIDENTIAL DEVELOPMENT SINCE 1993.

Threats:
DEVELOPMENT IS REDUCING NEARBY FORAGING HABITAT.

General:
NEST WITH 1 ADULT AND 1 YOUNG OBSERVED IN 1986. 2 ADULTS AND 2 JUVENILES OBSERVED AT NEST SITE ON 15 JUL 1993. NEST WITH 1 YOUNG OBSERVED DURING 2007 SURVEY; FLEDGING RESULTS UNKNOWN.

PLSS: T09N, R04E, Sec. 26 (M)	Accuracy: specific area	Area (acres): 11
UTM: Zone-10 N4273770 E628806	Latitude/Longitude: 38.60309 / -121.52075	Elevation (feet): 25

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:

DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
MOR93F0012	MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23873	EO Index: 7537
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 636	Occurrence Last Updated: 2013-04-04

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1994-05-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-05-28	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN, CITY OF SACRAMENTO	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, ATRM-62.10(L), ALONG GARDEN HWY JUST DOWNSTREAM FROM THE PIONEER BRIDGE (I-80), SACRAMENTO.

Detailed Location:
TERRITORY #SA051 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE (FLYOVER DETECTION IN 1985 ATTRIBUTED TO TERRITORY "SA" IN DATABASE).

Ecological:
IN 1985 SURROUNDING HABITAT WAS RIPARIAN, AGRICULTURE, AND ORCHARDS. AERIAL PHOTOS SHOW THAT SINCE 1998, RESIDENTIAL DEVELOPMENT HAS ELIMINATED ADJACENT FORAGING HABITAT EAST OF I-80.

Threats:
REDUCTION OF FORAGING HABITAT DUE TO DEVELOPMENT.

General:
1 SWHA OBSERVED NEAR THE I-80 BRIDGE IN 1985. NEST WITH PAIR & 2 YOUNG OBSERVED IN 1992. 2 ADULTS AND 1 JUVENILE OBSERVED AT THE NEST SITE IN 1993. ACTIVE NEST FAILED BEFORE HATCHING IN MAY 1994.

PLSS: T09N, R04E, Sec. 28 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4273623 E627064	Latitude/Longitude: 38.60202 / -121.54078	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Sacramento West (3812155)
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Sources:

DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
MOR93F0014	MORENO, L.A. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1993-07-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33208	EO Index: 2590
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 662	Occurrence Last Updated: 2013-05-14

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1994-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-XX-XX	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
COSUMNES RIVER, RM 14.6(L), 2.5 MILES SW OF THE INTERSECTION OF WILTON ROAD AND DILLARD ROAD, EAST OF ELK GROVE.

Detailed Location:
TERRITORY #SA060 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE; LOCATION GIVEN AS "COSUMNES/FREEMAN RD," T6N R6E SEC 10 NE 1/4 OF SE 1/4. MAPPED TO POINT ON TOPO ATTACHED TO 1994 FIELD SURVEY FORM.

Ecological:
RIPARIAN AREA SURROUNDED BY AGRICULTURAL CROPLAND AND GRAZING PASTURES.

Threats:
General:
NEST WITH PAIR AND 1 YOUNG OBSERVED IN 1987. ACTIVE NEST OBSERVED DURING A SUMMER 1994 SURVEY OF THE COSUMNES RIVER AREA.

PLSS: T06N, R06E, Sec. 10 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4250165 E648523	Latitude/Longitude: 38.38737 / -121.29941	Elevation (feet): 50

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
ROS94F0001	ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1994-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 33209	EO Index: 2588
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 663	Occurrence Last Updated: 2013-01-29

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 1994-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-XX-XX	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
COSUMNES RIVER, RM 13.6(R), 3 MILES SE OF ELK GROVE.

Detailed Location:
MAPPED TO PROVIDED MAP.

Ecological:
RIPARIAN AREA SURROUNDED BY AGRICULTURAL CROPLAND AND GRAZING PASTURES.

Threats:
General:
ACTIVE NEST OBSERVED DURING A SUMMER 1994 SURVEY OF THE COSUMNES RIVER AREA.

PLSS: T06N, R06E, Sec. 10 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4249620 E647209	Latitude/Longitude: 38.38268 / -121.31456	Elevation (feet): 45

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
ROS94F0001 ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1994-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	33210	EO Index:	2585
Key Quad:	Elk Grove (3812143)	Element Code:	ABNKC19070
Occurrence Number:	664	Occurrence Last Updated:	2013-01-29

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	1994-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1994-XX-XX	Occurrence Rank:	Excellent
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
COSUMNES RIVER, RM-13.0(L), 2.5 MILES SE OF ELK GROVE.

Detailed Location:
MAPPED TO PROVIDED MAP.

Ecological:
RIPARIAN AREA SURROUNDED BY AGRICULTURAL CROPLAND AND GRAZING PASTURES.

Threats:
General:
ACTIVE NEST OBSERVED DURING A SUMMER 1994 SURVEY OF THE COSUMNES RIVER AREA.

PLSS: T06N, R06E, Sec. 16 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4248800 E646620	Latitude/Longitude: 38.37539 / -121.32147	Elevation (feet): 45

County Summary:	Quad Summary:
Sacramento	Galt (3812133), Elk Grove (3812143)

Sources:
ROS94F0001 ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1994-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	33211	EO Index:	2592
Key Quad:	Elk Grove (3812143)	Element Code:	ABNKC19070
Occurrence Number:	665	Occurrence Last Updated:	2013-04-12

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2001-04-12	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2001-04-12	Occurrence Rank:	Good
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
VICINITY OF THE COSUMNES RIVER (ABOUT RIVER MILE 17.5) AT WILTON RD, WILTON.

Detailed Location:
3 NEST SITES, MAPPED TO PROVIDED MAPS & COORDINATES. 1994 NEST TREE BETWEEN WILTON RD & RIVER. 1995 NEST TREE ON THE N SIDE OF THE RIVER E OF WILTON RD. 2001 TREE S OF WILTON RD, AT 10928 WILTON RD.

Ecological:
1995 NEST TREE WAS A COTTONWOOD SNAG. RIPARIAN AREA SURROUNDED BY ROW CROPS, SAND MINING, PASTURES, RANCHETTES, AND LOW-DENSITY RESIDENTIAL.

Threats:
General:
BREEDING PAIR DETECTED IN 1992. ACTIVE NEST OBSERVED DURING SUMMER 1994. NEST WITH 1 CHICK OBSERVED ON 13 JUN 1995. NEST WITH 2 ADULTS OBSERVED ON 12 APR 2001; ADULT BROUGHT PREY TO THE NEST, THEN A SPRIG OF FRESH COTTONWOOD LEAVES.

PLSS:	T07N, R06E, Sec. 36 (M)	Accuracy:	nonspecific area	Area (acres):	27
UTM:	Zone-10 N4253446 E650475	Latitude/Longitude:	38.41660 / -121.27636	Elevation (feet):	70

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

ROS94F0001	ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1994-XX-XX
ROS95F0003	ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1995-06-13
SCH92F0072	SCHNEIDER, ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1992-07-10
SWO01F0013	SWOLGAARD, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2001-04-12



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 33224	EO Index: 2594
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 672	Occurrence Last Updated: 1995-06-21

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 1995-06-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1995-06-13	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH BANK OF COSUMNES RIVER, AT BEITZEL ROAD, ~5 MILES EAST OF ELK GROVE.

Detailed Location:
Ecological:
HABITAT CONSISTS OF RIPARIAN SURROUNDED BY ROW CROPS.

Threats:
POSSIBLE THREATS INCLUDE DEVELOPMENT AND CONVERSION TO VINEYARDS.

General:
2 ADULTS OBSERVED COPULATING ON 13 JUNE 1995.

PLSS: T07N, R07E, Sec. 31 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4254164 E652152	Latitude/Longitude: 38.42279 / -121.25701	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
ROS95F0001 ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1995-06-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33226	EO Index: 2591
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 674	Occurrence Last Updated: 2013-04-15

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1995-06-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1995-06-13	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH BANK OF COSUMNES RIVER, JUST WEST OF NORTH END OF S BAR LANE, ABOUT 3 MILES EAST OF ELK GROVE.

Detailed Location:
TERRITORY #SA038 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. MAPPED TO POINT ON TOPO ATTACHED TO 1995 FIELD SURVEY FORM.

Ecological:
1987 NEST 63' UP IN VALLEY OAK SURROUNDED BY RIPARIAN HABITAT, AGRICULTURE, AND PASTURE. 1995 NEST TREE WAS A VALLEY OAK; HABITAT CONSISTED OF RIPARIAN SURROUNDED BY ROW CROPS AND LOW-DENSITY HOUSING.

Threats:
THREATS INCLUDE DEVELOPMENT AND CONVERSION TO VINEYARDS.

General:
PAIR OBSERVED IN MAY 1984. SINGLE SWHA OBS IN 1985 & 1986; NO NESTS FOUND. NEST WITH PAIR AND 3 YOUNG OBS IN 1987. 2 ADULTS OBS SOARING IN THE VICINITY OF THE NEST TREE ON 13 JUN 1995; AT LEAST 2 CHICKS COULD BE HEARD CALLING FROM NEST.

PLSS: T06N, R06E, Sec. 02 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4252131 E649378	Latitude/Longitude: 38.40494 / -121.28921	Elevation (feet): 55

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
ROS95F0004	ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1995-06-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41771	EO Index: 41771
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 758	Occurrence Last Updated: 2000-06-22

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2000-05-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2000-05-25	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST EDGE OF NATOMAS MAIN DRAIN, BETWEEN ORCHARD LANE AND I-5, NW OF SACRAMENTO.

Detailed Location:
SITE IS LOCATED WEST OF THE BIKE TRAIL, ~70 METERS SW OF THE END OF GATEWAY OAKS BLVD. TERRITORY "SA" (NO # ASSIGNED) FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE.

Ecological:
1994 NEST TREE WAS A WILLOW GROWING ON THE EAST EDGE OF THE MAIN DRAIN. 2000 NEST TREE WAS A BLACK WALNUT; NEST WAS OVERGROWN BY GRAPEVINES AND WAS BARELY VISIBLE.

Threats:
General:
ACTIVE NEST, WITH 2 JUVENILES AND 2 ADULTS ATTENDING, OBSERVED ON 3 JUN 1994. NEST IN A NEW NEST TREE WITH AN INCUBATING ADULT AND AN ATTENDING ADULT OBSERVED, 25 MAY 2000.

PLSS: T09N, R04E, Sec. 22 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4275560 E628464	Latitude/Longitude: 38.61927 / -121.52435	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Sacramento West (3812155)
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Sources:

DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
WAR00F0002	WARENYCIA, D. & D. MCGRIF (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2000-05-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41774	EO Index: 41774
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 760	Occurrence Last Updated: 2013-04-12

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2003-05-30	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-05-30	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
DEER CREEK, ABOUT 2.3 MILES ENE OF HIGHWAY 99 AT GRANT LINE ROAD, SE OF ELK GROVE.

Detailed Location:
VICINITY OF TERRITORY #SA056 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE AT "DEER CREEK, 2 MI EAST HWY 99," T6N R6E SEC 9 NE1/4 OF SE1/4. MAPPED TO COORDINATES GIVEN FOR CDFW NEST RECORD FROM 2003.

Ecological:
1987 NEST TREE WAS AN OAK; SURROUNDED BY A MIX OF RIPARIAN, AGRICULTURAL FIELDS, AND PASTURE. 2003 NEST IN 70' VALLEY OAK SURROUNDED BY CROPLAND.

Threats:
General:
2 ADULTS OBSERVED NESTING IN 1987. NEST WITH 1 DOWNY YOUNG OBSERVED ON 30 MAY 2003.

PLSS: T06N, R06E, Sec. 09 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4249652 E646674	Latitude/Longitude: 38.38305 / -121.32067	Elevation (feet): 45

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41792	EO Index: 41792
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 769	Occurrence Last Updated: 2013-04-05

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
BOTH SIDES OF THE SACRAMENTO RIVER AT RM-54.7, CHICORY BEND, ABOUT 0.25 MILES N OF DAVIS ROAD AT S RIVER ROAD.

Detailed Location:
2 POLYGONS REPRESENTING 3 NESTS. NORTH SITE APPED TO COORDINATES GIVEN FOR SITE YO-71 (ESTEP 2008). SOUTH SITE MAPPED TO VICINITY OF TERRITORY #SA087 FROM CDFW SWHA DATABASE & SITE YO-57 FROM ESTEP, 2008 (W SIDE RIVER).

Ecological:
NEST TREES USED IN 2007 WERE RIPARIAN COTTONWOODS WITH NEARBY ALFALFA/IRRIGATED CROPS.

Threats:
DEVELOPMENT IS REDUCING SURROUNDING FORAGING HABITAT.

General:
NORTH: ACTIVE NEST OBSERVED DURING 2007 SURVEY, OUTCOME UNKNOWN. SOUTH: 2 ADULTS AND 2 JUVENILES OBSERVED AT NEST IN 1993. ACTIVE NEST OBSERVED DURING 2007 SURVEY, OUTCOME UNKNOWN.

PLSS: T08N, R04E, Sec. 22 (M)	Accuracy: specific area	Area (acres): 16
UTM: Zone-10 N4265874 E628142	Latitude/Longitude: 38.53205 / -121.52982	Elevation (feet): 40

County Summary: Sacramento, Yolo	Quad Summary: Sacramento West (3812155)
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Sources:

DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 42828	EO Index: 42828
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070
Occurrence Number: 808	Occurrence Last Updated: 2000-04-25

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2000-04-20	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2000-04-20	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH SIDE OF DEL PASO ROAD, 0.6 MILE EAST OF I-5, SACRAMENTO.

Detailed Location:
Ecological:
NEST TREE IS A WILLOW, WITH THE NEST ABOUT 30-FEET HIGH.

Threats:
General:
2 ADULTS OBSERVED IN COURTSHIP AND AT THE NEST TREE WITH A NEST THAT APPEARED TO BE 2/3 COMPLETED.

PLSS: T09N, R04E, Sec. 03 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4279749 E628556	Latitude/Longitude: 38.65699 / -121.52252	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:
CRII00U0001 CRIBBS, H. (CRIBBS AND ASSOCIATES, INC.) - MEMO FROM HAL CRIBBS TO TERRY ROSCOE (DFG) REGARDING BUTEO SWAINSONI (NEST SITE). 2000-04-20



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 45347	EO Index: 45347
Key Quad: Sacramento East (3812154)	Element Code: ABNKC19070
Occurrence Number: 931	Occurrence Last Updated: 2001-05-15

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2001-04-20	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2001-04-20	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG NATOMAS EAST MAIN DRAIN, JUST NORTH OF THE GARDEN HIGHWAY, 0.5 MILE EAST OF TRUXEL, SACRAMENTO.

Detailed Location:

Ecological:
NEST TREE WAS A COTTONWOOD, LOCATED WITHIN RIPARIAN ALONG THE NATOMAS EAST MAIN DRAIN; SURROUNDED BY AN URBAN AREA ADJACENT TO THE GARDEN HIGHWAY TO THE NORTH AND A RECREATIONAL AREA ALONG THE JEDIDIAH SMITH BIKE TRAIL TO THE SOUTH.

Threats:
POSSIBLE THREAT FROM HUMAN USE OF THE NEARBY RECREATIONAL AREA.

General:
ON 20 APR 2001, THE MALE WAS OBSERVED PERCHED IN A COTTONWOOD, 100 FEET EAST OF THE NEST TREE; FEMALE WAS OBSERVED SITTING ON THE NEST.

PLSS: T09N, R04E, Sec. 25 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4274590 E631466	Latitude/Longitude: 38.61009 / -121.49006	Elevation (feet): 20

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:
ZET01F0001 ZETTLE, B. (JONES AND STOKES ASSOCIATES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2001-04-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 45481
Key Quad: Florin (3812144)
Occurrence Number: 933

EO Index: 45481
Element Code: ABNKC19070
Occurrence Last Updated: 2001-08-07

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
 State: Threatened
CNDDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2001-06-02
Last Survey Date: 2001-06-02
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:
 NORTH SIDE OF SHELDON ROAD, 0.5 MILE EAST OF HIGHWAY 99, BETWEEN ELK GROVE AND SACRAMENTO.

Detailed Location:
Ecological: NEST TREE IS A EUCALYPTUS; SURROUNDED BY ANNUAL GRASSLAND, HAY PRODUCTION, AND URBAN DEVELOPMENT.
Threats: THREATENED BY ENCROACHING URBAN DEVELOPMENT.

General:
 2 ADULTS AND 1 JUVENILE OBSERVED AT THE NEST ON 2 JUN 2001.

PLSS: T07N, R05E, Sec. 23 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4255673 E640451	Latitude/Longitude: 38.43830 / -121.39070	Elevation (feet): 34

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
 AVE01F0002 AVERY, S. (JONES AND STOKES ASSOCIATES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2001-06-02



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 45692

EO Index: 45692

Key Quad: Sacramento West (3812155)

Element Code: ABNKC19070

Occurrence Number: 940

Occurrence Last Updated: 2013-05-02

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2007-XX-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2007-XX-XX

Occurrence Rank: Good

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

SOUTH SIDE OF THE SACRAMENTO BYPASS, JUST N OF THE CHP ACADEMY, ABOUT 1 MI WNW OF I-80 AT OLD RIVER RD, WEST SACRAMENTO.

Detailed Location:

MAPPED TO COORDINATES PROVIDED ON FIELD SURVEY FORMS, IN CDFW NEST RECORDS FROM 2000-2004, AND FOR SITE YO-75 FROM 2008 ESTEP REPORT.

Ecological:

NESTS WERE IN LARGE COTTONWOODS ON THE INSIDE LEVEE SLOPE OF THE SACRAMENTO BYPASS; SURROUNDED BY UNDISTURBED GRASSLAND/SEASONAL WETLAND IN THE BYPASS, CHP FACILITY TO THE SOUTH, AND AGRICULTURE TO THE NORTH.

Threats:

2000-2001 SURVEYORS CITED POTENTIAL THREATS FROM CHP FACILITY OPERATIONS, FISHERMEN, FLOOD CONTROL PERSONNEL/PROJECTS.

General:

NESTING PAIR OBSERVED 4 JUN 1999; NEST FAILED. NEST W/2 YOUNG(Y) OBS 30 JUN 2000. NEST W/PAIR & 3Y (BANDED) OBS 22 JUN 2001. NEST W/1Y OBS 26 JUN 2002. SWHA ON NEST OBS 14 MAY, NO ACTIVITY JUN-JUL 2003. NEST W/2Y OBS DURING 2007 SURVEY.

PLSS: T09N, R04E, Sec. 29 (M)

Accuracy: specific area

Area (acres): 15

UTM: Zone-10 N4273382 E624910

Latitude/Longitude: 38.60015 / -121.56555

Elevation (feet): 35

County Summary:

Quad Summary:

Yolo

Sacramento West (3812155)

Sources:

- BRA01F0016 BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2001-06-22
- BRA99F0002 BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1999-06-04
- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
- EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
- HOL00F0075 HOLT, W. & C. SWOLGAARD - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2000-06-30



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 45700	EO Index: 45700
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 941	Occurrence Last Updated: 2013-04-09

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Excellent
Owner/Manager: DFG-SACRAMENTO BYPASS WA	Trend: Unknown
Presence: Presumed Extant	

Location:
N LEEVE OF SACRAMENTO BYPASS AT TULE CANAL, ABOUT 2 MI WNW OF OLD RIVER RD AT I-80, NW WEST SACRAMENTO.

Detailed Location:
VICINITY OF TERRITORY "YO" (NO # ASSIGNED) FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. MAPPED TO TWO NEST SITES; EAST SITE COORDINATES FROM 1999 FIELD SURVEY FORM, WEST SITE YO-35 FROM ESTEP'S 2008 REPORT.

Ecological:
1994: NEST IN COTTONWOOD. 1999: HABITAT WAS A WELL-DEVELOPED RIPARIAN CORRIDOR W/OAKS, COTTONWOODS, & WILLOWS; FAIRLY DENSE IN PLACES. 2007: NEST IN WILLOW IN CHANNELIZED RIPARIAN HABITAT SURROUNDED BY IRRIGATED CROPLAND & SEASONAL WETLAND.

Threats:

General:
NESTING PAIR OBSERVED IN 1994, SUCCESS UNKNOWN. 2 ADULTS AND 1 JUVENILE OBSERVED AT NEST ON 4 JUN 1999. NEST WITH 1 YOUNG OBSERVED DURING 2007 SURVEY, FLEDGING RESULTS UNKNOWN.

PLSS: T09N, R04E, Sec. 30 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4273301 E623087	Latitude/Longitude: 38.59968 / -121.58649	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:

BRA99F0003	BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1999-06-04
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 45707	EO Index: 45707	
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070	
Occurrence Number: 942	Occurrence Last Updated: 2013-05-07	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Excellent
Owner/Manager: DFG-SACRAMENTO BYPASS WA	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH & SOUTH SIDES OF THE SACRAMENTO BYPASS WA AT TOE DRAIN, ABOUT 1.5 MI W OF I-80 AT OLD RIVER RD, WEST SACRAMENTO.

Detailed Location:
JUST WEST OF THE CHP ACADEMY AND ADJACENT TO A FLOOD CONTROL FACILITY. 2 POLYGONS, MAPPED TO COORDINATES FROM FIELD SURVEY FORMS, CDFW NEST RECORDS FROM 2000-2004, AND FOR SITES YO-74 (SOUTH) & YO-76 (NORTH) FROM ESTEP'S 2008 REPORT.

Ecological:
NEST TREES WERE LARGE COTTONWOODS SURROUNDING HABITAT CONSISTS OF A WELL-DEVELOPED WETLAND CORRIDOR, ADJACENT TO A FLOOD CONTROL FACILITY, AND FURTHER SURROUNDED BY AGRICULTURE AND NON-NATIVE GRASSLAND.

Threats:
2000 SURVEYOR NOTED POTENTIAL THREAT FROM LEVEE MAINTENANCE AND UPGRADES.

General:
N POLYGON: NEST W/PAIR & 2 YOUNG(Y) OBSERVED 4 JUN 1999. PAIR & 3Y (BANDED) OBS 22 JUN 2001. NEST W/2Y OBS, 2007. S POLYGON: NESTING PAIR OBS 4 JUN 1999; NEST FAILED. PAIR & 2Y OBS 20 JUN 2000; 2Y, FEATHERED, OBS 30 JUN. NEST W/1Y OBS, 2007.

PLSS: T09N, R04E, Sec. 29 (M)	Accuracy: specific area	Area (acres): 23
UTM: Zone-10 N4272967 E623828	Latitude/Longitude: 38.59656 / -121.57804	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

- Sources:**
- BRA00F0013 BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2000-06-20
 - BRA01F0015 BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2001-06-22
 - BRA99F0004 BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1999-06-04
 - BRA99F0005 BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1999-06-04
 - DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
 - EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
 - HOL00F0074 HOLT, W. & C. SWOLGAARD - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2000-06-30



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 47315	EO Index: 47315	
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070	
Occurrence Number: 992	Occurrence Last Updated: 2013-05-08	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-04-29	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-04-29	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG THE WEST BANK OF THE SACRAMENTO RIVER, JUST NORTH OF COUNTY RD 142, 0.6 MILE NNW OF HOOD.

Detailed Location:
1994: COORDINATES FOR TERRITORY "YO" (NO # ASSIGNED) FROM DFG DATABASE OF OBSERVATIONS 1979-94. 2000: COORDINATES FROM FIELD SURVEY FORM & DFG DATABASE OF SITES 2000-04. 2009: POINT FROM DFG SHAPEFILE OF NESTS RECORDED FROM 2009.

Ecological:
1994: NEST IN VALLEY OAK. 2000: NEST IN VALLEY OAK 80+ FT IN HEIGHT; SURROUNDED BY ROW CROPS. 2009: NEST IN 45' VALLEY OAK SURROUNDED BY RESIDENTIAL, WITH CROPLAND TO THE SOUTHWEST.

Threats:
General:
1994: 2 ADULTS AND 2 JUVENILES OBSERVED AT NEST ON 13 JUL. 2000: 2 ADULTS OBSERVED (1 PERCHED, 1 SOARING) WITH 1 FEATHERED YOUNG ON 30 JUN. 2009: NEST WITH YOUNG OBSERVED ON 29 APR.

PLSS: T06N, R04E, Sec. 15 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4248589 E628777	Latitude/Longitude: 38.37623 / -121.52571	Elevation (feet): 12

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
DFG09D0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
ROC00F0001	ROCCO, C. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2000-06-30



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 50639
Key Quad: Florin (3812144)
Occurrence Number: 1001

EO Index: 50639
Element Code: ABNKC19070
Occurrence Last Updated: 2003-03-17

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2002-04-29
Last Survey Date: 2002-04-29
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Fair
Trend: Unknown

Location:
 WEST SIDE OF HIGHWAY 99, 0.4 MILE NNW OF SHELDON ROAD, 2 MILES NW OF ELK GROVE.

Detailed Location:

Ecological:
 NEST TREE IS A VALLEY OAK; NEST IS LOCATED ON THE SOUTH-FACING PORTION OF THE NEST TREE.

Threats:
 THREATENED BY HUMAN ACTIVITY FROM NEARBY STORAGE FACILITY AND FREEWAY NOISE/MAINTENANCE.

General:
 THE PAIR WAS OBSERVED COPULATING ON 18 APR 2002, AND THE FEMALE WAS OBSERVED INCUBATING ON 29 APR 2002.

PLSS: T07N, R05E, Sec. 23 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4256157 E639217	Latitude/Longitude: 38.44285 / -121.40474	Elevation (feet): 30

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 HEN02F0003 HENKE, J. (MOORE BIOLOGICAL CONSULTANTS) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2002-04-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 50670
Key Quad: Florin (3812144)
Occurrence Number: 1010

EO Index: 50670
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-19

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
 State: Threatened
CNDDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-07-XX
Last Survey Date: 2009-07-XX
Owner/Manager: SRCSD
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Fair
Trend: Unknown

Location:

ALONG BUFFERLANDS RD (=LAGUNA STATION RD), 0.3-0.6 MI N OF SIMS RD, AT THE SACRAMENTO COUNTY WASTEWATER TREATMENT PLANT.

Detailed Location:

2003, 2004 NEST TREE ON W SIDE OF BUFFERLANDS RD ABOUT 0.3 MI N OF SIMS RD, MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-04 SWHA NEST RECORDS. 2002, 2009 NEST SITE ABOUT 1/4 MILE FURTHER NORTH, MAPPED TO COORDS & POINT MARKED ON TOPO.

Ecological:

2002: NEST IN ISOLATED EUCALYPTUS NEXT TO HAY FIELDS. 2003: NEST LOW IN 70' EUC SURROUNDED BY PASTURE W/COMMERCIAL TO NE. 2004: NEST IN LARGE EUC IN RUDERAL GRASSLAND. 2009: NEST IN EUC. AT WATER TREATMENT PLANT/CO-GENERATION POWER PLANT.

Threats:

General:

BUFFERLANDS STAFF (ROGER JONES) REPORTED THAT SWHA NESTED HERE IN PREVIOUS YEARS. 2 ADULTS OBSERVED NESTING ON 1 MAY 2002. NEST WITH 2 FEATHERED YOUNG OBS 13 MAY 2003. PAIR FLEDGED 2 YOUNG IN 2004 AND 2009.

PLSS: T07N, R05E, Sec. 19 (M)	Accuracy: nonspecific area	Area (acres): 14
UTM: Zone-10 N4256480 E634013	Latitude/Longitude: 38.44655 / -121.46428	Elevation (feet): 15

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

- CON09U0001 CONARD, C. - COORDINATES FOR SWAINSON'S HAWKS, LEAST TERNS, AND A GREAT GRAY OWL 2009-08-07
- CRO02F0003 CROWE, D. (CH2M HILL) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2002-05-01
- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
- HAL04F0001 HALE, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2004-05-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 50702	EO Index: 50702	
Key Quad: Rio Linda (3812164)	Element Code: ABNKC19070	
Occurrence Number: 1015	Occurrence Last Updated: 2013-05-03	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2002-07-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-07-01	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG DRY CREEK, BETWEEN RIO LINDA/MARYSVILLE BOULEVARD AND NATOMAS EAST MAIN DRAINAGE CANAL, IN RIO LINDA.

Detailed Location:
VICINITY OF 1992 DETECTION BY CDFW SURVEYORS; REPORTED ON FIELD SURVEY FORM (PER LOCATION DRAWN ON ATTACHED MAP) AND IN CDFW DATABASE AS TERRITORY #SA073. MAPPED TO POINT ON MAP SUBMITTED WITH FIELD SURVEY FORM FROM 2002.

Ecological:
1992 NEST IN OAKS SURROUNDED BY PASTURE, WITHIN URBANIZED AREA. IN 2001-2002, HABITAT CONSISTED OF A NARROW VALLEY OAK RIPARIAN CORRIDOR ALONG DRY CREEK; SURROUNDED BY GRAZED GRASSLAND. POSSIBLE FUTURE SITE OF HANSEN PARK GOLF COURSE.

Threats:
1992 SURVEYORS CITED POTENTIAL THREAT OF URBAN DEVELOPMENT.

General:
SITE WAS FIRST REPORTED AS A BREEDING TERRITORY IN 1992. TERRITORY WAS ACTIVE IN 2001. ADULT OBSERVED CARRYING PREY TO THE NEST ON 1 JUL 2002; UNKNOWN NUMBER OF YOUNG IN NEST.

PLSS: T09N, R05E, Sec. 05 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4280493 E633499	Latitude/Longitude: 38.66296 / -121.46558	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

KIN02F0004	KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2002-07-01
SCH92F0061	SCHNEIDER, ET AL. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1992-07-10



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 50704	EO Index: 50704
Key Quad: Rio Linda (3812164)	Element Code: ABNKC19070
Occurrence Number: 1016	Occurrence Last Updated: 2003-03-25

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2002-07-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-07-11	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG NW SIDE OF DRY CREEK SOUTH, JUST WEST OF THE RIO LINDA AIRPORT, RIO LINDA.

Detailed Location:
NEST TREE IS LOCATED ABOUT 200' SW OF WHERE THE BIKE TRAIL CROSSES DRY CREEK.

Ecological:
HABITAT CONSISTS OF A NARROW VALLEY OAK RIPARIAN CORRIDOR ALONG DRY CREEK; SURROUNDED BY OPEN GRASSLAND, RESIDENTIAL, AND AN AIRPORT.

Threats:
General:
3-4 YOUNG HATCHED IN 2002, BUT ONLY 2 SURVIVED TO FLEDGING.

PLSS: T10N, R05E, Sec. 32 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4281878 E635021	Latitude/Longitude: 38.67521 / -121.44783	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
KIN02F0005 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2002-07-11



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 50706	EO Index: 50706
Key Quad: Rio Linda (3812164)	Element Code: ABNKC19070
Occurrence Number: 1017	Occurrence Last Updated: 2003-03-25

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2002-07-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-07-11	Occurrence Rank: Good
Owner/Manager: SAC COUNTY FLOOD CONTROL	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG DRY CREEK SOUTH, JUST EAST OF RIO LINDA/MARYSVILLE BOULEVARD, RIO LINDA.

Detailed Location:

Ecological:
HABITAT CONSISTS OF A NARROW VALLEY OAK RIPARIAN CORRIDOR ALONG DRY CREEK; SURROUNDED BY OPEN GRASSLAND AND NEARBY RESIDENTIAL.

Threats:

General:
NEST SITE ALSO OCCUPIED IN 2001. ADULTS OBSERVED CARRYING PREY ITEMS TO NEST ON 11 JUL 2002.

PLSS: T10N, R05E, Sec. 32 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4281475 E634654	Latitude/Longitude: 38.67164 / -121.45212	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
KIN02F0006 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2002-07-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 50708	EO Index: 50708
Key Quad: Rio Linda (3812164)	Element Code: ABNKC19070
Occurrence Number: 1018	Occurrence Last Updated: 2003-03-25

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2002-07-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-07-15	Occurrence Rank: Excellent
Owner/Manager: CITY OF SACRAMENTO	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG DRY CREEK, APPROXIMATELY 300' EAST OF THE NATOMAS EAST MAIN DRAINAGE CANAL, RIO LINDA.

Detailed Location:
WESTERN PACIFIC RR TRACKS LOCATED JUST WEST OF NEST TREE.

Ecological:
HABITAT CONSISTS OF A NARROW VALLEY OAK RIPARIAN CORRIDOR ALONG DRY CREEK; SURROUNDED BY OPEN GRASSLAND, WITH THE NATOMAS EAST DRAINAGE CANAL AND RESIDENTIAL TO THE WEST.

Threats:
General:
NESTING OBSERVED ON 15 JUL 2002.

PLSS: T09N, R05E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4280371 E632790	Latitude/Longitude: 38.66197 / -121.47375	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
KIN02F0007 KING, A. (EDAW, INC.) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2002-07-15



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 50776	EO Index: 50776
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070
Occurrence Number: 1030	Occurrence Last Updated: 2003-03-27

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2001-04-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2001-04-27	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
 NE OF THE INTERSECTION OF I-5 AND POWERLINE ROAD, NORTH OF SACRAMENTO.

Detailed Location:
Ecological:
 NEST TREE IS A LARGE WILLOW; SURROUNDED BY AGRICULTURE, PRIMARILY RICE FARMING.

Threats:
 POSSIBLE THREAT FROM AIRPORT DEVELOPMENT.

General:
 FEMALE OBSERVED IN NEST IN BROOD POSITION ON 27 APR 2001.

PLSS: T10N, R04E, Sec. 32 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4281486 E623981	Latitude/Longitude: 38.67329 / -121.57477	Elevation (feet): 12

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

Sources:
 BRA01F0012 BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2001-04-27



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 50910	EO Index: 50910
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 1080	Occurrence Last Updated: 2013-04-04

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1999-04-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1999-04-26	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
0.4 MILES UPSTREAM FROM THE I-80 BRIDGE OVER THE SACRAMENTO RIVER, SACRAMENTO.

Detailed Location:
VICINITY OF TERRITORY "SA" (NO # ASSIGNED, AT RM-63L) FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. MAPPED TO COORDINATES GIVEN ON FIELD SURVEY FORM FROM 1999.

Ecological:
HABITAT CONSISTED OF A RIPARIAN CORRIDOR ALONG THE SACRAMENTO RIVER (1999).

Threats:
THREATENED BY URBAN DEVELOPMENT (1999).

General:
NESTING PAIR OBSERVED ON 10 JUN 1987. 2 ADULTS OBSERVED NESTING ON 26 APR 1999; OUTCOME UNKNOWN.

PLSS: T09N, R04E, Sec. 28 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4273781 E626044	Latitude/Longitude: 38.60359 / -121.55246	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Sacramento West (3812155)
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Sources:

BRA99F0014	BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1999-04-26
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 50911	EO Index: 50911
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 1081	Occurrence Last Updated: 2003-04-10

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1999-06-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1999-06-28	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
0.2 MILE SOUTH OF INDUSTRIAL BOULEVARD, ON THE WEST BANK OF THE DEEP WATER CHANNEL TURNING BASIN, WEST SACRAMENTO.

Detailed Location:

Ecological:
NEST TREE UNKNOWN; SURROUNDING FORAGING HABITAT CONSISTS OF A SMALL PLOT OF NON-NATIVE GRASSLAND ADJACENT TO INDUSTRIAL CENTERS.

Threats:
THREATENED BY COMMERCIAL AND RESIDENTIAL DEVELOPMENT.

General:
2 ADULTS AND 1 JUVENILE OBSERVED AT THE NEST SITE ON 28 JUN 1999.

PLSS: T08N, R04E, Sec. 05 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4270167 E625322	Latitude/Longitude: 38.57113 / -121.56139	Elevation (feet): 10

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:
BRA99F0015 BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1999-06-28



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 50912	EO Index: 50912
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 1082	Occurrence Last Updated: 2003-04-10

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 1999-06-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1999-06-28	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST NW OF THE INTERSECTION OF LAKE WASHINGTON WITH JEFFERSON BOULEVARD, WEST SACRAMENTO.

Detailed Location:
Ecological:
NEST TREE IS A LARGE OAK; SURROUNDING FORAGING HABITAT CONSISTS OF NON-NATIVE GRASSLAND.

Threats:
THREATENED BY COMMERCIAL AND RESIDENTIAL DEVELOPMENT.

General:
2 ADULTS AND 2 JUVENILES OBSERVED AT THE NEST SITE ON 28 JUN 1999.

PLSS: T08N, R04E, Sec. 09 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4268409 E627161	Latitude/Longitude: 38.55503 / -121.54061	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
BRA99F0016 BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1999-06-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 50913	EO Index: 50913
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 1083	Occurrence Last Updated: 2013-04-04

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2004-06-09	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-06-09	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST SOUTHEAST OF THE I-80/WEST EL CAMINO CLOVERLEAF, SACRAMENTO.

Detailed Location:
MAPPED TO COORDINATES FROM 2001 FIELD SURVEY FORM AND FROM CDFW NEST RECORDS, 2000-2004.

Ecological:
2000/2001 NEST TREE WAS A COTTONWOOD NEAR THE REMAINS OF AN OLD HOMESTEAD. 2004 NEST TREE WAS A (DEAD) VALLEY OAK; SURROUNDED BY COMMERCIAL/HIGHWAY TO THE NW AND RESIDENTIAL TO THE NE, SE, AND SW.

Threats:
THREATENED BY URBAN DEVELOPMENT; SITE WILL LIKELY BE LOST TO DEVELOPMENT (2001; TREES EXTANT IN 2012 AERIALS).

General:
2 FORAGING SWHA OBSERVED IN 1993. 2 ADULTS & 1 JUVENILE OBS AT NEST 25 JUN 2000; FEMALE WAS TRAPPED & PTT TAGGED. 2 ADULTS & 1 JUVENILE (YOUNG BANDED) OBS AT NEST ON 23 JUN 2001. 2 PARTIALLY-FEATHERED YOUNG OBS IN THE NEST ON 9 JUN 2004.

PLSS: T09N, R04E, Sec. 22 (M)	Accuracy: specific area	Area (acres): 8
UTM: Zone-10 N4274836 E627651	Latitude/Longitude: 38.61286 / -121.53381	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Sacramento West (3812155)
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Sources:

BRA00F0027	BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2000-06-25
BRA01F0017	BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2001-06-23
DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
ROS93F0011	ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1993-07-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 50993	EO Index: 50993
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1104	Occurrence Last Updated: 2013-05-10

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-07-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-07-14	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST SIDE OF JEFFERSON BOULEVARD, 0.3 MILE SOUTH OF GAFFNEY AVENUE, 7 MILES SW OF SACRAMENTO.

Detailed Location:
2001: COORDINATES FROM FIELD SURVEY FORM. 2004-2006: NEST LOCATIONS REPORTED IN FIELD SURVEY FORMS, RESSEGUIE'S "CLARKSBURG 16" SITE. 2009: POINT FROM DFG SHAPEFILE OF SWHA NEST RECORDS.

Ecological:
2001: NEST IN 35' JUNIPER. 2004, 2005: NEST IN LARGE SYCAMORE; ALFALFA TO N/W/E & CULTIVATED FIELDS S. RIVER OTTER FOUND DOR, 7 MAY '05. 2006: NEST IN RAGGED SYCAMORE AT W EDGE OF SITE. 2009: NEST IN 35' NATIVE TREE; ALFALFA N & CROPS S.

Threats:
BUSY ROAD POSES A THREAT TO BIRDS.

General:
2001: 2 ADULTS & 1 JUVENILE (BANDED) OBSERVED AT NEST ON 22 JUN. 2004: NEST MONITORED 27 JUL-3 AUG; 4 YOUNG FLEDGED. 2005: ACTIVE NEST MONITORED APR-AUG; NO YOUNG OBS. 2006: NEST FLEDGED 1 YOUNG. 2009: NEST WITH YOUNG OBS 14 JUL.

PLSS: T06N, R04E, Sec. 06 (M)	Accuracy: specific area	Area (acres): 8
UTM: Zone-10 N4251476 E623692	Latitude/Longitude: 38.40296 / -121.58340	Elevation (feet): 1

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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- Sources:**
- BRA01F0018 BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2001-06-22
 - DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009 -XX-XX
 - RES04F0041 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2004-08-03
 - RES05F0347 RESSEGUIE, L. (UNIVERSITY OF CALIFORNIA, BERKELEY) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2005-08-18
 - RES06F0068 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2006-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 50994

EO Index: 50994

Key Quad: Clarksburg (3812145)

Element Code: ABNKC19070

Occurrence Number: 1105

Occurrence Last Updated: 2012-12-20

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: **Global:** G5

IUCN_LC-Least Concern

State: S3

USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-07-23

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2009-07-23

Occurrence Rank: Good

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

ALONG ELK SLOUGH, FROM CO RD 142 AT RD 144 NORTH 0.6 MILES, ABOUT 2.5 MILES SSW OF CLARKSBURG.

Detailed Location:

MAPPED TO COORDINATES FROM FIELD SURVEY FORM AND CDFW SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 1999 SITE ACROSS FROM BOGLE VINEYARDS. 3-4 NEST SITES IN 2009.

Ecological:

1999: NEST IN A COTTONWOOD WITHIN A RIPARIAN CORRIDOR ALONG A LEVEE FACILITY; SURROUNDED BY MIXED CROPLAND. 2009: 3 NESTS IN 35-40' VALLEY OAKS SURROUNDED BY FALLOW/RUDERAL LAND. POSSIBLE 4TH NEST IN RESIDENTIAL AREA AT END OF NISHIA LN.

Threats:

THREATENED BY THE INFLUX OF VINEYARDS (1999).

General:

1999: 2 ADULTS & 3 JUVENILES OBSERVED AT NEST ON 4 JUL. 2009: ADULT(S) OBS SOARING/PERCHING NEAR NISHIA LN ON 29 APR; DEFENSIVE ACTIVITY AT S NEST, 12 JUN; YOUNG OBS IN MIDDLE NEST, 21 JUN; YOUNG OBS IN N NEST, 23 JUL.

PLSS: T06N, R04E, Sec. 09 (M)

Accuracy: specific area

Area (acres): 19

UTM: Zone-10 N4249516 E627284

Latitude/Longitude: 38.38480 / -121.54263

Elevation (feet): 5

County Summary:

Quad Summary:

Yolo

Clarksburg (3812145)

Sources:

BRA99F0017 BRADBURY, M. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1999-07-04

DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009 -XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 51163
Key Quad: Florin (3812144)
Occurrence Number: 1188

EO Index: 51163
Element Code: ABNKC19070
Occurrence Last Updated: 2013-05-10

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2003-06-25
Last Survey Date: 2003-06-25
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Poor
Trend: Unknown

Location:
 SOUTH SIDE OF ELK GROVE BOULEVARD, JUST WEST OF WYMARK DRIVE IN ELK GROVE.

Detailed Location:
 MAPPED TO COORDINATES FROM DFG DATABASE OF SWAINSON'S HAWK NEST RECORDS, 2000-2004. 2001, 2002, AND 2003 NESTS APPEAR TO BE IN SAME OR ADJACENT TREES.

Ecological:
 2000: NEST IN 30' WILLOW. 2001-03: NEST IN 50-60' VALLEY OAK. HABITAT WAS PASTURE/FALLOW/GRASSLAND TO S AND RESIDENTIAL TO N, BUT DEVELOPMENT SOUTH OF ELK GROVE BLVD IS REPLACING FORAGING HABITAT. SITE WAS GOOD EXCELLENT; NOW POOR (2013).

Threats:
 RESIDENTIAL DEVELOPMENT HAS REDUCED FORAGING & NESTING HABITAT. AIR PHOTOS SHOW SOME NEST TREES MAY HAVE BEEN REMOVED.

General:
 2000: ACTIVE NEST, BUT NO YOUNG, OBSERVED 31 MAY. 2001: ACTIVE NEST, INCUBATION OBS 20 MAY. 2002: NEST WITH 1 YOUNG OBS 16 MAY, NESTING PAIR OBS 4 JUN. 2003: NEST WITH 1 FEATHERED YOUNG OBS 25 JUN. CNDDDB NOTE 5/2013: MAY BE EXTIRPATED.

PLSS: T06N, R05E, Sec. 03 (M) **Accuracy:** specific area **Area (acres):** 8
UTM: Zone-10 N4252377 E638835 **Latitude/Longitude:** 38.40886 / -121.40985 **Elevation (feet):** 30

County Summary: Sacramento **Quad Summary:** Florin (3812144)

- Sources:**
- AMR02F0001 AMRHEIN, R. & C. DANOFF (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2002-06-04
 - DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
 - STO00F0011 STOWERS, C. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2000-05-31
 - STO01F0019 STOWERS, C. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2001-05-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 51852	EO Index: 51852	
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070	
Occurrence Number: 1232	Occurrence Last Updated: 2003-07-28	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2003-07-16	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-07-16	Occurrence Rank: Good
Owner/Manager: RECLAMATION DISTRICT 1000	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST SIDE OF NATOMAS EAST MAIN DRAINAGE CANAL, 0.1 MILE NORTH OF THE GARDEN HIGHWAY, SACRAMENTO.

Detailed Location:
NEST TREE WAS LOCATED ~500' NORTH OF PUMP STATION 1B AT THE GARDEN HIGHWAY/NATOMAS MAIN DRAINAGE CANAL JUNCTION.

Ecological:
NEST TREE WAS A LARGE SYCAMORE, ADJACENT TO A TREE CLUMP; SURROUNDED BY RIPARIAN SYCAMORES AND OAKS.

Threats:

General:
NEST WITH 1 JUVENILE OBSERVED ON 16 JUL 2003.

PLSS: T09N, R04E, Sec. 27 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4274209 E628445	Latitude/Longitude: 38.60709 / -121.52481	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Sacramento West (3812155)
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Sources:
GER03F0001 GERSON, R. (U.S. FISH AND WILDLIFE SERVICE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2003-07-16



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 52146	EO Index: 52146
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070
Occurrence Number: 1257	Occurrence Last Updated: 2003-08-18

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2003-06-30	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-06-30	Occurrence Rank: None
Owner/Manager: PVT	Trend: Decreasing
Presence: Possibly Extirpated	

Location:
NORTH SIDE OF SAN JUAN ROAD, JUST EAST OF THE NORTHBOUND I-5 ONRAMP, NORTH NATOMAS AREA OF SACRAMENTO.

Detailed Location:

Ecological:
NEST TREE IS A COTTONWOOD, LOCATED WITHIN AN AGRICULTURAL WINDBREAK OF COTTONWOODS AND SNAGS.

Threats:
THREATENED BY DEVELOPMENT; NEST TREE SCHEDULED FOR REMOVAL TO PROVIDE FOR CONSTRUCTION OF EAST COMMERCE WAY.

General:
2 ADULTS AND 2 JUVENILES OBSERVED ON 30 JUN 2003.

PLSS: T09N, R04E, Sec. 14 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4276573 E629143	Latitude/Longitude: 38.62829 / -121.51635	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

CRI03F0001	CRIBBS, H. (CRIBBS AND ASSOCIATES, INC.) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2003-06-30
CRI03U0001	CRIBBS, H. (CRIBBS AND ASSOCIATES, INC.) - "WILDLIFE CERTIFICATION RE: CONSTRUCTION ACTIVITIES AT ALLEGHANY PROPERTIES INC'S NATOMAS CROSSING-AREA 3, IN NORTH NATOMAS, CITY OF SACRAMENTO" 2003-06-30



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 56574	EO Index: 56590	
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070	
Occurrence Number: 1334	Occurrence Last Updated: 2011-09-29	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2005-08-09	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-08-09	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST SIDE OF JEFFERSON BOULEVARD (HIGHWAY 84), 0.4 MILE SOUTH OF BABEL SLOUGH, 3 MILES NW OF CLARKSBURG.

Detailed Location:
RESSEGUIE'S CLARKSBURG 3. 2004 NEST WAS LOCATED AT THE 85% HEIGHT, ON THE NE SIDE, OF A RAGGED COTTONWOOD FOUND 125 METERS FROM THE ROAD. 2005 NEST WAS LOCATED AT THE 75% HEIGHT OF THE SMALL OAK (NORTHMOST TREE OF 3RD CLUMP WEST OF ROAD).

Ecological:
NEST TREE WAS AN OAK; SURROUNDED BY ALFALFA TO THE NORTH AND SOUTH.

Threats:
General:
NEST SITE MONITORED 28 MAR-3 AUG 2004; 3 YOUNG FLEDGED. NEST MONITORED 20 APR-9 AUG 2005; 1 FLEDGED.

PLSS: T07N, R04E, Sec. 19 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4255589 E623534	Latitude/Longitude: 38.44004 / -121.58449	Elevation (feet): 5

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Sources:
RES04F0035 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2004-08-03
RES05F0346 RESSEGUIE, L. (UNIVERSITY OF CALIFORNIA, BERKELEY) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2005-08-09



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 56575	EO Index: 56591
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1335	Occurrence Last Updated: 2013-01-24

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG JEFFERSON BOULEVARD (HIGHWAY 84), ABOUT 0.9 MILES SOUTH OF BABEL SLOUGH AND 2.5 MILES NW OF CLARKSBURG.

Detailed Location:
TWO SITES: SOUTH SITE AT JEFFERSON BLVD ACTIVE 2004-05 (RESSEGUIE SITE CLARKSBURG 5) AND 2007 (ESTEP SITE YO-55); NORTH SITE ACTIVE 2007 (ESTEP SITE YO-91).

Ecological:
2004 NEST DIFFICULT TO SEE, IN AN E-W ROW OF SMALL COTTONWOODS AT A FIELD BOUNDARY 0.3 MILE N OF WILLOW POINT WEST RD; WITH ALFALFA TO NE/W, CULTIVATED TO SE. 2007 NESTS IN RIPARIAN WILLOW (YO-91) AND ROADSIDE WALNUT (YO-55).

Threats:
General:
NEST MONITORED 28 MAR-11 AUG 2004; 3 YOUNG FLEDGED. NEST MONITORED 29 MAR-18 AUG 2005; POSSIBLE FLEDGLING OBSERVED ON 28 JUL 2005. 1 YOUNG SEEN IN YO-55 NEST, AND UNKNOWN OUTCOME AT YO-91 IN 2007.

PLSS: T07N, R04E, Sec. 30 (M)	Accuracy: specific area	Area (acres): 11
UTM: Zone-10 N4254832 E623701	Latitude/Longitude: 38.43319 / -121.58271	Elevation (feet): 5

County Summary:	Quad Summary:
Yolo	Clarksburg (3812145)

Sources:

EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
RES04F0036	RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2004-08-11
RES05F0345	RESSEGUIE, L. (UNIVERSITY OF CALIFORNIA, BERKELEY) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2005-08-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 56577

EO Index: 56593

Key Quad: Clarksburg (3812145)

Element Code: ABNKC19070

Occurrence Number: 1336

Occurrence Last Updated: 2012-12-20

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: **Global:** G5

IUCN_LC-Least Concern

State: S3

USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-05-14

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2009-05-14

Occurrence Rank: Excellent

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

WEST SIDE OF JEFFERSON BOULEVARD (HIGHWAY 84) AND ALONG THE SOUTH OF BABEL SLOUGH, 3.25 MILES NW OF CLARKSBURG.

Detailed Location:

1992: DETECTION IN VICINITY, REPORTED ON FIELD SURVEY FORM. 2004-05: RESSEGUIE SITE "CLARKSBURG 8" FROM FIELD SURVEY FORMS. 2009: NESTING SITE PER DWR, FROM SHAPEFILE OF BAY DELTA CONSERVATION PLAN SURVEY DATA 2009-2010.

Ecological:

2004: NEST IN LARGE VALLEY OAK AT 80% HEIGHT; AT THE SOUTH MARGIN OF AN OPEN FIELD. 2005: GREAT HORNED OWL OCCUPYING 2004 NEST, NEW NEST NOT FOUND. 2009: NEST IN BAND OF OAKS BETWEEN WHEAT & ALFALFA FIELDS.

Threats:

General:

1992: 1 SEEN FORAGING IN VICINITY. 2004: NEST MONITORED 4 MAY-3 AUG; 1 YOUNG FLEDGED. NEST SITE MONITORED IN 2005 WITH ADULTS PRESENT APR-JUL, BUT NO NEST FOUND. ATLEAST 1, MAYBE 2, ACTIVE NESTS OBSERVED IN 2009; SUCCESS UNKNOWN.

PLSS: T07N, R04E, Sec. 19 (M)

Accuracy: nonspecific area

Area (acres): 17

UTM: Zone-10 N4256253 E623559

Latitude/Longitude: 38.44602 / -121.58409

Elevation (feet): 5

County Summary:

Yolo

Quad Summary:

Clarksburg (3812145)

Sources:

DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23

RES04F0037 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2004-08-03

RES05F0344 RESSEGUIE, L. (UNIVERSITY OF CALIFORNIA, BERKELEY) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2005-07-13

SCO92F0027 SCOONOVER, R. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1992-04-21



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 56578

EO Index: 56594

Key Quad: Clarksburg (3812145)

Element Code: ABNKC19070

Occurrence Number: 1337

Occurrence Last Updated: 2011-09-29

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: **Global:** G5

IUCN_LC-Least Concern

State: S3

USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2005-08-18

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2005-08-18

Occurrence Rank: Good

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

EAST SIDE OF JEFFERSON BOULEVARD (HIGHWAY 84), 0.3 MILE SOUTH OF WILLOW POINT ROAD, 2.6 MILES WEST OF CLARKSBURG.

Detailed Location:

RESSEGUIE'S CLARKSBURG 10. 2004 NEST WAS LOCATED AT THE 90% HEIGHT OF AN EAST SHOULDER BLACK WALNUT.

Ecological:

NEST TREE WAS A BLACK WALNUT; SURROUNDED BY CULTIVATED LAND TO THE EAST, VINEYARD TO THE WEST, AND HARVEY LYMAN AG SERVICE TO THE SW.

Threats:

General:

NEST SITE MONITORED 15 MAY-3 AUG 2004; 1 YOUNG FLEDGED. NEST MONITORED 29 MAR-18 AUG 2005; ADULTS OBSERVED DEFENDING THE 2004 NEST, BUT NO YOUNG OBSERVED.

PLSS: T07N, R04E, Sec. 30 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4253879 E623706

Latitude/Longitude: 38.42461 / -121.58282

Elevation (feet): 5

County Summary:

Quad Summary:

Yolo

Clarksburg (3812145)

Sources:

RES04F0038 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2004-08-03

RES05F0343 RESSEGUIE, L. (UNIVERSITY OF CALIFORNIA, BERKELEY) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2005-08-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 56579	EO Index: 56595
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1338	Occurrence Last Updated: 2013-01-24

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH SIDE OF CLARKSBURG ROAD, 0.3 MILE WEST OF JEFFERSON BOULEVARD, 3 MILES WEST OF CLARKSBURG.

Detailed Location:
2004-2005: NEST WAS LOCATED AT THE 80% HEIGHT OF THE TALLEST WILLOW ON THE NORTH SIDE OF A DITCH ALONG THE NORTH SIDE OF THE ROAD. RESSEGUIE'S CLARKSBURG 13. 2007: SITE YO58 FROM 2008 ESTEP REPORT, GIVEN COORDINATES ABOUT 90 M EAST.

Ecological:
2004-05: NEST TREE WAS A WILLOW; SURROUNDED BY ALFALFA TO THE NE, RUDERAL TO THE NW, AND SUDAN GRASS TO THE SOUTH. 2007: NEST IN WILLOW IN ROADSIDE TREE ROW, SURROUNDED BY ALFALFA AND IRRIGATED CROPS.

Threats:
General:
NEST SITE MONITORED 6 JUN-27 JUL 2004; 3 YOUNG FLEDGED. NEST MONITORED 12 FEB-28 JUL 2005; 1 YOUNG FLEDGED. NEST IN 2007 FAILED.

PLSS: T07N, R03E, Sec. 36 (M)	Accuracy: specific area	Area (acres): 9
UTM: Zone-10 N4252769 E623215	Latitude/Longitude: 38.41467 / -121.58863	Elevation (feet): 5

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Sources:

EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
RES04F0039	RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2004-07-27
RES05F0342	RESSEGUIE, L. (UNIVERSITY OF CALIFORNIA, BERKELEY) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2005-07-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 56581	EO Index: 56597
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1339	Occurrence Last Updated: 2013-05-10

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-07-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-07-14	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG WILLOW POINT ROAD, ABOUT 0.5 MILES EAST OF JEFFERSON BOULEVARD & 2.25 MILES WNW OF CLARKSBURG.

Detailed Location:
1994: TERRITORY "YO" (NO # ASSIGNED) FROM DFG DATABASE OF SWHA OBSERVATIONS, 1979-94. 2004-05: RESSEGUE SITE "CLARKSBURG 15." 2004 NEST ON S SIDE OF ROAD. 2005 NEST 0.1 MI E, ON N SIDE. 2009: POINT FROM DFG SHAPEFILE OF NEST RECORDS, 2009.

Ecological:
1994: NEST IN NATIVE TREE. 2004: NEST AT 90% HEIGHT IN SYCAMORE SURROUNDED BY ALFALFA, WITH TOMATOES SE. 2005: NEST IN TALL ROADSIDE PINE AT 95% HEIGHT. 2009: PRESUMED NEST IN 50' NON-NATIVE TREE, SURROUNDED BY VINEYARD WITH CROPS TO NW.

Threats:
General:
1994: NEST WITH 2 YOUNG OBSERVED ON 4 AUG. 2004: NEST MONITORED 10 JUL-3 AUG; 2 YOUNG HATCHED, 1 FLEDGED & 1 PREDATED. 2005: ACTIVE NEST MONITORED 6 MAR-18 AUG; NO YOUNG DETECTED. 2009: ACTIVITY OBS AROUND NEST ON 14 JUL, NO YOUNG DETECTED.

PLSS: T07N, R04E, Sec. 29 (M)	Accuracy: specific area	Area (acres): 14
UTM: Zone-10 N4254428 E624586	Latitude/Longitude: 38.42943 / -121.57264	Elevation (feet): 5

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Sources:

DFG09D0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
RES04F0040	RESSEGUE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2004-08-03
RES05F0341	RESSEGUE, L. (UNIVERSITY OF CALIFORNIA, BERKELEY) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2005-08-18



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	56585	EO Index:	56601
Key Quad:	Clarksburg (3812145)	Element Code:	ABNKC19070
Occurrence Number:	1340	Occurrence Last Updated:	2011-09-29

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2004-08-03	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2005-07-28	Occurrence Rank:	Good
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
SOUTH SIDE OF WILLOW POINT ROAD, 0.4 MILE WEST OF WILLOW AVENUE, 0.7 MILE NW OF CLARKSBURG.

Detailed Location:
RESSEGUIE'S CLARKSBURG 17. 2004 NEST WAS LOCATED AT THE 90% HEIGHT OF A MULTI-TRUNKED BLUE GUM EUCALYPTUS, AT THE SW CORNER OF THE FARMSTEAD AT 52105 WILLOW POINT ROAD.

Ecological:
NEST TREE WAS A BLUE GUM EUCALYPTUS; SURROUNDED BY CULTIVATED LAND.

Threats:
General:
NEST SITE MONITORED 27 JUL-3 AUG 2004; 1 YOUNG FLEDGED. NEST SITE MONITORED 20 APR-28 JUL 2005; UNOCCUPIED IN 2005.

PLSS:	T07N, R04E, Sec. 28 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4254036 E627097	Latitude/Longitude:	38.42554 / -121.54396	Elevation (feet):	5

County Summary:	Quad Summary:
Yolo	Clarksburg (3812145)

Sources:
RES04F0042 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2004-08-03
RES05F0340 RESSEGUIE, L. (UNIVERSITY OF CALIFORNIA, BERKELEY) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2005-07-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 56590

EO Index: 56606

Key Quad: Sacramento West (3812155)

Element Code: ABNKC19070

Occurrence Number: 1343

Occurrence Last Updated: 2011-09-29

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2004-08-03

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2005-07-28

Occurrence Rank: Good

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

EAST SIDE OF JEFFERSON BOULEVARD, 0.1 MILE NORTH OF BEVAN ROAD, 2.5 MILES SOUTH OF THE PORT OF SACRAMENTO.

Detailed Location:

RESSEGUIE'S SACRAMENTO WEST 2. 2004 NEST WAS AT THE 85% HEIGHT, ON THE NORTH SIDE OF A BLACK WALNUT IN THE MIDDLE OF THE SOUTH EDGE OF THE FORMER FARMSTEAD AT 3975 JEFFERSON BOULEVARD.

Ecological:

NEST TREE WAS A BLACK WALNUT; SURROUNDED BY RUDERAL AND ABANDONED ALFALFA.

Threats:

THREATENED BY IMMINENT DEVELOPMENT.

General:

NEST SITE MONITORED 6 JUN-3 AUG 2004; INCUBATION, BUT NO YOUNG FLEDGED. NEST SITE MONITORED 29 MAR-28 JUL 2005; ONLY PERCHING SWHA OBSERVED DURING 4 VISITS.

PLSS: T08N, R04E, Sec. 20 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4265053 E625289

Latitude/Longitude: 38.52506 / -121.56269

Elevation (feet): 10

County Summary:

Yolo

Quad Summary:

Sacramento West (3812155)

Sources:

RES04F0046 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2004-08-03

RES05F0348 RESSEGUIE, L. (UNIVERSITY OF CALIFORNIA, BERKELEY) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2005-07-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 62340	EO Index: 62377
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1451	Occurrence Last Updated: 2013-01-29

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-07-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-07-14	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH SHOULDER OF CLARKSBURG ROAD, 0.8 MILE WEST OF JEFFERSON BOULEVARD, 3.5 MILES WEST OF CLARKSBURG.

Detailed Location:
2005: NEST IN FIRST TREE EAST OF THE DIRT ROAD LEADING N, ON N SIDE OF CLARKSBURG RD, RESSEGUIE SITE CLARKSBURG 20; UTMS FROM FIELD SURVEY FORM. 2009: DETECTION FROM DFG SHAPEFILE OF NEST SITES RECORDED 2009, ABOUT 0.1 MILES FURTHER SE.

Ecological:
2005: NEST AT 90% HEIGHT IN OAK WITHIN A LINE OF TREES ALONG THE NORTH SHOULDER; SURROUNDED BY ALFALFA TO THE NORTH AND SOUTH. 2009: POSSIBLE NEST IN 30' TREE CODED AS "OTHER EXOTIC" (NOT EUCALYPTUS OR WALNUT), SURROUNDED BY ALFALFA.

Threats:
General:
2005: NEST MONITORED 10 APR-9 AUG; 2 FLEDGED. 2009: SWAINSON'S HAWK ACTIVITY OBSERVED IN VICINITY ON 14 JUL; ACTIVE NEST PRESUMED, BUT SUCCESS UNKNOWN.

PLSS: T07N, R03E, Sec. 36 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4252766 E622427	Latitude/Longitude: 38.41476 / -121.59765	Elevation (feet): 5

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Sources:

DFG09D0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009 -XX-XX
RES05F0018	RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2005-08-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 62361	EO Index: 62398
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1461	Occurrence Last Updated: 2005-08-23

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2005-07-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-07-28	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH SHOULDER OF CENTRAL AVENUE, 0.3 MILE EAST OF Z LINE ROAD, 4.5 MILES WSW OF CLARKSBURG.

Detailed Location:
NEST LOCATED AT THE 80% HEIGHT, SOUTH OF CENTER, OF THE EASTMOST SHOULDER TREE.

Ecological:
NEST TREE IS A BLACK WALNUT.

Threats:

General:
NEST MONITORED 10 APR-28 JUL 2005; ADULTS OBSERVED NEST-BUILDING ON 10 APR, WHITEWASH AND PELLETS BENEATH TREE ON 12 JUN, AND ADULTS PRESENT, BUT NO CHICK EVER DETECTED.

PLSS: T06N, R03E, Sec. 02 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4250348 E621727	Latitude/Longitude: 38.39306 / -121.60610	Elevation (feet): 5

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Sources:
RES05F0030 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2005-07-28



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 62366	EO Index: 62403
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1462	Occurrence Last Updated: 2005-08-23

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2005-07-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-07-13	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH SIDE OF WILLOW POINT ROAD, 1.3 MILES EAST OF JEFFERSON BOULEVARD, 1.6 MILES WNW OF CLARKSBURG.

Detailed Location:
NEST LOCATED AT THE 90% HEIGHT, JUST SOUTH OF THE TREES AROUND THE FARMSTEAD HOUSE.

Ecological:
NEST TREE IS A BLACK WALNUT; SURROUNDED BY ALFALFA TO THE SOUTH AND CULTIVATED LAND TO THE NORTH.

Threats:
General:
NESTING STRONGLY SUSPECTED IN 2004, BUT NEVER CONFIRMED. NEST MONITORED 20 APR-13 JUL 2005; 2 FLEDGED.

PLSS: T07N, R04E, Sec. 29 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4254304 E625886	Latitude/Longitude: 38.42814 / -121.55777	Elevation (feet): 3

County Summary:	Quad Summary:
Yolo	Clarksburg (3812145)

Sources:
RES05F0031 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2005-07-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 62368

EO Index: 62405

Key Quad: Clarksburg (3812145)

Element Code: ABNKC19070

Occurrence Number: 1463

Occurrence Last Updated: 2012-12-20

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-04-15

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2009-04-15

Occurrence Rank: Excellent

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

ALONG TULE ROAD, ABOUT 0.4 MILES SOUTH OF CLARKSBURG ROAD INTERSECTION & 1.7 MILES SW OF CLARKSBURG.

Detailed Location:

MAPPED TO COORDINATES FROM 2005 FIELD SURVEY FORM & DFG SHAPEFILE OF NEST SITES FROM 2009.

Ecological:

2005: NEST IN TALL COTTONWOOD AT 75% HEIGHT; ALFALFA TO THE NORTH & SOUTH AND VINEYARDS TO THE EAST. 2009: NEST IN 30' VALLEY OAK WITH VINEYARDS TO EAST AND ALFALFA & OTHER CROPS TO WEST.

Threats:

General:

2005: ACTIVE NEST MONITORED MAY-JUL; 1 DOWNY CHICK OBSERVED ON 12 JUN WAS LATER PREDATED (CARCASS FOUND JUST SOUTH OF NEST TREE). 2009: ACTIVE NEST, INCUBATION OBSERVED ON 15 APR.

PLSS: T07N, R04E, Sec. 33 (M)

Accuracy: specific area

Area (acres): 10

UTM: Zone-10 N4252223 E626154

Latitude/Longitude: 38.40935 / -121.55507

Elevation (feet): 3

County Summary:

Quad Summary:

Yolo

Clarksburg (3812145)

Sources:

DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009 -XX-XX

RES05F0032 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2005-07-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 62369	EO Index: 62406
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1464	Occurrence Last Updated: 2012-12-20

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-05-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-05-18	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH SIDE OF CENTRAL AVENUE, JUST EAST OF MAIN SLOUGH (=MAIN DRAINAGE CANAL), ABOUT 2.6 MILES SW OF CLARKSBURG.

Detailed Location:
2005: NEST LOCATED OVER THE NORTH ROAD SHOULDER, IN THE FIRST BLACK WALNUT EAST OF THE SLOUGH; UTMS FROM FIELD SURVEY FORM. 2009: NEST ABOUT 1/4 MILE FURTHER EAST ON CENTRAL; COORDINATES FROM DFG SHAPEFILE OF NEST RECORDS FROM 2009.

Ecological:
2005: NEST TREE WAS A BLACK WALNUT SURROUNDED BY ALFALFA TO THE SOUTH AND CULTIVATED LAND TO THE NORTH. 2009: NEST IN TREE CODED AS "OTHER NATIVE" (NOT VALLEY/BLUE OAK, COTTONWOOD, WILLOW, OR PINE), WITH ALFALFA TO NORTH & CROPLAND SOUTH.

Threats:

General:
NEST MONITORED 29 MAY-28 JUL 2005; 1 FLEDGED. ACTIVE NEST WITH INCUBATION OBSERVED ON 18 MAY 2009.

PLSS: T06N, R04E, Sec. 05 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4250714 E625080	Latitude/Longitude: 38.39590 / -121.56764	Elevation (feet): 1

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Sources:

DFG09D0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009 -XX-XX
RES05F0033	RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2005-07-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 62531

EO Index: 62568

Key Quad: Clarksburg (3812145)

Element Code: ABNKC19070

Occurrence Number: 1478

Occurrence Last Updated: 2013-01-23

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2007-XX-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2007-XX-XX

Occurrence Rank: Good

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

BABEL SLOUGH, ABOUT 0.8 MI SW OF SACRAMENTO NORTHERN RR CROSSING & 1 MI SE OF ARCADE, E SIDE SACRAMENTO RIVER.

Detailed Location:

RESSEGUIE'S CLARKSBURG 36 SITE. MAPPED TO COORDINATES GIVEN FOR SITE YO-56 FROM 2008 ESTEP REPORT.

Ecological:

2005 NEST TREE NOT LOCATED; SITE WAS SURROUNDED BY VINEYARD TO THE NORTH AND CULTIVATED LAND SOUTH. 2007: NEST IN RIPARIAN COTTONWOOD SURROUNDED BY ALFALFA, VINEYARDS, AND IRRIGATED CROPLANDS.

Threats:

General:

NEST SITE MONITORED 14 JUL-18 AUG 2005; NO NEST FOUND, BUT 2 YOUNG FLEDGED. NEST WITH 1 YOUNG OBSERVED DURING 2007 SURVEY.

PLSS: T07N, R04E, Sec. 08 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4258748 E625235

Latitude/Longitude: 38.46826 / -121.56443

Elevation (feet): 10

County Summary:

Quad Summary:

Yolo

Clarksburg (3812145)

Sources:

EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX

RES05F0046 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2005-08-18



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 62533	EO Index: 62570
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1479	Occurrence Last Updated: 2013-01-23

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
BABEL SLOUGH, ABOUT 1.5 MILES NNE OF JEFFERSON BLVD AT REAMER LN, ABOUT 3.5 MILES WEST OF FREEPORT.

Detailed Location:
RESSEGUIE SITE CLARKSBURG 1. MAPPED TO COORDINATES GIVEN FOR SITE YO-87 FROM 2008 ESTEP REPORT.

Ecological:
2004-2005: NEST TREE NOT LOCATED; SITE WAS SURROUNDED BY VINEYARD TO THE EAST AND WEST. 2007: NEST IN ROADSIDE VALLEY OAK SURROUNDED BY ALFALFA, IRRIGATED CROPS, AND VINEYARDS.

Threats:
General:
NEST WAS SUSPECTED IN 2004, BUT NO NEST OR CHICK WERE FOUND. NEST SITE MONITORED 10 APR-9 AUG 2005; NO NEST FOUND, BUT 1 FLEDGED JUVENILE OBSERVED. ACTIVE NEST OBSERVED DURING 2007 SURVEY; SUCCESS UNKNOWN.

PLSS: T07N, R04E, Sec. 17 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4258193 E624931	Latitude/Longitude: 38.46330 / -121.56802	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Clarksburg (3812145)

Sources:

EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
RES05F0047	RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2005-08-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 62634	EO Index: 62671
Key Quad: Rio Linda (3812164)	Element Code: ABNKC19070
Occurrence Number: 1487	Occurrence Last Updated: 2013-03-26

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2001-07-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2001-07-02	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH OF LOCUST ROAD, 0.2 MILES SOUTH OF THE INTERSECTION OF BROWNING STREET AND LOCUST ROAD, 2 MILES NORTH OF ELVERTA.

Detailed Location:

Ecological:
NEST TREE WAS A 50' EUCALYPTUS; SURROUNDED BY RESIDENTIAL TO THE NE AND NW, AND GRASSLAND TO THE SE AND SW.

Threats:

General:
3 ADULTS PRESENT ON 13 APR 2001; 1 ADULT IN THE NEST AND 1 DELIVERING STICKS. ON 2 JUL 2001, THERE WERE 2 ALMOST COMPLETELY FEATHERED YOUNG IN THE NEST.

PLSS: T10N, R05E, Sec. 07 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4289374 E633047	Latitude/Longitude: 38.74304 / -121.46907	Elevation (feet): 55

County Summary: Placer	Quad Summary: Rio Linda (3812164)
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Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
GIF01F0002	GIFFORD, D. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2001-04-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 62976	EO Index: 63049
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 1541	Occurrence Last Updated: 2013-04-05

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-06-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-06-10	Occurrence Rank: Unknown
Owner/Manager: DFG-YOLO BYPASS WA	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG THE EAST BOUNDARY OF THE YOLO BASIN WILDLIFE AREA, ABOUT 0.4 MI W OF OATES STREET AT RAMOS DRIVE, WEST SACRAMENTO.

Detailed Location:
MAPPED TO COORDINATES GIVEN IN CDFW NEST RECORDS, AND FOR SITE YO-72 FROM ESTEP'S 2008 REPORT.

Ecological:
NEST TREES WERE RIPARIAN COTTONWOODS. SURROUNDING HABITAT CHARACTERIZED AS FALLOW/RUDERAL LAND AND ROW CROPS IN 2004, SEASONAL WETLANDS/URBAN AREAS/IRRIGATED CROPS IN 2007, AND FALLOW LAND AND SEASONAL WETLANDS IN 2009.

Threats:
General:
ACTIVE NEST OBSERVED 6 MAY 2003 WAS SUBSEQUENTLY DESTROYED IN A WIND STORM. ACTIVE NEST OBS ON 28 APR 2004. ACTIVE NEST OBS DURING 2007 SURVEY; NESTING OUTCOME UNKNOWN. NEST WITH YOUNG OBS ON 10 JUN 2009; FLEDGING SUCCESS UNKNOWN.

PLSS: T08N, R04E, Sec. 18 (M)	Accuracy: nonspecific area	Area (acres): 19
UTM: Zone-10 N4267392 E623207	Latitude/Longitude: 38.54642 / -121.58615	Elevation (feet): 15

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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- Sources:**
- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
 - DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX
 - EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 62991	EO Index: 63064
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1545	Occurrence Last Updated: 2012-12-21

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-04-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-04-28	Occurrence Rank: Unknown
Owner/Manager: DFG-YOLO BYPASS WA, UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
YOLO BYPASS WILDLIFE AREA, 1.75 MILES SE OF THE INTERSECTION OF ROAD 34A & ROAD 106A, 5 MILES SE OF DAVIS.

Detailed Location:
2004: MAPPED TO COORDINATES FROM DFG DATABASE OF SWAINSON'S HAWK NEST RECORDS 2000-2004. 2009: NEST TREE ABOUT 1/4 MILE TO SW, MAPPED TO POINT IN DFG SHAPEFILE OF NEST RECORDS FROM 2009.

Ecological:
2004: NEST TREE WAS IN A COTTONWOOD GROVE SURROUNDED BY ROW CROPS IN ALL DIRECTIONS. 2009: NEST IN 25' WILLOW SURROUNDED BY CROPLAND.

Threats:
General:
2004: COPULATION OBSERVED NEAR NEST ON 28 APR; EXACT NEST LOCATION/NEST SUCCESS UNKNOWN. 2009: ACTIVE NEST, INCUBATION OBSERVED ON 28 APR; NEST SUCCESS UNKNOWN.

PLSS: T08N, R03E, Sec. 35 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4261778 E620277	Latitude/Longitude: 38.49624 / -121.62073	Elevation (feet): 10

County Summary: Yolo	Quad Summary: Clarksburg (3812145), Saxon (3812146)
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Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
DFG09D0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	64685	EO Index:	64764
Key Quad:	Rio Linda (3812164)	Element Code:	ABNKC19070
Occurrence Number:	1629	Occurrence Last Updated:	2006-05-15

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2002-07-18	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-07-18	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
EAST EDGE OF AMERICAN BASIN, 1.1 MILES SW OF THE INTERSECTION OF ELKHORN BOULEVARD & WEST 6TH STREET, WEST OF RIO LINDA.

Detailed Location:

Ecological:
NEST TREE WAS A VALLEY OAK, WITH THE NEST LOW IN THE NEST TREE; SURROUNDED BY ROW CROPS TO THE NW AND SW, AND RIPARIAN TO THE NE AND SE.

Threats:
General:
NEST SITE ACTIVE ON 19 APR, 6 JUN, AND 18 JUL 2002; 1 PARTIALLY-FEATHERED CHICK PRESENT IN NEST ON 6 JUN 2002, AND 2 ADULTS AND 1 JUVENILE FORAGING ON 18 JUL 2002.

PLSS: T10N, R04E, Sec. 36 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4282014 E631041	Latitude/Longitude: 38.67703 / -121.49353	Elevation (feet): 18

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64907	EO Index: 64986
Key Quad: Carmichael (3812153)	Element Code: ABNKC19070
Occurrence Number: 1641	Occurrence Last Updated: 2007-05-25

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-05-16	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-05-16	Occurrence Rank: Good
Owner/Manager: PVT-GENCORP AEROJET	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH OF WHITE ROCK ROAD, 0.5 MILE EAST OF SUNRISE BOULEVARD, RANCHO CORDOVA.

Detailed Location:
NESTS WERE ALL LOCATED IN COTTONWOODS, WITH THE 2006-07 NEST TREE LOCATED ~1000' NORTH OF THE 2005 NEST TREE. SITE IS SURROUNDED BY COMMERCIAL DEVELOPMENT TO THE WEST, AND DREDGER TAILINGS TO THE NORTH, EAST, AND SOUTH.

Ecological:
NEST TREE WAS A COTTONWOOD, SURROUNDED BY SCATTERED COTTONWOODS AND OAKS, AND AN UNDERSTORY COMPOSED PRIMARILY OF DREDGER TAILINGS. ANNUAL GRASSES, THISTLES AND OTHER HERBACEOUS VEGETATE THE DREDGER TAILINGS.

Threats:
General:
IN 2005, A SWHA PAIR NESTED JUST NORTH OF WHITE ROCK ROAD. ON 8 JUN 2006, A FEMALE WAS OBSERVED ON A NEST IN A TREE 1000' NORTH OF THE 2005 NEST TREE. PAIR OBSERVED NESTING ON 16 MAY 2007 IN THE 2006 NEST TREE.

PLSS: T09N, R07E, Sec. 31 (M)	Accuracy: specific area	Area (acres): 17
UTM: Zone-10 N4273046 E651960	Latitude/Longitude: 38.59290 / -121.25511	Elevation (feet): 130

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

BAL06F0001	BALLARD, A. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2006-06-08
BAL07F0001	BALLARD, A. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2007-05-16



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 64999	EO Index: 65078
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1643	Occurrence Last Updated: 2006-07-05

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2006-06-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-06-23	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
0.7 MILE SW OF FREEPORT BEND ON THE SACRAMENTO RIVER, 0.75 MILE WEST OF FREEPORT.

Detailed Location:
NEST TREE WAS LOCATED FAIRLY CLOSE TO THE SACRAMENTO RIVER.

Ecological:
NEST TREE WAS A LARGE WILLOW ADJACENT TO AN AGRICULTURAL DITCH, LOCATED WITHIN RIPARIAN VEGETATION DOMINATED BY WILLOW, BLACKBERRY, AND REEDS. ALFALFA FIELDS AND VINEYARDS ARE FOUND ADJACENT TO THE NEST TREE.

Threats:
THREATENED BY POTENTIAL FUTURE HOUSING DEVELOPMENT.

General:
2 ADULTS OBSERVED NEST-BUILDING ON 23 JUN 2006.

PLSS: T07N, R04E, Sec. 14 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4258381 E629442	Latitude/Longitude: 38.46436 / -121.51629	Elevation (feet): 7

County Summary:	Quad Summary:
Yolo	Clarksburg (3812145)

Sources:
TWE06F0003 TWEEDY, C. & P. STONE (JONES AND STOKES ASSOCIATES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2006-06-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 65482	EO Index: 65561
Key Quad: Sacramento East (3812154)	Element Code: ABNKC19070
Occurrence Number: 1645	Occurrence Last Updated: 2006-07-31

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2005-05-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-05-15	Occurrence Rank: Good
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Unknown
Presence: Presumed Extant	

Location:
BETWEEN NATOMAS EAST MAIN DRAIN AND THE LOWER AMERICAN RIVER, 0.7 MILE EAST OF I-5, DISCOVERY PARK, SACRAMENTO.

Detailed Location:
NEST SITE WAS LOCATED WITHIN A 23-MILE EXPANSE OF RIPARIAN PROTECTED BY THE AMERICAN RIVER PARKWAY. ~15 ACRES OF GRASSLAND FORAGING HABITAT IN THE VICINITY TO BE RESTORED TO RIPARIAN FOREST TO MITIGATE FOR VALLEY ELDERBERRY LONGHORN BEETLE.

Ecological:
NEST TREE WAS A FREMONT COTTONWOOD WITHIN A LARGE STAND OF COTTONWOODS NEAR THE LOWER AMERICAN RIVER (RIGHT BANK).

Threats:
THREATENED BY LONG-TERM LOSS OF LARGE NEST TREES (FIRE, SENESCENCE, & BANK EROSION) & LACK OF NATURAL TREE REGENERATION.

General:
NEST WITH 2 ADULTS OBSERVED ON 15 MAY 2005.

PLSS: T09N, R04E, Sec. 25 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4274052 E631106	Latitude/Longitude: 38.60529 / -121.49429	Elevation (feet):

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:
BUR05F0002 BURWELL, T.A. (SACRAMENTO COUNTY PARKS) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2005-05-15



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 65488

EO Index: 65567

Key Quad: Sacramento East (3812154)

Element Code: ABNKC19070

Occurrence Number: 1646

Occurrence Last Updated: 2006-07-31

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2006-06-06

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2006-06-06

Occurrence Rank: Good

Owner/Manager: SAC COUNTY-PARKS & REC

Trend: Unknown

Presence: Presumed Extant

Location:

AMERICAN RIVER, 0.6 MILE UPSTREAM OF THE HOWE AVENUE BRIDGE, SACRAMENTO.

Detailed Location:

NEST SITE IS LOCATED WITHIN A 23-MILE EXPANSE OF RIPARIAN PROTECTED BY THE AMERICAN RIVER PARKWAY. NEST TREE IS SITUATED AWAY FROM ACTIVE RECREATION USES, AND THERE IS NO ACCESS TO THIS SITE EXCEPT BY BOAT.

Ecological:

NEST TREE WAS A FREMONT COTTONWOOD WITHIN A SMALL STAND OF COTTONWOODS ON A MID-CHANNEL ISLAND IN THE AMERICAN RIVER (LEFT BANK). SURROUNDING VEGETATION CONSISTS OF ARROYO WILLOW, YELLOW WILLOW, NARROW-LEAFED WILLOW, OREGON ASH, & SYCAMORE.

Threats:

THREATENED BY LONG-TERM LOSS OF LARGE NEST TREES (FIRE, SENESCENCE, & BANK EROSION) & LACK OF NATURAL TREE REGENERATION.

General:

2 ADULTS OBSERVED NESTING ON 6 JUN 2006.

PLSS: T08N, R05E, Sec. 11 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4269368 E639522

Latitude/Longitude: 38.56181 / -121.39861

Elevation (feet): 25

County Summary:

Sacramento

Quad Summary:

Sacramento East (3812154)

Sources:

BUR06F0001 BURWELL, T.A. (SACRAMENTO COUNTY PARKS) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2006-06-06



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 66271

EO Index: 66353

Key Quad: Taylor Monument (3812165)

Element Code: ABNKC19070

Occurrence Number: 1658

Occurrence Last Updated: 2013-03-25

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2011-06-26

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2011-06-26

Occurrence Rank: Fair

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

BETWEEN I-5 AND SOUTH BAYOU WAY, 0.9 MILE EAST OF POWERLINE ROAD, SE OF SACRAMENTO METROPOLITAN AIRPORT.

Detailed Location:

MAPPED TO LOCATIONS FROM FIELD SURVEY FORMS. 2006 NEST SITE WAS ABOUT 100' S OF I-5. AREA ON WHICH THE NEST TREE IS FOUND IS UNCULTIVATED/UNDEVELOPED, POSSIBLY AN EXCESS LAND PARCEL OWNED BY CALTRANS.

Ecological:

2006 NEST IN 30' WILLOW IN RIPARIAN WOODLAND CONSISTING OF WILLOWS, SEASONAL DRAINAGE DITCH (SUPPORTING CATTAILS, BULRUSH, GRASSES, SEDGES) & RUDERAL GRASSLAND; PARCEL POSSIBLY OWNED BY CALTRANS. 2011 NEST IN WILLOW SURROUNDED BY GRASSLAND.

Threats:

DISTURBANCE FROM BIRDWATCHERS, THREAT FROM ENCROACHING DEVELOPMENT (2011).

General:

ADULTS FIRST OBSERVED IN COURTSHIP IN EARLY APR 2006; DURING THE FOLLOWING WEEK, NEST-BUILDING BEGAN. 2 YOUNG FLEDGED FROM THIS NEST BY 10 AUG 2006. NEST WITH TWO NEARLY-FLEDGED YOUNG OBSERVED ON 26 JUN 2011.

PLSS: T09N, R04E, Sec. 05 (M)

Accuracy: specific area

Area (acres): 10

UTM: Zone-10 N4281210 E625207

Latitude/Longitude: 38.67063 / -121.56073

Elevation (feet): 15

County Summary:

Quad Summary:

Sacramento

Taylor Monument (3812165)

Sources:

- CRI06F0001 CRIBBS, H. (CRIBBS AND ASSOCIATES, INC.) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2006-08-10
- CRI06I0001 CRIBBS, H. (CRIBBS AND ASSOCIATES, INC.) - IMAGES OF BUTEO SWAINSONI NEST SITE, ADULTS, AND 2006-08-10
- GRA11F0001 GRAY, F. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2011-06-26



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 68597	EO Index: 68981
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 1678	Occurrence Last Updated: 2007-03-20

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2006-05-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-05-02	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG LAGUNA CREEK, 0.2 MILE NNE OF THE CROSSING OF CALVINE ROAD OVER LAGUNA CREEK, ELK GROVE.

Detailed Location:
NEST TREE IS TO BE PRESERVED DURING THE CONSTRUCTION OF A NEW NEW SCHOOL, BUT FORAGING AREA WILL BE LOST.

Ecological:
NEST TREE IS A VALLEY OAK (30" DBH) LOCATED ADJACENT TO LAGUNA CREEK; SURROUNDED BY GRASSLAND/DRY FARMLAND, DOMINATED BY TAENIATHERUM CAPUT-MEDUSAE.

Threats:
THREATENED BY LOSS OF FORAGING HABITAT TO DEVELOPMENT (CONSTRUCTION OF A NEW SCHOOL).

General:
NEST WITH 2 ADULTS AND 1 JUVENILE OBSERVED ON 2 MAY 2006; NEST TREE WAS MONITORED FROM MAR-AUG 2006.

PLSS: T07N, R06E, Sec. 17 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4257626 E644616	Latitude/Longitude: 38.45522 / -121.34259	Elevation (feet): 58

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
STA06F0011 STACKHOUSE, E.L. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2006-05-02



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 68943	EO Index: 69577
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 1679	Occurrence Last Updated: 2007-04-16

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-04-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-04-10	Occurrence Rank: Good
Owner/Manager: CITY OF ELK GROVE	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST NW OF THE INTERSECTION OF HIGHWAY 99 AND GRANT LINE ROAD, ALONG WEST STOCKTON BOULEVARD, ELK GROVE.

Detailed Location:
NEST TREE WAS LOCATED WITHIN A LINE OF OAKS AND EUCALYPTUS TREES BETWEEN WEST STOCKTON BOULEVARD AND HIGHWAY 99.

Ecological:
NEST TREE WAS A BLUE-GUM EUCALYPTUS; ANNUAL GRASSLAND LIES TO THE WEST.

Threats:

General:
2 DARK-MORPH SWHA'S OBSERVED BUILDING A LARGE STICK NEST ON 6 APR 2007; PAIR WAS AGAIN OBSERVED AT THE NEST SITE ON 10 APR 2007.

PLSS: T06N, R05E, Sec. 12 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4249910 E642191	Latitude/Longitude: 38.38610 / -121.37193	Elevation (feet): 45

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
CAL07F0001 CALDERARO, A. (PMC) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2007-04-06



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 69601	EO Index: 70374
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 1689	Occurrence Last Updated: 2013-04-08

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-06-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-06-28	Occurrence Rank: Unknown
Owner/Manager: PORT OF SACRAMENTO	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST SW OF THE INTERSECTION OF HARBOR BOULEVARD AND INDUSTRIAL BOULEVARD, WEST SACRAMENTO.

Detailed Location:
NEST TREE IS LOCATED ADJACENT TO THE ENTRANCE KIOSK AT THE PORT OF SACRAMENTO. SITE YO-36 FROM ESTEP'S 2008 REPORT.

Ecological:
NEST TREE IS A PINE; SURROUNDED BY AN ACTIVE INDUSTRIAL PORT AND DEEP WATER CHANNEL. BIRDS LIKELY FORAGE IN THE YOLO BYPASS.

Threats:
General:
ADULTS OBSERVED NEST-BUILDING IN MAR 2007, MATING AND INCUBATING EGGS IN APR 2007; 2 YOUNG OBSERVED DAILY AFTER HATCHING (HATCH DATE AROUND MAY 25) THROUGH 28 JUN 2007.

PLSS: T08N, R04E, Sec. 04 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4269956 E626288	Latitude/Longitude: 38.56909 / -121.55034	Elevation (feet): 14

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:

BEE07A0001	SACRAMENTO BEE - SACRAMENTO BEE (NEWSPAPER) ARTICLE REGARDING SWHA PAIR NESTING AT THE PORT OF SACRAMENTO. 2007-06-29
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
LAM07U0001	LAMARE, J. (FRIENDS OF SWAINSON'S HAWK) - MESSAGE POSTED ON THE FRIENDS OF SWAINSON'S HAWK LISTSERVE. 2007-06-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 69763	EO Index: 70572
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1693	Occurrence Last Updated: 2007-08-20

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2005-08-09	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-08-09	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
0.75 MILE NNE OF THE INTERSECTION OF BABEL SLOUGH ROAD AND PUMPHOUSE ROAD, 8 MILES SOUTH OF WEST SACRAMENTO.

Detailed Location:
SITE LOCATED ON THE EAST SIDE OF BABEL SLOUGH.

Ecological:
NEST TREE UNKNOWN, SINCE EXACT NEST LOCATION NEVER DETERMINED.

Threats:
General:
NESTING SUSPECTED, BUT NOT CONFIRMED, IN 2004. SITE CONSISTENTLY OCCUPIED AND DEFENDED BY ADULTS IN 2005; ADULTS PRESENT ON 28 MAY, 13 JUN, 13 JUL, AND 29 JUL 2005.

PLSS: T07N, R04E, Sec. 17 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4257587 E624773	Latitude/Longitude: 38.45787 / -121.56994	Elevation (feet): 12

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Sources:
RES05F0121 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2005-08-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 70094	EO Index: 70960
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 1695	Occurrence Last Updated: 2013-04-05

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG THE SACRAMENTO DEEP WATER CHANNEL, ABOUT 0.4 MILE W OF THE JUNCTION OF JEFFERSON BLVD & BURROWS AVE.

Detailed Location:
2 NEST SITES. SOUTH: MAPPED TO NEAREST NESTING HABITAT NEAR COORDINATES GIVEN ON 2001 SURVEY FORM. NORTH: MAPPED TO COORDINATES GIVEN FOR SITE YO-37 FROM ESTEP'S 2008 REPORT.

Ecological:
2001 NEST TREE WAS A 50' COTTONWOOD; SURROUNDED BY ROW CROPS TO THE NE AND SE, AND FALLOW FIELDS TO THE NW AND SW. 2007 NEST TREE WAS A COTTONWOOD IN CHANNELIZED RIPARIAN HABITAT, ADJACENT TO ALFALFA, IRRIGATED CROPS, AND SEASONAL WETLANDS.

Threats:
THREATENED BY DEVELOPMENT.

General:
ACTIVE NEST, INCUBATION OBSERVED ON 12 APR 2001. NEST WITH 1 YOUNG OBSERVED DURING JUN-AUG 2007 SURVEY; FLEDGING SUCCESS UNKNOWN.

PLSS: T08N, R04E, Sec. 30 (M)	Accuracy: nonspecific area	Area (acres): 22
UTM: Zone-10 N4263631 E623523	Latitude/Longitude: 38.51250 / -121.58320	Elevation (feet): 27

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
ROC01F0028	ROCCO, C. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2001-04-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 70106	EO Index: 70971
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 1697	Occurrence Last Updated: 2013-04-05

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2001-04-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2001-04-12	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG THE EAST SIDE OF THE SACRAMENTO DEEPWATER CHANNEL, 0.85 MILE NW OF THE JUNCTION OF BURROWS AVE AND JEFFERSON BLVD.

Detailed Location:
FORAGING SWAINSON'S HAWK OBSERVED NE OF THIS SITE IN 1991. MAPPED TO COORDINATES FOR CDFW NEST RECORD FROM 2001.

Ecological:
1991 DETECTION OF FORAGING HAWK IN ALFALFA FIELDS TO NE. 2001 NEST TREE WAS A COTTONWOOD; SURROUNDED BY ROW CROPS TO THE NE AND SE, AND FALLOW FIELDS TO THE NW & SW. SINCE THE DETECTIONS, THE AGRICULTURAL LAND TO THE NE HAS BEEN DEVELOPED.

Threats:
FORAGING HABITAT IS BEING REDUCED BY DEVELOPMENT.

General:
1 SWAINSON'S HAWK OBSERVED FORAGING ON GROUND IN 1991. ACTIVE NEST, INCUBATION OBSERVED ON 12 APR 2001, OUTCOME UNKNOWN.

PLSS: T08N, R04E, Sec. 19 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4264747 E623545	Latitude/Longitude: 38.52255 / -121.58275	Elevation (feet): 30

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
ROC01F0029	ROCCO, C. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2001-04-12
SCO91F0026	SCOONOVER, R. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1991-07-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 71620

EO Index: 72523

Key Quad: Sacramento West (3812155)

Element Code: ABNKC19070

Occurrence Number: 1715

Occurrence Last Updated: 2013-05-07

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2010-07-21

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2010-07-21

Occurrence Rank: Fair

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

WEST SIDE OF THE SACRAMENTO RIVER JUST SOUTH OF TOWER BRIDGE (CAPITAL MALL) AND 0.2 MILES SE OF RALEY FIELD, WEST SAC.

Detailed Location:

MAPPED TO COORDINATES GIVEN FOR 2007 NEST, SITE YO-59 FROM ESTEP'S 2008 REPORT. 2008 AND 2010 NEST IN SAME LOCATION. NEST TREE WAS 400 FEET SOUTHEAST OF THE INTERSECTION OF BALLPARK DRIVE, 3RD STREET, & SOUTH RIVER ROAD IN WEST SACRAMENTO.

Ecological:

NEST IN RIPARIAN COTTONWOOD IN URBAN SURROUNDINGS. DISTURBANCE FROM TRANSIENT CAMPSITES UNDER NEST, BASEBALL EVENT PARKING. UNKNOWN WHERE THESE BIRDS MIGHT FORAGE; IT SEEMS THE NEAREST FORAGING HABITAT IS OVER 3 MILES AWAY TO THE NW OR W.

Threats:

PLANNED PEDESTRIAN TRAIL AND SCHEDULED DEVELOPMENT WOULD REDUCE IMMEDIATE MARGINAL FORAGING HABITAT (2010).

General:

NEST WITH 1 YOUNG OBSERVED DURING 2007 SURVEY; FLEDGING SUCCESS UNKNOWN. SIZEABLE CHICK WITH DARK BODY & WHITISH FACE IN AN OBVIOUS NEST OBSERVED IN 2008. NESTING PAIR MONITORED IN 2010; FLEDGED 2 YOUNG.

PLSS: T08N, R04E, Sec. 02 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4271054 E629739

Latitude/Longitude: 38.57849 / -121.51054

Elevation (feet): 30

County Summary:

Quad Summary:

Yolo

Sacramento West (3812155)

Sources:

- ALV10F0001 ALVARADO, C. (PBS&J) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2010-04-26
- ALV10U0001 ALVARADO, C. (PBS&J) - EMAIL REGARDING UPDATE FOR BUTEO SWAINSONI OCCURRENCE #1715 2010-07-21
- EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
- LAM08U0001 LAMARE, J. - EMAIL FROM JUDE LAMARE TO PROTECT THE SWAINSON'S HAWK YAHOO! EMAIL GROUP (SWAINSONSHAWK@YAHOOGROUPS.COM) ABOUT NEST WITH CHICK AT SAC RIVER AT O STREET ON WEST SAC SIDE. 2008-06-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 84532

EO Index: 85552

Key Quad: Sacramento East (3812154)

Element Code: ABNKC19070

Occurrence Number: 1769

Occurrence Last Updated: 2011-12-16

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2011-04-27

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2011-04-27

Occurrence Rank: Good

Owner/Manager: SAC COUNTY-PARKS & REC

Trend: Unknown

Presence: Presumed Extant

Location:

SOUTH SIDE OF GARDEN HWY ABOUT 0.5 ROAD MILES WEST OF NORTHGATE BLVD, AMERICAN RIVER PARKWAY.

Detailed Location:

ALONG RIPARIAN STRIP (STEELHEAD CREEK/NATOMAS EAST MAIN DRAINAGE CANAL) BETWEEN GARDEN HWY AND AMERICAN RIVER PARKWAY BIKE PATH (JEDEDIAH SMITH MEMORIAL TRAIL). MAPPED TO PROVIDED COORDINATES.

Ecological:

NEST IN COTTONWOOD OVER WATER. HABITAT DESCRIBED AS COTTONWOOD RIPARIAN, RIVERINE, GRASSLAND, HIGHWAY, RESIDENTIAL. OTHER BIRDS DETECTED NEARBY INCLUDED NORTHERN HARRIER, WHITE-TAILED KITE, AMERICAN KESTREL, GREAT EGRET, & GREAT BLUE HERON.

Threats:

POTENTIALLY THREATENED BY HUMAN DISTURBANCE ASSOCIATED WITH BIKE PATH, PARK, AND RECREATION.

General:

2 ADULTS DETECTED NESTING ON 27 APR 2011 AND THE FOLLOWING BEHAVIORS WERE DOCUMENTED: PERCHING ON NEST, FOOD SHARING, NEST BUILDING, CALLING, PERCHING NEAR NEST, SOARING, CHASING. UNKNOWN IF OBSERVATIONS MADE ON MULTIPLE DATES.

PLSS: T09N, R04E, Sec. 25 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4274349 E631812

Latitude/Longitude: 38.60786 / -121.48612

Elevation (feet): 20

County Summary:

Quad Summary:

Sacramento

Sacramento East (3812154)

Sources:

CAH11F0001 CAHILL, K. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-WILDLIFE MANAGEMENT BRANCH) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2011-04-27



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87650
Key Quad: Florin (3812144)
Occurrence Number: 1881

EO Index: 88619
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-18

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2003-06-10
Last Survey Date: 2003-06-10
Owner/Manager: DPR-STONE LAKE PARK
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 STONE LAKE STATE PARK, ABOUT 0.9 MILES NNW OF I-5 AT HOOD FRANKLIN RD AND 2.3 MILES NE OF HOOD.

Detailed Location:
 TRS GIVEN FOR 1993 DETECTION AT TERRITORY SA072 IN CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS. MAPPED TO COORDINATES FROM CDFW DATABASE OF SWHA NEST RECORDS, 2000-2004.

Ecological:
 2003 NEST IN 50' COTTONWOOD SURROUNDED BY GRASSLAND.

Threats:
General:
 SWAINSON'S HAWKS OBS IN AREA MAY & JUN 1993. ACTIVE NEST OBSERVED, BUT NO YOUNG SEEN BECAUSE NEST WAS HARD TO SEE INTO, ON 10 JUN 2003.

PLSS: T06N, R04E, Sec. 12 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4249818 E632425	Latitude/Longitude: 38.38678 / -121.48373	Elevation (feet): 0

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

- Sources:**
- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
 - DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
 - ROS93F0008 ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1993-05-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 87657
Key Quad: Florin (3812144)
Occurrence Number: 1882

EO Index: 88625
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-17

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
 State: Threatened
CNDDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:
REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-04-17
Last Survey Date: 2009-04-17
Owner/Manager: DPR-STONE LAKE PARK
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
SOUTH END OF N STONE LAKE, ABOUT 1.2 MILES NW OF I-5 AT HOOD FRANKLIN RD AND 1.6 MILES NE OF HOOD.

Detailed Location:
2003: COORDINATES FROM CDFW DATABASE OF 2000-2004 SWAINSON'S HAWK NEST RECORDS. 2009: NESTING SITE PER DWR, FROM SHAPEFILE OF BAY DELTA CONSERVATION PLAN 2009-2010 ENVIRONMENTAL SURVEY DATA.

Ecological:
2003: NEST IN 45' WILLOW SURROUNDED BY PASTURE. 2009: HABITAT DESCRIBED AS RIPARIAN TREE(S).

Threats:
General:
ABANDONED NEST OBSERVED ON 10 JUN 2003. 1-2 NESTING SWAINSON'S HAWKS OBSERVED ON 17 APR 2009.

PLSS: T06N, R04E, Sec. 12 (M)	Accuracy: nonspecific area	Area (acres): 8
UTM: Zone-10 N4249537 E631338	Latitude/Longitude: 38.38440 / -121.49622	Elevation (feet): 5

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
DWR11D0001	CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87659
Key Quad: Florin (3812144)
Occurrence Number: 1883

EO Index: 88628
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-17

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-05-05
Last Survey Date: 2009-05-05
Owner/Manager: DPR-STONE LAKE PARK
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

N STONE LAKE, ON EAST AND WEST SHORE; ABOUT 0.6 MI ENE OF ROSEBUD LANDING AND 1.6 MI NW OF I-5 AT HOOD FRANKLIN RD.

Detailed Location:

2003: COORDINATES FROM CDFW DATABASE OF SWAINSON'S HAWK NEST RECORDS, 2000-2004. 2009: NESTING SITE PER DWR, FROM SHAPEFILE OF BAY DELTA CONSERVATION PLAN 2009-2010 ENVIRONMENTAL SURVEY DATA.

Ecological:

2003: NEST ON W LAKESHORE, IN 45' VALLEY OAK SURROUNDED BY GRASSLAND. 2009: NESTING SITE ON E LAKESHORE, HABITAT DESCRIBED AS RIPARIAN TREE(S).

Threats:

General:

2003: ACTIVE NEST WITH 0 YOUNG OBSERVED ON 9 JUN. 2009: 2 NESTING SWAINSON'S HAWKS OBSERVED ON 5 MAY. NEST SUCCESS UNKNOWN/NOT RECORDED.

PLSS: T06N, R04E, Sec. 12 (M)	Accuracy: nonspecific area	Area (acres): 22
UTM: Zone-10 N4250351 E631274	Latitude/Longitude: 38.39175 / -121.49681	Elevation (feet): 5

County Summary:

Sacramento

Quad Summary:

Florin (3812144), Clarksburg (3812145)

Sources:

- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
- DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87662
Key Quad: Florin (3812144)
Occurrence Number: 1884

EO Index: 88632
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-17

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2003-05-13
Last Survey Date: 2003-05-13
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 JUST NE FRANKLIN BLVD AT KENNETH WAY, FRANKLIN.

Detailed Location:
 MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 SWAINSON'S HAWK NEST RECORDS.

Ecological:
 NEST IN 60' SYCAMORE TREE SURROUNDED BY PASTURE, WITH RESIDENTIAL TO THE SOUTHEAST.

Threats:
 THREATENED BY RESIDENTIAL DEVELOPMENT THAT REDUCED AVAILABLE FORAGING & NESTING HABITAT.

General:
 PAIR SITTING ON NEST WITH 2 FEATHERED YOUNG OBSERVED IN THE NEST ON 13 MAY 2003.

PLSS: T06N, R05E, Sec. 08 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4249248 E635068	Latitude/Longitude: 38.38124 / -121.45358	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
 DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87665
Key Quad: Florin (3812144)
Occurrence Number: 1885

EO Index: 88634
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-18

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2002-07-18
Last Survey Date: 2002-07-18
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

ABOUT 0.1 MILES SW OF BILBY ROAD AT BRUCEVILLE ROAD, 1.9 MILES E OF FRANKLIN.

Detailed Location:

MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 SWAINSON'S HAWK NEST RECORDS.

Ecological:

NEST IN 50' WALNUT WITH CROPLAND TO NORTH AND ORCHARD/VINEYARD AND PASTURE TO SOUTH.

Threats:

TRACT HOUSING DEVELOPMENT JUST NORTH OF BILBY RD BUILT 2004-2005 HAS REDUCED AVAILABLE FORAGING & NESTING HABITAT.

General:

1 CHICK BRANCHING ON 16 JUL; ACTIVE NEST REVISITED ON 18 JUL 2002.

PLSS: T06N, R05E, Sec. 15 (M)
UTM: Zone-10 N4248983 E638030

Accuracy: 80 meters
Latitude/Longitude: 38.37840 / -121.41974

Area (acres): 0
Elevation (feet): 25

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 87668
Key Quad: Florin (3812144)
Occurrence Number: 1886

EO Index: 88637
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-17

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
 State: Threatened
CNDDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:
REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-07-09
Last Survey Date: 2009-07-09
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
EAST SIDE OF BRUCEVILLE RD, VICINITY OF BILBY ROAD, ABOUT 2 MILES E OF FRANKLIN.

Detailed Location:
THREE NEST SITES. MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 SWAINSON'S HAWK NEST RECORDS AND POINT FROM CDFW SHAPEFILE OF NEST RECORDS FROM 2009.

Ecological:
2003: N NEST IN 40' TREE CODED AS "OTHER NATIVE" (NOT BLUE/VALLEY OAK, PINE, WILLOW OR COTTONWOOD); S NEST IN "OTHER EXOTIC" (NOT EUC OR WALNUT); SUROUNDED BY PASTURE 2009: NEST IN 40' EUCALYPTUS; FALLOW/RUDERAL LAND TO E, RESIDENTIAL TO W.

Threats:
TRACT HOUSING DEVELOPMENT JUST WEST OF BRUCEVILLE RD BUILT 2004-2005 HAS REDUCED AVAILABLE FORAGING & NESTING HABITAT.

General:
2003: TWO ACTIVE NESTS OBSERVED ON 24 JUN; 1 ADULT OBS FLYING INTO NEST WITH 1 FEATHERED YOUNG AND LEAVING N NEST, 1 FEMALE ADULT OBS STANDING IN S NEST (NEST FAILURE PRESUMED). 2009: NEST WITH YOUNG OBSERVED ON 9 JUL.

PLSS: T06N, R05E, Sec. 10 (M)	Accuracy: specific area	Area (acres): 15
UTM: Zone-10 N4249493 E638349	Latitude/Longitude: 38.38295 / -121.41598	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
DFG09D0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87670
Key Quad: Florin (3812144)
Occurrence Number: 1887

EO Index: 88639
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-17

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-04-29
Last Survey Date: 2009-04-29
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 VICINITY OF BRUCEVILLE ROAD AT POPPY RIDGE ROAD, ABOUT 2.2 MILES ENE OF FRANKLIN.

Detailed Location:
 1994 DETECTION AT TERRITORY SA (NO # ASSIGNED) FROM CDFW DATABASE OF 1979-94 SWHA OBSERVATIONS. THREE NEST SITES, MAPPED TO COORDINATES FROM CDFW DATABASE OF SWHA NEST RECORDS 2000-04, & POINT FROM CDFW SHAPEFILE OF NESTS RECORDS FROM 2009.

Ecological:
 2009: NEST IN 35' VALLEY OAK SURROUNDED BY RESIDENTIAL WITH FALLOW/RUDERAL LAND TO SE.

Threats:
 DEVELOPMENT OF TRACT HOUSING TO N AND W HAS REDUCED AVAILABLE FORAGING AND NESTING HABITAT.

General:
 1994: 1 SWHA OBS, NO NEST FOUND. 2003: 3 PARTIALLY-FEATHERED YOUNG OBS IN W NEST 13 MAY-2 JUL; PAIR PERCHED IN TELEPHONE POLE NEAR E NEST ON 25 JUN (NO ACTIVITY, POSSIBLY FAILED/ABANDONED). 2009: NEST WITH YOUNG OBS ON 29 APR.

PLSS: T06N, R05E, Sec. 03 (M)	Accuracy: specific area	Area (acres): 15
UTM: Zone-10 N4250799 E638542	Latitude/Longitude: 38.39468 / -121.41352	Elevation (feet): 30

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

- Sources:**
- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
 - DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX
 - DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87671
Key Quad: Florin (3812144)
Occurrence Number: 1888

EO Index: 88640
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-17

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2003-06-26
Last Survey Date: 2003-06-26
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 FRANKLIN HIGH SCHOOL CAMPUS, ABOUT 0.5 MILES W OF BRUCEVILLE ROAD AT POPPY RIDGE ROAD.

Detailed Location:
 MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 SWAINSON'S HAWK NEST RECORDS. 2002 AND 2003 NESTS APPEAR TO HAVE BEEN IN SAME/ADJACENT TREES.

Ecological:
 2002: NEST IN 75' WALNUT SURROUNDED BY GRASSLAND WITH RESIDENTIAL TO THE NW. 2003: NEST IN 45' WALNUT WITH RESIDENTIAL W & FALLOW/RUDERAL LAND E. SINCE THE FIRST NEST DETECTION, MUCH OF THE SURROUNDING OPEN SPACE HAS BEEN DEVELOPED.

Threats:
 DEVELOPMENT OF TRACT HOUSING IN SURROUNDING AREA HAS REDUCED AVAILABLE FORAGING AND NESTING HABITAT.

General:
 1 FEATHERED CHICK OBSERVED IN NEST ON 19 JUL 2002. ADULTS SHADING 1 DOWNY CHICK IN NEST OBS ON 26 JUN 2003.

PLSS: T06N, R05E, Sec. 09 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4250325 E637377	Latitude/Longitude: 38.39059 / -121.42695	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
 DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87672
Key Quad: Florin (3812144)
Occurrence Number: 1889

EO Index: 88641
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-18

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened

CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2003-06-25
Last Survey Date: 2003-06-25
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 WEST SIDE OF I-99 ABOUT 0.5 MILES SOUTH OF ELK GROVE BOULEVARD INTERSECTION, ELK GROVE.

Detailed Location:
 TWO NEST SITES. MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 SWAINSON'S HAWK NEST RECORDS.

Ecological:
 2001 NEST IN 60' VALLEY OAK SURROUNDED BY CROPLAND. 2003 NEST IN 60' VALLEY OAK WITH RESIDENTIAL TO THE EAST AND FALLOW LAND TO THE WEST. 2001 NEST TREE APPEARS TO HAVE BEEN CUT IN 2002 TO MAKE WAY FOR ONGOING AUTO MALL EXPANSION.

Threats:
 COMMERCIAL AND RESIDENTIAL DEVELOPMENT IN SURROUNDING AREA HAS REDUCED AVAILABLE FORAGING AND NESTING HABITAT.

General:
 2001: ACTIVE NEST; COPULATION & NEST-BUILDING OBSERVED ON 30 APR, INCUBATION OBS ON 20 MAY. 2003: NEST WITH TWO DOWNY YOUNG OBS ON 25 JUN.

PLSS: T06N, R05E, Sec. 01 (M)	Accuracy: specific area	Area (acres): 11
UTM: Zone-10 N4251624 E640814	Latitude/Longitude: 38.40176 / -121.38734	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
STO01F0018	STOWERS, C. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2001-05-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87676
Key Quad: Florin (3812144)
Occurrence Number: 1890

EO Index: 88644
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-18

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2003-06-25
Last Survey Date: 2003-06-25
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 ABOUT 0.2 MILES SW OF BRUCEVILLE RD/ELK GROVE BLVD INTERSECTION IN ELK GROVE.

Detailed Location:
 MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 SWAINSON'S HAWK NEST RECORDS.

Ecological:
 2003: NEST IN 40' COTTONWOOD, SURROUNDED BY RESIDENTIAL WITH CROPLAND TO THE SE. SINCE THE DETECTION (SOME TIME LATE 2003/EARLY 2004), THE AREA HAS BEEN COMPLETELY DEVELOPED. AIR PHOTOS SHOW SOME TREES REMAIN, SURROUNDED BY PARKING LOT.

Threats:
 RESIDENTIAL AND COMMERCIAL DEVELOPMENT HAS REDUCED FORAGING & NESTING HABITAT.

General:
 ADULT MALE OBSERVED ON 18, 24, & 25 JUN; NEST WITH 1 DOWNY YOUNG OBS ON 25 JUN 2003. IF NOT EXTIRPATED, THIS SITE IS HIGHLY DEGRADED (B. ACORD 5/2013).

PLSS: T06N, R05E, Sec. 03 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4252148 E638012	Latitude/Longitude: 38.40692 / -121.41932	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
 DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87680
Key Quad: Florin (3812144)
Occurrence Number: 1891

EO Index: 88649
Element Code: ABNKC19070
Occurrence Last Updated: 2013-02-21

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
State: Threatened
CNDDDB Element Ranks: **Global:** G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2002-04-02
Last Survey Date: 2002-04-02
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Poor
Trend: Unknown

Location:
SOUTH SIDE OF ELK GROVE BOULEVARD ABOUT 0.6 MILES EAST OF FRANKLIN BOULEVARD INTERSECTION, ELK GROVE.

Detailed Location:
1993-94 DETECTIONS AT TERRITORY #SA078 FROM CDFW DATABASE OF 1979-94 SWAINSON'S HAWK OBSERVATIONS (COORDS DON'T MATCH DESC "ELK GROVE BLVD 1.2 MI E FRANKLIN BLVD"). MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-04 NEST RECORDS.

Ecological:
1994: NEST IN VALLEY OAK. 2000: SURVEYOR UNABLE TO LOCATE NEST. 2002: NEST IN 70' VALLEY OAK; FIRST NEST ABANDONED, 2ND NEST SUSPECTED IN EVEN LARGER OAK NEARBY. JUDGING FROM AERIALS, ALL AVAILABLE NEST TREES WERE CUT DOWN LATER THAT YEAR.

Threats:
RESIDENTIAL DEVELOPMENT ELIMINATED FORAGING & NESTING HABITAT IN AREA; SUITABLE HABITAT OVER 1 MI TO THE SW AND SE.

General:
1993: PAIR OBS IN AREA 16 JUL. 1994: TERRITORIAL FEMALE DEFENDING 2 FLEDGLINGS 14 JUL. 2000: NO NEST FOUND (INADEQUATE OBS). 2002: ACTIVE NEST/0 YOUNG OBS ON 2 APR; NEST LATER ABANDONED, PAIR STAYED IN AREA BUT 2ND NEST NOT FOUND.

PLSS: T06N, R05E, Sec. 04 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4252261 E636352	Latitude/Longitude: 38.40819 / -121.43831	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Florin (3812144)
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- Sources:**
- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
 - DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
 - LEW00F0010 LEWIS, K. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2000-07-24
 - LEW00F0013 LEWIS, K. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2000-07-21



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 87682
Key Quad: Florin (3812144)
Occurrence Number: 1892

EO Index: 88651
Element Code: ABNKC19070
Occurrence Last Updated: 2013-02-21

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
 State: Threatened
CNDDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2003-06-26
Last Survey Date: 2003-06-26
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Poor
Trend: Unknown

Location:
 NORTHWEST CORNER OF HEATHER FIELD WAY AND SUMMER GLEN WAY IN ELK GROVE.

Detailed Location:
 MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 SWHA NEST RECORDS.

Ecological:
 2003: NEST IN 75' VALLEY OAK SURROUNDED BY RESIDENTIAL. SINCE THIS DETECTION, THE AREA HAS BEEN ENTIRELY DEVELOPED, BUT JUDGING FROM 2012 AERIALS, THE NEST TREE APPEARS TO STILL BE STANDING, THOUGH SURROUNDED BY TRACT HOUSING.

Threats:
 RESIDENTIAL DEVELOPMENT HAS REPLACED FORAGING & NESTING HABITAT.

General:
 NEST WITH 1 DOWNY YOUNG OBSERVED ON 26 JUN 2003.

PLSS: T06N, R05E, Sec. 04 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4251575 E636275	Latitude/Longitude: 38.40202 / -121.43932	Elevation (feet): 20

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87684
Key Quad: Florin (3812144)
Occurrence Number: 1893

EO Index: 88653
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-18

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
 State: Threatened
CNDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2003-05-13
Last Survey Date: 2003-05-13
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

JUST SOUTH OF PERCHERON DR AT WESTFALEN WAY, ABOUT 0.4 MI S OF FRANKLIN BLVD AT ELK GROVE BLVD IN ELK GROVE.

Detailed Location:

MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 SWHA NEST RECORDS.

Ecological:

2003 NEST TREE IN 60' VALLEY OAK SURROUNDED BY RESIDENTIAL. SINCE 2003, THE AREA HAS BEEN COMPLETELY DEVELOPED, THOUGH 2012 AERIALS SHOW THE NEST TREE MAY STILL BE STANDING.

Threats:

RESIDENTIAL DEVELOPMENT HAS REDUCED FORAGING & NESTING HABITAT.

General:

NEST WITH 2 FEATHERED YOUNG OBSERVED ON 13 MAY 2003.

PLSS: T06N, R05E, Sec. 05 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4251662 E635429

Latitude/Longitude: 38.40293 / -121.44898

Elevation (feet): 20

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87685
Key Quad: Florin (3812144)
Occurrence Number: 1894

EO Index: 88654
Element Code: ABNKC19070
Occurrence Last Updated: 2013-02-21

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-05-05
Last Survey Date: 2009-05-05
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 WEST SIDE I-5 AT ELK GROVE BOULEVARD EXIT.

Detailed Location:
 1992 DETECTIONS IN VICINITY. MAPPED TO 2009 NESTING SITE PER DWR, FROM SHAPEFILE OF BAY DELTA CONSERVATION PLAN 2009-2010 ENVIRONMENTAL SURVEY DATA. EXACT LOCATION OF NEST TREE UNKNOWN.

Ecological:
 2009: NEST IN COTTONWOOD TREE. SHRIKE NEST OBSERVED NEARBY. WETLAND PRESERVES AND RUDERAL FIELDS WEST OF I-5 USED AS FORAGING HABITAT.

Threats:
 SUITABLE HABITAT TO THE E HAS BEEN CONVERTED TO DENSE RESIDENTIAL HOUSING BEGINNING 1998.

General:
 FORAGING SWAINSON'S HAWKS OBSERVED IN 1992. NESTING SWHA OBS ON 21 APR & 5 MAY 2009. ADULT OBS ON NEST, NEST SUCCESS UNKNOWN.

PLSS: T07N, R04E, Sec. 36 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4252298 E632173	Latitude/Longitude: 38.40916 / -121.48614	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Florin (3812144)
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- Sources:**
- DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23
 - ROS92F0003 ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1992-06-05
 - ROS92F0004 ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1992-07-05



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87686

EO Index: 88655

Key Quad: Clarksburg (3812145)

Element Code: ABNKC19070

Occurrence Number: 1895

Occurrence Last Updated: 2012-12-18

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-05-21

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2009-05-21

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN, USFWS-STONE LAKES NWR

Trend: Unknown

Presence: Presumed Extant

Location:

ALONG CANAL PARALLELLING SOUTHERN PACIFIC RAILROAD, ABOUT 1 MI NW OF I-5 AT ELK GROVE BLVD AND 1.5 MI E OF CLARKSBURG.

Detailed Location:

2003: MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 NEST RECORDS. 2009: NESTING SITE PER DWR, FROM SHAPEFILE OF BAY DELTA CONSERVATION PLAN 2009-2010 ENVIRONMENTAL SURVEY DATA. NORTHERNMOST NEST SITE(S) WITHIN STONE LAKES NWR.

Ecological:

2003: NEST IN 50' COTTONWOOD TREE WITH PASTURE TO EAST AND RIPARIAN TO WEST. 2009: 1 NEST IN VALLEY OAK, OTHER NESTS POSSIBLY PRESENT BUT NOT DESCRIBED. NESTING RED-TAILED HAWKS OBSERVED IN VICINITY.

Threats:

General:

2003: ACTIVE NEST OBSERVED ON 14 MAY, NEST EMPTY BY 14 JUL. 2009: 3 OBSERVATIONS OF NESTING PAIRS IN VICINITY 3 APR-21 MAY, 1 ACTIVE NEST OBSERVED ON 21 APR. NEST SUCCESS UNKNOWN.

PLSS: T07N, R04E, Sec. 35 (M)

Accuracy: nonspecific area

Area (acres): 70

UTM: Zone-10 N4253294 E630817

Latitude/Longitude: 38.41833 / -121.50149

Elevation (feet): 5

County Summary:

Sacramento

Quad Summary:

Florin (3812144), Clarksburg (3812145)

Sources:

DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX

DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 87687
Key Quad: Florin (3812144)
Occurrence Number: 1896

EO Index: 88656
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-18

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
 State: Threatened
CNDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-04-30
Last Survey Date: 2009-04-30
Owner/Manager: USFWS-STONE LAKES NWR
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
STONE LAKES NWR, ALONG SLOUGH ON W SIDE OF I-5 ABOUT 1 MI NNW OF ELK GROVE BLVD EXIT & 2 MI E OF CLARKSBURG.

Detailed Location:
NESTING SITE PER DWR, FROM SHAPEFILE OF BAY DELTA CONSERVATION PLAN 2009-2010 ENVIRONMENTAL SURVEY DATA.

Ecological:
HABITAT DESCRIBED AS RIPARIAN TREE(S).

Threats:
General:
2 NESTING SWAINSON'S HAWKS OBSERVED ON 30 APR 2009.

PLSS: T07N, R04E, Sec. 36 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4253868 E631803	Latitude/Longitude: 38.42335 / -121.49009	Elevation (feet): 10

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87688
Key Quad: Florin (3812144)
Occurrence Number: 1897

EO Index: 88657
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-18

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-07-XX
Last Survey Date: 2009-07-XX
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

ALONG MORRISON CREEK ABOUT 0.3 MI WSW OF I-5 CROSSING & 1.3 MI SSE OF FREEPORT BRIDGE OVER THE SACRAMENTO RIVER.

Detailed Location:

1992, 2009 DETECTIONS IN VICINITY. MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 NEST RECORDS.

Ecological:

1992: PAIR SEEN FORAGING OVER CUT ALFLALFA AND NEWLY-DISKED GRAIN FIELDS. 2003: NEST IN 70' COTTONWOOD WITH RIPARIAN TO THE WEST AND CROPLAND/FALLOW LAND TO THE EAST.

Threats:

General:

FORAGING PAIR OBSERVED IN 1992. NEST WITH 1 PARTIALLY-FEATHERED YOUNG OBS ON 10 JUN 2003. PAIR PRESENT THROUGHOUT THE YEAR IN 2009, NESTING SUSPECTED.

PLSS: T07N, R04E, Sec. 25 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4255419 E631294	Latitude/Longitude: 38.43740 / -121.49563	Elevation (feet): 0

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

- CON09U0001 CONARD, C. - COORDINATES FOR SWAINSON'S HAWKS, LEAST TERNS, AND A GREAT GRAY OWL 2009-08-07
- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
- SCO92F0025 SCOONOVER, R. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1992-07-20



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 87689
Key Quad: Florin (3812144)
Occurrence Number: 1898

EO Index: 88658
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-18

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
 State: Threatened
CNDDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:
 BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:
 REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-07-20
Last Survey Date: 2009-07-20
Owner/Manager: SRCSD-BUFFERLANDS
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 SOUTH SIDE OF BEACH LAKE, ALONG MORRISON CREEK ON THE E SIDE OF I-5 ABOUT 1.3 MI SE OF FREEPORT BRIDGE.

Detailed Location:
 MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 SWAINSON'S HAWK NEST RECORDS. HISTORICAL NEST SITES MENTIONED IN TABLE OF 2009 SWHA OBSERVATIONS ON SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS.

Ecological:
 2003 NEST IN 50' COTTONWOOD SUROUNDED BY FALLOW/RUDERAL LAND. AREA SURVEYED IN 2009; NEST NOT FOUND, BUT SURVEYOR NOTED NESTING IN DENSE VALLEY OAKS "IN PREVIOUS YEARS." ANOTHER HISTORICAL NEST SITE, ABOUT 0.3 MI SW, ALSO VACANT IN 2009.

Threats:
General:
 NEST WITH 1 YOUNG OBSERVED ON 14 MAY 2003. JUVENILE OBS IN AREA ON 20 JUL 2009, BUT NO NEST FOUND.

PLSS: T07N, R04E, Sec. 24 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4256354 E632425	Latitude/Longitude: 38.44566 / -121.48250	Elevation (feet): 0

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

CON09U0001	CONARD, C. - COORDINATES FOR SWAINSON'S HAWKS, LEAST TERNS, AND A GREAT GRAY OWL 2009-08-07
DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 87690
Key Quad: Florin (3812144)
Occurrence Number: 1899

EO Index: 88659
Element Code: ABNKC19070
Occurrence Last Updated: 2013-02-21

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
 State: Threatened
CNDDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-06-XX
Last Survey Date: 2009-07-20
Owner/Manager: SRCSD-BUFFERLANDS
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

EAST SIDE OF I-5 ON BEACH LAKE RD, ABOUT 0.4 MI N OF MORRISON CREEK CROSSING & 0.9 MI SE OF FREEPORT BRIDGE.

Detailed Location:

MAPPED TO COORDINATES FOR 2009 SWAINSON'S HAWK OBSERVATIONS ON SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS. LOCATION STATED AS "NW SHORE OF MEADOWLARK LAKE."

Ecological:

Threats:

General:

NEST WITH 1 DOWNY CHICK OBSERVED JUN 2009; NO ACTIVITY ON NEST OBS DURING 3 SURVEY DAYS IN JUL.

PLSS: T07N, R04E, Sec. 24 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4256361 E631760	Latitude/Longitude: 38.44582 / -121.49011	Elevation (feet): 5

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

CN09U0001 CONARD, C. - COORDINATES FOR SWAINSON'S HAWKS, LEAST TERNS, AND A GREAT GRAY OWL 2009-08-07



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 87691
Key Quad: Florin (3812144)
Occurrence Number: 1900

EO Index: 88660
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-18

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
 State: Threatened
CNDDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-07-XX
Last Survey Date: 2009-07-XX
Owner/Manager: SRCSD-BUFFERLANDS
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

ALONG MORRISON CREEK JUST W OF LAGUNA CREEK CONFLUENCE, ABOUT 1.5 MILES E OF FREEPORT BRIDGE.

Detailed Location:

MAPPED TO COORDINATES FOR 2 NEST SITES FROM 2009 SWAINSON'S HAWK OBSERVATIONS ON SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS. LOCATIONS STATED AS "UPPER CELL & LAGUNA CREEK," "NORTH LEVEE & MORRISON CREEK."

Ecological:

2009: BOTH NESTS IN GOODDING'S WILLOWS.

Threats:

General:

TWO ACTIVE NESTS MONITORED FROM MAY-JUL 2009; EACH FLEDGED 2 YOUNG.

PLSS: T07N, R05E, Sec. 18 (M)

Accuracy: specific area

Area (acres): 10

UTM: Zone-10 N4257621 E633091

Latitude/Longitude: 38.45697 / -121.47463

Elevation (feet): 5

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

CON09U0001 CONARD, C. - COORDINATES FOR SWAINSON'S HAWKS, LEAST TERNS, AND A GREAT GRAY OWL 2009-08-07



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87692
Key Quad: Florin (3812144)
Occurrence Number: 1901

EO Index: 88661
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-18

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened

CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-07-XX
Last Survey Date: 2009-07-XX
Owner/Manager: SRCSD
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

NORTH SIDE OF WASTEWATER TREATMENT PLANT ALONG LAGUNA CREEK, ABOUT 0.4 MI SE OF MORRISON CREEK CONFLUENCE.

Detailed Location:

COORDINATES FROM TABLE OF SWAINSON'S HAWK OBSERVATIONS ON SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS, 2009. STATED LOCATION "SEPTAGE AREA ADJACENT TO TREATMENT PLANT."

Ecological:

NEST IN GOODDING'S WILLOW.

Threats:

General:

ACTIVE NEST MONITORED MAY-JUL 2009; NEST FLEDGED 3 YOUNG.

PLSS: T07N, R05E, Sec. 18 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4257425 E633997	Latitude/Longitude: 38.45507 / -121.46429	Elevation (feet): 5

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

CON09U0001 CONARD, C. - COORDINATES FOR SWAINSON'S HAWKS, LEAST TERNS, AND A GREAT GRAY OWL 2009-08-07



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 87696
Key Quad: Florin (3812144)
Occurrence Number: 1902

EO Index: 88669
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-19

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
 State: Threatened
CNDDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-07-XX
Last Survey Date: 2009-07-XX
Owner/Manager: SRCSD-BUFFERLANDS
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT PROPERTY, S OF LAGUNA CK ABOUT 0.5 MI SSW OF FRANKLIN BLVD AT CALVINE RD.

Detailed Location:

MAPPED TO COORDINATES OF 2009 SWHA OBSERVATIONS ON SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS. STATED LOCATION "FISH HEAD LAKE ON EAST SIDE OF BUFFERLANDS."

Ecological:

Threats:

General:

ACTIVE NEST MONITORED MAY-JUL 2009; TWO YOUNG FLEDGED.

PLSS: T07N, R05E, Sec. 20 (M)
UTM: Zone-10 N4256488 E634902

Accuracy: 80 meters
Latitude/Longitude: 38.44650 / -121.45410

Area (acres): 0
Elevation (feet): 15

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

CON09U0001 CONARD, C. - COORDINATES FOR SWAINSON'S HAWKS, LEAST TERNS, AND A GREAT GRAY OWL 2009-08-07



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87698
Key Quad: Florin (3812144)
Occurrence Number: 1903

EO Index: 88671
Element Code: ABNKC19070
Occurrence Last Updated: 2012-12-19

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
 State: Threatened
CNDDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 1990-04-20
Last Survey Date: 1990-04-20
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

BIG HORN ROAD JUST EAST OF BRUCEVILLE ROAD INTERSECTION, ABOUT 0.9 MILES SW OF I-99 AT SHELDON ROAD.

Detailed Location:

MAPPED TO TRS AND STATED LOCATION FOR TERRITORY #SA070 IN CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS. NEST TREE AT "BIG HORN, EAST OF BRUCEVILLE." EXACT LOCATION OF NEST TREE NOT KNOWN.

Ecological:

1990 NEST IN VALLEY OAK AMIDST OPEN FIELDS/GRASS. MUCH OF THE SURROUNDING AREA HAS BEEN FURTHER DEVELOPED SINCE THIS DETECTION.

Threats:

RESIDENTIAL DEVELOPMENT HAS REDUCED FORAGING AND NESTING HABITAT IN THE VICINITY (2012).

General:

2 ADULTS AND 1 JUVENILE SEEN AT NEST ON 20 APR 1990.

PLSS: T07N, R05E, Sec. 27 (M)
UTM: Zone-10 N4254778 E638245

Accuracy: 1/5 mile
Latitude/Longitude: 38.43057 / -121.41613

Area (acres): 0
Elevation (feet): 25

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 87699
Key Quad: Florin (3812144)
Occurrence Number: 1904

EO Index: 88672
Element Code: ABNKC19070
Occurrence Last Updated: 2013-02-21

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None
 State: Threatened
CNDDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:
REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2004-06-24
Last Survey Date: 2004-06-24
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
NORTH SIDE OF SHASTA AVE ABOUT 0.2 MILES E OF BRUCEVILLE RD INTERSECTION & 0.3 MILES W OF W STOCKTON BLVD, ELK GROVE.

Detailed Location:
MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 SWAINSON'S HAWK NEST RECORDS.

Ecological:
2004 NEST IN 100' EUCALYPTUS WITH RESIDENTIAL TO SOUTH AND FALLOW/RUDERAL TO NORTH. SUBSEQUENTLY TENNIS COURTS, PARK & LIBRARY WERE BUILT ON LAND W AND SW OF NEST SITE (FROM AERIALS).

Threats:
CONSTRUCTION SITE NEAR DETECTED NEST (2004).

General:
SWHA PAIR OBSERVED ON AND/OR NEAR NEST ON 9 MAY & 24 JUN 2004; NO YOUNG OBSERVED, NEST SUCCESS UNKNOWN.

PLSS: T07N, R05E, Sec. 22 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4257082 E638417	Latitude/Longitude: 38.45130 / -121.41372	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87700
Key Quad: Florin (3812144)
Occurrence Number: 1905

EO Index: 88673
Element Code: ABNKC19070
Occurrence Last Updated: 2013-02-25

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2010-06-25
Last Survey Date: 2010-06-25
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Fair
Trend: Unknown

Location:
 SOUTHEAST CORNER OF BING MALONEY GOLF COURSE, ABOUT 0.3 MILES NW OF FLORIN RD AT 21ST STREET, SACRAMENTO.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES.

Ecological:
 2009, 2010: NEST IN TALL COTTONWOOD WITHIN A GOLF COURSE FAIRWAY JUST NORTH OF A PUBLIC PARK. VISIBLE DISTURBANCE FROM RECREATION, POSSIBLE THREAT OF TREE REMOVAL DUE TO GOLF COURSE OPERATIONS.

Threats:
General:
 2009: ACTIVE NEST, INCUBATION OBSERVED ON 20 MAY; 4 ADULTS SEEN, OTHER BREEDING PAIRS SUSPECTED IN VICINITY. 2010: NESTING SWHA & ADDITIONAL PAIR OBS 12 MAY; ADULT & 1 HATCHLING OBS ON NEST 25 JUN.

PLSS: T08N, R04E, Sec. 36 (M) **Accuracy:** 80 meters **Area (acres):** 0
UTM: Zone-10 N4262286 E631339 **Latitude/Longitude:** 38.49926 / -121.49382 **Elevation (feet):** 10

County Summary: Sacramento **Quad Summary:** Florin (3812144), Sacramento East (3812154)

Sources:
 GRA09F0004 GRAY, F. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2009-05-20
 GRA10F0013 GRAY, F. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2010-05-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87701

EO Index: 88674

Key Quad: Clarksburg (3812145)

Element Code: ABNKC19070

Occurrence Number: 1906

Occurrence Last Updated: 2012-12-19

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-07-17

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2009-07-17

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

ALONG CANAL ON EAST SIDE OF RR TRACKS BETWEEN THE SACRAMENTO RIVER & N STONE LAKE, ABOUT 1-1.4 MILES NNE OF HOOD.

Detailed Location:

MAPPED TO COORDINATES FROM CDFW DATABASES OF 2000-2004 & 2009 SWAINSON'S HAWK NEST RECORDS, & POINT FROM DWR SHAPEFILE OF BAY DELTA CONSERVATION PLAN 2009-2010 ENVIRONMENTAL SURVEY DATA.

Ecological:

2 NESTING TERRITORIES; N TERRITORY ACTIVE IN 2003 & '09; S IN '09. 2003: NEST IN 70' COTTONWOOD. 2009: N NEST IN 45' VALLEY OAK. S NEST IN 25' VALLEY OAK. SURROUNDING HABITAT RIPARIAN, SEASONAL WETLAND, GRASSLAND, FALLOW, PASTURE.

Threats:

General:

2003: ACTIVE NEST OBS 9 JUN; NEST SUCCESS UNKNOWN. 2009: N NEST OBS 28 APR, YOUNG SEEN IN NEST ON 19 JUN; YOUNG IN S NEST ON 17 JUL.

PLSS: T06N, R04E, Sec. 11 (M)

Accuracy: specific area

Area (acres): 10

UTM: Zone-10 N4249791 E630393

Latitude/Longitude: 38.38682 / -121.50699

Elevation (feet): 5

County Summary:

Quad Summary:

Sacramento

Clarksburg (3812145)

Sources:

- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
- DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX
- DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87702	EO Index: 88675
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1907	Occurrence Last Updated: 2012-12-19

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-06-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-06-19	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST SIDE OF SACRAMENTO RIVER AT RM 40, ABOUT 1.2 MILES S OF CO RD 141 INTERSECTION & 1.5 MILES N OF HOOD.

Detailed Location:
MAPPED TO POINT FROM CDFW SHAPEFILE OF 2009 SWAINSON'S HAWK NEST RECORDS. GIVEN DESCRIPTION "IN NE QUADRANT OF SURVEY BLOCK [#1826]. ALONG RIVER ROAD, NORTH OF COUNTY ROAD 142."

Ecological:
2009: NEST IN 40' COTTONWOOD WITH FALLOW LAND TO THE WEST AND PASTURE TO THE NORTHEAST.

Threats:
General:
NEST WITH YOUNG OBSERVED ON 19 JUN 2009.

PLSS: T06N, R04E, Sec. 11 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4250129 E629617	Latitude/Longitude: 38.38998 / -121.51581	Elevation (feet): 10

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Sources:
DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 87709	EO Index: 88677
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1909	Occurrence Last Updated: 2012-12-20

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-04-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-04-21	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST SIDE OF ELK SLOUGH, ABOUT 0.2 MILES S OF CO RD 141 AT RD 144 & 1 MILE E OF TULE RD AT CENTRAL AVE.

Detailed Location:
MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 SWAINSON'S HAWK NEST RECORDS.

Ecological:
NEST IN 40' VALLEY OAK SURROUNDED BY FALLOW/RUDERAL LAND.

Threats:
General:
NEST WITH YOUNG OBSERVED ON 21 APRIL 2009.

PLSS: T06N, R04E, Sec. 03 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4250962 E627857	Latitude/Longitude: 38.39775 / -121.53581	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Clarksburg (3812145)

Sources:
DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87711	EO Index: 88679
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1910	Occurrence Last Updated: 2012-12-20

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-07-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-07-14	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG WILLOW POINT RD, 0.6 MILES W OF JEFFERSON BLVD & 3.7 MI WNW OF CLARKSBURG.

Detailed Location:
MAPPED TO POINT FROM CDFW SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009.

Ecological:
NEST IN 25' WILLOW SURROUNDED BY ALFALFA FIELDS WITH OTHER CROPLAND TO THE SOUTHEAST.

Threats:
General:
SWAINSON'S HAWK(S) OBSERVED WITH DEFENSIVE BEHAVIOR ON 14 JUL 2009. NEST SUCCESS UNKNOWN.

PLSS: T07N, R03E, Sec. 25 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4254373 E622703	Latitude/Longitude: 38.42920 / -121.59421	Elevation (feet): 5

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Sources:
DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87731	EO Index: 88696
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1921	Occurrence Last Updated: 2013-01-23

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-06-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-06-11	Occurrence Rank: Unknown
Owner/Manager: DFG-YOLO BYPASS WA	Trend: Unknown
Presence: Presumed Extant	

Location:
YOLO BYPASS WILDLIFE AREA, ALONG OLD RAILROAD GRADE ABOUT 2 MI N OF TULE CANAL AT BABEL SLOUGH & 2.9 MI SW OF RIVERVIEW.

Detailed Location:
MAPPED TO POINT FROM CDFW SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009 AND COORDINATES FOR SITE YO-84 FROM 2008 ESTEP REPORT.

Ecological:
2007: NESTING TERRITORY DETECTED IN OAK GROVE ADJACENT TO SEASONAL WETLAND, RICE, AND ALFALFA. SURVEYOR MAY NOT HAVE BEEN ABLE TO DIRECTLY OBSERVE NEST/NEST TREE. 2009: NEST IN 30' WILLOW WITH SEASONAL WETLANDS TO NORTH & PASTURE TO SOUTH.

Threats:
General:
NESTING TERRITORY DETECTED DURING 2007 SURVEY; NESTING OUTCOME UNKNOWN/UNCONFIRMED. ACTIVE NEST, INCUBATION OBSERVED ON 11 JUN 2009; NEST SUCCESS UNKNOWN.

PLSS: T07N, R03E, Sec. 12 (M)	Accuracy: specific area	Area (acres): 11
UTM: Zone-10 N4259295 E622269	Latitude/Longitude: 38.47360 / -121.59833	Elevation (feet): 5

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Sources:

DFG09D0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87732	EO Index: 88698
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1922	Occurrence Last Updated: 2012-12-21

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-04-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-04-27	Occurrence Rank: Unknown
Owner/Manager: DFG-YOLO BYPASS WA	Trend: Unknown
Presence: Presumed Extant	

Location:
YOLO BYPASS WILDLIFE AREA, ABOUT 1.8 MILES SE OF RD 35 AT RD 106A & 2.4 MILES WNW OF ARCADE.

Detailed Location:
MAPPED TO POINT FROM CDFW SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009.

Ecological:
NEST IN 25' WILLOW SURROUNDED BY SEASONAL WETLANDS, WITH CROPLAND TO THE NW.

Threats:
General:
NEST-BUILDING OBSERVED ON 27 APR 2009. NEST SUCCESS UNKNOWN.

PLSS: T08N, R03E, Sec. 35 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4260954 E620239	Latitude/Longitude: 38.48883 / -121.62131	Elevation (feet): 5

County Summary:	Quad Summary:
Yolo	Clarksburg (3812145)

Sources:
DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87736

EO Index: 88702

Key Quad: Sacramento West (3812155)

Element Code: ABNKC19070

Occurrence Number: 1923

Occurrence Last Updated: 2012-12-21

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2009-06-08

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2009-06-08

Occurrence Rank: Unknown

Owner/Manager: DFG-YOLO BYPASS WA, UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

EAST SIDE OF YOLO BYPASS WILDLIFE AREA, ABOUT 1.1 MI SSW OF S FORK PUTAH CREEK AT TOE DRAIN & 1.8 MI WSW OF RIVERVIEW.

Detailed Location:

COORDINATES FROM CDFW DATABASE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004, & POINTS FROM CDFW SHAPEFILE OF NEST RECORDS FROM 2009. '02 NEST SITE AT "SE CORNER OF CLOSED ZONE," '03 "NEAR EAST LEVEE, BOTTOM END OF OLD NAGGS PROPERTY."

Ecological:

2002: NEST IN 50' COTTONWOOD SURROUNDED BY FALLOW/RUDERAL LAND. 2003: NEST IN SAME/ADJACENT TREE AS IN '02; PASTURE TO S. 2004: NEST IN 75' COTTONWOOD; IN PASTURE. 2009: NEST IN 30' WILLOW ABOUT 130M W OF '04 NEST TREE; IN SEASONAL WETLAND.

Threats:

General:

2002: NEST WITH 1 PARTIALLY-FEATHERED YOUNG OBSERVED ON 22 APR. 2003: NEST WITH 1 FEATHERED YOUNG OBS 30 MAY. 2004: ACTIVE NEST OBS 27 MAY; NO YOUNG OBS. 2009: NEST WITH YOUNG OBS ON 8 JUN.

PLSS: T08N, R03E, Sec. 36 (M)

Accuracy: specific area

Area (acres): 17

UTM: Zone-10 N4262402 E622525

Latitude/Longitude: 38.50156 / -121.59485

Elevation (feet): 10

County Summary:

Yolo

Quad Summary:

Clarksburg (3812145), Sacramento West (3812155)

Sources:

DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX

DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 87994	EO Index: 89036
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1969	Occurrence Last Updated: 2013-01-23

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG SACRAMENTO NORTHERN RR, ABOUT 0.3 MILES NNE OF ARCADE, 1.9 MI SW OF RIVERVIEW.

Detailed Location:
MAPPED TO COORDINATES GIVEN FOR SITE YO-81 FROM 2008 ESTEP REPORT.

Ecological:
NEST IN VALLEY OAK IN CHANNELIZED RIPARIAN HABITAT, SURROUNDED BY ALFALFA AND IRRIGATED CROPLAND.

Threats:
General:
ACTIVE NEST OBSERVED DURING 2007 SURVEY; SUCCESS UNKNOWN.

PLSS: T07N, R04E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4260030 E623989	Latitude/Longitude: 38.47999 / -121.57849	Elevation (feet): 20

County Summary:	Quad Summary:
Yolo	Clarksburg (3812145)

Sources:
EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 87995	EO Index: 89037
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1970	Occurrence Last Updated: 2013-01-23

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG UNNAMED SLOUGH ABOUT 0.3 MI ESE OFARCADE & 2 MI SSW OF GARCIA BEND.

Detailed Location:
MAPPED TO COORDINATES GIVEN FOR SITE YO-82 FROM 2008 ESTEP REPORT.

Ecological:
NEST IN VALLEY OAK IN CHANNELIZED RIPARIAN HABITAT, SURROUNDED BY ALFALFA, IRRIGATED CROPLAND AND VINEYARDS.

Threats:

General:
ACTIVE NEST OBSERVED DURING 2007 SURVEY; SUCCESS UNKNOWN.

PLSS: T07N, R04E, Sec. 08 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4259277 E624335	Latitude/Longitude: 38.47316 / -121.57466	Elevation (feet): 10

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Sources:
EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 87996	EO Index: 89038
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1971	Occurrence Last Updated: 2013-01-23

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG SACRAMENTO NORTHERN RAILROAD, ABOUT 0.9 MILES SW OF GARCIA BEND AND 1.1 MILES NNE OF ARCADE.

Detailed Location:
MAPPED TO COORDINATES GIVEN FOR SITE YO-79 FROM 2008 ESTEP REPORT.

Ecological:
NEST IN VALLEY OAK IN CHANNELIZED RIPARIAN HABITAT, SURROUNDED BY IRRIGATED CROPLAND.

Threats:
General:
ACTIVE NEST OBSERVED DURING 2007 SURVEY; SUCCESS UNKNOWN.

PLSS: T07N, R04E, Sec. 05 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4261295 E624464	Latitude/Longitude: 38.49132 / -121.57282	Elevation (feet): 20

County Summary:	Quad Summary:
Yolo	Clarksburg (3812145)

Sources:
EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	87997	EO Index:	89039
Key Quad:	Sacramento West (3812155)	Element Code:	ABNKC19070
Occurrence Number:	1972	Occurrence Last Updated:	2013-03-20

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2007-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG SACRAMENTO NORTHERN RAILROAD, ABOUT 0.5 MI W OF GARCIA BEND & 1.7 MI NNE OF ARCADE.

Detailed Location:
 MAPPED TO COORDINATES FOR SITE YO-65 FROM 2008 ESTEP REPORT.

Ecological:
 NEST TREE SPECIES NOT RECORDED: THE SURVEYOR MAY NOT HAVE BEEN ABLE TO DIRECTLY OBSERVE THE NEST OR NEST TREE. SURROUNDING HABITAT WAS CHANNELIZED RIPARIAN HABITAT, ALFALFA AND IRRIGATED CROPLAND.

Threats:
General:
 NESTING TERRITORY DETECTED DURING 2007 SURVEY; NESTING OUTCOME UNKNOWN/UNCONFIRMED.

PLSS:	T08N, R04E, Sec. 32 (M)	Accuracy:	1/10 mile	Area (acres):	0
UTM:	Zone-10 N4262279 E624754	Latitude/Longitude:	38.50015 / -121.56932	Elevation (feet):	20

County Summary:	Quad Summary:
Yolo	Clarksburg (3812145), Sacramento West (3812155)

Sources:
 EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	87998	EO Index:	89040
Key Quad:	Clarksburg (3812145)	Element Code:	ABNKC19070
Occurrence Number:	1973	Occurrence Last Updated:	2013-01-23

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2007-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 JUST NORTH OF REAMER LANE, ABOUT 0.3 MILES SE OF JEFFERSON BLVD AT RD 38B AND 3.1 MILES NW OF CLARKSBURG.

Detailed Location:
 MAPPED TO COORDINATES GIVEN FOR SITE YO-90 FROM 2008 ESTEP REPORT.

Ecological:
 NEST IN VALLEY OAK IN OAK GROVE, ADJACENT TO VINEYARDS, IRRIGATED CROPLANDS, AND ALFALFA.

Threats:
General:
 ACTIVE NEST OBSERVED DURING 2007 SURVEY; SUCCESS UNKNOWN.

PLSS: T07N, R04E, Sec. 19 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4256074 E624108	Latitude/Longitude: 38.44432 / -121.57782	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Clarksburg (3812145)

Sources:
 EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88000	EO Index: 89042
Key Quad: Clarksburg (3812145)	Element Code: ABNKC19070
Occurrence Number: 1974	Occurrence Last Updated: 2013-01-24

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH SIDE SACRAMENTO RIVER AT RM 45.6, ABOUT 1.2 MI ENE OF CO HWY E9 AT RD 39.

Detailed Location:
MAPPED TO COORDINATES FOR YO-89 FROM 2008 ESTEP REPORT.

Ecological:
NEST IN RIPARIAN COTTONWOOD SURROUNDED BY IRRIGATED CROPLAND, ALFALFA, AND VINEYARDS.

Threats:

General:
NEST WITH 1 YOUNG OBSERVED DURING 2007 SURVEY.

PLSS: T07N, R04E, Sec. 26 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4255257 E629839	Latitude/Longitude: 38.43616 / -121.51232	Elevation (feet): 10

County Summary: Yolo	Quad Summary: Clarksburg (3812145)
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Sources:
EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 88001

EO Index: 89043

Key Quad: Clarksburg (3812145)

Element Code: ABNKC19070

Occurrence Number: 1975

Occurrence Last Updated: 2013-01-24

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2007-XX-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2007-XX-XX

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

WINCHESTER LAKE AT RAILROAD CROSSING; ON THE W SIDE OF THE SACRAMENTO RIVER ABOUT 0.5 MI NE OF WILLOW POINT.

Detailed Location:

MAPPED TO COORDINATES FOR YO-92 FROM 2008 ESTEP REPORT.

Ecological:

NEST IN RIPARIAN WILLOW ADJACENT TO ALFALFA AND IRRIGATED CROPLAND.

Threats:

General:

ACTIVE NEST OBSERVED DURING 2007 SURVEY, SUCCESS UNKNOWN.

PLSS: T07N, R04E, Sec. 28 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4254765 E626806

Latitude/Longitude: 38.43216 / -121.54716

Elevation (feet): 0

County Summary:

Quad Summary:

Yolo

Clarksburg (3812145)

Sources:

EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88004	EO Index:	89045
Key Quad:	Clarksburg (3812145)	Element Code:	ABNKC19070
Occurrence Number:	1976	Occurrence Last Updated:	2013-05-30

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2008-06-06	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2008-06-06	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
VICINITY OF ELK SLOUGH, FROM THE SACRAMENTO RIVER CONFLUENCE TO WOOD DUCK LANE, ON THE SOUTH SIDE OF CLARKSBURG.

Detailed Location:
MAPPED TO COORDINATES FOR SITE YO-94 FROM 2008 ESTEP REPORT, AND VICINITY OF ELK SLOUGH POINT COUNT SITES FROM 2009 BIRD MONITORING REPORT.

Ecological:
2007 NEST IN VALLEY OAK IN TREE ROW, ADJACENT TO URBAN, ORCHARD, VINEYARD AND IRRIGATED CROPLAND. ADULT OBSERVED FORAGING OVER CROPLAND ABOUT 0.3 MILES NORTH IN 2008.

Threats:
General:
ACTIVE NEST OBSERVED DURING 2007 SURVEY; SUCCESS NOT RECORDED. "CONFIRMED BREEDER" AT ELK SLOUGH IN 2008 PER PRBO POINT COUNTS; NESTING/FLEDGING DETAILS NOT REPORTED.

PLSS:	T07N, R04E, Sec. 34 (M)	Accuracy:	nonspecific area	Area (acres):	196
UTM:	Zone-10 N4253171 E628138	Latitude/Longitude:	38.41761 / -121.53219	Elevation (feet):	10

County Summary:	Quad Summary:
Yolo	Clarksburg (3812145)

Sources:

BRO08F0005	BRONNY, C. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2008-03-12
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX
WOO09R0011	WOOD, J. (PRBO CONSERVATION SCIENCE) - DECKER ISLAND AND ELK SLOUGH BIRD MONITORING REPORT 2008. 2009-01-14



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88444	EO Index:	89446
Key Quad:	Taylor Monument (3812165)	Element Code:	ABNKC19070
Occurrence Number:	2167	Occurrence Last Updated:	2013-03-22

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2007-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
W SIDE SACRAMENTO RIVER AT RM76.1; ABOUT 0.3 MI SSW OF CO RD 117 AT RD 16 & 3 MI N OF SACRAMENTO INTERNATIONAL AIRPORT.

Detailed Location:
VICINITY OF TERRITORIES #YO068 AND SA030 (PART - SEE ALSO EO#155) FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. MAPPED TO COORDINATES GIVEN FOR SITE YO-119 FROM ESTEP'S 2008 REPORT.

Ecological:
1986 NEST 40' UP IN COTTONWOOD, SURROUNDED BY RIPARIAN HABITAT AND AGRICULTURE. 2007 NEST IN RIPARIAN COTTONWOOD SURROUNDED BY ORCHARDS AND IRRIGATED CROPLAND.

Threats:
General:
2 SWHA OBSERVED IN VICINITY IN 1983. NEST WITH 1 ADULT AND 2 YOUNG OBSERVED ON 8 JUL 1986. NO NESTS OR SWHA OBS IN 1992. ACTIVE NEST, BUT NO YOUNG OBSERVED DURING 2007 SURVEY.

PLSS: T10N, R03E, Sec. 01 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4289353 E621623	Latitude/Longitude: 38.74449 / -121.60048	Elevation (feet): 30

County Summary:	Quad Summary:
Yolo	Taylor Monument (3812165)

Sources:

DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 88512	EO Index: 89523
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070
Occurrence Number: 2197	Occurrence Last Updated: 2013-03-25

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2002-07-24	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-07-24	Occurrence Rank: Unknown
Owner/Manager: SAC INTERNATIONAL AIRPORT	Trend: Unknown
Presence: Presumed Extant	

Location:
LANDSCAPED AREA AT SACRAMENTO INTERNATIONAL AIRPORT, JUST EAST OF AIRPORT BOULEVARD AT EARHART DRIVE.

Detailed Location:
MAPPED TO COORDINATES FROM CDFW 2000-2004 NEST RECORDS.

Ecological:
NEST IN 40' WILLOW IN CLUSTER OF TREES IN A LANDSCAPED ISLAND SURROUNDED BY ROADS, RUNWAYS, AND TERMINALS ASSOCIATED WITH THE AIRPORT.

Threats:
General:
NEST WITH 2 PARTIALLY-FEATHERED YOUNG OBSERVED ON 24 JUL 2002.

PLSS: T10N, R04E, Sec. 31 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4282478 E622370	Latitude/Longitude: 38.68245 / -121.59310	Elevation (feet): 15

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

Sources:
DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88519	EO Index:	89530
Key Quad:	Taylor Monument (3812165)	Element Code:	ABNKC19070
Occurrence Number:	2198	Occurrence Last Updated:	2013-05-09

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2002-05-14	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-06-17	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG CO RD 124, ABOUT 0.2 MI SSW OF THE RD 122 JUNCTION & 1.5 MI SSE OF THE I-5 BRIDGE OVER THE SACRAMENTO RIVER.

Detailed Location:
 MAPPED TO COORDINATES FROM CDFW 2000-2004 NEST RECORDS.

Ecological:
 NEST IN 50' COTTONWOOD SURROUNDED BY CROPLAND. COORDINATES PLACE NEST TREE ADJACENT TO CANAL THAT RUNS ALONG EAST SIDE OF ROAD 124.

Threats:
General:
 ACTIVE NEST OBSERVED ON 14 MAY 2002; NO ACTIVITY AT NEST OBSERVED ON OR AFTER 17 JUN.

PLSS:	T09N, R03E, Sec. 03 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4279064 E620377	Latitude/Longitude:	38.65197 / -121.61661	Elevation (feet):	15

County Summary:	Quad Summary:
Yolo	Taylor Monument (3812165)

Sources:
 DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88530	EO Index: 89539
Key Quad: Taylor Monument (3812165)	Element Code: ABNKC19070
Occurrence Number: 2199	Occurrence Last Updated: 2013-03-26

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
YOLO BYPASS; ALONG TULE CANAL ABOUT 2.3 MILES S OF OLD RIVER RD AT CO RD 124 & 2.3 MILES NNW OF CO RD 124 AT RD 126.

Detailed Location:
2 NEST SITES REPRESENTED: SOUTH SITE FROM CDFW 2000-2004 NEST RECORDS; NORTH SITE YO-34 FROM ESTEP'S 2008 REPORT.

Ecological:
2002 NEST IN 45' COTTONWOOD SURROUNDED BY CROPLAND. 2007 NEST TREE A WILLOW IN CHANNELIZED RIPARIAN HABITAT SURROUNDED BY IRRIGATED CROPLAND.

Threats:
General:
ACTIVE NEST MONITORED IN 2002, INCUBATION OBS THROUGH 17 JUN, NO ACTIVITY ON OR AFTER 3 JUL; DOWNY FEATHERS, BUT NO YOUNG SEEN. NEST WITH 2 YOUNG OBSERVED DURING 2007 SURVEY.

PLSS: T09N, R03E, Sec. 14 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4276484 E620688	Latitude/Longitude: 38.62868 / -121.61348	Elevation (feet): 15

County Summary: Yolo	Quad Summary: Taylor Monument (3812165)
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Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 88534	EO Index: 89546
Key Quad: Rio Linda (3812164)	Element Code: ABNKC19070
Occurrence Number: 2200	Occurrence Last Updated: 2013-05-10

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2010-07-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-07-10	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST SIDE OF PLEASANT GROVE RD, ABOUT 0.25 MILES SOUTH OF W RIEGO RD & 1 MILE NORTH OF RIO LINDA BLVD, NW OF RIO LINDA.

Detailed Location:
MAPPED TO COORDINATES GIVEN ON FIELD SURVEY FORM FROM 2010.

Ecological:
NEST IN LARGE PINE IN FRONT YEARD OF RURAL HOMESTEAD. SURROUNDING HABITAT INCLUDED RURAL RESIDENCES, PASTURES, AND AGRICULTURAL FIELDS.

Threats:
General:
NEST SITE MONITORED IN 2010; NEST-BUILDING OBSERVED IN APR, INCUBATION OBS IN MAY, YOUNG IN NEST OBS 10 JUN, FLEDGED YOUNG IN NEST TREE OBS 10 JUL.

PLSS: T10N, R04E, Sec. 01 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4289839 E631682	Latitude/Longitude: 38.74743 / -121.48467	Elevation (feet): 40

County Summary:	Quad Summary:
Placer, Sutter	Rio Linda (3812164)

Sources:
WIL10F0064 WILMING, R. (GARCIA AND ASSOCIATES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2010-04-16



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88536	EO Index: 89548
Key Quad: Rio Linda (3812164)	Element Code: ABNKC19070
Occurrence Number: 2201	Occurrence Last Updated: 2013-05-10

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2003-07-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-07-19	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH OF DRY CREEK, ON EITHER SIDE OF DYER LN ABOUT 0.2 MILES WEST OF ITS JUNCTION WITH WATT AVENUE, NW OF ANTELOPE.

Detailed Location:
MAPPED TO COORDINATES FROM CDFW 2000-2004 NEST RECORDS. SOUTH POLYGON REPRESENTS SUSPECTED NEST TERRITORY RECORDED IN 2001, UNCLEAR IF ACTIVE NEST WAS FOUND. NORTH POLYGON MAPPED TO NEST SITE RECORDED IN 2003.

Ecological:
2001: SUSPECTED NEST IN LARGE VALLEY OAKS SURROUNDED BY FALLOW LAND, GRASSLAND, AND RIPARIAN, WITH RESIDENTIAL TO THE SE.
2003: NEST IN 45' VALLEY OAK WITH GRASSLAND TO THE SOUTH AND CROPLAND TO THE NORTH.

Threats:
General:
DEFENSIVE SWAINSON'S HAWK PAIR OBSERVED APR 2001; HAWK FLUSHED FROM A TREE CONTAINING POSSIBLE NEST. NEST MONITORED IN 2003; FLEDGED 2.

PLSS: T10N, R05E, Sec. 11 (M)	Accuracy: nonspecific area	Area (acres): 75
UTM: Zone-10 N4289075 E639279	Latitude/Longitude: 38.73938 / -121.39744	Elevation (feet): 90

County Summary:	Quad Summary:
Placer	Rio Linda (3812164)

Sources:

COR01F0035	CORDES, S. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2001-04-25
DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 88537	EO Index: 89549
Key Quad: Rio Linda (3812164)	Element Code: ABNKC19070
Occurrence Number: 2202	Occurrence Last Updated: 2013-03-26

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2003-07-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-07-19	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
N SIDE OF DYER LN, ABOUT 0.25 MI ENE OF TAN WOODS RD JUNCTION & 1.75 MI NNW OF WATT AVE AT ELVERTA RD, NW OF ANTELOPE.

Detailed Location:
MAPPED TO COORDINATES FROM CDFW 2000-2004 NEST RECORDS.

Ecological:
NEST IN 50' VALLEY OAK WITH GRASSLAND TO THE EAST AND CROPS TO THE WEST. SURVEYOR NOTED MOBBING OF ADULT SWAINSON'S HAWK BY SMALLER BIRD.

Threats:
General:
ACTIVE NEST MONITORED IN 2003; FLEDGLING/BRANCHER, STILL A BIT DOWNY, OBSERVED OUT OF NEST ON 19 JUL, WITH BOTH PARENTS AT TOP OF NEST TREE.

PLSS: T10N, R05E, Sec. 11 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4288756 E638478	Latitude/Longitude: 38.73663 / -121.40671	Elevation (feet): 95

County Summary:	Quad Summary:
Placer	Rio Linda (3812164)

Sources:
DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88585	EO Index:	89602
Key Quad:	Carmichael (3812153)	Element Code:	ABNKC19070
Occurrence Number:	2204	Occurrence Last Updated:	2013-05-10

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2010-06-20	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2010-06-20	Occurrence Rank:	Poor
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 AT THE SOUTHEAST CORNER OF THE INTERSECTION OF BRADSHAW ROAD AND KIEFER BLVD, ROSEMONT.

Detailed Location:
 MAPPED TO COORDINATES GIVEN ON FIELD SURVEY FORM.

Ecological:
 NEST WAS IN A MEDIUM-SIZED EUCALYPTUS IN A ROW OF ROADSIDE TREES; IN COMMERCIAL ZONE. ADJACENT LOT WAS FORMER GRAVEL MINE, GROWN OVER WITH GRASS. SINCE 2010, ALL OF THE TREES AT THIS SITE HAVE BEEN REMOVED & THE LOT HAS BEEN DEVELOPED.

Threats:
 AERIAL PHOTOS FROM 2011 AND LATER SHOW THE NEST TREE HAS BEEN REMOVED AND THE ADJACENT LOT PAVED AND DEVELOPED.

General:
 NESTING PAIR OBSERVED FROM 17 TO 20 JUN 2010; FEMALE ON NEST 17 JUN, SUCCESS UNKNOWN.

PLSS: T08N, R06E, Sec. 16 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4267438 E645122	Latitude/Longitude: 38.54353 / -121.33475	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
 WHI10F0011 WHISLER, E. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2010-06-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88589	EO Index:	89605
Key Quad:	Carmichael (3812153)	Element Code:	ABNKC19070
Occurrence Number:	2205	Occurrence Last Updated:	2013-03-29

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2010-08-19	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2010-08-19	Occurrence Rank:	Unknown
Owner/Manager:	SAC COUNTY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
EAST SIDE OF BRADSHAW ROAD, LESS THAN 0.1 MILES SOUTH OF GOETHE ROAD INTERSECTION, ROSEMONT.

Detailed Location:
MAPPED TO PROVIDED COORDINATES.

Ecological:
NEST IN VALLEY OAK WITHIN THE OFF-LEASH DOG PARK OPERATED BY THE SACRAMENTO COUNTY ANIMAL SHELTER. HABITAT SURROUNDING SITE WAS MOSTLY COMMERCIAL AND RESIDENTIAL; NEARBY MATHER AIR FORCE BASE & GRANITE CONSTRUCTION OFFERED FORAGING HABITAT.

Threats:
General:
NEST MONITORED WEEKLY JUL - AUG 2010; FLEDGED 2 YOUNG.

PLSS: T08N, R06E, Sec. 16 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4268585 E645032	Latitude/Longitude: 38.55388 / -121.33555	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
CRO10F0003 CROUCH, K. (PADRE ASSOCIATES, INC.) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2010-08-19



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88590	EO Index: 89606
Key Quad: Carmichael (3812153)	Element Code: ABNKC19070
Occurrence Number: 2206	Occurrence Last Updated: 2013-05-10

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2004-04-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2012-XX-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
ANCIL HOFFMAN PARK, ON THE NORTH SIDE OF THE AMERICAN RIVER IN CARMICHAEL.

Detailed Location:
NEST TREE WAS LOCATED ON THE BLUFFS BEHIND THE PRESERVE AT EFFIE YEAW NATURE CENTER IN ANCIL HOFFMAN PARK.

Ecological:
2004 NEST IN TALL EUCALYPTUS ON BLUFFS OVERLOOKING ANCIL HOFFMAN PARK. A VARIETY OF OTHER BIRDS WERE ALSO OBSERVED INCLUDING VAUX'S SWIFTS, OSPREYS, AND NESTING GREAT HORNED OWLS.

Threats:

General:
NEST-BUILDING OBSERVED ON 5-6 APR 2004. PAIR OBSERVED NEAR NEST ON 18 APR, NESTING OUTCOME UNKNOWN. NO SWAINSON'S HAWKS WERE OBSERVED 2005-2012; A PAIR OF RED-TAILED HAWKS TOOK OVER THE SITE.

PLSS: T09N, R06E, Sec. 22 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4275864 E647151	Latitude/Longitude: 38.61910 / -121.30971	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

HAR04U0001	HARPER, E. - EMAIL FROM ED HARPER REGARDING SWAINSON'S HAWKS NESTING IN ANCIL HOFFMAN PARK. 2004-04-18
HAR13U0001	HARPER, E. - EMAIL REGARDING NESTING SWAINSON'S HAWKS AT ANCIL HOFFMAN PARK, SACRAMENTO. 2013-04-02



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88604	EO Index: 89620
Key Quad: Sacramento East (3812154)	Element Code: ABNKC19070
Occurrence Number: 2213	Occurrence Last Updated: 2013-05-14

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2012-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2012-XX-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY, CITY OF SACRAMENTO	Trend: Unknown
Presence: Presumed Extant	

Location:
SUTTERS LANDING PARK, ON THE SOUTH SIDE OF THE AMERICAN RIVER AT THE NORTH END OF 28TH STREET.

Detailed Location:
MAPPED TO THE VICINITY OF THE PARK.

Ecological:
NESTS WERE IN COTTONWOODS IN RIPARIAN STRIP; ADJACENT GRASSLAND OVER CAPPED LANDFILL USED FOR FORAGING.

Threats:
SOLAR POWER PLANT PROPOSED FOR OLD LANDFILL SITE WOULD ELIMINATE FORAGING HABITAT (2011).

General:
PAIR OBSERVED COPULATING IN LARGE SNAG, 2005. NESTING PAIR DOCUMENTED FROM 2008-2011; FLEDGED CHICKS IN 3 OUT OF 4 YEARS. PREVIOUS YEARS' NEST OCCUPIED BY GREAT HORNED OWLS IN 2011 & POSS. 2012, THOUGH SWHA PAIR OBS ON TERRITORY BOTH YEARS.

PLSS: T09N, R05E, Sec. 32 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4272313 E634370	Latitude/Longitude: 38.58914 / -121.45715	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

BUR05F0004	BURWELL, T. (SACRAMENTO COUNTY PARKS) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2005-05-15
LAM11U0001	LAMARE, J. & K. WAGNER - LETTER REGARDING SUTTER LANDING PARK SOLAR PHOTOVOLTAIC PROJECT MITIGATED NEGATIVE DECLARATION 2011-10-10
LAM13U0001	LAMARE, J. - EMAIL CORRESPONDENCE REGARDING SUTTERS LANDING SWAINSON'S HAWKS. 2013-04-03
ORT11A0001	ORTIZ, G. - SACRAMENTO BEE (NEWSPAPER) ARTICLE REGARDING SWHA PAIR NESTING NEAR SUTTER'S LANDING REGIONAL PARK. 2011-04-07
SEW13U0001	SEWELL, R. - EMAIL CORRESPONDENCE REGARDING NESTING SWAINSON'S HAWKS AT SUTTER'S LANDING IN SACRAMENTO. 2013-04-06



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88606

EO Index: 89622

Key Quad: Sacramento East (3812154)

Element Code: ABNKC19070

Occurrence Number: 2214

Occurrence Last Updated: 2013-05-10

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2010-XX-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2010-XX-XX

Occurrence Rank: Good

Owner/Manager: SAC COUNTY

Trend: Unknown

Presence: Presumed Extant

Location:

ALONG THE AMERICAN RIVER AT RM-5, JUST SOUTH OF CAL EXPO.

Detailed Location:

1992: SUSPECTED NEST LOCATION MARKED ON MAP ATTACHED TO FIELD SURVEY FORM. REPORTED AS A NEST SITE, TERRITORY #SA054 IN 1992 VERSION OF CDFW SWHA DATABASE (#SA086 IN 1994 VERSION). 2009-2010 NESTS ON N SIDE OF RIVER, PER FIELD SURVEY FORM.

Ecological:

1992: SUSPECTED NEST IN RIPARIAN VEGETATION WITH GRASS FIELDS.

Threats:

General:

SWAINSON'S HAWK PAIR OBSERVED FORAGING, RETURNING TO SUSPECTED NEST LOCATION ON SEVERAL OCCASIONS IN JUL 1992; NEST NOT FOUND/NOT DOCUMENTED. NEST-BUILDING OBSERVED IN 2009 AND 2010; SUCCESS UNKNOWN.

PLSS: T08N, R05E, Sec. 04 (M)

Accuracy: 2/5 mile

Area (acres): 0

UTM: Zone-10 N4271590 E636884

Latitude/Longitude: 38.58224 / -121.42844

Elevation (feet): 35

County Summary:

Quad Summary:

Sacramento

Sacramento East (3812154)

Sources:

- CAH11F0001 CAHILL, K. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-WILDLIFE MANAGEMENT BRANCH) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2011-04-27
- DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
- DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
- SCH92F0074 SCHNEIDER, T. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1992-07-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88615	EO Index: 89624
Key Quad: Sacramento East (3812154)	Element Code: ABNKC19070
Occurrence Number: 2215	Occurrence Last Updated: 2013-05-10

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2010-07-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-07-14	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
2402 AMERICAN AVENUE, GARDENLAND, N OF AMERICAN RIVER PARKWAY.

Detailed Location:
MAPPED TO ADDRESS GIVEN ON FIELD SURVEY FORM. NEST TREE IS IN FRONT YARD OF RESIDENCE.

Ecological:
NEST WAS AT THE TOP OF A COTTONWOOD TREE ADJACENT TO A BUSY, NOISY STREET.

Threats:
POSSIBLE THREAT OF TREE TRIMMING OR REMOVAL.

General:
ACTIVE NEST IN 2009, SUCCESS UNKNOWN. ACTIVE NEST MONITORED IN 2010. 2 CHICKS OBSERVED ON THE NEST, TRYING THEIR WINGS ON 14 JUL 2010; FLEDGING SUCCESS UNKNOWN.

PLSS: T09N, R05E, Sec. 30 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4274672 E633062	Latitude/Longitude: 38.61059 / -121.47171	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:
GRA10F0014 GRAY, F. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2010-05-21



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88617	EO Index: 89632
Key Quad: Sacramento East (3812154)	Element Code: ABNKC19070
Occurrence Number: 2216	Occurrence Last Updated: 2013-05-10

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2012-04-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2012-04-23	Occurrence Rank: Fair
Owner/Manager: CITY OF SACRAMENTO	Trend: Unknown
Presence: Presumed Extant	

Location:
FREMONT PARK, AT 15TH AND Q STREETS IN DOWNTOWN SACRAMENTO.

Detailed Location:
MAPPED TO COORDINATES PROVIDED ON FIELD SURVEY FORMS.

Ecological:
2006-2012 NEST IN 60' REDWOOD (GIANT SEQUOIA). NEST TREE IN CITY PARK 1 SQUARE BLOCK IN SIZE, PLANTED WITH NATIVE & NON-NATIVE TREES. SURROUNDING HABITAT URBAN, WITH HIGH DENSITY OF NON-NATIVE TREES. SOME FORAGING HABITAT WITHIN 2-4 MILES.

Threats:
NO APPARENT THREATS, BUT TREE TRIMMING DURING NESTING SEASON WOULD POSE A THREAT (2012).

General:
NESTING IN 2006, SUCCESS UNKNOWN. 1 FLEDGED IN 2007. NEST FAILED IN 2008. NESTING PAIR OBS APR 2009, SUCCESS UNKNOWN. AD FLYING WITH NEST MATERIAL IN VICINITY IN 2010. 1 FLEDGED IN 2011. NEST-BUILDING OBS APR 2012, SUCCESS UNKNOWN.

PLSS: T08N, R04E, Sec. 01 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4270242 E631636	Latitude/Longitude: 38.57089 / -121.48892	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

COM12F0002	COMRACK, L. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-WILDLIFE MANAGEMENT BRANCH) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2012-04-23
SWO09F0001	SWOLGAARD, C. (CALIFORNIA DEPARTMENT OF PARKS AND RECREATION) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2009-04-10
SWO11F0001	SWOLGAARD, C. (CALIFORNIA DEPARTMENT OF PARKS AND RECREATION) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2011-05-06



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88619	EO Index:	89634
Key Quad:	Sacramento East (3812154)	Element Code:	ABNKC19070
Occurrence Number:	2217	Occurrence Last Updated:	2013-04-03

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2007-07-13	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-07-13	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 CAMP POLLOCK, ON THE NORTH SIDE OF THE AMERICAN RIVER ABOUT 0.25 MILES NW OF THE HWY 160 BRIDGE.

Detailed Location:
 MAPPED TO LOCATION MARKED ON GOOGLE EARTH MAP.

Ecological:
 NEST TREE WAS A TALL COTTONWOOD UNDER POWERLINE TOWERS.

Threats:
General:
 ACTIVE NEST MONITORED IN 2007; FLEDGED 2 YOUNG.

PLSS: T09N, R05E, Sec. 30 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4273481 E632447	Latitude/Longitude: 38.59995 / -121.47900	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:
 SEW07U0001 SEWELL, R. ET AL. - EMAIL CORRESPONDENCE REGARDING SWAINSON'S HAWK NEST SITE IN THE AMERICAN RIVER PARKWAY. 2007-07-11



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88627	EO Index:	89641
Key Quad:	Sacramento West (3812155)	Element Code:	ABNKC19070
Occurrence Number:	2218	Occurrence Last Updated:	2013-04-04

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2007-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	DPR, UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WEST BANK OF THE SACRAMENTO RIVER AT RM-60, ABOUT 0.5 MILES NNW OF THE I STREET BRIDGE, SACRAMENTO.

Detailed Location:
MAPPED TO COORDINATES GIVEN FOR SITE YO-102 FROM ESTEP'S 2008 REPORT.

Ecological:
2007 NEST IN RIPARIAN COTTONWOOD.

Threats:
General:
NEST WITH ONE YOUNG OBSERVED DURING 2007 SURVEY.

PLSS: T09N, R04E, Sec. 35 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4272796 E629839	Latitude/Longitude: 38.59416 / -121.50907	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento, Yolo	Sacramento West (3812155)

Sources:
EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88631	EO Index:	89646
Key Quad:	Sacramento West (3812155)	Element Code:	ABNKC19070
Occurrence Number:	2219	Occurrence Last Updated:	2013-04-05

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2007-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WEST SIDE SACRAMENTO RIVER, ABOUT 0.2 MI SW OF S RIVER RD AT DAVIS RD & 1.1 MI SE OF JEFFERSON BLVD AT MARSHALL RD.

Detailed Location:
MAPPED TO COORDINATES GIVEN FOR SITE YO-68 FROM ESTEP'S 2008 REPORT.

Ecological:
NEST IN LONE VALLEY OAK SURROUNDED BY ALFALFA AND IRRIGATED CROPLAND.

Threats:
General:
ACTIVE NEST WAS OBSERVED DURING 2007 SURVEY; NESTING OUTCOME WAS NOT CONFIRMED.

PLSS: T08N, R04E, Sec. 22 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4265339 E627629	Latitude/Longitude: 38.52731 / -121.53580	Elevation (feet): 15

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88632	EO Index:	89647
Key Quad:	Sacramento West (3812155)	Element Code:	ABNKC19070
Occurrence Number:	2220	Occurrence Last Updated:	2013-04-05

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2007-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WEST SIDE SACRAMENTO RIVER, ABOUT 0.2 MI S OF ANTIOCH AVE AT DAVIS RD & 0.8 MI E OF JEFFERSON BLVD AT TAPLEY RD.

Detailed Location:
MAPPED TO COORDINATES GIVEN FOR SITE YO-69 FROM ESTEP'S 2008 REPORT.

Ecological:
NEST IN LONE VALLEY OAK SURROUNDED BY ALFALFA AND IRRIGATED CROPLAND.

Threats:
General:

NEST WITH 2 YOUNG OBSERVED DURING 2007 SURVEY.

PLSS: T08N, R04E, Sec. 21 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4265522 E626917	Latitude/Longitude: 38.52906 / -121.54394	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88633	EO Index:	89648
Key Quad:	Sacramento West (3812155)	Element Code:	ABNKC19070
Occurrence Number:	2221	Occurrence Last Updated:	2013-04-05

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2007-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WEST OF SACRAMENTO RIVER, ON THE N SIDE OF BEVAN RD JUST W OF PARTRIDGE AVENUE & ABOUT 0.7 MILES E OF JEFFERSON BLVD.

Detailed Location:
MAPPED TO COORDINATES GIVEN FOR SITE YO-67 FROM ESTEP'S 2008 REPORT.

Ecological:
NEST IN VALLEY OAK IN YARD OF RURAL RESIDENCE, SURROUNDED BY ALFALFA AND IRRIGATED CROPLAND.

Threats:
General:
NESTING ACTIVITY WAS OBSERVED AT THIS NEST SITE DURING A 2007 SURVEY, BUT THE NESTING OUTCOME WAS NOT CONFIRMED.

PLSS: T08N, R04E, Sec. 21 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4264950 E626267	Latitude/Longitude: 38.52399 / -121.55149	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88634	EO Index: 89649
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 2222	Occurrence Last Updated: 2013-04-05

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G5	IUCN_LC-Least Concern
State: S3	USFWS_BCC-Birds of Conservation Concern

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG THE CLARKSBURG BRANCH LINE TRAIL (OLD RR TRACKS) ABOUT 0.2-0.4 MI NNE OF ANTIOCH AVE AT DAVIS RD, WEST SACRAMENTO.

Detailed Location:
2 SITES REPRESENTED; MAPPED TO COORDINATES GIVEN FOR SITE YO-70 FROM ESTEP'S 2008 REPORT (NORTH SITE) AND FOR CDFW NEST RECORD FROM 2003 (SOUTH SITE).

Ecological:
2003 NEST WAS IN A 65' COTTONWOOD SURROUNDED BY CROPLAND WITH RESIDENTIAL LAND USE TO THE SOUTHWEST. 2007 SUSPECTED NEST WITHIN TREE ROW; NEST LOCATION NEVER CONFIRMED. SURROUNDED BY ALFALFA AND IRRIGATED CROPLAND.

Threats:
General:
NEST WITH 1 DOWNY YOUNG OBSERVED ON 3 JUN 2003. NESTING OR TERRITORIAL BEHAVIORS OBSERVED IN 2007, BUT NEST ITSELF WAS NOT LOCATED AND NESTING OUTCOME NOT CONFIRMED.

PLSS: T08N, R04E, Sec. 21 (M)	Accuracy: nonspecific area	Area (acres): 22
UTM: Zone-10 N4266197 E626991	Latitude/Longitude: 38.53512 / -121.54296	Elevation (feet): 10

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:

DFG05U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
EST08R0001	ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88635	EO Index:	89650
Key Quad:	Sacramento West (3812155)	Element Code:	ABNKC19070
Occurrence Number:	2223	Occurrence Last Updated:	2013-04-05

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2007-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG THE CLARKSBURG BRANCH LINE TRAIL (OLD RR TRACKS) ABOUT 0.4 MI SSE OF JEFFERSON BLVD AT LINDEN RD, WEST SACRAMENTO.

Detailed Location:
 MAPPED TO COORDINATES GIVEN FOR SITE YO-39 FROM ESTEP'S 2008 REPORT.

Ecological:
 NEST IN WILLOW IN CHANNELIZED RIPARIAN HABITAT, SURROUNDED BY URBAN LAND USE, WITH NEARBY ALFALFA AND IRRIGATED CROPLAND.

Threats:
 DEVELOPMENT IS DECREASING ADJACENT FORAGING HABITAT ACCORDING TO 1993-2002 AERIAL PHOTOS.

General:
 NEST WITH 1 YOUNG OBSERVED DURING 2007 SURVEY.

PLSS: T08N, R04E, Sec. 15 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4267324 E627471	Latitude/Longitude: 38.54521 / -121.53725	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
 EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88638	EO Index:	89652
Key Quad:	Sacramento West (3812155)	Element Code:	ABNKC19070
Occurrence Number:	2224	Occurrence Last Updated:	2013-04-05

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2007-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ABOUT 0.5 MI SSE OF JEFFERSON BLVD AT BEVAN RD AND 0.6 MI NNW OF GREGORY AVE AT BURROWS AVE, W OF THE SACRAMENTO RIVER.

Detailed Location:
 MAPPED TO COORDINATES GIVEN FOR SITE YO-66 FROM ESTEP'S 2008 REPORT.

Ecological:
 NEST IN ISOLATED VALLEY OAK SURROUDED BY ALFALFA AND IRRIGATED CROPLAND.

Threats:
General:
 ACTIVITY OBSERVED AT NEST DURING 2007 SURVEY; NESTING OUTCOME NOT CONFIRMED.

PLSS: T08N, R04E, Sec. 29 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4264189 E625402	Latitude/Longitude: 38.51726 / -121.56155	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
 EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88647	EO Index: 89661
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 2225	Occurrence Last Updated: 2013-04-08

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-05-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-05-28	Occurrence Rank: Unknown
Owner/Manager: DFG-YOLO BYPASS WA, UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
YOLO BYPASS WA; ABOUT 2.5 MI WSW OF JEFFERSON BLVD AT BURROWS AVE, 5 MI SE OF EL MACERO.

Detailed Location:
MAPPED TO POINT FROM CDFW SHAPEFILE OF NEST SITES DOCUMENTED IN 2009.

Ecological:
NEST IN 30' COTTONWOOD SURROUNDED BY CROPLAND WITH GRAZING LAND TO THE NE.

Threats:
General:
ACTIVE NEST, INCUBATION AND DEFENSIVE BEHAVIOR OBSERVED ON 28 MAY 2009; SUCCESS UNKNOWN.

PLSS: T08N, R03E, Sec. 35 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4262401 E620291	Latitude/Longitude: 38.50186 / -121.62047	Elevation (feet): 10

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:
DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 88648

EO Index: 89662

Key Quad: Sacramento West (3812155)

Element Code: ABNKC19070

Occurrence Number: 2226

Occurrence Last Updated: 2013-04-08

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

Other Lists: BLM_S-Sensitive
IUCN_LC-Least Concern
USFWS_BCC-Birds of Conservation Concern

CNDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2007-XX-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2007-XX-XX

Occurrence Rank: Unknown

Owner/Manager: DFG-YOLO BYPASS WA

Trend: Unknown

Presence: Presumed Extant

Location:

YOLO BYPASS WA, ABOUT 2.6 MI SW OF JEFFERSON BLVD AT SOUTHPORT PKWY & 5.75 MI SE OF I-80 AT MACE BLVD IN EL MACERO.

Detailed Location:

MAPPED TO COORDINATES GIVEN FOR SITE YO-115 FROM ESTEP'S 2008 REPORT.

Ecological:

NEST IN EUCALYPTUS IN TREE ROW SURROUNDED BY SEASONAL WETLAND, ALFALFA, AND IRRIGATED CROPLAND.

Threats:

General:

ACTIVE NEST OBSERVED DURING 2007 PRODUCED 0 YOUNG.

PLSS: T08N, R03E, Sec. 35 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4262400 E621183

Latitude/Longitude: 38.50172 / -121.61024

Elevation (feet): 10

County Summary:

Quad Summary:

Yolo

Sacramento West (3812155)

Sources:

EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88649	EO Index:	89663
Key Quad:	Sacramento West (3812155)	Element Code:	ABNKC19070
Occurrence Number:	2227	Occurrence Last Updated:	2013-04-08

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2003-05-28	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2003-05-28	Occurrence Rank:	Unknown
Owner/Manager:	DFG-YOLO BYPASS WA	Trend:	Unknown
Presence:	Presumed Extant		

Location:
YOLO BYPASS WA ALONG S FORK PUTAH CREEK, ABOUT 2.4 MI WSW OF CA-84 AT SOUTHPORT PKWY & 5.3 MI SE OF I-80 AT MACE BLVD.

Detailed Location:
MAPPED TO COORDINATES GIVEN FOR CDFW NEST RECORD FROM 2003. STATED LOCATION IS "SOUTH OF PARKING LOT G."

Ecological:
NEST IN 40' WILLOW WITH RIPARIAN HABITAT TO THE NORTH AND GRAZING LAND TO THE SOUTH.

Threats:
General:
NEST WITH 1 PARTIALLY-FEATHERED YOUNG OBSERVED ON 28 MAY 2003; FLEDGING SUCCESS UNKNOWN.

PLSS: T08N, R03E, Sec. 26 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4263714 E621046	Latitude/Longitude: 38.51358 / -121.61159	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88651	EO Index: 89665
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 2228	Occurrence Last Updated: 2013-04-08

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2009-06-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-06-08	Occurrence Rank: Unknown
Owner/Manager: DFG-YOLO BYPASS WA	Trend: Unknown
Presence: Presumed Extant	

Location:
YOLO BYPASS WA, ABOUT 0.8 MI ENE OF I-80 AT CHILES RD, 2.6 MI WSW OF I-80 AT ENTERPRISE BLVD IN WEST SACRAMENTO.

Detailed Location:
MAPPED TO POINT FROM CDFW SHAPEFILE OF NEST RECORDS FROM 2009.

Ecological:
NEST IN 30' WILLOW WITH FALLOW/RUDERAL LAND TO THE SOUTH AND CROPLAND TO THE NORTH.

Threats:
General:
ACTIVE NEST, INCUBATION OBSERVED ON 8 JUN 2009; FLEDGING SUCCESS UNKNOWN.

PLSS: T08N, R03E, Sec. 03 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4269937 E619837	Latitude/Longitude: 38.56982 / -121.62438	Elevation (feet): 10

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:
DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88655	EO Index: 89671
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 2229	Occurrence Last Updated: 2013-04-08

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2004-06-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-06-21	Occurrence Rank: Unknown
Owner/Manager: DFG-YOLO BYPASS WA	Trend: Unknown
Presence: Presumed Extant	

Location:
YOLO BYPASS WA, ALONG RAILROAD TRACK, ABOUT 1.4 MI ENE OF I-80 AT CHILES RD & 1.75 MI W OF I-80 AT ENTERPRISE BLVD.

Detailed Location:
MAPPED TO COORDINATES FROM CDFW 2000-2004 NEST RECORDS. 3 NEST SITES RECORDED; NE SITE ACTIVE IN 2002, SE SITE ACTIVE IN 2003, & W SITE ACTIVE IN 2004.

Ecological:
2002 NEST IN 50' WILLOW WITH CROPLAND TO NORTH AND RIPARIAN SOUTH. 2003 NEST IN 40' COTTONWOOD SURROUNDED BY FALLOW LAND. 2004 NEST IN 30' WILLOW WITH CROPLAND NORTH AND FALLOW LAND SOUTH.

Threats:
General:
2002: 1 DOWNY YOUNG OBS IN NEST ON 24 JUN. 2003: 1 DOWNY YOUNG OBS ON 29 MAY; NEST WAS MONITORED BY BIOLOGICAL CONSULTANTS DURING RR TRESTLE CONSTRUCTION. 2004: BIRDS "JUMPY," FLUSHED FROM NEST 13 MAY; 1 DOWNY YOUNG OBS IN NEST ON 21 JUN.

PLSS: T08N, R03E, Sec. 02 (M)	Accuracy: specific area	Area (acres): 15
UTM: Zone-10 N4270151 E620659	Latitude/Longitude: 38.57163 / -121.61491	Elevation (feet): 15

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:
DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88661	EO Index: 89677
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 2230	Occurrence Last Updated: 2013-04-08

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ON UNNAMED CANAL ALONG N SIDE OF RR TRACKS ON N BOUNDARY OF YOLO BYPASS WA, ABOUT 0.7 MI NW OF I-80 AT ENTERPRISE BLVD.

Detailed Location:
MAPPED TO COORDINATES GIVEN FOR SITE YO-73 FROM ESTEP'S 2008 REPORT.

Ecological:
NEST IN COTTONWOOD SURROUNDED BY SEASONAL WETLAND, URBAN LAND USE, AND RICE FIELDS.

Threats:
General:
ACTIVITY AT NEST OBSERVED DURING 2007 SURVEY; NESTING OUTCOME UNCONFIRMED.

PLSS: T09N, R03E, Sec. 36 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4270872 E622805	Latitude/Longitude: 38.57783 / -121.59015	Elevation (feet): 10

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:
EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 88662	EO Index: 89679
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 2231	Occurrence Last Updated: 2013-04-08

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST EAST OF THE YOLO BYPASS WA, ALONG TOE DRAIN, ABOUT 0.2 MILES NW OF I-80 AT ENTERPRISE BLVD IN WEST SACRAMENTO.

Detailed Location:
MAPPED TO COORDINATES PROVIDED FOR SITE YO-31 FROM ESTEP'S 2008 REPORT.

Ecological:
NEST IN WILLOW IN CHANNELIZED RIPARIAN HABITAT.

Threats:
General:

NEST WITH 2 YOUNG OBSERVED DURING 2007 SURVEY.

PLSS: T08N, R04E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4270644 E623661	Latitude/Longitude: 38.57566 / -121.58037	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88668	EO Index:	89683
Key Quad:	Sacramento West (3812155)	Element Code:	ABNKC19070
Occurrence Number:	2232	Occurrence Last Updated:	2013-05-13

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2003-06-30	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2003-06-30	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
W SIDE TULE CANAL, ABOUT 2 MI W OF OLD RIVER RD AT LEVEE RD & 2.5 MI NNW OF I-80 AT ENTERPRISE RD IN WEST SACRAMENTO.

Detailed Location:
MAPPED TO COORDINATES FROM CDFW NEST RECORD FROM 2003. STATED LOCATION "YOLO BYPASS E SIDE, 1/4 MILE N OF SACRAMENTO BYPASS."

Ecological:
NEST IN 50' COTTONWOOD SUROUNDED BY CROPLAND.

Threats:

General:
ACTIVE NEST OBSERVED 28 APR 2003; 1 FEATHERED YOUNG OBS IN NEST ON 30 JUN.

PLSS:	T09N, R03E, Sec. 24 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4274059 E622129	Latitude/Longitude:	38.60663 / -121.59735	Elevation (feet):	10

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 88669	EO Index: 89684
Key Quad: Sacramento West (3812155)	Element Code: ABNKC19070
Occurrence Number: 2233	Occurrence Last Updated: 2013-04-09

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2007-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG TULE CANAL, ABOUT 2.4 MI WNW OF OLD RIVER RD AT LEVEE RD & 3.1 MI NNW OF I-80 AT ENTERPRISE RD IN WEST SACRAMENTO.

Detailed Location:
MAPPED TO COORDINATES GIVEN FOR SITE YO-34 FROM ESTEP'S 2008 REPORT.

Ecological:
NEST IN WILLOW IN CHANNELIZED RIPARIAN HABITAT SURROUNDED BY IRRIGATED CROPLAND.

Threats:

General:
NEST WITH 1 YOUNG OBSERVED DURING 2007 SURVEY.

PLSS: T09N, R03E, Sec. 23 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4274950 E621595	Latitude/Longitude: 38.61474 / -121.60333	Elevation (feet): 15

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
EST08R0001 ESTEP ENVIRONMENTAL CONSULTING - THE DISTRIBUTION, ABUNDANCE, AND HABITAT ASSOCIATIONS OF THE SWAINSON'S HAWK IN YOLO COUNTY, CALIFORNIA. 2008-03-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88769	EO Index:	89784
Key Quad:	Elk Grove (3812143)	Element Code:	ABNKC19070
Occurrence Number:	2244	Occurrence Last Updated:	2013-04-12

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2009-07-06	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2009-07-06	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
EAST SIDE OF BRADSHAW RD, ABOUT 0.4 MI ENE OF GERBER RD INTERSECTION & 1 MI SSE OF FLORIN RD, N OF ELK GROVE.

Detailed Location:
MAPPED TO POINT FROM CDFW SHAPEFILE OF NESTS SITES RECORDED IN 2009.

Ecological:
NEST IN 40' TREE CODED AS "OTHER NATIVE" (NOT VALLEY OR BLUE OAK, PINE, WILLOW, OR COTTONWOOD). SURROUNDED BY FALLOW LAND WITH RESIDENTIAL LAND USE TO THE NE.

Threats:
General:
NEST WITH YOUNG OBSERVED ON 6 JUL 2009.

PLSS:	T07N, R06E, Sec. 04 (M)	Accuracy:	1/5 mile	Area (acres):	0
UTM:	Zone-10 N4260790 E645783	Latitude/Longitude:	38.48353 / -121.32855	Elevation (feet):	65

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88770	EO Index: 89785
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 2245	Occurrence Last Updated: 2013-05-13

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2011-06-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-06-27	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.3 MILES NW OF BRADSHAW RD AT SHELDON RD AND 0.75 MILES SSW OF BRADSHAW AND CALVINE, NE OF ELK GROVE.

Detailed Location:
MAPPED TO COORDINATES GIVEN ON 2011 FIELD SURVEY FORM.

Ecological:
NEST WAS IN MEDIUM-SIZED VALLEY OAK ALONG THE NORTH FENCELINE OF RURAL RANCHETTE. GOOGLE EARTH AERIALS SHOW THAT PARCEL WAS DEVELOPED IN LATE 2011.

Threats:
POSSIBLE THREAT FROM DISTURBANCE AND LOSS OF FORAGING HABITAT DUE TO DEVELOPMENT.

General:
NESTING PAIR OBSERVED ON 19 MAY 2011; FEMALE WAS TENDING NEST AND MALE WAS CIRCLING AND CALLING. NEST FAILED BY 27 JUN; REASON FOR FAILURE NOT DETERMINED.

PLSS: T07N, R06E, Sec. 20 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4256131 E644970	Latitude/Longitude: 38.44170 / -121.33884	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
WHI11F0006 WHISLER, E. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2011-05-19



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88773	EO Index:	89788
Key Quad:	Elk Grove (3812143)	Element Code:	ABNKC19070
Occurrence Number:	2246	Occurrence Last Updated:	2013-04-12

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2009-07-06	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2009-07-06	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
ON CHERRINGTON LN, ABOUT 0.6 MI N OF THE SHELDON RD JUNCTION & 0.4 MI S OF CALVINE RD AT VINEYARD RD, NE OF ELK GROVE.

Detailed Location:
MAPPED TO POINT FROM CDFW SHAPEFILE OF SWAINSON'S HAWK NEST SITES RECORDED IN 2009.

Ecological:
NEST IN 40' COTTONWOOD SURROUNDED BY RESIDENTIAL LAND USE, WITH FALLOW LAND TO THE SW.

Threats:
General:
NEST WITH YOUNG OBSERVED ON 6 JUL 2009; FLEDGING SUCCESS UNKNOWN.

PLSS: T07N, R06E, Sec. 22 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4256809 E646940	Latitude/Longitude: 38.44748 / -121.31613	Elevation (feet): 60

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
DFG09D0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - SHAPEFILE OF SWAINSON'S HAWK NEST RECORDS FROM 2009. 2009-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 88786	EO Index: 89801
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 2249	Occurrence Last Updated: 2013-04-12

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2003-05-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-05-28	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
 ABOUT 0.6 MILES SE OF GRANT LINE RD AT WATERMAN RD AND 1.7 MILES NNE OF HWY 99 BRIDGE OVER DEER CREEK, SE OF ELK GROVE.

Detailed Location:
 MAPPED TO COORDINATES FROM CDFW NEST RECORD FROM 2003.

Ecological:
 NEST IN 50' VALLEY OAK SURROUNDED BY GRAZING LAND.

Threats:
General:
 ACTIVE NEST RECORDED ON 28 MAY 2003, NO YOUNG SEEN. NESTING OUTCOME NOT CONFIRMED.

PLSS: T06N, R06E, Sec. 08 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4249471 E645084	Latitude/Longitude: 38.38168 / -121.33891	Elevation (feet): 50

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
 DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	88787	EO Index:	89802
Key Quad:	Elk Grove (3812143)	Element Code:	ABNKC19070
Occurrence Number:	2250	Occurrence Last Updated:	2013-05-14

Scientific Name:	<i>Buteo swainsoni</i>	Common Name:	Swainson's hawk
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed:	2003-07-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2003-07-01	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
NORTH OF DEER CREEK, FROM GRANT LINE RD 0.2 ROAD MILES SW OF MOSHER RD JUNCTION, TO ABOUT 0.3 MI ESE, ALONG FARM ROAD.

Detailed Location:
MAPPED TO COORDINATES FROM CDFW NEST RECORDS FROM 2003. TWO ACTIVE NEST SITES RECORDED.

Ecological:
W NEST (W SIDE GRANT LINE RD) IN 75' EUCALYPTUS SURROUNDED BY GRAZING LAND W/RESIDENTIAL TO NE. AIR PHOTOS INDICATE THIS TREE WAS REMOVED IN 2009 W/EXTENSION OF WATERMAN RD. E NEST (ON FARM RD) IN 70' VALLEY OAK SURROUNDED BY GRAZING LAND.

Threats:
REMOVAL OF NEST TREES DUE TO ROAD BUILDING AND DEVELOPMENT.

General:
1 YOUNG FLEDGED FROM WEST NEST BY 1 JUL 2003. ACTIVE NEST RECORDED AT EAST SITE IN 2003; NO YOUNG OBSERVED, NESTING OUTCOME NOT RECORDED.

PLSS:	T06N, R06E, Sec. 08 (M)	Accuracy:	specific area	Area (acres):	10
UTM:	Zone-10 N4249911 E644675	Latitude/Longitude:	38.38571 / -121.34350	Elevation (feet):	50

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88788	EO Index: 89803
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070
Occurrence Number: 2251	Occurrence Last Updated: 2013-05-14

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2003-07-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-07-02	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST SIDE OF WATERMAN RD, AT MOSHER RD INTERSECTION, SOUTHEAST ELK GROVE.

Detailed Location:
MAPPED TO COORDINATES GIVEN FOR CDFW NEST RECORD FROM 2003.

Ecological:
NEST IN 60' EUCALYPTUS SURROUNDED BY RESIDENTIAL LAND USE.

Threats:
SINCE 2003, DEVELOPMENT BEGUN IN 2002 HAS REDUCED NEARBY FORAGING HABITAT (1993-2012 AERIALS).

General:
ACTIVE NEST OBSERVED 13 MAY 2003; 2 FEATHERED YOUNG OBSERVED ON 2 JUL, FLEDGING SUCCESS UNKNOWN.

PLSS: T06N, R06E, Sec. 07 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4250545 E643820	Latitude/Longitude: 38.39157 / -121.35315	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 88790
Key Quad: Florin (3812144)
Occurrence Number: 2253

EO Index: 89805
Element Code: ABNKC19070
Occurrence Last Updated: 2013-04-15

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:

REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 1989-06-06
Last Survey Date: 1989-06-06
Owner/Manager: UNKNOWN, SAC COUNTY
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 ALONG LAGUNA CREEK, JUST EAST OF HWY 99 IN ELK GROVE.

Detailed Location:
 TERRITORY "SA" (NO # ASSIGNED) FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. MAPPED TO LOCALITY "HWY 99 AT LAGUNA CK."

Ecological:
 NEST IN 40' OREGON ASH, 50' EAST OF HIGHWAY BETWEEN SOUTH AND MIDDLE CHANNELS.

Threats:
 AERIAL PHOTOS SHOW DEVELOPMENT HAS REDUCED FORAGING HABITAT IN THE VICINITY; UNKNOWN IF NEST TREE STILL STANDS (2013).

General:
 NESTING PAIR OBSERVED ON 6 JUN 1989; NESTING SUCCESS UNKNOWN.

PLSS: T07N, R05E, Sec. 26 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4254808 E639862	Latitude/Longitude: 38.43059 / -121.39761	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 90756	EO Index: 91835	
Key Quad: Elk Grove (3812143)	Element Code: ABNKC19070	
Occurrence Number: 2664	Occurrence Last Updated: 2013-11-21	

Scientific Name: <i>Buteo swainsoni</i>	Common Name: Swainson's hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	USFWS_BCC-Birds of Conservation Concern
State: S3	

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2003-07-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-07-10	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.4 MILES WNW OF BOND ROAD AT BRADSHAW ROAD IN NORTHEAST ELK GROVE.

Detailed Location:
MAPPED TO PROVIDED COORDINATES FOR "BOND RD/BRADSHAW -ELK GROVE."

Ecological:
NEST TREE WAS A 70' EUCALYPTUS THAT WAS CUT DOWN BETWEEN SEPTEMBER AND NOVEMBER 2003 (PER AERIAL PHOTOS). THE ENTIRE LOT WAS SUBSEQUENTLY CLEARED AND DEVELOPED AS A SCHOOL GROUNDS. SURROUNDING LAND USE RESIDENTIAL.

Threats:
NEST TREE REMOVAL.

General:
ACTIVE NEST OBSERVED IN 2003, BUT WAS VACANT BY 10 JUL.

PLSS: T07N, R06E, Sec. 29 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4254303 E644706	Latitude/Longitude: 38.42527 / -121.34224	Elevation (feet): 55

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32459	EO Index: 66106
Key Quad: Carmichael (3812153)	Element Code: ABNKC19120
Occurrence Number: 31	Occurrence Last Updated: 2006-08-23

Scientific Name: <i>Buteo regalis</i>	Common Name: ferruginous hawk
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_WL-Watch List
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G4	USFWS_BCC-Birds of Conservation Concern
State: S3S4	

General Habitat: OPEN GRASSLANDS, SAGEBRUSH FLATS, DESERT SCRUB, LOW FOOTHILLS AND FRINGES OF PINYON AND JUNIPER HABITATS.	Micro Habitat: EATS MOSTLY LAGOMORPHS, GROUND SQUIRRELS, AND MICE. POPULATION TRENDS MAY FOLLOW LAGOMORPH POPULATION CYCLES.
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Last Date Observed: 1991-02-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-02-14	Occurrence Rank: Excellent
Owner/Manager: PVT-GRANITE CONSTRUCTION CO	Trend: Unknown
Presence: Presumed Extant	

Location:
SW OF MATHER AFB; BETWEEN KIEFER BLVD, BRADSHAW ROAD, JACKSON ROAD AND EXCELSIOR ROAD.

Detailed Location:

Ecological:
GRAZED ANNUAL NON-NATIVE GRASSLAND.

Threats:
POSSIBLE THREAT IS PROPOSED AGGREGATE MINING.

General:
WINTERING & FORAGING SITE. 6 INDIV OBS 17 DEC 1990. ~3 (1 AD, 1 JUV) OBS 2 JAN 1991. 1 INDIV OBS 8 JAN 1991. 1 JUV OBS 15 JAN 1991. >2 (1 AD, 1 JUV) INDIV OBS 22 JAN 1991. >2 (1 AD +UNKNOWN AGE) OBS 14 FEB 1991. LARGE PREY BASE FOR RAPTORS.

PLSS: T08N, R06E, Sec. 21 (M)	Accuracy: nonspecific area	Area (acres): 1,493
UTM: Zone-10 N4266114 E646979	Latitude/Longitude: 38.53130 / -121.31374	Elevation (feet): 70

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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- Sources:**
- VAN90F0011 VANBELDER, E. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR BUTEO REGALIS (WINTERING SITE) 1990-12-17
 - VAN91F0006 VANBELDER, E. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR BUTEO REGALIS (WINTERING SITE) 1991-01-02
 - VAN91F0007 VANBELDER, E. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR BUTEO REGALIS (WINTERING SITE) 1991-01-08
 - VAN91F0008 VANBELDER, E. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR BUTEO REGALIS (WINTERING SITE) 1991-01-15
 - VAN91F0009 VANBELDER, E. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR BUTEO REGALIS (WINTERING SITE) 1991-01-22
 - VAN91F0010 VANBELDER, E. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR BUTEO REGALIS (WINTERING SITE) 1991-02-14



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 71225
Key Quad: Florin (3812144)
Occurrence Number: 73

EO Index: 72130
Element Code: ABNKC19120
Occurrence Last Updated: 2008-04-30

Scientific Name: *Buteo regalis*

Common Name: ferruginous hawk

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G4
 State: S3S4

Rare Plant Rank:
Other Lists: CDFW_WL-Watch List
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN GRASSLANDS, SAGEBRUSH FLATS, DESERT SCRUB, LOW FOOTHILLS AND FRINGES OF PINYON AND JUNIPER HABITATS.

Micro Habitat:

EATS MOSTLY LAGOMORPHS, GROUND SQUIRRELS, AND MICE. POPULATION TRENDS MAY FOLLOW LAGOMORPH POPULATION CYCLES.

Last Date Observed: 2003-09-25
Last Survey Date: 2003-09-25
Owner/Manager: SRCSD-BUFFERLANDS
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:
 0.3 MILES EAST OF I-5, ALONG SERVICE ROAD FOR SACRAMENTO REGIONAL CO. SANITATION DISTRICT BUFFERLANDS, EAST OF FREEPORT.

Detailed Location:
 MAPPED ACCORDING TO STATED UTM COORDINATES. THIS AREA NOTED AS BEING A TRADITIONAL TRANSIENT/WINTERING SITE.

Ecological:
 HABITAT: 2,650 ACRE COUNTY PRESERVE MANAGED FOR WILDLIFE; EAST SIDE DOMINATED BY ANNUAL GRASSLANDS WITH VERNAL POOLS AND SEASONAL WETLANDS; WEST SIDE DOMINATED BY SEASONAL WETLANDS, RIPARIAN FORESTS AND GRASSLANDS.

Threats:
 AGRICULTURE LAND TO NORTH SLATED FOR CONSTRUCTION OF COSUMNES RIVER BLVD EXTENSION AND HOUSING.

General:
 1 ADULT, WINTERING ON 25 SEP 2003. SEEN ON LEVEE.

PLSS: T07N, R04E, Sec. 13 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4257639 E631861	Latitude/Longitude: 38.45732 / -121.48871	Elevation (feet): 15

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 CON03F0002 CONARD, C. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR BUTEO REGALIS 2003-09-25



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 71226
Key Quad: Florin (3812144)
Occurrence Number: 74

EO Index: 72132
Element Code: ABNKC19120
Occurrence Last Updated: 2008-04-30

Scientific Name: *Buteo regalis*

Common Name: ferruginous hawk

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G4
 State: S3S4

Rare Plant Rank:
Other Lists: CDFW_WL-Watch List
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN GRASSLANDS, SAGEBRUSH FLATS, DESERT SCRUB, LOW FOOTHILLS AND FRINGES OF PINYON AND JUNIPER HABITATS.

Micro Habitat:

EATS MOSTLY LAGOMORPHS, GROUND SQUIRRELS, AND MICE. POPULATION TRENDS MAY FOLLOW LAGOMORPH POPULATION CYCLES.

Last Date Observed: 2003-09-22
Last Survey Date: 2003-09-22
Owner/Manager: SRCS
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:

SAC CO WASTEWATER TREATMENT PLANT, 1.3 MILES NW OF INTERSECTION OF SIMS RD & FRANKLIN BLVD (CO HWY J8), ELK GROVE.

Detailed Location:

MAPPED ACCORDING TO STATED UTM COORDINATES.

Ecological:

WASTEWATER TREATMENT PLANT SURROUNDED BY 2650 ACRE PRESERVE MANAGED FOR WIDLIFE; EAST: ANNUAL GRASSLANDS WITH VERNAL POOLS & SEASONAL WETLANDS; WEST: SEASONAL WETLANDS, RIPARIAN FORESTS & GRASSLANDS.

Threats:

LOSS OF ADJACENT OPEN SPACE AND AGRICULTURE LAND.

General:

1 ADULT, WINTERING ON 22 SEP 2003. OBSERVED FLYING OVER SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT.

PLSS: T07N, R05E, Sec. 19 (M)

Accuracy: 1/10 mile

Area (acres): 0

UTM: Zone-10 N4256644 E633915

Latitude/Longitude: 38.44805 / -121.46538

Elevation (feet): 15

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

CON03F0001 CONARD, C. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR BUTEO REGALIS 2003-09-22



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32459	EO Index: 74753
Key Quad: Carmichael (3812153)	Element Code: ABNKC22010
Occurrence Number: 135	Occurrence Last Updated: 2009-03-18

Scientific Name: <i>Aquila chrysaetos</i>	Common Name: golden eagle
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G5	CDF_S-Sensitive
State: S3	CDFW_FP-Fully Protected
	CDFW_WL-Watch List
	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: ROLLING FOOTHILLS, MOUNTAIN AREAS, SAGE-JUNIPER FLATS, & DESERT.	Micro Habitat: CLIFF-WALLED CANYONS PROVIDE NESTING HABITAT IN MOST PARTS OF RANGE; ALSO, LARGE TREES IN OPEN AREAS.
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Last Date Observed: 1991-02-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-02-14	Occurrence Rank: Good
Owner/Manager: PVT-GRANITE CONSTRUCTION CO	Trend: Unknown
Presence: Presumed Extant	

Location:
SW OF MATHER AFB; BETWEEN KIEFER BLVD, BRADSHAW ROAD, JACKSON ROAD AND EXCELSIOR ROAD.

Detailed Location:
MAPPED VERY GENERALLY IN SECTIONS 21 AND 22; NEED MORE SPECIFIC LOCATION INFORMATION.

Ecological:
GRAZED ANNUAL NON-NATIVE GRASSLAND. LARGE PREY BASE FOR RAPTORS.

Threats:
PROPOSED AGGREGATE MINING.

General:
WINTERING & FORAGING SITE. 1ADULT OBS 17 DEC 1990. 1 JUVENILE OBS 8 JAN 1991. 1 ADULT OBS 14 FEB 1991.

PLSS: T08N, R06E, Sec. 21 (M)	Accuracy: nonspecific area	Area (acres): 1,493
UTM: Zone-10 N4266114 E646979	Latitude/Longitude: 38.53130 / -121.31374	Elevation (feet): 70

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

VAN90F0013	VANBELDER, E. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR AQUILA CHRYSAETOS (WINTERING SITE) 1990-12-17	
VAN91F0011	VANBELDER, E. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR AQUILA CHRYSAETOS (WINTERING SITE) 1991-01-08	
VAN91F0012	VANBELDER, E. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR AQUILA CHRYSAETOS (WINTERING SITE) 1991-02-14	



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 71836	EO Index: 72717
Key Quad: Florin (3812144)	Element Code: ABNKD06030
Occurrence Number: 13	Occurrence Last Updated: 2008-07-30

Scientific Name: <i>Falco columbarius</i>	Common Name: merlin
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_WL-Watch List
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	
State: S3S4	

General Habitat:	Micro Habitat:
SEACOAST, TIDAL ESTUARIES, OPEN WOODLANDS, SAVANNAHS, EDGES OF GRASSLANDS & DESERTS, FARMS & RANCHES.	CLUMPS OF TREES OR WINDBREAKS ARE REQUIRED FOR ROOSTING IN OPEN COUNTRY.

Last Date Observed: 2004-12-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-12-13	Occurrence Rank: Good
Owner/Manager: SRCSD-BUFFERLANDS	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST NORTHEAST OF MORRISON CREEK & EAST OF HWY 5, ABOUT 1 MILE ESE OF BENCH MARK 27 (FREEPORT), SACRAMENTO.

Detailed Location:
SACRAMENTO REGIONAL WASTEWATER TREATMENTO PLANT'S UPPER BEACH LAKE PRESERVE (STONE LAKES NWP). MAPPED TO PROVIDED COORDINATES.

Ecological:
SEASONAL WETLANDS W/ GRASSLANDS TO WEST & RIPARIAN FOREST ALONG LAGUNA CREEK TO THE EAST. WASTEWATER TREATMENT PONDS TO EAST OF OBSERVATION HARBOR HUNDREDS/THOUSANDS OF SHOREBIRDS; MERLINS SEEN HUNTING THERE IN THE PAST.

Threats:
General:
1 WINTERING ADULT OBSERVED 13 DEC 2004 (USUALLY ANYWHERE FROM 1-5 OBSERVATIONS EACH FALL TO EARLY SPRING).

PLSS: T07N, R04E, Sec. 13 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4257292 E632322	Latitude/Longitude: 38.45412 / -121.48350	Elevation (feet): 10

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
CON04F0020 CONARD, C. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR FALCO COLUMBARIUS 2004-12-13



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	71863	EO Index:	72736
Key Quad:	Florin (3812144)	Element Code:	ABNKD06030
Occurrence Number:	19	Occurrence Last Updated:	2008-07-31

Scientific Name:	<i>Falco columbarius</i>	Common Name:	merlin
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3S4	Other Lists:	CDFW_WL-Watch List IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
SEACOAST, TIDAL ESTUARIES, OPEN WOODLANDS, SAVANNAHS, EDGES OF GRASSLANDS & DESERTS, FARMS & RANCHES.	CLUMPS OF TREES OR WINDBREAKS ARE REQUIRED FOR ROOSTING IN OPEN COUNTRY.

Last Date Observed:	2004-01-12	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2004-01-12	Occurrence Rank:	Good
Owner/Manager:	SRCS-D-BUFFERLANDS	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT, 1.7 MILES ESE OF BENCH MARK 27 (FREEPORT), SACRAMENTO.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES. NORTHWEST PORTION OF SAC REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS.

Ecological:
 THE EAST SIDE OF THE BUFFERLANDS IS DOMINATED BY ANNUAL GRASSLANDS WITH VERNAL POOLS AND SEASONAL WETLANDS. THE WEST SIDE OF THE PROPERTY IS DOMINATED BY SEASONAL WETLANDS, RIPARIAN FOREST AND GRASSLANDS.

Threats:
General:
 1 OVER-WINTERING ADULT (F. C. COLUMBARIUS) OBSERVED ON FENCE ON 12 JAN 2004.

PLSS: T07N, R05E, Sec. 18 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4257200 E633418	Latitude/Longitude: 38.45313 / -121.47096	Elevation (feet):

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 CON04F0022 CONARD, C. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR FALCO COLUMBARIUS 2004-01-12



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	71866	EO Index:	72737
Key Quad:	Florin (3812144)	Element Code:	ABNKD06030
Occurrence Number:	20	Occurrence Last Updated:	2008-11-05

Scientific Name:	<i>Falco columbarius</i>	Common Name:	merlin
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G5 State: S3S4	Other Lists:	CDFW_WL-Watch List IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
SEACOAST, TIDAL ESTUARIES, OPEN WOODLANDS, SAVANNAHS, EDGES OF GRASSLANDS & DESERTS, FARMS & RANCHES.	CLUMPS OF TREES OR WINDBREAKS ARE REQUIRED FOR ROOSTING IN OPEN COUNTRY.

Last Date Observed:	2004-02-17	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2004-02-17	Occurrence Rank:	Good
Owner/Manager:	SRCS-D-BUFFERLANDS	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT, NEAR LAGUNA CRK, 2.8 MILES ESE OF BENCH MARK 27 (FREEPORT), SACRAMENTO.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES. AT "FISH HEAD LAKE" MITIGATION WETLAND, SAC REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS.

Ecological:
 THE EAST SIDE OF THE BUFFERLANDS IS DOMINATED BY ANNUAL GRASSLANDS WITH VERNAL POOLS AND SEASONAL WETLANDS. THE WEST SIDE OF THE PROPERTY IS DOMINATED BY SEASONAL WETLANDS, RIPARIAN FOREST AND GRASSLANDS.

Threats:
 THREATENED BY LOSS OF HABITAT ("LOSS OF OPEN SPACE IN SURROUNDING LANDS").

General:
 1 OVER-WINTERING ADULT OBSERVED ON 17 FEB 2004.

PLSS:	T07N, R05E, Sec. 20 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4256687 E634819	Latitude/Longitude:	38.44829 / -121.45501	Elevation (feet):	15

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 CON04F0021 CONARD, C. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR FALCO COLUMBARIUS 2004-02-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 71867	EO Index: 72738	
Key Quad: Florin (3812144)	Element Code: ABNKD06030	
Occurrence Number: 21	Occurrence Last Updated: 2008-08-01	

Scientific Name: <i>Falco columbarius</i>	Common Name: merlin
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_WL-Watch List
CNDDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	
State: S3S4	

General Habitat: SEACOAST, TIDAL ESTUARIES, OPEN WOODLANDS, SAVANNAHS, EDGES OF GRASSLANDS & DESERTS, FARMS & RANCHES.	Micro Habitat: CLUMPS OF TREES OR WINDBREAKS ARE REQUIRED FOR ROOSTING IN OPEN COUNTRY.
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Last Date Observed: 2004-03-20	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-03-20	Occurrence Rank: Good
Owner/Manager: SRCSD-BUFFERLANDS	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT, 3.2 MILES SE OF BENCH MARK 27 (FREEPORT), SACRAMENTO.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. SEEN AT EASTERN ENTRANCE ROAD (SIMS RD) TO SAC REGIONAL WASTEWATER TREATMENT PLANT.

Ecological:
THE EAST SIDE OF THE BUFFERLANDS IS DOMINATED BY ANNUAL GRASSLANDS WITH VERNAL POOLS AND SEASONAL WETLANDS. THE WEST SIDE OF THE PROPERTY IS DOMINATED BY SEASONAL WETLANDS, RIPARIAN FOREST AND GRASSLANDS.

Threats:
THREATENED BY LOSS OF HABITAT ("LOSS OF OPEN SPACE IN SURROUNDING LANDS").

General:
1 OVER-WINTERING MALE ADULT (F. C. SUCKLEYI) OBSERVED PERCHED ON SMALL OAK ON 20 MAR 2004.

PLSS: T07N, R05E, Sec. 20 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4255608 E635429	Latitude/Longitude: 38.43849 / -121.44823	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
CON04F0024 CONARD, C. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR FALCO COLUMBARIUS 2004-03-20



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	71868	EO Index:	72739
Key Quad:	Florin (3812144)	Element Code:	ABNKD06030
Occurrence Number:	22	Occurrence Last Updated:	2008-08-01

Scientific Name:	<i>Falco columbarius</i>	Common Name:	merlin
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G5 State: S3S4	Other Lists:	CDFW_WL-Watch List IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
SEACOAST, TIDAL ESTUARIES, OPEN WOODLANDS, SAVANNAHS, EDGES OF GRASSLANDS & DESERTS, FARMS & RANCHES.	CLUMPS OF TREES OR WINDBREAKS ARE REQUIRED FOR ROOSTING IN OPEN COUNTRY.

Last Date Observed:	2004-03-22	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2004-03-22	Occurrence Rank:	Good
Owner/Manager:	SRCS-D-BUFFERLANDS	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT, 2 MILES SE OF BENCH MARK 27 (FREEPORT), SACRAMENTO.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES. SEEN AT THE SOUTHWEST PORTION OF SAC REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS.

Ecological:
 THE EAST SIDE OF THE BUFFERLANDS IS DOMINATED BY ANNUAL GRASSLANDS WITH VERNAL POOLS AND SEASONAL WETLANDS. THE WEST SIDE OF THE PROPERTY IS DOMINATED BY SEASONAL WETLANDS, RIPARIAN FOREST AND GRASSLANDS.

Threats:
 THREATENED BY LOSS OF HABITAT ("LOSS OF OPEN SPACE IN SURROUNDING LANDS").

General:
 1 OVER-WINTERING FEMALE ADULT OBSERVED ON 22 MAR 2004.

PLSS:	T07N, R05E, Sec. 30 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4255049 E632696	Latitude/Longitude:	38.43386 / -121.47964	Elevation (feet):	10

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 CON04F0023 CONARD, C. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR FALCO COLUMBARIUS 2004-03-22



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11194

EO Index: 25585

Key Quad: Clarksburg (3812145)

Element Code: ABNRB02022

Occurrence Number: 95

Occurrence Last Updated: 1989-08-10

Scientific Name: *Coccyzus americanus occidentalis*

Common Name: western yellow-billed cuckoo

Listing Status: **Federal:** Threatened

Rare Plant Rank:

State: Endangered

Other Lists: BLM_S-Sensitive

CNDDDB Element Ranks: **Global:** G5T3Q

State: S1

NABCI_RWL-Red Watch List

USFS_S-Sensitive

USFWS_BCC-Birds of Conservation Concern

General Habitat:

RIPARIAN FOREST NESTER, ALONG THE BROAD, LOWER FLOOD-BOTTOMS OF LARGER RIVER SYSTEMS.

Micro Habitat:

NESTS IN RIPARIAN JUNGLES OF WILLOW, OFTEN MIXED WITH COTTONWOODS, W/ LOWER STORY OF BLACKBERRY, NETTLES, OR WILD GRAPE.

Last Date Observed: 1896-06-05

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1896-06-05

Occurrence Rank: None

Owner/Manager: PVT

Trend: Unknown

Presence: Extirpated

Location:

CLARKSBURG.

Detailed Location:

Ecological:

Threats:

General:

MVZ SPECIMEN FROM THIS LOCALITY INDICATES THAT CUCKOOS ONCE OCCURRED IN THE SACRAMENTO-SAN JOAQUIN DELTA.

PLSS: T07N, R04E, Sec. 34 (M)

Accuracy: 1 mile

Area (acres): 0

UTM: Zone-10 N4253208 E627993

Latitude/Longitude: 38.41796 / -121.53385

Elevation (feet): 5

County Summary:

Quad Summary:

Sacramento, Yolo

Clarksburg (3812145)

Sources:

GAI77R0001 GAINES, D. - CURRENT STATUS AND HABITAT REQUIREMENTS OF THE YELLOW-BILLED CUCKOO IN CALIFORNIA. ENDANGERED WILDLIFE PROJECT. E-1-1. CALIFORNIA DEPARTMENT OF FISH AND GAME. 1977-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 90034

EO Index: 96966

Key Quad: Sacramento East (3812154)

Element Code: ABNRB02022

Occurrence Number: 194

Occurrence Last Updated: 2015-04-03

Scientific Name: *Coccyzus americanus occidentalis*

Common Name: western yellow-billed cuckoo

Listing Status: **Federal:** Threatened

Rare Plant Rank:

State: Endangered

Other Lists: BLM_S-Sensitive

CNDDDB Element Ranks: **Global:** G5T3Q

State: S1

NABCI_RWL-Red Watch List
USFS_S-Sensitive
USFWS_BCC-Birds of Conservation Concern

General Habitat:

RIPARIAN FOREST NESTER, ALONG THE BROAD, LOWER FLOOD-BOTTOMS OF LARGER RIVER SYSTEMS.

Micro Habitat:

NESTS IN RIPARIAN JUNGLES OF WILLOW, OFTEN MIXED WITH COTTONWOODS, W/ LOWER STORY OF BLACKBERRY, NETTLES, OR WILD GRAPE.

Last Date Observed: 1877-07-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1877-07-XX

Occurrence Rank: None

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Extirpated

Location:

SACRAMENTO.

Detailed Location:

1877 EXPEDITION CONDUCTED IN "VICINITY OF SACRAMENTO CITY...WHERE VEGETATION WAS NOURISHED BY THE PRESENCE OF WATER." MAPPED GENERALLY CENTERED ON SACRAMENTO.

Ecological:

Threats:

DEVELOPMENT HAS ELIMINATED HABITAT IN THE AREA. THOUGHT TO HAVE BEEN EXTIRPATED IN SACRAMENTO AND YOLO COUNTIES.

General:

FOUND BREEDING IN VICINITY OF SACRAMENTO BETWEEN 6 JUN AND 4 JUL 1877.

PLSS: T08N, R04E, Sec. 01 (M)

Accuracy: 5 miles

Area (acres): 0

UTM: Zone-10 N4270865 E631254

Latitude/Longitude: 38.57656 / -121.49319

Elevation (feet): 20

County Summary:

Sacramento, Yolo

Quad Summary:

Sacramento East (3812154), Sacramento West (3812155), Rio Linda (3812164), Taylor Monument (3812165)

Sources:

RID77A0001 RIDGWAY, R. (SMITHSONIAN INSTITUTION) - REPORT OF THE GEOLOGICAL EXPLORATION OF THE FORTIETH PARALLEL, VOLUME IV: PART III, ORNITHOLOGY. PROFESSIONAL PAPERS OF THE ENGINEER DEPARTMENT, U.S. ARMY, NO. 18. 1877-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11437	EO Index: 25460	
Key Quad: Sacramento East (3812154)	Element Code: ABNSB10010	
Occurrence Number: 60	Occurrence Last Updated: 2011-02-17	

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 1974-02-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2000-10-19	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Decreasing
Presence: Extirpated	

Location:
IMMEDIATELY SW OF THE JUNCTION OF HOWE AVE & FAIR OAKS BLVD, SACRAMENTO.

Detailed Location:

Ecological:
THE SITE IS NOW COMPLETELY DEVELOPED WITH OFFICE BUILDINGS, LANDSCAPING AND MANICURED LAWNS. THERE IS NO REMAINING HABITAT FOR BURROWING OWLS.

Threats:
1974: THREATENED BY CONSTRUCTION AND MOTORCYCLISTS.

General:
SEVERAL COLONIES OBSERVED IN GROUND BURROWS IN VICINITY DURING 1974: 2 BURROWS DESTROYED & 1 BURROW ABANDONED DURING CONSTRUCTION OF PARKING LOT, 1 FEMALE DIED; 1 OWL KILLED BY MOTORCYCLIST; 1 BURROW FOUND AT THIS LOCATION.

PLSS: T08N, R05E, Sec. 03 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4270550 E638009	Latitude/Longitude: 38.57270 / -121.41573	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

MCG00F0001	MCGRIFF, D. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2000-10-19
VIN74R0001	VINCENTY, J.A. - A STUDY OF FACTORS AFFECTING NESTING RAPTOR POPULATIONS IN URBAN AREAS, SACRAMENTO COUNTY, CALIFORNIA. (WMB ADM RPT., NO.74-5) 1974-08-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11424	EO Index:	25459
Key Quad:	Sacramento East (3812154)	Element Code:	ABNSB10010
Occurrence Number:	61	Occurrence Last Updated:	2011-02-17

Scientific Name:	<i>Athene cunicularia</i>	Common Name:	burrowing owl
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G4 State: S3	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed:	1974-02-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1974-02-XX	Occurrence Rank:	Unknown
Owner/Manager:	CSU-SACRAMENTO, UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 SACRAMENTO STATE COLLEGE (NOW CSUS) & ADJACENT LEVEE AREAS ALONG THE AMERICAN RIVER, SACRAMENTO.

Detailed Location:
 LEVEE BURROWS WERE ON THE WEST SIDE OF THE LEVEE ON THE WEST BANK OF THE AMERICAN RIVER.

Ecological:
 OF THE 16 BURROWS OBSERVED IN THE AREA IN 1974, 2 BURROWS WERE DESTROYED & 1 BURROW ABANDONED DURING CONSTRUCTION OF PARKING LOT, 1 FEMALE DIED; 1 OWL KILLED BY MOTORCYCLISTS WHO DELIBERATELY DESTROYED A BURROW WITH THEIR WHEELS.

Threats:
 THREATENED BY CONSTRUCTION AND MOTORCYCLISTS.

General:
 NESTED ALONG THE LEVEE IN LATE 1960'S & EARLY 1970'S. 13 NESTING COLONIES OBSERVED IN GROUND BURROWS ON THE UNIVERSITY IN 1974.

PLSS:	T08N, R05E, Sec. 10 (M)	Accuracy:	nonspecific area	Area (acres):	343
UTM:	Zone-10 N4269084 E637326	Latitude/Longitude:	38.55960 / -121.42387	Elevation (feet):	20

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:

BOE83U0001	BOEKELHEIDE, B. - BURROWING OWL NEST SITE LOCATIONS 1983-XX-XX
VIN74R0001	VINCENTY, J.A. - A STUDY OF FACTORS AFFECTING NESTING RAPTOR POPULATIONS IN URBAN AREAS, SACRAMENTO COUNTY, CALIFORNIA. (WMB ADM RPT., NO.74-5) 1974-08-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11296	EO Index: 19498
Key Quad: Rio Linda (3812164)	Element Code: ABNSB10010
Occurrence Number: 62	Occurrence Last Updated: 2012-06-11

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2012-05-30	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2012-05-30	Occurrence Rank: Fair
Owner/Manager: PVT, RECLAMATION DISTRICT 1000	Trend: Stable
Presence: Presumed Extant	

Location:
ELKHORN BLVD JUST W OF E LEVEE RD, & ABOUT 0.1 MI N TO 0.2 MI S OF ELKHORN BLVD FROM 0.3-0.6 MI E OF E LEVEE RD.

Detailed Location:
W FEATURE: EXTENSIVE BURROW NETWORK, WITH AT LEAST 2 TO 3 FAMILY GROUPS OBSERVED SOUTH OF ELKHORN BLVD. NORTH OF ELKHORN BLVD, THE BURROWS ARE FOUND ON THE BANKS OF AN IRRIGATION DITCH. BU= BURROW.

Ecological:
HABITAT CONSISTS OF ARID ANNUAL GRASSLAND ON A 2-12' SLOPE (BLUFF); RESIDENTIAL DEVELOPMENT FOUND ALONG THE WEST SIDE OF THIS SITE. ALSO DESCRIBED AS "PASTURE/GRASSLAND/GRAVEL LOT."

Threats:
DEVELOPMENT, AND SRCSD 2007 UPPER NW INTERCEPTOR PROJECT DURING BREEDING SEASON; BURROWS CLOSED IN 2007 FOR PROJECT.

General:
E: 1 PAIR, 2006. W: 2 AT BU 1988; 2 AT 1 BU IN MAR & 14+ AT 2+ BU IN JUL 1993; 0 OBS 2003; 9 OWLS & MANY BU IN 2005; 3 PAIRS/BU IN 2006; 1 OWL AT BU (CLOSED) & 1 BU W/ SIGN IN 2007. 1 AD AT ARTIFICIAL BU 2009. 16 OWLS (6 PAIR, 6 JUV) 2012.

PLSS: T10N, R04E, Sec. 36 (M)	Accuracy: specific area	Area (acres): 36
UTM: Zone-10 N4282824 E631196	Latitude/Longitude: 38.68430 / -121.49160	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

CON07F0008	CONARD, C. (SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (WINTER BURROW SITE) 2007-01-09
CON07F0010	CONARD, C. (SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (WINTER BURROW SITE) 2007-01-25
CON07U0001	CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2004, 2006, AND 2007. 2007-XX-XX
CON12U0001	CONARD, C. - EMAIL TO CENTRAL VALLEY BIRD CLUB REGARDING NESTING BURROWING OWLS NEAR ELKHORN BLVD, SACRAMENTO, AND ARRIVAL OF CALIF. LEAST TERN NEAR ELK GROVE. 2012-05-30
JON09F0009	JONES, R. (SACRAMENTO AREA SEWER DISTRICT) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2009-12-10
LAZ05U0001	LAZIER, C. (SACRAMENTO AUDUBON) - MEMO DESCRIBING THE LOCATION OF ATHENE CUNICULARIA (BURROW SITE). 2005-06-03
VEN88F0002	VENNARD, M. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 1988-10-01
WAR03F0006	WARENYCIA, D. & L. HOLMES (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2003-05-05
WAR93F0001	WARENYCIA, D. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 1993-07-18
WIL09D0003	WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29
YOR93F0001	YORK, R. (CALIFORNIA ENERGY COMMISSION) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 1993-03-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 17159	EO Index: 12231
Key Quad: Carmichael (3812153)	Element Code: ABNSB10010
Occurrence Number: 92	Occurrence Last Updated: 1990-11-19

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 1989-07-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1989-07-15	Occurrence Rank: Fair
Owner/Manager: DOD-MATHER AFB	Trend: Stable
Presence: Presumed Extant	

Location:
ADJACENT TO WEST GATE, MATHER AFB, RANCHO CORDOVA.

Detailed Location:
1 ADULT WITH FOUR YOUNG OBSERVED AT MID-DAY IN A VACANT LOT.

Ecological:
HABITAT IS CLOSE-CROPPED, UNWATERED TURF.

Threats:
NO OBVIOUS THREATS, UNLESS USE OF LOT AREA CHANGES.

General:

PLSS: T08N, R06E, Sec. 03 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4270273 E647543	Latitude/Longitude: 38.56867 / -121.30639	Elevation (feet): 80

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
JOH89F0004 JOHNSON, D.L. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 1989-07-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 17160	EO Index: 12236
Key Quad: Carmichael (3812153)	Element Code: ABNSB10010
Occurrence Number: 93	Occurrence Last Updated: 1991-04-04

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 1989-04-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1989-04-28	Occurrence Rank: Good
Owner/Manager: DOD-MATHER AFB	Trend: Stable
Presence: Presumed Extant	

Location:
BLDG 7001, MATHER AFB, RANCHO CORDOVA.

Detailed Location:
BURROW IS LOCATED INSIDE A TRANSFORMER FENCE, UNDER A CONCRETE SLAB, ON THE NE SIDE.

Ecological:

Threats:
FENCE OFFERS PROTECTION TO THE BURROW SITE; ANY CHANGE IN LAND USE WOULD DISTURB THE BURROW.

General:
ONLY ONE ADULT OBSERVED.

PLSS: T08N, R06E, Sec. 10 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4269261 E646800	Latitude/Longitude: 38.55968 / -121.31513	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
HAR89F0001 HARRIS, S. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 1989-04-28



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	17161	EO Index:	12057
Key Quad:	Carmichael (3812153)	Element Code:	ABNSB10010
Occurrence Number:	94	Occurrence Last Updated:	1990-11-19

Scientific Name:	<i>Athene cunicularia</i>	Common Name:	burrowing owl
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G4 State: S3	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed:	1989-04-28	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1989-04-28	Occurrence Rank:	Fair
Owner/Manager:	DOD-MATHER AFB	Trend:	Stable
Presence:	Presumed Extant		

Location:
 FLIGHT-LINE SIDE OF BLDG 7014, MATHER AFB, RANCHO CORDOVA.

Detailed Location:
 BURROW LOCATED AT 940TH CURB, ON FIRST STREET, BETWEEN TELEPHONE POLES #7108 AND 7109, IN AN OPEN FIELD BETWEEN FIRST STREET AND THE FLIGHT LINE.

Ecological:
Threats:
 CONSTRUCTION GOING ON NEARBY; NEW DEVELOPMENT COULD DISPLACE THE OWL.

General:
 ONLY ONE ADULT OBSERVED AT BURROW.

PLSS: T08N, R06E, Sec. 10 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4269481 E647259	Latitude/Longitude: 38.56159 / -121.30982	Elevation (feet): 80

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
 HAR89F0002 HARRIS, S. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 1989-04-28



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 17162	EO Index: 12226
Key Quad: Carmichael (3812153)	Element Code: ABNSB10010
Occurrence Number: 95	Occurrence Last Updated: 1991-04-04

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	CDFW_SSC-Species of Special Concern
Global: G4	IUCN_LC-Least Concern
State: S3	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 1989-04-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1989-04-28	Occurrence Rank: Fair
Owner/Manager: DOD-MATHER AFB	Trend: Stable
Presence: Presumed Extant	

Location:
BLDG 7014, ON NEELY WAY, MATHER AFB, RANCHO CORDOVA.

Detailed Location:
BURROW IS LOCATED SOUTH OF TELEPHONE POLE #7028, NEAR A PINE TREE AND ACROSS FROM A STORM DRAIN, NEAR THE STREET IN AN INDUSTRIAL AREA.

Ecological:
Threats:
POSSIBLE THREATS FROM SURROUNDING INDUSTRIAL AREA ACTIVITIES.

General:
2 ADULTS OBSERVED; A FAMILY OF BURROWING OWLS HAS BEEN OBSERVED HERE IN THE PAST.

PLSS: T08N, R06E, Sec. 10 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4269425 E647139	Latitude/Longitude: 38.56110 / -121.31120	Elevation (feet): 80

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
HAR89F0003 HARRIS, S. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 1989-04-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 17163	EO Index: 12239
Key Quad: Carmichael (3812153)	Element Code: ABNSB10010
Occurrence Number: 96	Occurrence Last Updated: 1991-04-04

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 1989-04-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1989-04-28	Occurrence Rank: Fair
Owner/Manager: DOD-MATHER AFB	Trend: Stable
Presence: Presumed Extant	

Location:
BX PARKING LOT, AT "B" AVE AND FRANCIS ST, MATHER AFB, RANCHO CORDOVA.

Detailed Location:
OWLS UTILIZE THE CEMENT STORM DRAIN AT THE NORTH END OF THE BX PARKING LOT AS A BURROW.

Ecological:

Threats:
MAIN THREAT AT THIS LOCATION IS DISTURBANCE FROM TOO MUCH TRAFFIC; OWLS USUALLY MIGRATE TO OTHER AREAS LATER IN SPRING.

General:
THERE IS ADJACENT OPEN SPACE WHICH PROVIDES FOOD AT THIS TIME.

PLSS: T08N, R06E, Sec. 02 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4270298 E648463	Latitude/Longitude: 38.56874 / -121.29583	Elevation (feet): 90

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
HAR89F0005 HARRIS, S. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 1989-04-28



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	17367	EO Index:	9705
Key Quad:	Taylor Monument (3812165)	Element Code:	ABNSB10010
Occurrence Number:	122	Occurrence Last Updated:	2003-08-21

Scientific Name:	<i>Athene cucularia</i>	Common Name:	burrowing owl
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G4 State: S3	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat:	SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed:	1991-01-18	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2003-05-05	Occurrence Rank:	None
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
0.9 MI NE OF THE INTERSECTION OF SAN JUAN ROAD AND EL CENTRO ROAD, APPROXIMATELY 4 MI SE OF SACRAMENTO METRO AIRPORT.

Detailed Location:
JAN 1991: OWLS LOCATED ALONG DRAINAGE DITCH.

Ecological:
OWLS ARE USING GROUND SQUIRREL BURROWS SURROUNDED BY NON-NATIVE GRASSLAND TO THE EAST AND (IN 1991) FALLOW AGRICULTURAL FIELDS TO THE WEST.

Threats:
FALLOW FIELDS TO THE WEST HAVE BEEN DEVELOPED (RESIDENTIAL DEVELOPMENT).

General:
18 JAN 1991: A MINIMUM OF 8 ADULT OWLS OBSERVED OCCUPYING BURROW SITES; OTHER BURROWS WERE PRESENT THAT ALSO APPEARED ACTIVE. OWLS NOT OBSERVED ON 5 MAY 2003.

PLSS:	T09N, R04E, Sec. 15 (M)	Accuracy:	1/5 mile	Area (acres):	0
UTM:	Zone-10 N4277578 E628033	Latitude/Longitude:	38.63751 / -121.52893	Elevation (feet):	20

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

Sources:

TOW91F0001	TOWERS, S. - FIELD SURVEY FORM FOR ATHENE CUCULARIA BURROW SITE 1991-01-18
WAR03F0004	WARENYCIA, D. & L. HOLMES (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR ATHENE CUCULARIA (BURROW SITE) 2003-05-05



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 20688	EO Index: 9327
Key Quad: Sacramento East (3812154)	Element Code: ABNSB10010
Occurrence Number: 127	Occurrence Last Updated: 2010-02-16

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2006-06-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-06-18	Occurrence Rank: Good
Owner/Manager: PVT, DOD-SACRAMENTO ARMY DEPOT	Trend: Unknown
Presence: Presumed Extant	

Location:
S PERIPHERY OF SAC ARMY DEPOT FROM SANTA CRUZ ST (W) TO GALENA AVE (E), NEAR MIDWAY AVE BTWN KWAJALEIN ST & GALENA AVE.

Detailed Location:
MOST BURROWS ARE LOCATED ALONG BERMS EDGING THE PERIPHERY OF THE ARMY DEPOT.

Ecological:
1990 & 2003: ARTIFICIAL BERMS AND LEVEES PLANTED IN INTRODUCED GRASSLAND. 2006: IDLE OR FALLOW FIELD.

Threats:
THREATENED BY POTENTIAL CLOSURE OF ARMY DEPOT AND CONVERSION TO DEVELOPMENT.

General:
BURROW OBS IN NE & NW FEATURES IN 1990. OWLS OBS AT 11 BURROW SITES (THROUGHOUT OCC) IN APRIL & JUN 2003; YOUNG PRODUCED AT AT LEAST 5 OF THOSE SITES. 1 ADULT OBS IN SE FEATURE ON 18 JUN 2006.

PLSS: T08N, R05E, Sec. 26 (M)	Accuracy: specific area	Area (acres): 56
UTM: Zone-10 N4264219 E639821	Latitude/Longitude: 38.51539 / -121.39621	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

KOF90F0001	KOFORD, E.J. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 1990-XX-XX
USA03R0001	U.S. ARMY RESERVE ENVIRONMENTAL DIVISION - BURROWING OWL HABITAT ASSESSMENT, BURROW SURVEY AND CENSUS - B.T. COLLINS USAR CENTER AND AMSA 98(G), SACRAMENTO, CA. 2003-07-25
WIL09D0003	WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	20687	EO Index:	9481
Key Quad:	Florin (3812144)	Element Code:	ABNSB10010
Occurrence Number:	128	Occurrence Last Updated:	2002-08-26

Scientific Name:	<i>Athene cunicularia</i>	Common Name:	burrowing owl
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G4 State: S3	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed:	1994-09-13	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1994-09-13	Occurrence Rank:	Fair
Owner/Manager:	SRCS	Trend:	Unknown
Presence:	Presumed Extant		

Location:
EAST SIDE OF SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT, BETWEEN HWY 99 AND I-5, 5 MI NORTH OF FRANKLIN.

Detailed Location:
BURROWS A, B, C, D, & L ARE LOCATED WEST OF THE UNION PACIFIC RAILROAD TRACKS. BURROWS (ARTIFICIAL, INACTIVE) G, H, I, J & K ARE LOCATED EAST OF RAILROAD TRACKS. BURROW F (INACTIVE) & E (ELIMINATED) ARE 1200 FT & 1600 FT WSW OF BURROW B.

Ecological:
HABITAT ADJACENT TO BURROW SITE IS GRASSLAND. SURROUNDING AREA TO WEST CONSISTS OF A WASTEWATER TREATMENT PLANT.

Threats:
THREAT INCLUDES EXCAVATION OF SOME BURROWS.

General:
NESTING OCCURRED AT BURROW B (1 PAIR & 7 JUV, JUL & AUG 1992) & BURROW L (1991). 1 INDIVIDUAL OBS 30 JUNE TO 13 SEPT 1994 AT BURROW B. BURROW L ELIMINATED MARCH 1994; BURROW C ELIMINATED MARCH 1993. BURROWS A & D USED INTERMITTENTLY.

PLSS:	T07N, R05E, Sec. 20 (M)	Accuracy:	specific area	Area (acres):	20
UTM:	Zone-10 N4256685 E634393	Latitude/Longitude:	38.44835 / -121.45989	Elevation (feet):	15

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

CRO94R0001	CROWE, D. (FOSTER WHEELER ENVIRONMENTAL) - 1994 BURROWING OWL MONITORING REPORT FOR THE CARSON ICE-GEN PROJECT, ELK GROVE, CALIFORNIA 1994-10-XX
KOF92F0001	KOFORD, E.J. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 1992-02-19



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 20689	EO Index: 13167
Key Quad: Rio Linda (3812164)	Element Code: ABNSB10010
Occurrence Number: 129	Occurrence Last Updated: 2003-08-21

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 1993-02-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-05-05	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST WNW OF 6TH AND "U" STREETS, RIO LINDA.

Detailed Location:
THREE SETS OF BURROWS AT THIS SITE; ONE SET LOCATED ADJACENT TO WPRR TRACKS, ONE ADJACENT TO SOME VERNAL POOLS, AND ONE ADJACENT TO 6TH AND "U" STREETS.

Ecological:
HABITAT IS OPEN GRASSLAND WITH CUT SOIL BANKS.

Threats:
POSSIBLE THREAT FROM A PROPOSED ENERGY FACILITY.

General:
ONE ADULT OBSERVED ROOSTING IN A DEBRIS PILE NEAR A BURROW SITE IN 1992; TWO ADULTS OBSERVED AT A BURROW ADJACENT TO VERNAL POOLS IN 1993. OWLS NOT OBSERVED IN GENERAL AREA ON 5 MAY 2003 - DATE OF SITE VISIT LIKELY TO EARLY.

PLSS: T10N, R05E, Sec. 19 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4285192 E632083	Latitude/Longitude: 38.70551 / -121.48096	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

KOF92F0002	KOFORD, E.J. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 1992-02-27
WAR03F0005	WARENYCIA, D. & L. HOLMES (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2003-05-05
YOR93F0002	YORK, R. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 1993-02-04



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 25473	EO Index: 6907
Key Quad: Florin (3812144)	Element Code: ABNSB10010
Occurrence Number: 210	Occurrence Last Updated: 2010-02-17

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2009-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-XX-XX	Occurrence Rank: Good
Owner/Manager: COSUMNES RIVER COLLEGE	Trend: Unknown
Presence: Presumed Extant	

Location:
BETWEEN CENTER PKY & BRUCEVILLE RD JUST S OF COSUMNES RIVER BLVD, COSUMNES RIVER COLLEGE, SACRAMENTO.

Detailed Location:
MAPPED TO LOCATIONS MARKED ON PROVIDED MAP (GUS) & TO PROVIDED COORDINATES (WIL, CON). 2002 PERCH LOCATION NOT MAPPED. MOST OF THE BURROWS ARE LOCATED ON THE BERMS SURROUNDING THE TRACK AND FOOTBALL FIELD.

Ecological:
HABITAT SURROUNDING THE BURROWS CONSISTS OF INTRODUCED, ANNUAL GRASSLAND. DEVELOPMENT OF KAISER SOUTH & ADJ FIELDS LIKELY LEAD TO DECLINE/EXTIRPATION OF NEARBY UNION HOUSE CREEK (AKA BEACON CREEK) POPULATION.

Threats:
POSSIBLE DISTURBANCE/THREAT FROM JOGGER'S PETS. DEVELOPMENT.

General:
1994: 12 BURROWS WITH 18+ ADULTS (6-12 PAIRS) OBS IN E FEATURE. 2002: 2 ADULTS PERCHED ~0.2 MI E OF E FEATURE. 2004: 1 OWL OBS AT E FEATURE. 2007: 2 PAIRS WITH 4 JUVENILES EACH OBS AT E FEATURE & 1 PAIR AT W FEATURE. PRESENT THROUGH 2009.

PLSS: T07N, R05E, Sec. 15 (M)	Accuracy: specific area	Area (acres): 32
UTM: Zone-10 N4257588 E637811	Latitude/Longitude: 38.45596 / -121.42056	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

CON07U0001	CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2004, 2006, AND 2007. 2007-XX-XX
CON10U0001	CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2007 - 2010. 2010-XX-XX
FUL02F0001	FULLEN, K. (U.S. DEPARTMENT OF AGRICULTURE) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2002-03-25
GUS94F0001	GUSE, K. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 1994-03-11
WIL09D0003	WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33164
Key Quad: Florin (3812144)
Occurrence Number: 229

EO Index: 20284
Element Code: ABNSB10010
Occurrence Last Updated: 2010-02-09

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G4
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:
 OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:
 SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2007-07-06
Last Survey Date: 2007-07-06
Owner/Manager: SAC COUNTY
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Fair
Trend: Unknown

Location:
 VICINITY OF MORRISON, ELDER & FLORIN CRKS, W OF FRANKLIN BLVD, S OF WEYMOUTH LN & N OF DEER CROSS WAY, SOUTH SACRAMENTO.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES (LOW, CON, WIL, JON) & TO LOCATIONS MARKED ON PROVIDED MAPS (NOS, BAR). EAST FEATURE = S1, CENTER FEATURE = S2, NW FEATURE = S3, SW FEATURES = S4. S4 IS ALSO KNOWN AS "COMMUNITY GARDENS."

Ecological:
 CHANNELIZED STREAM LEVEES WITH ANNUAL GRASSES OR NO VEG. SURROUNDED BY FIELDS & RESIDENTIAL DEVELOPEMENT. SITE QUALITY MARKED AS FAIR TO POOR. 2007: LEVEE CONSTRUCTION FROM RR TO FRANKLIN BLVD PLANNED IN SUMMER, CAUSING BURROW CLOSURES.

Threats:
 THREATENED BY LEVEE "IMPROVEMENTS" (OWL DISPLACEMENT), DEVELOPMENT, FERAL DOGS, AND PEOPLE WALKING ON LEVEES.

General:
 1995: 3 BURROWS AT S1. 2001: 3 OWLS AT 2 BURROWS IN S1. 2002: 15 AT 19 BURROWS IN S3&4. 2005: 17 AT 3 BURROWS IN S1 & 5 AT 1 BURROW IN S2. 2006: 15 AT 11 BURROWS IN S1. 2007: 1 AT 1 BURROW IN S3 & 15 AT 8 BURROWS IN S1. YOUNG IN 2001 & '07.

PLSS: T07N, R05E, Sec. 08 (M) **Accuracy:** specific area **Area (acres):** 95
UTM: Zone-10 N4259918 E634302 **Latitude/Longitude:** 38.47748 / -121.46032 **Elevation (feet):** 15

County Summary: Sacramento
Quad Summary: Florin (3812144)

Sources:

BAR05F0007	BARCLAY, J. (ALBION ENVIRONMENTAL, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2005-10-03
CON06F0001	CONARD, C. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2006-01-19
CON06F0002	CONARD, C. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2006-01-19
CON07U0001	CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2004, 2006, AND 2007. 2007-XX-XX
CON10U0001	CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2007 - 2010. 2010-XX-XX
JON02F0011	JONES, R. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2002-02-01
LOW01F0001	LOWE, J. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2001-09-20
LOW01F0002	LOWE, J. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2001-09-20
NOS95F0001	NOSAL, T. & J. NOSAL - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 1995-05-16
WIL09D0003	WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 46042	EO Index: 46042
Key Quad: Taylor Monument (3812165)	Element Code: ABNSB10010
Occurrence Number: 414	Occurrence Last Updated: 2003-08-21

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2001-06-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-05-05	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
APPROXIMATELY 4 MILES WEST OF RIO LINDA.

Detailed Location:
0.70 MILES NORTH OF ELKHORN BLVD AND 75 FT WEST OF SR 99.

Ecological:
SURROUNDING LAND COMPRISED OF RICE CROPS. BURROWS ADJACENT TO CEMENT DRAINAGE CANAL.

Threats:

General:
2 ADULTS AND 2 JUVENILES OBSERVED. THREE BURROWS WITH WHITEWASH, PELLET CASTINGS AND PREY REMAINS OBSERVED. NO OWLS WERE OBSERVED ON 5 MAY 2003 - DATE OF SITE VISIT LIKELY TO EARLY.

PLSS: T10N, R04E, Sec. 28 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4284037 E626925	Latitude/Longitude: 38.69586 / -121.54047	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

BEL01F0002	BELT, L. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2001-06-22
WAR03F0003	WARENYCIA, D. & L. HOLMES (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2003-05-05



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 48312	EO Index: 48312
Key Quad: Sacramento East (3812154)	Element Code: ABNSB10010
Occurrence Number: 467	Occurrence Last Updated: 2010-02-11

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2002-06-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-XX-XX	Occurrence Rank: None
Owner/Manager: SAC COUNTY, CITY OF SACRAMENTO	Trend: Unknown
Presence: Possibly Extirpated	

Location:
NORTHWEST CORNER OF SACRAMENTO EXECUTIVE AIRPORT, JUST EAST OF SR 160 (AKA FREEPORT BLVD), SACRAMENTO.

Detailed Location:
MAPPED TO 2002 PROVIDED COORDINATES; 60 FT NORTH OF CD&G HANGER.

Ecological:
HABITAT CONSISTS OF FIELD WITH AVENA FATUA, LOLIUM MULTIFLORUM AND YELLOW STAR THISTLE. FREQUENTLY MOWED FIELD. SUBSTRATE: SAN JOAQUIN SILT LOAM. 0% SLOPE. SURROUNDING LAND CONSISTS OF AN AIRPORT.

Threats:
PROPOSED FOR DEVELOPMENT IN 2002. SIDEWALK PROJECT LEAD TO BURROW CLOSURES, AND OWLS HAD NOT RETURNED AS OF 2007.

General:
5 BREEDING ADULTS OBS ON 28 JUN 2002. 4 OWLS OBS FROM HERE TO S END OF SW-NE RUNWAY ON 26 OCT 2004. NONE DETECTED SINCE 2006 DESPITE HIGH SEARCH EFFORT, AS OF 2007 REPORT; BURROWS CLOSED DURING SIDEWALK PROJECT & HAVEN'T RETURNED.

PLSS: T08N, R04E, Sec. 25 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4264493 E630903	Latitude/Longitude: 38.51921 / -121.49841	Elevation (feet): 15

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:

CON07U0001	CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2004, 2006, AND 2007. 2007-XX-XX
STA02F0005	STACKHOUSE, E.L. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2002-06-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32459	EO Index: 48663
Key Quad: Carmichael (3812153)	Element Code: ABNSB10010
Occurrence Number: 487	Occurrence Last Updated: 2002-08-23

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 1991-02-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-02-13	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SW OF FORMER MATHER AFB; BETWEEN KIEFER BLVD, BRADSHAW ROAD, JACKSON ROAD, AND EXCELSIOR ROAD.

Detailed Location:
SECTIONS 21 AND 22.

Ecological:
HABITAT CONSISTS OF GRAZED ANNUAL GRASSLAND.

Threats:
THREAT CONSISTS OF PROPOSED AGGREGATE MINING.

General:
1 INDIVIDUAL OBSERVED ON 8 JAN 1991. 2 INDIVIDUALS OBSERVED ON 28 JAN 1991. 1 INDIVIDUAL OBSERVED ON 13 FEB. 16 ACTIVE BURROWS OBSERVED ON ALL THREE DATES.

PLSS: T08N, R06E, Sec. 21 (M)	Accuracy: nonspecific area	Area (acres): 1,493
UTM: Zone-10 N4266114 E646979	Latitude/Longitude: 38.53130 / -121.31374	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

VAN91F0003	VANBELCHER, E. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 1991-01-08
VAN91F0004	VANBELCHER, E. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 1991-01-28
VAN91F0005	VANBELCHER, E. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 1991-02-13



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 48664

EO Index: 48664

Key Quad: Sacramento East (3812154)

Element Code: ABNSB10010

Occurrence Number: 488

Occurrence Last Updated: 2011-02-17

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: BLM_S-Sensitive

CNDDDB Element Ranks: **Global:** G4

CDFW_SSC-Species of Special Concern

State: S3

IUCN_LC-Least Concern

USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 1974-02-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1974-02-XX

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

VICINITY OF ELVAS & 51ST STREET, SACRAMENTO.

Detailed Location:

CAS RECORD LOCALITY STATED AS "VICINITY OF SACRAMENTO."

Ecological:

OF THE 16 BURROWS OBSERVED IN THE AREA IN 1974, 2 BURROWS WERE DESTROYED & 1 BURROW ABANDONED DURING CONSTRUCTION OF PARKING LOT, 1 FEMALE DIED; 1 OWL KILLED BY MOTORCYCLISTS WHO DELIBERATELY DESTROYED A BURROW WITH THEIR WHEELS.

Threats:

THREATENED BY CONSTRUCTION AND MOTORCYCLISTS.

General:

CAS EGG SPECIMEN #210380 COLLECTED BY F. G. COOMES ON 27 APR 1907. 2 BURROWS OBSERVED IN AREA DURING 1974 NEST SURVEY.

PLSS: T08N, R05E, Sec. 04 (M)

Accuracy: nonspecific area

Area (acres): 26

UTM: Zone-10 N4271035 E636302

Latitude/Longitude: 38.57733 / -121.43523

Elevation (feet): 25

County Summary:

Quad Summary:

Sacramento

Sacramento East (3812154)

Sources:

CAS20S0001 CALIFORNIA ACADEMY OF SCIENCES - 16 EGG SPECIMEN RECORDS FOR ATHENE CUNICULARIA FROM THE CALIFORNIA ACADEMY OF SCIENCES FROM 22 JUN 1880 - 8 MAY 1920. 1920-05-08

VIN74R0001 VINCENTY, J.A. - A STUDY OF FACTORS AFFECTING NESTING RAPTOR POPULATIONS IN URBAN AREAS, SACRAMENTO COUNTY, CALIFORNIA. (WMB ADM RPT., NO.74-5) 1974-08-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	49112	EO Index:	49112
Key Quad:	Sacramento West (3812155)	Element Code:	ABNSB10010
Occurrence Number:	525	Occurrence Last Updated:	2002-10-23

Scientific Name:	<i>Athene cunicularia</i>	Common Name:	burrowing owl
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G4 State: S3	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed:	1997-03-06	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1997-03-06	Occurrence Rank:	None
Owner/Manager:	RECLAMATION DISTRICT 900	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
 ADJACENT TO THE DEEP WATER SHIP CHANNEL, 0.9 MILE SE OF GREENS LAKE, EAST SIDE OF YOLO BYPASS.

Detailed Location:
 BURROW WAS LOCATED 170' FEET SOUTH OF A LONE POWER POLE CONTAINING A "POSTED NO TRESPASSING" SIGN.

Ecological:
 HABITAT CONSISTS OF A SMALL BENCH ON THE LAND (EAST) SIDE OF SLOPE OF THE LEVEE; LEVEE SLOPE WAS VEGETATED BY ANNUAL GRASSES AND WEEDS AND ALSO SUPPORTED GROUND SQUIRRELS.

Threats:
 THREATENED BY ROAD/LEVEE MAINTENANCE ACTIVITIES.

General:
 BURROWING OWL OBSERVED AT ITS BURROW ON 4 AND 6 MAR 1997; OWL WAS NOT OBSERVED ON A 12 MAR 1997 REVISIT, AND GRADING ACTIVITIES MAY HAVE CAUSED ABANDONMENT.

PLSS:	T08N, R04E, Sec. 07 (M)	Accuracy:	1/10 mile	Area (acres):	0
UTM:	Zone-10 N4267995 E623423	Latitude/Longitude:	38.55183 / -121.58357	Elevation (feet):	10

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
 BAX97U0001 BAXTER, R. (U.S. ARMY CORPS OF ENGINEERS) - MEMO TO DFG DESCRIBING A BURROWING OWL (PLUS BURROW) OBSERVATION ON RECLAMATION DISTRICT 900, LEVEE UNIT 2 PROPERTY. 1997-03-19



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 49290
Key Quad: Florin (3812144)
Occurrence Number: 551

EO Index: 49290
Element Code: ABNSB10010
Occurrence Last Updated: 2002-11-06

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

Listing Status:
Federal: None
State: None
CNDDDB Element Ranks:
Global: G4
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2002-06-10
Last Survey Date: 2002-06-10
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Fair
Trend: Unknown

Location:

NORTH OF COSUMNES RIVER COLLEGE BOULEVARD, EAST OF POWER INN ROAD AND EAST OF HIGHWAY 99, SOUTH SACRAMENTO.

Detailed Location:

A WELL-KNOWN COLONY OF BUOW EXISTS ABOUT A MILE FROM THIS SITE, AT COSUMNES RIVER COLLEGE.

Ecological:

HABITAT CONSISTS OF A VACANT LOT (~10 ACRES IN SIZE), DOMINATED BY EXOTIC ANNUAL PLANT SPECIES; SURROUNDED BY AN AREA OF RAPIDLY DEVELOPING COMMERCIAL AND APARTMENTS.

Threats:

THREATENED BY DEVELOPMENT.

General:

4 ADULTS OBSERVED AT THIS ACTIVE BURROW SITE ON 10 JUN 2002.

PLSS: T07N, R05E, Sec. 14 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4257756 E639071

Latitude/Longitude: 38.45728 / -121.40609

Elevation (feet): 20

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

W0002F0002 WOODWARD, R.A. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2002-06-10



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 50990	EO Index: 50990
Key Quad: Florin (3812144)	Element Code: ABNSB10010
Occurrence Number: 558	Occurrence Last Updated: 2010-02-17

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2010-02-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-02-01	Occurrence Rank: Fair
Owner/Manager: SRCSD-BUFFERLANDS	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG SIMS ROAD ABOUT 0.2 TO 0.4 MI W OF FRANKLIN BLVD, & AT "SIMS WELL RD" ABOUT 0.5 MI NW OF SIMS RD AT FRANKLIN BLVD.

Detailed Location:
2002: MAPPED TO PROVIDED COORDINATES; SITE CONSISTS OF 2 BURROWS, LOCATED ~500 FEET APART. 2009-10: MAPPED TO PROVIDED COORDINATES; DESCRIBED AS "MOSTLY ALONG SIMS WELL RD, IN ARTIFICIAL MOUNDS OR ALONG A BROKEN IRRIGATION LINE."

Ecological:
HABITAT SURROUNDING BURROWS CONSISTS OF ANNUAL GRASSLAND.

Threats:
THREATENED BY CLOSE PROXIMITY TO SIMS ROAD AND THE POTENTIAL FOR VEHICLE STRIKES.

General:
2 ADULTS & 1 JUVENILE OBS AT BURROW ON W END OF S FEATURE & 1 ADULT OBS AT BURROW ON E END OF S FEATURE, 3 SEP '02. 4 WINTERING OWLS OBS AT N FEATURE (& 1 OCCATIONALLY AT S FEATURE) FROM 4 SEP '09 TO 1 FEB '10; NONE OBS 20 APR TO 4 SEP '09.

PLSS: T07N, R05E, Sec. 20 (M)	Accuracy: specific area	Area (acres): 16
UTM: Zone-10 N4255587 E635134	Latitude/Longitude: 38.43834 / -121.45161	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

CON10U0001	CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2007 - 2010. 2010-XX-XX
HUD02F0001	HUDDLESTON, R. (CH2M HILL) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2002-09-03
HUD02F0002	HUDDLESTON, R. (CH2M HILL) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2002-09-03



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 51256	EO Index: 51256
Key Quad: Sacramento East (3812154)	Element Code: ABNSB10010
Occurrence Number: 569	Occurrence Last Updated: 2004-02-17

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 1901-05-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1901-05-08	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
HAGGINWOOD. VICINITY OF ARCADE CREEK, BUSINESS I-80 AND HAGGIN OAKS GOLF COURSE.

Detailed Location:
COLLECTION FROM "HAGGIN'S RANCH, 5 MILES NORTH OF SACRAMENTO". THIS IS NOW THE HAGGINWOOD NEIGHBORHOOD OF SACRAMENTO.

Ecological:
Threats:

General:
MVZ EGG SET #893 COLLECTED 8 MAY 1901 BY R. H. ELLIOTT.

PLSS: T09N, R05E, Sec. 21 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4276060 E636699	Latitude/Longitude: 38.62254 / -121.42968	Elevation (feet): 45

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154), Rio Linda (3812164)

Sources:
MVZ03S0005 MUSEUM OF VERTEBRATE ZOOLOGY (UNIVERSITY OF CALIFORNIA, BERKELEY) - PRINTOUT OF MVZ SPECIMEN DATABASE FOR ATHENE CUNICULARIA EGG SETS. 2003-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 51441	EO Index: 51441	
Key Quad: Rio Linda (3812164)	Element Code: ABNSB10010	
Occurrence Number: 590	Occurrence Last Updated: 2010-02-16	

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2006-07-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-07-14	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
VICINITY OF CANAL ABOUT 0.75 TO 1 MI NW OF ELKHORN BLVD AT SORENTO RD, AMERICAN BASIN, WEST OF RIO LINDA.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. 2003: SE FEATURE; SEVERAL LARGE BURROWS ON CANAL BANK. 2006: NW FEATURE.

Ecological:
2003: NO VEGETATION AT THE SITE, RICE AND PASTURE IN SURROUNDING AREA. 2006: IDLE OR FALLOW FIELD.

Threats:
DEVELOPMENT LISTED BY HOWE AS A POTENTIAL THREAT.

General:
4 ADULTS OBSERVED AT BURROWS IN SE FEATURE ON 23 APR 2003. 1 ADULT OBS AT NW FEATURE ON 14 JUL 2006 DURING THE STATEWIDE SURVEY.

PLSS: T10N, R04E, Sec. 25 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4283828 E630852	Latitude/Longitude: 38.69340 / -121.49536	Elevation (feet): 15

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:

HOW03F0001	HOWE, J. (ANALYTICAL ENVIRONMENTAL SERVICES) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2003-04-23
WIL09D0003	WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 51947	EO Index: 51947	
Key Quad: Rio Linda (3812164)	Element Code: ABNSB10010	
Occurrence Number: 624	Occurrence Last Updated: 2003-07-31	

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2003-07-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-07-25	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST BANK OF THE NATOMAS EAST MAIN DRAINAGE CANAL, JUST NORTH OF DEL PASO ROAD, SACRAMENTO.

Detailed Location:
BURROW SITE IS LOCATED NEXT TO A RUSTY MANHOLE COVER, 50-60 FEET NORTH OF DEL PASO ROAD.

Ecological:
HABITAT CONSISTS OF A MANMADE LEVEE FOR THE DRAINAGE CANAL; SURROUNDED BY ENCROACHING DEVELOPMENT.

Threats:
THREATENED BY ONGOING DEVELOPMENT.

General:
8 INDIVIDUALS (ADULTS AND JUVENILES) OBSERVED AT THIS SITE ON 25 JUL 2003.

PLSS: T09N, R05E, Sec. 07 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4279649 E632607	Latitude/Longitude: 38.65549 / -121.47598	Elevation (feet): 30

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
PHI03F0001 PHILLIPS, M. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2003-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 54632
Key Quad: Florin (3812144)
Occurrence Number: 665

EO Index: 54632
Element Code: ABNSB10010
Occurrence Last Updated: 2011-01-24

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

Listing Status:
Federal: None
State: None
CNDDB Element Ranks:
Global: G4
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2007-06-28
Last Survey Date: 2007-06-28
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:

ALONG CANAL SOUTH OF AMHERST ST & E OF I-5, & IN FIELD NEAR STONECREST AVE AT BEACH LAKE RD, SACRAMENTO.

Detailed Location:

SPECIMEN: "FREEPORT 1 MI N." MAPPED TO COORDS (NW, SW & CENTER FEATURE). WIL COORDS APPEAR TO HAVE WRONG DATUM; MAPPED TO CON COORDS (CENTER FEATURE) OR OFFSET AS PER CON COORDS & BASED ON DESCRIPTION OF "IRRIGATION CANAL BANK" (W FEATURE).

Ecological:

HABITAT SURROUNDING BURROW SITE CONSISTS OF AGRICULTURE/URBAN. SW BURROW IS NEAR EDGE OF ASPHALT. NW BURROW IS NEAR TOP OF DRAINAGE CANAL (NORTH SLOPE) ABOUT 30' FROM HWY FENCE.

Threats:

THREATENED BY URBAN DEVELOPMENT AND CANAL MAINTENANCE.

General:

MVZ EGG SET #5954 COLL 29 APR 1899. 2 ADULTS & 4 JUV OBS AT NW BURROW 6 JUN 2002; NOT OBS IN 2004. 1 AD OBS AT SW BURROW 10 FEB 2004; USUALLY 1-2 OBS PER YEAR. 3 PAIRS OBS IN E FEATURE & 1 PAIR WITH 4 JUV OBS AT CENTER BURROW 28 JUN 2007.

PLSS: T07N, R04E, Sec. 12 (M)

Accuracy: nonspecific area

Area (acres): 34

UTM: Zone-10 N4259134 E631395

Latitude/Longitude: 38.47086 / -121.49378

Elevation (feet): 10

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

- CON07U0001 CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2004, 2006, AND 2007. 2007-XX-XX
- CON10U0001 CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2007 - 2010. 2010-XX-XX
- JON02F0006 JONES, R. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2002-06-06
- JON04F0001 JONES, R. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2004-02-10
- MVZ24S0001 MUSEUM OF VERTEBRATE ZOOLOGY (UNIVERSITY OF CALIFORNIA, BERKELEY) - 20 EGG SPECIMEN RECORDS FOR ATHENE CUNICULARIA FROM THE MUSEUM OF VERTEBRATE ZOOLOGY FROM 25 APR 1879 - 10 MAY 1924. 1924-05-10
- WIL09D0003 WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 55870
Key Quad: Florin (3812144)
Occurrence Number: 696

EO Index: 55886
Element Code: ABNSB10010
Occurrence Last Updated: 2010-02-10

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

Listing Status:
Federal: None
State: None
CNDDDB Element Ranks:
Global: G4
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2007-07-11
Last Survey Date: 2007-07-11
Owner/Manager: SACRAMENTO CITY SCHOOL DIST
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:

TO THE NW AND SW OF THE LUTHER BURBANK HIGH SCHOOL TRACK, JUST E OF THE RAILROAD & SOUTH OF FLORIN ROAD, SACRAMENTO.

Detailed Location:

MAPPED TO PROVIDED COORDINATES. N: DIRT BERM BESIDE TRACK/PRCTICE FIELD; BURROW IS ON THE SCHOOL SIDE OF THE CHAIN LINK FENCE THAT SEPARATES THE SCHOOL FROM THE RR & FLORIN RD. S: RAILROAD EMBARKMENT.

Ecological:

SURROUNDING HABITAT CONSISTS OF A DIRT BERM; AREA APPEARS TO BE MOWED AT SOME TIME OF THE YEAR, CREATING THE SHORT, DRY ANNUAL GRASS THE BIRDS PREFER.

Threats:

POTENTIAL THREAT OF DISTURBANCE BY HIGH SCHOOL STUDENTS.

General:

2 ADULTS OBSERVED AT N BURROW SITE ON 15 JUN 2004. 5+ OBSERVED AT N BURROW SITE ON 25 OCT 2004. SEVERAL NESTING PAIRS OBS IN THE AREA BY J. MENTZER (PER CON07) AT UNKNOWN DATE(S) PRIOR TO 2007. 3 ADULTS OBS AT S BURROW SITE ON 11 JUL 2007.

PLSS: T07N, R05E, Sec. 06 (M)
UTM: Zone-10 N4261841 E633415

Accuracy: specific area
Latitude/Longitude: 38.49494 / -121.47011

Area (acres): 11
Elevation (feet): 20

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

- CON07U0001 CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2004, 2006, AND 2007. 2007-XX-XX
- WIL09D0003 WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29
- WOO04F0001 WOODWARD, R. (CALIFORNIA DEPARTMENT OF PARKS AND RECREATION) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2004-06-15



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 64672	EO Index: 64751
Key Quad: Taylor Monument (3812165)	Element Code: ABNSB10010
Occurrence Number: 797	Occurrence Last Updated: 2010-02-16

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2007-06-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-06-02	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
 ABOUT 0.5 MI STRETCH OF THE NATOMAS EAST DRAINAGE CANAL JUST N OF THE SEWAGE PONDS, EAST SIDE OF OLD NATOMAS AIRPORT.

Detailed Location:
 IN 2007 THE BURROWS ON CONSTRUCTION SIDE CLOSED WITH ONE-WAY DOORS. OWLS MOVED TO GROUND SQUIRREL BURROWS ON THE WEST (WET) SIDE OF THE LEVEE WHICH IS THE OPPOSITE SIDE OF THE CANAL; THESE WILL BE MONITORED DURING THE CONSTRUCTION SEASON.

Ecological:
 THE 2006 BURROW SITE IS LOCATED ON BANK FILL, ON ~30% SLOPE; DOMINANT PLANTS INCLUDE HORDEUM MURINUM SSP. LEPORINUM, GERANIUM DISSECTUM, AVENA FATUA, AND VULPIA MYUROS. SOILS ARE NON-NATIVE, AS EVIDENCE OF PAST DISTURBANCE IS PRESENT.

Threats:
 THREATENED BY HUMAN DISTURBANCE, NON-NATIVE PREDATORS, PESTICIDES, WATER POLLUTION, & CONSTRUCTION BY SRCSD (2007).

General:
 2 ADULTS OBSERVED AT 1 NESTING BURROW ON 27 APR 2006. 4 OBSERVED AT 4 SITES (1 AT EACH) IN JAN AND FEB 2007. 1 ADULT AT ONE SITE & A PAIR WITH 6 JUVENILES AT ANOTHER SITE ON 2 JUN 2007.

PLSS: T09N, R04E, Sec. 14 (M)	Accuracy: nonspecific area	Area (acres): 33
UTM: Zone-10 N4277583 E629944	Latitude/Longitude: 38.63727 / -121.50697	Elevation (feet): 10

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

- Sources:**
- CON07F0001 CONARD, C. (SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (WINTER BURROW SITE) 2007-01-03
 - CON07F0002 CONARD, C. (SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (WINTER BURROW SITE) 2007-01-03
 - CON07F0011 CONARD, C. (SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (WINTER BURROW SITE) 2007-02-02
 - CON07F0012 CONARD, C. (SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (WINTER BURROW SITE) 2007-01-30
 - MIL06F0001 MILLER, A. (ENVIRONMENTAL SCIENCE ASSOCIATES) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2006-04-27
 - WIL09D0003 WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	64898	EO Index:	64977
Key Quad:	Taylor Monument (3812165)	Element Code:	ABNSB10010
Occurrence Number:	813	Occurrence Last Updated:	2010-02-17

Scientific Name:	<i>Athene cunicularia</i>	Common Name:	burrowing owl
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G4 State: S3	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat:	SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed:	2006-06-12	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2006-06-12	Occurrence Rank:	Excellent
Owner/Manager:	SAC INTERNATIONAL AIRPORT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 FAR WEST END OF DELTA ROAD (TOPO), ABOUT 0.4 MI WEST OF EARHART DRIVE, NORTH END OF SACRAMENTO INTERNATIONAL AIRPORT.

Detailed Location:
 BURROWS ARE LOCATED BETWEEN A CONCRETE-LINED IRRIGATION CANAL AND AN AIRPORT SERVICE ROAD (GRAVELLED), AT THE NORTH END OF THE AIRPORT.

Ecological:
 HABITAT CONSISTS OF DRY NON-NATIVE GRASSLAND/BERM AREA. SITE CONSISTS OF SANDY SOIL, WITH MULTIPLE BURROWS ALONG THE CANAL. AN ACTIVE GROUND SQUIRREL POPULATION IS PRESENT.

Threats:
 THREATENED BY AIRPORT LANDSCAPE, VEGETATION, AND SERVICE ROAD MAINTENANCE ACTIVITIES.

General:
 2 ADULTS AND 1 JUVENILE OBSERVED OUTSIDE THE NESTING BURROWS ON 12 JUN 2006. STATEWIDE SURVEY DATA LIKELY OBTAINED FROM CNDDB.

PLSS:	T10N, R03E, Sec. 24 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4284592 E621983	Latitude/Longitude:	38.70155 / -121.59718	Elevation (feet):	20

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

Sources:

OKA06F0001	OKAMURA-JOHNSON, S. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2006-06-12
WIL09D0003	WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 66102	EO Index: 66181
Key Quad: Rio Linda (3812164)	Element Code: ABNSB10010
Occurrence Number: 841	Occurrence Last Updated: 2010-02-16

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2007-06-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-06-28	Occurrence Rank: Good
Owner/Manager: SAC COUNTY FLOOD CONTROL	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST OF E LEVEE RD FROM JUST NORTH OF I-80 TO NE CORNER OF CALTRANS YARD JUST S OF I-80, NATOMAS AREA OF SACRAMENTO.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. 2006: BURROW WAS IN A FLOOD CONTROL LEVEE, NEAR TOP ON WEST SIDE (SE PART OF FEATURE); OWLS WERE SEEN PERCHED ON CALTRANS YARD FENCE.

Ecological:
2006: HABITAT SURROUNDING BURROW SITE CONSISTS OF ANNUAL GRASSLAND.

Threats:
PROXIMITY TO ROADS (POTENTIAL FOR VEHICLE COLLISIONS).

General:
2 OWLS & A BURROW OBSERVED AT SOUTH END OF FEATURE ON 1 JUL 2006; 1 OWL WAS LIGHT & TAWNY-LOOKING. 2 ADULTS WITH 2 JUVENILES OBS AT NORTH END OF FEATURE ON 9 JUN 2007. 4 JUVENILES OBS IN CENTER OF FEATURE ON 28 JUN 2007.

PLSS: T09N, R05E, Sec. 07 (M)	Accuracy: specific area	Area (acres): 11
UTM: Zone-10 N4278067 E632800	Latitude/Longitude: 38.64121 / -121.47407	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

AIR06F0001	AIROLA, D. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2006-07-01
WIL09D0003	WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 69288

EO Index: 70074

Key Quad: Sacramento West (3812155)

Element Code: ABNSB10010

Occurrence Number: 934

Occurrence Last Updated: 2007-07-13

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists:

CNDDB Element Ranks: **Global:** G4

BLM_S-Sensitive

CDFW_SSC-Species of Special Concern

IUCN_LC-Least Concern

State: S3

USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2007-01-04

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2007-01-04

Occurrence Rank: None

Owner/Manager: PVT

Trend: Unknown

Presence: Extirpated

Location:

WEST SACRAMENTO, ABOUT 0.2 MILES SW OF INTERSECTION OF HWY 84 AND HARBOR BLVD.

Detailed Location:

MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY SOURCE. OCCUPIED BURROW OBSERVED 50 FT WEST OF RIVERPOINT COURT AND 200 FT EAST OF IKEA COURT.

Ecological:

BURROW LOCATED ON NORTH FACE OF A DIRT SPOILS PILE. VEGETATION SURROUNDING BURROW IS PRIMARILY DISKED RUDERAL LAND.

Threats:

THE RIVERPOINT MARKETPLACE DEVELOPMENT.

General:

1 ADULT OBS JAN 2007. PRIOR TO START OF CONSTRUCTION, EXCLUSION DEVICES WERE INSTALLED IN ACTIVE BRUROW & 18 ADJACENT BURROWS. SITE WAS MONITORED 3 TIMES/WK FOR 3 WKS FOR TOTAL OF 120HRS. NO EVIDENCE OF OWLS AFTER 4 WKS, BURROWS COLLAPSED.

PLSS: T09N, R04E, Sec. 33 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4272278 E626456

Latitude/Longitude: 38.58999 / -121.54800

Elevation (feet): 10

County Summary:

Yolo

Quad Summary:

Sacramento West (3812155)

Sources:

EAS07F0001 EASLEY, J. (SYCAMORE ENVIRONMENTAL CONSULTANTS, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2007-01-04



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 69475
Key Quad: Florin (3812144)
Occurrence Number: 970

EO Index: 70254
Element Code: ABNSB10010
Occurrence Last Updated: 2010-02-17

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

Listing Status:
Federal: None
State: None
CNDDDB Element Ranks:
Global: G4
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:
 OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:
 SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2006-XX-XX
Last Survey Date: 2009-XX-XX
Owner/Manager: SRCSD-BUFFERLANDS
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Poor
Trend: Unknown

Location:
 ALONG BEACON CREEK LEVEE, BETWEEN MORRISON CREEK & FRANKLIN BOULEVARD, NORTH END OF SACRAMENTO TREATMENT PLANT PROPERTY.

Detailed Location:
 2005 BURROWS WERE LOCATED ALONG THE SOUTH FACE OF THE SOUTHERN LEVEE. BIRDS HAVE ALSO WINTERED AT THIS SITE IN 2007 (UP TO 9) AND IN 2009/2010 (UP TO 4).

Ecological:
 HABITAT CONSISTS OF A MAINTAINED LEVEE, WITH MOSTLY-BARREN SOIL AND SOME PERENNIAL PEPPERWEED ALONG THE TOP AND INSIDE CHANNEL. SURROUNDED BY RESIDENTIAL DEVELOPMENT TO THE NORTH AND THE SACRAMENTO BUFFERLANDS TO THE SOUTH.

Threats:
 NON-NATIVE PLANTS. LEVEE MAINTENANCE. COSUMNES RIVER BLVD/LIGHT RAIL EXPANSION.

General:
 REGULAR ON E SIDE OF PROPERTY WITH DECLINING #S SINCE 1995. NO BREEDING IN 2003 OR 2004, BUT EVERY YR PRIOR. 3 SINGLE OWLS & 1 FAMILY OF 4 BIRDS OBS ON 13 OCT 2005 (2 BURROWS IN EACH FEATURE). BREEDING IN 2006, NONE IN 2007-09.

PLSS: T07N, R05E, Sec. 17 (M)	Accuracy: nonspecific area	Area (acres): 23
UTM: Zone-10 N4258230 E634623	Latitude/Longitude: 38.46222 / -121.45696	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

CON07U0001	CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2004, 2006, AND 2007. 2007-XX-XX
CUL05F0002	CULL, R. (SUSTAIN ENVIRONMENTAL, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITES) 2005-10-13



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	69608	EO Index:	70379
Key Quad:	Taylor Monument (3812165)	Element Code:	ABNSB10010
Occurrence Number:	975	Occurrence Last Updated:	2007-07-03

Scientific Name:	<i>Athene cunicularia</i>	Common Name:	burrowing owl
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G4 State: S3	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed:	2007-06-29	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-06-29	Occurrence Rank:	Poor
Owner/Manager:	PVT-ARCO ARENA	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 WITHIN THE PARKING LOT COMPLEX AT ARCO ARENA, SACRAMENTO.

Detailed Location:
 BURROW SITES WERE LOCATED ON A GRASSY KNOLL ADJACENT TO PARKING LOT H, AS WELL AS IN SMALL ISLANDS OF VEGETATION WITH THE PARKING LOTS.

Ecological:
 HABITAT CONSISTS OF A GRASSY KNOLL CONTAINING BURROWS CONSTRUCTED BY GROUND SQUIRRELS THAT ARE BEING USED BY BUOW'S FOR NESTING.

Threats:
General:
 20 INDIVIDUALS (UNABLE TO DISTINGUISH JUVENILES FROM ADULTS) OBSERVED ON 2 JUN 2007; 4 JUVENILES AND ~16 ADULTS OBSERVED ON 29 JUN 2007.

PLSS: T09N, R04E, Sec. 11 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4279038 E628835	Latitude/Longitude: 38.65054 / -121.51943	Elevation (feet): 19

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

Sources:
 COS07F0001 COSTELLA, T. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2007-06-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 70910

EO Index: 71871

Key Quad: Taylor Monument (3812165)

Element Code: ABNSB10010

Occurrence Number: 1021

Occurrence Last Updated: 2010-02-16

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists:

CNDDB Element Ranks: **Global:** G4

BLM_S-Sensitive

CDFW_SSC-Species of Special Concern

IUCN_LC-Least Concern

State: S3

USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2007-06-09

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2007-06-09

Occurrence Rank: Fair

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

NATOMAS EAST DRAINAGE CANAL, FROM ABOUT 0.2 MI N TO ABOUT 0.4 MI S OF DEL PASO RD ABOUT 1.4 MI E OF I-5, SACRAMENTO.

Detailed Location:

MAPPED TO PROVIDED COORDINATES. JAN & FEB BURROWS CONSISTED OF GROUND SQUIRREL BURROWS ON W SIDE OF CANAL & EAST (OR WET) SIDE OF LEVEE (NON-CONSTRUCTION SIDE). JUNE DETECTIONS WERE ON E SIDE OF THE CANAL.

Ecological:

MAN-MADE LEVEES ALONG A CANAL, WITH HOUSES AND BUISINESSES IMMEDIATELY ADJACENT TO THE CANAL ON BOTH SIDES. THE AREA IS REGULARLY USED BY FISHERMEN, JOGGERS AND PEOPLE WALKING THEIR DOGS.

Threats:

BURROW FOUND CRUSHED BY SOMEONE'S FOOT IN FEB 2007. BURROWS CLOSED FOR SRCSD UPPER NW INTERCEPTOR PROJECT IN 2007.

General:

3 BUOW AT 3 BURROWS IN N FEATURE IN JAN 2007; OWL LATER FOUND DEAD AT 1 SITE & BURROW COLLAPSED AT ANOTHER. 1 BUOW AT 1 BURROW IN CENTER FEATURE IN FEB 2007. 1 PAIR IN N FEATURE & 1 PAIR WITH 1 JUVENILE IN S FEATURE IN JUN 2007.

PLSS: T09N, R04E, Sec. 11 (M)

Accuracy: specific area

Area (acres): 26

UTM: Zone-10 N4279561 E629899

Latitude/Longitude: 38.65510 / -121.50712

Elevation (feet): 10

County Summary:

Quad Summary:

Sacramento

Taylor Monument (3812165)

Sources:

- CON07F0003 CONARD, C. (SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (WINTER BURROW SITE) 2007-01-03
- CON07F0004 CONARD, C. (SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (WINTER BURROW SITE) 2007-01-03
- CON07F0005 CONARD, C. (SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (WINTER BURROW SITE) 2007-01-04
- CON07F0014 CONARD, C. (SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (WINTER BURROW SITE) 2007-02-02
- WIL09D0003 WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 70940

EO Index: 71877

Key Quad: Taylor Monument (3812165)

Element Code: ABNSB10010

Occurrence Number: 1022

Occurrence Last Updated: 2008-02-28

Scientific Name: *Athene cucularia*

Common Name: burrowing owl

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: BLM_S-Sensitive

CNDDDB Element Ranks: **Global:** G4

CDFW_SSC-Species of Special Concern

State: S3

IUCN_LC-Least Concern

USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2007-01-04

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2007-01-04

Occurrence Rank: Fair

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

NATOMAS EAST DRAINAGE CANAL, NORTH AND SOUTH OF CLUB CENTER DRIVE, SACRAMENTO.

Detailed Location:

THE BURROWS ON THE CONSTRUCTION SIDE WERE CLOSED WITH ONE-WAY DOORS. THE 4 SITES ARE GROUND SQUIRREL BURROWS ON THE WEST (OR WET) SIDE OF THE LEVEE WHICH IS THE OPPOSITE SIDE OF THE CANAL AND WILL BE MONITORED DURING THE CONSTRUCTION SEASON.

Ecological:

HOUSES AND BUSINESSES ARE IMMEDIATELY ADJACENT TO THE CANAL ON EITHER SIDE OF THE LEVEES.

Threats:

THREATENED BY THE CONSTRUCTION OF THE UPPER NW INTERCEPTOR PROJECT BY THE SRCSD DURING THE 2007 BREEDING SEASON.

General:

2 BIRDS OBSERVED AT GROUND SQUIRREL BURROWS ON 4 & 6 JAN 2007. SURVEYS ON 5 FEB FOUND 1 OWL MOVED NORTH, CLOSER TO BRIDGECROSS DR & NO DETECTION OF THE OTHER OWL.

PLSS: T10N, R04E, Sec. 35 (M)

Accuracy: nonspecific area

Area (acres): 19

UTM: Zone-10 N4281305 E629858

Latitude/Longitude: 38.67081 / -121.50726

Elevation (feet): 10

County Summary:

Quad Summary:

Sacramento

Taylor Monument (3812165)

Sources:

CON07F0006 CONARD, C. (SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (WINTER BURROW SITE) 2007-01-04

CON07F0007 CONARD, C. (SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT BUFFERLANDS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (WINTER BURROW SITE) 2007-01-06



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 70969	EO Index: 71888
Key Quad: Elk Grove (3812143)	Element Code: ABNSB10010
Occurrence Number: 1024	Occurrence Last Updated: 2008-02-28

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2003-10-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-10-XX	Occurrence Rank: Unknown
Owner/Manager: ENVIRO STEWARDSHIP FOUNDATION	Trend: Unknown
Presence: Presumed Extant	

Location:
0.36 MI EAST OF THE INTERSECTION OF EXCELSIOR RD AND GERBER RD.

Detailed Location:

Ecological:

Threats:

General:

A SINGLE OWL WAS OBSERVED USING A NETWORK OF GROUND SQUIRREL BURROWS WITHIN THE PROJECT AREA.

PLSS: T07N, R06E, Sec. 11 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4260593 E649060	Latitude/Longitude: 38.48122 / -121.29105	Elevation (feet): 100

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
ECO05R0011 ECORP CONSULTING, INC. - OPERATIONS AND MANAGEMENT PLAN FOR THE KLOTZ PROPERTY OPEN SPACE PRESERVE, SACRAMENTO COUNTY, CA. 2005-08-09



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 70970

EO Index: 71889

Key Quad: Taylor Monument (3812165)

Element Code: ABNSB10010

Occurrence Number: 1025

Occurrence Last Updated: 2008-02-29

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: BLM_S-Sensitive

CNDDDB Element Ranks: **Global:** G4

CDFW_SSC-Species of Special Concern

State: S3

IUCN_LC-Least Concern

USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2006-07-16

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2006-07-16

Occurrence Rank: Fair

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

NORTH OF ELKHORN BLVD, 1.0 MILE EAST OF HWY 99.

Detailed Location:

MAPPED ACCORDING TO MAPS PROVIDED BY SOURCE.

Ecological:

RICE FIELDS TO THE WEST, NEW HOUSING TO SE.

Threats:

THREATENED BY HOUSING DEVELOPMENTS IN NATOMAS BASIN.

General:

2 BUOW SEEN NEAR BURROWS IN WHAT APPEARS TO BE AN OLD LEVEE NORTH OF ELKHORN BLVD. THERE IS ALSO A LARGE BANK WITH BURROWS ABOUT 300 FT SOUTH OF ELKHORN BLVD.

PLSS: T10N, R04E, Sec. 26 (M)

Accuracy: nonspecific area

Area (acres): 10

UTM: Zone-10 N4283066 E628597

Latitude/Longitude: 38.68686 / -121.52142

Elevation (feet): 25

County Summary:

Quad Summary:

Sacramento

Taylor Monument (3812165)

Sources:

HIC06F0002 HICKSON, D. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2006-07-16



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 70979	EO Index: 71894
Key Quad: Taylor Monument (3812165)	Element Code: ABNSB10010
Occurrence Number: 1026	Occurrence Last Updated: 2010-02-16

Scientific Name: <i>Athene cucularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2006-06-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-06-14	Occurrence Rank: Unknown
Owner/Manager: NATOMAS BASIN CONS-SILVA	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.2 MI N OF W END OF SHADONEY AVE, ABOUT 1.6 - 1.7 MI NW OF W ELVERTA RD AT SORENTO RD, 4.2 MI NW OF RIO LINDA PO.

Detailed Location:
MAPPED TO PROVIDED COORDINATES.

Ecological:

Threats:

General:

1 ADULT OBS AT NW FEATURE ON 3 JUN 2006 DURING STATEWIDE SURVEY. THE CARCASS OF A BUOW WAS FOUND IN FRONT OF A BURROW IN SE FEATURE ON 14 JUN 2006; IT WAS KILLED AND EATEN BY AN UNKNOWN PREDATOR.

PLSS: T10N, R04E, Sec. 11 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4288140 E629814	Latitude/Longitude: 38.73240 / -121.50649	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

ROB06U0001	ROBERTS, J. (NATOMAS BASIN CONSERVANCY) - EMAIL FROM JOHN ROBERTS TO JENNY MARR CONCERNING "A LOSS OF BURROWING OWL ON SILVA TRACT" 2006-06-14
WIL09D0003	WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 71688

EO Index: 72588

Key Quad: Rio Linda (3812164)

Element Code: ABNSB10010

Occurrence Number: 1186

Occurrence Last Updated: 2010-02-16

Scientific Name: *Athene cucularia*

Common Name: burrowing owl

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: **Global:** G4

CDFW_SSC-Species of Special Concern

State: S3

IUCN_LC-Least Concern

USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2007-06-20

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2007-06-20

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

ADJACENT TO ONRAMP FROM NORTH-BOUND TRUXEL ROAD TO WEST-BOUND I-80, NATOMAS.

Detailed Location:

PEA: DESCRIBED AS "THE TRUXEL TO WEST BOUND 80 ON RAMP." WIL: COORDS PROVIDED. MAPPED TO WIL COORDINATES.

Ecological:

ADJACENT TO HEAVILY USED HIGHWAY ONRAMP.

Threats:

VEHICLE COLLISIONS.

General:

PEARCE WAS NOTIFIED IN MAY 2007 THAT A FAMILY OF BURROWING OWLS HAD RETURNED TO NEST AT THIS LOCATION "FOR THE FOURTH YEAR." 1 ADULT WAS OBS AT THIS BURROW DURING THE STATEWIDE SURVEY ON 20 JUN 2007.

PLSS: T09N, R04E, Sec. 13 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4277256 E630552

Latitude/Longitude: 38.63424 / -121.50005

Elevation (feet): 10

County Summary:

Quad Summary:

Sacramento

Rio Linda (3812164)

Sources:

PEA07U0001 PEARCE, J. (CENTRAL VALLEY BIRD CLUB) - EMAIL POSTING ON THE CV BIRDS LISTSERV RE: BURROWING OWLS NESTING AT THE TRUXEL ROAD ON-RAMP TO WESTBOUND I-80 2007-05-04

WIL09D0003 WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 78083

EO Index: 78961

Key Quad: Sacramento East (3812154)

Element Code: ABNSB10010

Occurrence Number: 1253

Occurrence Last Updated: 2010-02-08

Scientific Name: *Athene cucularia*

Common Name: burrowing owl

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: BLM_S-Sensitive

CNDDDB Element Ranks: **Global:** G4

CDFW_SSC-Species of Special Concern

State: S3

IUCN_LC-Least Concern

USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2006-07-11

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2006-07-11

Occurrence Rank: Unknown

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

UNDEVELOPED PARCELS ON FAR SIDE OF BLOCK W OF FRANKLIN BLVD BETWEEN 47TH AVE & 51ST AVE, JUST E OF RR, SACRAMENTO.

Detailed Location:

DESCRIBED AS "OLD DRIVE-IN THEATER EAST OF RR BETWEEN 51ST & 47TH" AND "ABANDONED DRIVE-IN BETWEEN RAILROAD & FRANKLIN BLVD." MAPPED TO UNDEVELOPED PARCELS CONTAINING OLD THEATER AS PER AERIAL PHOTOS, UP TO 47TH AVE AS PER THEATER ADDRESS.

Ecological:

IDLE OR FALLOW FIELD. OLD SITE OF A DRIVE IN THEATER THAT WAS TORN DOWN IN 1989. PARCELS HAVE REMAINED UNDEVELOPED SINCE THEN. OTHERWISE CONTAINED WITHIN A DEVELOPED AREA. SITE USED BY A HOMELESS CAMP AS PER 2004 VISIT.

Threats:

General:

FITZER NOTED BREEDING PAIRS AT THIS LOC (1989-2004). MENTZER NOTED THAT "AT ONE TIME" (1989-2004) THERE WERE 10+ PAIRS IN THE AREA. NONE FOUND DURING FALL 2004 SURVEY BY CONARD. 1 PAIR WITH 2+ JUV ESTIMATED ON 11 JUL 2006.

PLSS: T08N, R05E, Sec. 31 (M)

Accuracy: nonspecific area

Area (acres): 31

UTM: Zone-10 N4263192 E633178

Latitude/Longitude: 38.50715 / -121.47257

Elevation (feet): 20

County Summary:

Quad Summary:

Sacramento

Sacramento East (3812154)

Sources:

CON07U0001 CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2004, 2006, AND 2007. 2007-XX-XX

WIL09D0003 WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 78075
Key Quad: Florin (3812144)
Occurrence Number: 1255

EO Index: 78948
Element Code: ABNSB10010
Occurrence Last Updated: 2010-02-04

Scientific Name: *Athene cucularia*

Common Name: burrowing owl

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G4
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:
 OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:
 SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2007-07-XX
Last Survey Date: 2007-07-XX
Owner/Manager: USFWS-STONE LAKES NWR
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 ABOUT 0.16 MI WEST OF FRANKLIN BLVD AT RR, & ABOUT 0.9 MI N OF FRANKLIN (TOWN), STONE LAKES NWR.

Detailed Location:
 MAPPED TO PROVIDED COORINATES. DESCRIBED AS WEST SIDE OF FRANKLIN BLVD, NORTH OF HOOD-FRANKLIN RD AND TOWN OF FRANKLIN.

Ecological:
 NATURAL GRASSLAND.

Threats:
General:
 1 PAIR WITH 1-3 JUVENILES OBSERVED DURING THE STATEWIDE SURVEY IN JUL 2007; ALL PREVIOUS STONE LAKE NWR DETECTIONS WERE WEST OF I-5 & ONLY IN THE NON-BREEDING SEASON.

PLSS: T06N, R05E, Sec. 08 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4250354 E634863	Latitude/Longitude: 38.39124 / -121.45572	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

CON07U0001	CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2004, 2006, AND 2007. 2007-XX-XX
CON10U0001	CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2007 - 2010. 2010-XX-XX
WIL09D0003	WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 78071
Key Quad: Florin (3812144)
Occurrence Number: 1258

EO Index: 78953
Element Code: ABNSB10010
Occurrence Last Updated: 2010-02-09

Scientific Name: *Athene cucularia*

Common Name: burrowing owl

Listing Status:
Federal: None
State: None
CNDDB Element Ranks:
Global: G4
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:
 OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:
 SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2007-07-07
Last Survey Date: 2007-07-07
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 VICINITY OF LAGUNA BLVD HWY 99-S ON-RAMP, NW ELK GROVE.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES (CON10U0001). DESCRIBED AS "ELK GROVE AT LAGUNA BLVD AND ONRAMP TO HWY 99."

Ecological:
 WIL09D03: PARKING LOT & IRRIGATION CANAL. CON: ADDITIONAL DEVELOPEMENT HAS OCCURED IN THIS AREA SINCE 2007.

Threats:
 DEVELOPEMENT.

General:
 2 ADULTS WITH 7 JUVENILES OBSERVED ON 29 JUN 2007 (CON), AND 2 ADULTS WITH 2 JUVENILES OBS ON 7 JUL 2007 (WIL), DURING THE STATEWIDE SURVEY.

PLSS: T07N, R05E, Sec. 35 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4254007 E639942	Latitude/Longitude: 38.42337 / -121.39686	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

CON07U0001	CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2004, 2006, AND 2007. 2007-XX-XX
CON10U0001	CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2007 - 2010. 2010-XX-XX
WIL09D0003	WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 78091

EO Index: 78972

Key Quad: Carmichael (3812153)

Element Code: ABNSB10010

Occurrence Number: 1263

Occurrence Last Updated: 2010-02-17

Scientific Name: *Athene cucularia*

Common Name: burrowing owl

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists:

CNDDB Element Ranks: **Global:** G4

BLM_S-Sensitive

CDFW_SSC-Species of Special Concern

IUCN_LC-Least Concern

State: S3

USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 198X-XX-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 198X-XX-XX

Occurrence Rank: Unknown

Owner/Manager: DOD-MATHER PRESERVE

Trend: Unknown

Presence: Presumed Extant

Location:

EAGLES NEST ROAD ABOUT 0.3 MI SOUTH OF WOODRING DR, MATHER AIR FORCE BASE, SOUTH OF RANCHO CORDOVA.

Detailed Location:

MAPPED TO PROVIDED COORDINATES. ALSO DESCRIBED AS "EAGLES NEST ROAD SOUTH OF MATHER OFF JACKSON HIGHWAY."

Ecological:

Threats:

POISON PUT OUT FOR GROUND SQUIRRELS.

General:

C. LAZIER OF SAC AUDUBON NOTED SEEING BUOW IN BURROWS & ON THE FENCE LINE IN THE 1980S, BUT THEY DISAPPEARED SUDDENLY WITH THE GROUND SQUIRRELS, POSSIBLY FROM POISON MEANT FOR THE SQUIRRELS. HASN'T BEEN LOOKED INTO FURTHER.

PLSS: T08N, R06E, Sec. 13 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4267398 E651526

Latitude/Longitude: 38.54210 / -121.26131

Elevation (feet): 140

County Summary:

Quad Summary:

Sacramento

Carmichael (3812153)

Sources:

CON07U0001 CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2004, 2006, AND 2007. 2007-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 78122

EO Index: 79010

Key Quad: Rio Linda (3812164)

Element Code: ABNSB10010

Occurrence Number: 1267

Occurrence Last Updated: 2010-02-11

Scientific Name: *Athene cucularia*

Common Name: burrowing owl

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists:

CNDDB Element Ranks: **Global:** G4

BLM_S-Sensitive

CDFW_SSC-Species of Special Concern

IUCN_LC-Least Concern

State: S3

USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2007-06-12

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2007-06-12

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

ALONG IRRIGATION CANAL ABOUT 0.2 TO 0.5 MI SOUTH OF W ELVERTA RD & 0.7 MI EAST OF ERNEST RD, SW OF RIO LINDA.

Detailed Location:

MAPPED TO PROVIDED COORDINATES.

Ecological:

IRRIGATION CANAL BANK.

Threats:

General:

2 BURROWS WITH 3 ADULTS AT N FEATURE, 1 BURROW WITH 2 ADULTS AT CENTER FETAURE, & 1 BURROW WITH 2 ADULTS AT S FEATURE ON 12 JUN 2007 DURING STATEWIDE SURVEY.

PLSS: T10N, R04E, Sec. 24 (M)

Accuracy: specific area

Area (acres): 15

UTM: Zone-10 N4285580 E630561

Latitude/Longitude: 38.70922 / -121.49838

Elevation (feet): 20

County Summary:

Quad Summary:

Sacramento

Rio Linda (3812164)

Sources:
WIL09D0003 WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 78126

EO Index: 79014

Key Quad: Rio Linda (3812164)

Element Code: ABNSB10010

Occurrence Number: 1268

Occurrence Last Updated: 2010-02-16

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists:

CNDDB Element Ranks: **Global:** G4

BLM_S-Sensitive

CDFW_SSC-Species of Special Concern

IUCN_LC-Least Concern

State: S3

USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2007-06-06

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2007-06-06

Occurrence Rank: Unknown

Owner/Manager: STERLING SILVER STABLES

Trend: Unknown

Presence: Presumed Extant

Location:

ABOUT 0.5 MI NW OF LOCUST ROAD AT LOS GARCIAS LN AND ABOUT 1.7 MI NNW OF ELVERTA POST OFFICE.

Detailed Location:

MAPPED TO PROVIDED COORDINATES.

Ecological:

PASTURE (FOR HORSE & COWS).

Threats:

General:

1 PAIR OBS ON 6 JUN 2007.

PLSS: T10N, R05E, Sec. 07 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4288877 E632734

Latitude/Longitude: 38.73860 / -121.47276

Elevation (feet): 45

County Summary:

Placer

Quad Summary:

Rio Linda (3812164)

Sources:

WIL09D0003 WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 78128

EO Index: 79018

Key Quad: Sacramento East (3812154)

Element Code: ABNSB10010

Occurrence Number: 1269

Occurrence Last Updated: 2010-02-16

Scientific Name: *Athene cucularia*

Common Name: burrowing owl

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists:

CNDDB Element Ranks: **Global:** G4

BLM_S-Sensitive

CDFW_SSC-Species of Special Concern

IUCN_LC-Least Concern

State: S3

USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2003-03-07

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2003-03-07

Occurrence Rank: Fair

Owner/Manager: DOD-SACRAMENTO ARMY DEPOT

Trend: Unknown

Presence: Presumed Extant

Location:

NW SACRAMENTO ARMY DEPOT, ABOUT 0.15 TO 0.5 MI SE OF FRUITRIDGE RD AT POWER INN RD, SACRAMENTO.

Detailed Location:

MAPPED TO PROVIDED COORDINATES AND MAP POINTS.

Ecological:

GRASSLAND & BERMS ON PERIPHERY OF DEPOT. ADJACENT TO LANDSCAPED LAWN AREA & ANNUAL GRASSLAND. LIGHT INDUSTRIAL IN VICINITY. SITE QUALITY MARKED AS "GOOD" IN 1990 AND "FAIR" IN 2003.

Threats:

POSSIBLE THREAT FROM DEVELOPEMENT OF INDUSTRIAL PARK.

General:

4 ACTIVE BURROWS OBS IN S OF N FEATURE (X2) & IN S FEATURE (X1) IN 1990. 4 OWLS & AT LEAST ONE ACTIVE BURROW OBS AT N END OF N FEATURE ON 7 MAR 2003.

PLSS: T08N, R05E, Sec. 26 (M)

Accuracy: specific area

Area (acres): 20

UTM: Zone-10 N4264910 E639049

Latitude/Longitude: 38.52172 / -121.40491

Elevation (feet): 40

County Summary:

Quad Summary:

Sacramento

Sacramento East (3812154)

Sources:

HUD03F0001 HUDDLESTON, R. (CH2M HILL) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2003-03-07

KOF90F0001 KOFORD, E.J. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 1990-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 78139	EO Index: 79024
Key Quad: Carmichael (3812153)	Element Code: ABNSB10010
Occurrence Number: 1271	Occurrence Last Updated: 2010-02-17

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	CDFW_SSC-Species of Special Concern
Global: G4	IUCN_LC-Least Concern
State: S3	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2004-07-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-07-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG MATHER BLVD BETWEEN FEMOYER ST AND DOUGLAS RD, RANCHO CORDOVA.

Detailed Location:
MAPPED TO START AND END COORDINATES AND DESCRIPTION "MATHER BLVD...ALONG FENCE LINE THIS SUMMER."

Ecological:
AREA IS BORDERED BY THE OPEN SPACE OF MATHER AIR FORCE BASE TO THE SOUTH AND WEST, AND BY LANDS SLATED FOR HOUSING DEVELOPMENT (CITY OF RANCHO CORDOVA) TO THE NORTH AND EAST (GRADING VISIBLE IN AERIAL IMAGES 2003+).

Threats:
General:
5 OWLS WERE OBSERVED ALONG THE FENCE LINE OF THIS SECTION OF ROAD IN JUL 2004 AND PRESUMED TO BE NESTING IN VICINITY.

PLSS: T08N, R06E, Sec. 12 (M)	Accuracy: nonspecific area	Area (acres): 74
UTM: Zone-10 N4270141 E650415	Latitude/Longitude: 38.56700 / -121.27346	Elevation (feet): 100

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
CON07U0001 CONARD, C. - BURROWING OWL RECORDS FROM C. CONARD IN THE VICINITY OF THE SACRAMENTO CO. HCP FROM 2004, 2006, AND 2007. 2007-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 81423

EO Index: 82401

Key Quad: Carmichael (3812153)

Element Code: ABNSB10010

Occurrence Number: 1633

Occurrence Last Updated: 2011-01-24

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: BLM_S-Sensitive

CNDDB Element Ranks: **Global:** G4

CDFW_SSC-Species of Special Concern

State: S3

IUCN_LC-Least Concern

USFWS_BCC-Birds of Conservation Concern

General Habitat:

OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

Micro Habitat:

SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Last Date Observed: 2010-09-20

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2010-09-20

Occurrence Rank: Good

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

E SIDE OF S WATT AVE, 0.2 ROAD MILES S OF ITS INTERSECTION WITH ELDER CREEK RD, ABOUT 1 MI NNE OF FLORIN PO.

Detailed Location:

MOUND IS LOCATED LESS THAN 100 FT OF EAST-WEST TRANSMISSION LINES AND TRANSMISSION LINE CORRIDOR.

Ecological:

HABITAT DESCRIBED AS A MOUND OF DIRT WITH 2 BURROWS LOCATED IN A 1/4 ACRE PASTURE. PASTURE HEAVILY GRAZED BY 2 BURROWS - THERE IS ONLY SPARSE GROUND COVER. BURROWS ARE BEHIND PRIVATE RESIDENCE WITH TRANSMISSION LINES NEARBY.

Threats:

POSSIBLY THREATENED BY FUTURE DEVELOPMENT.

General:

2 ADULTS AND 1 POSSIBLE JUVENILE OBSERVED PERCHED AT BURROWS DURING DAILY COMMUTE AUG - SEP. ABUNDANT WHITEWASH AT BURROWS.

PLSS: T08N, R06E, Sec. 31 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4263453 E642049

Latitude/Longitude: 38.50813 / -121.37081

Elevation (feet): 50

County Summary:

Sacramento

Quad Summary:

Carmichael (3812153)

Sources:

KOF10F0001 KOFORD, E. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2010-09-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 86835	EO Index: 87794
Key Quad: Taylor Monument (3812165)	Element Code: ABNSB10010
Occurrence Number: 1863	Occurrence Last Updated: 2012-10-01

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2012-08-17	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2012-08-17	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
W SIDE OF E COMMERCE WAY, ABOUT 0.5 MI SE OF DEL PASO RD AT I-5, JUST W OF ARCO ARENA (POWER BALANCE PAVILION).

Detailed Location:
UNFINISHED HIGH-DENSITY HOUSING DEVELOPMENT SITE JUST WEST OF ARCO ARENA, NEAR THE CORNER OF BENEFIT WAY AND E COMMERCE WAY; INFRASTRUCTURE SET (UNDERGROUND UTILITIES, FOUNDATIONS), BUT NO STRUCTURES YET (2012).

Ecological:
TILLED EARTH WITH WEEDS. MAN-MADE HOLES FOR UTILITY CABLES USED AS BURROWS. SEVERAL JACKRABBITS BUT NO GROUND SQUIRRELS OBSERVED. SURROUNDING FIELDS APPEARED DISKED; OWLS MAY EVENTUALLY BE EXTIRPATED HERE (2012). FUTURE MONITORING NEEDED.

Threats:
DEVELOPMENT WILL EVENTUALLY BE COMPLETED AND THE BURROWING OWLS WILL BE EVICTED. POSSIBLY THREATENED BY DOMESTIC PETS.

General:
ABOUT 12 OBSERVED IN OR NEAR BURROWS & GIVING WARNING CALLS JUL 2012. 4 ADULTS & 7 RECENTLY FLEDGED JUVENILES (ABOUT 3 FAMILY GROUPS) WERE OBSERVED BY BURROWS WITH FEATHERS & WHITELASH; OLDER OWLS EXHIBITED SENTINEL BEHAVIOR 17 AUG 2012.

PLSS: T09N, R04E, Sec. 10 (M)	Accuracy: specific area	Area (acres): 12
UTM: Zone-10 N4279133 E628192	Latitude/Longitude: 38.65149 / -121.52680	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

ACO12F0008	ACORD, B. ET AL. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-CALIFORNIA NATURAL DIVERSITY DATABASE) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2012-08-17
BUF12F0001	BUFTON, L. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2012-07-21



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 48738	EO Index: 48738
Key Quad: Rio Linda (3812164)	Element Code: ABPAU01010
Occurrence Number: 11	Occurrence Last Updated: 2007-11-05

Scientific Name: <i>Progne subis</i>	Common Name: purple martin
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	
State: S3	

General Habitat: INHABITS WOODLANDS, LOW ELEVATION CONIFEROUS FOREST OF DOUGLAS-FIR, PONDEROSA PINE, & MONTEREY PINE.	Micro Habitat: NESTS IN OLD WOODPECKER CAVITIES MOSTLY, ALSO IN HUMAN-MADE STRUCTURES. NEST OFTEN LOCATED IN TALL, ISOLATED TREE/SNAG.
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Last Date Observed: 2007-03-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-03-11	Occurrence Rank: Fair
Owner/Manager: CALTRANS	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST NORTH OF ARCADE CREEK, WHERE I-80 CROSSES ROSEVILLE ROAD, SACRAMENTO.

Detailed Location:
DRAIN HOLES OF I-80 ARE USED AS NESTING AREA. SITE IS LOCATED ADJACENT TO LIGHT RAIL STATION.

Ecological:
Threats:

General:
SEVERAL ADULTS AND JUVENILES OBSERVED IN SPRING OF 2000 AND AGAIN IN 2002. 40+ ADULTS OBSERVED IN 2000. ESTIMATED 29 ADULTS IN 2002. 39 NESTING PAIRS OBSERVED IN 2003. ONE ASY FEMALE WAS OBSERVED AT THE COLONY SITE ON 11 MAR 2007.

PLSS: T09N, R05E, Sec. 14 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4277758 E638665	Latitude/Longitude: 38.63753 / -121.40677	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

AIR03A0001	AIROLA, D.A. & J. GRANTHAM - PURPLE MARTIN POPULATION STATUS, NESTING HABITAT CHARACTERISTICS, AND MANAGEMENT IN SACRAMENTO, CALIFORNIA (WESTERN BIRDS VOL. 34, NO. 4, PP. 235-251). 2003-XX-XX
AIR07U0001	AIROLA, D. - EMAIL POSTED TO THE CENTRAL VALLEY BIRDS LISTSERV RE: PURPLE MARTIN AND BURROWING OWL NEST LOCATIONS ALONG THE I-80 CORRIDOR IN SACRAMENTO 2007-03-11
LEE03A0001	LEEMAN, T., D. AIROLA & D. KOPP - STATUS OF BREEDING PURPLE MARTINS IN SACRAMENTO IN 2003 (CVBC BULLETIN VOL. 6, NO. 4, P. 61-68). 2003-XX-XX
MEN02F0001	MENTZER, J. (EDAW, INC.) - FIELD SURVEY FORM FOR PROGNE SUBIS 2002-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 54694	EO Index: 54694
Key Quad: Sacramento East (3812154)	Element Code: ABPAU01010
Occurrence Number: 17	Occurrence Last Updated: 2004-03-12

Scientific Name: <i>Progne subis</i>	Common Name: purple martin
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat: INHABITS WOODLANDS, LOW ELEVATION CONIFEROUS FOREST OF DOUGLAS-FIR, PONDEROSA PINE, & MONTEREY PINE.	Micro Habitat: NESTS IN OLD WOODPECKER CAVITIES MOSTLY, ALSO IN HUMAN-MADE STRUCTURES. NEST OFTEN LOCATED IN TALL, ISOLATED TREE/SNAG.
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Last Date Observed: 2003-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
MARCONI AVENUE OVERPASS OF AUBURN BOULEVARD & UNION PACIFIC & SACRAMENTO LIGHT RAIL TRACKS, SACRAMENTO.

Detailed Location:
BIRDS ARE NESTING IN WEEP HOLES IN FREEWAY & STREET OVERPASSES. WEEP HOLES ARE VERTICAL HOLES CONSTRUCTED INTO THE UNDERSIDE OF SOME HOLLOW BOX GIRDER ELEVATED FREEWAYS, OVERPASSES & BRIDGES TO RELIEVE AIR PRESSURE & DRAIN CONDENSATION.

Ecological:
NEW BREEDING LOCATION IN 2003; HIGH NUMBER OF SECOND YEAR MALES OBSERVED, WHICH IS CONSISTENT WITH TYPICAL PIONEERING BEHAVIOR OF SECOND YEAR BIRDS.

Threats:
General:
SITES MONITORED EVERY 4-8 DAYS FROM MID-MAY TO EARLY AUG 2003; 1 PAIR OBSERVED NESTING.

PLSS: T09N, R05E, Sec. 22 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4276092 E637304	Latitude/Longitude: 38.62273 / -121.42273	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:
LEE03A0001 LEEMAN, T., D. AIROLA & D. KOPP - STATUS OF BREEDING PURPLE MARTINS IN SACRAMENTO IN 2003 (CVBC BULLETIN VOL. 6, NO. 4, P. 61-68). 2003-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 54696	EO Index: 54696
Key Quad: Sacramento East (3812154)	Element Code: ABPAU01010
Occurrence Number: 18	Occurrence Last Updated: 2004-03-12

Scientific Name: <i>Progne subis</i>	Common Name: purple martin
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat: INHABITS WOODLANDS, LOW ELEVATION CONIFEROUS FOREST OF DOUGLAS-FIR, PONDEROSA PINE, & MONTEREY PINE.	Micro Habitat: NESTS IN OLD WOODPECKER CAVITIES MOSTLY, ALSO IN HUMAN-MADE STRUCTURES. NEST OFTEN LOCATED IN TALL, ISOLATED TREE/SNAG.
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Last Date Observed: 2003-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
EL CAMINO OVERPASS OF UNION PACIFIC AND LIGHT RAIL TRACKS, SACRAMENTO.

Detailed Location:
SITE FIRST DOCUMENTED IN 2003 BUT ASSUMED TO HAVE BEEN OCCUPIED IN PRIOR YEARS BASED ON THE PRESENCE OF OVER 90% OF PAIRS WITH ASY MALES.

Ecological:
BIRDS ARE NESTING IN WEEP HOLES IN FREEWAY & STREET OVERPASSES. WEEP HOLES ARE VERTICAL HOLES CONSTRUCTED INTO THE UNDERSIDE OF SOME HOLLOW BOX GIRDER ELEVATED FREEWAYS, OVERPASSES & BRIDGES TO RELIEVE AIR PRESSURE & DRAIN CONDENSATION.

Threats:
General:
SITES MONITORED EVERY 4-8 DAYS FROM MID-MAY TO EARLY AUG 2003; 15 PAIRS OBSERVED NESTING.

PLSS: T09N, R05E, Sec. 28 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4274765 E636207	Latitude/Longitude: 38.61095 / -121.43559	Elevation (feet): 45

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:
LEE03A0001 LEEMAN, T., D. AIROLA & D. KOPP - STATUS OF BREEDING PURPLE MARTINS IN SACRAMENTO IN 2003 (CVBC BULLETIN VOL. 6, NO. 4, P. 61-68). 2003-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 54697	EO Index: 54697
Key Quad: Sacramento East (3812154)	Element Code: ABPAU01010
Occurrence Number: 19	Occurrence Last Updated: 2004-03-12

Scientific Name: <i>Progne subis</i>	Common Name: purple martin
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat: INHABITS WOODLANDS, LOW ELEVATION CONIFEROUS FOREST OF DOUGLAS-FIR, PONDEROSA PINE, & MONTEREY PINE.	Micro Habitat: NESTS IN OLD WOODPECKER CAVITIES MOSTLY, ALSO IN HUMAN-MADE STRUCTURES. NEST OFTEN LOCATED IN TALL, ISOLATED TREE/SNAG.
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Last Date Observed: 2003-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-XX-XX	Occurrence Rank: Unknown
Owner/Manager: CALTRANS	Trend: Unknown
Presence: Presumed Extant	

Location:
HWY 50 AT REDDING ROAD & UNION PACIFIC & LIGHT RAIL TRACKS, BETWEEN 65TH STREET AND HOWE AVENUE, SACRAMENTO.

Detailed Location:
NEW SITE IN 2003; HIGH NUMBER OF SECOND YEAR MALES OBSERVED, WHICH IS CONSISTENT WITH TYPICAL PIONEERING BEHAVIOR OF SECOND YEAR BIRDS.

Ecological:
BIRDS ARE NESTING IN WEEP HOLES IN FREEWAY & STREET OVERPASSES. WEEP HOLES ARE VERTICAL HOLES CONSTRUCTED INTO THE UNDERSIDE OF SOME HOLLOW BOX GIRDER ELEVATED FREEWAYS, OVERPASSES & BRIDGES TO RELIEVE AIR PRESSURE & DRAIN CONDENSATION.

Threats:
General:
SITES MONITORED EVERY 4-8 DAYS FROM MID-MAY TO EARLY AUG 2003; 3 PAIRS OBSERVED NESTING.

PLSS: T08N, R05E, Sec. 15 (M)	Accuracy: specific area	Area (acres): 11
UTM: Zone-10 N4268114 E637474	Latitude/Longitude: 38.55083 / -121.42235	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:
LEE03A0001 LEEMAN, T., D. AIROLA & D. KOPP - STATUS OF BREEDING PURPLE MARTINS IN SACRAMENTO IN 2003 (CVBC BULLETIN VOL. 6, NO. 4, P. 61-68). 2003-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 54698	EO Index: 54698
Key Quad: Sacramento East (3812154)	Element Code: ABPAU01010
Occurrence Number: 20	Occurrence Last Updated: 2007-11-01

Scientific Name: <i>Progne subis</i>	Common Name: purple martin
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat: INHABITS WOODLANDS, LOW ELEVATION CONIFEROUS FOREST OF DOUGLAS-FIR, PONDEROSA PINE, & MONTEREY PINE.	Micro Habitat: NESTS IN OLD WOODPECKER CAVITIES MOSTLY, ALSO IN HUMAN-MADE STRUCTURES. NEST OFTEN LOCATED IN TALL, ISOLATED TREE/SNAG.
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Last Date Observed: 2003-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-XX-XX	Occurrence Rank: Unknown
Owner/Manager: CALTRANS	Trend: Unknown
Presence: Presumed Extant	

Location:
HIGHWAY 50 FROM 34TH STREET TO STOCKTON BOULEVARD, SACRAMENTO.

Detailed Location:
35TH STREET SITE.

Ecological:
BIRDS ARE NESTING IN WEEP HOLES IN FREEWAY & STREET OVERPASSES. WEEP HOLES ARE VERTICAL HOLES CONSTRUCTED INTO THE UNDERSIDE OF SOME HOLLOW BOX GIRDER ELEVATED FREEWAYS, OVERPASSES & BRIDGES TO RELIEVE AIR PRESSURE & DRAIN CONDENSATION.

Threats:
General:
ESTIMATED 30 ADULTS IN 1992. EST. 34 ADULTS IN 1993. EST. 36 ADULTS IN 1994. EST. 41 ADULTS IN 1995. EST. 34 ADULTS IN 1996. SITES MONITORED EVERY 4-8 DAYS FROM MID-MAY TO EARLY AUG 2003; 19 PAIRS OBSERVED NESTING.

PLSS: T08N, R05E, Sec. 07 (M)	Accuracy: specific area	Area (acres): 17
UTM: Zone-10 N4269109 E633731	Latitude/Longitude: 38.56037 / -121.46510	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

AIR03A0001	AIROLA, D.A. & J. GRANTHAM - PURPLE MARTIN POPULATION STATUS, NESTING HABITAT CHARACTERISTICS, AND MANAGEMENT IN SACRAMENTO, CALIFORNIA (WESTERN BIRDS VOL. 34, NO. 4, PP. 235-251). 2003-XX-XX
LEE03A0001	LEEMAN, T., D. AIROLA & D. KOPP - STATUS OF BREEDING PURPLE MARTINS IN SACRAMENTO IN 2003 (CVBC BULLETIN VOL. 6, NO. 4, P. 61-68). 2003-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 54699	EO Index: 54699	
Key Quad: Sacramento East (3812154)	Element Code: ABPAU01010	
Occurrence Number: 21	Occurrence Last Updated: 2007-11-01	

Scientific Name: <i>Progne subis</i>	Common Name: purple martin
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat: INHABITS WOODLANDS, LOW ELEVATION CONIFEROUS FOREST OF DOUGLAS-FIR, PONDEROSA PINE, & MONTEREY PINE.	Micro Habitat: NESTS IN OLD WOODPECKER CAVITIES MOSTLY, ALSO IN HUMAN-MADE STRUCTURES. NEST OFTEN LOCATED IN TALL, ISOLATED TREE/SNAG.
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Last Date Observed: 2003-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-XX-XX	Occurrence Rank: Unknown
Owner/Manager: CALTRANS	Trend: Unknown
Presence: Presumed Extant	

Location:
CAPITAL CITY FREEWAY (BUSINESS I-80), BETWEEN "R" AND "S" STREETS, SACRAMENTO.

Detailed Location:

Ecological:

BIRDS ARE NESTING IN WEEP HOLES IN FREEWAY & STREET OVERPASSES. WEEP HOLES ARE VERTICAL HOLES CONSTRUCTED INTO THE UNDERSIDE OF SOME HOLLOW BOX GIRDER ELEVATED FREEWAYS, OVERPASSES & BRIDGES TO RELIEVE AIR PRESSURE & DRAIN CONDENSATION.

Threats:

General:

SITE WAS SURVEYED IN 1992, BUT NO MARTINS WERE FOUND. 14 ADULTS ESTIMATED IN 2002. SITES MONITORED EVERY 4-8 DAYS FROM MID-MAY TO EARLY AUG 2003; 14 PAIRS OBSERVED NESTING.

PLSS: T08N, R05E, Sec. 07 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4269487 E633191	Latitude/Longitude: 38.56385 / -121.47122	Elevation (feet): 26

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

AIR03A0001	AIROLA, D.A. & J. GRANTHAM - PURPLE MARTIN POPULATION STATUS, NESTING HABITAT CHARACTERISTICS, AND MANAGEMENT IN SACRAMENTO, CALIFORNIA (WESTERN BIRDS VOL. 34, NO. 4, PP. 235-251). 2003-XX-XX
LEE03A0001	LEEMAN, T., D. AIROLA & D. KOPP - STATUS OF BREEDING PURPLE MARTINS IN SACRAMENTO IN 2003 (CVBC BULLETIN VOL. 6, NO. 4, P. 61-68). 2003-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 54700	EO Index: 54700
Key Quad: Sacramento East (3812154)	Element Code: ABPAU01010
Occurrence Number: 22	Occurrence Last Updated: 2007-11-01

Scientific Name: <i>Progne subis</i>	Common Name: purple martin
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat: INHABITS WOODLANDS, LOW ELEVATION CONIFEROUS FOREST OF DOUGLAS-FIR, PONDEROSA PINE, & MONTEREY PINE.	Micro Habitat: NESTS IN OLD WOODPECKER CAVITIES MOSTLY, ALSO IN HUMAN-MADE STRUCTURES. NEST OFTEN LOCATED IN TALL, ISOLATED TREE/SNAG.
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Last Date Observed: 2003-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-XX-XX	Occurrence Rank: Unknown
Owner/Manager: CALTRANS	Trend: Unknown
Presence: Presumed Extant	

Location:
EASTBOUND HWY 50 OFFRAMP TO SOUTHBOUND HWY 99 AND NORTHBOUND HWY 99 OFFRAMP TO EASTBOUND HWY 50, SACRAMENTO.

Detailed Location:
BROADWAY SITE.

Ecological:
BIRDS ARE NESTING IN WEEP HOLES IN FREEWAY & STREET OVERPASSES. WEEP HOLES ARE VERTICAL HOLES CONSTRUCTED INTO THE UNDERSIDE OF SOME HOLLOW BOX GIRDER ELEVATED FREEWAYS, OVERPASSES & BRIDGES TO RELIEVE AIR PRESSURE & DRAIN CONDENSATION.

Threats:
General:
ESTIMATED 14 ADULTS IN 1992. ESTIMATED 10 ADULTS IN 1993. ESTIMATED 4 ADULTS IN 1994. ESTIMATED 3 ADULTS IN 1995. ESTIMATED 8 ADULTS IN 2002. SITES MONITORED EVERY 4-8 DAYS FROM MID-MAY TO EARLY AUG 2003; 7 PAIRS OBSERVED NESTING.

PLSS: T08N, R05E, Sec. 07 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4268799 E632956	Latitude/Longitude: 38.55769 / -121.47405	Elevation (feet): 27

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

AIR03A0001	AIROLA, D.A. & J. GRANTHAM - PURPLE MARTIN POPULATION STATUS, NESTING HABITAT CHARACTERISTICS, AND MANAGEMENT IN SACRAMENTO, CALIFORNIA (WESTERN BIRDS VOL. 34, NO. 4, PP. 235-251). 2003-XX-XX
LEE03A0001	LEEMAN, T., D. AIROLA & D. KOPP - STATUS OF BREEDING PURPLE MARTINS IN SACRAMENTO IN 2003 (CVBC BULLETIN VOL. 6, NO. 4, P. 61-68). 2003-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 54701	EO Index: 54701
Key Quad: Sacramento East (3812154)	Element Code: ABPAU01010
Occurrence Number: 23	Occurrence Last Updated: 2007-11-01

Scientific Name: <i>Progne subis</i>	Common Name: purple martin
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat: INHABITS WOODLANDS, LOW ELEVATION CONIFEROUS FOREST OF DOUGLAS-FIR, PONDEROSA PINE, & MONTEREY PINE.	Micro Habitat: NESTS IN OLD WOODPECKER CAVITIES MOSTLY, ALSO IN HUMAN-MADE STRUCTURES. NEST OFTEN LOCATED IN TALL, ISOLATED TREE/SNAG.
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Last Date Observed: 2003-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SUTTERVILLE ROAD OVER THE UNION PACIFIC RAIL YARD, WEST OF HIGHWAY 99, SACRAMENTO.

Detailed Location:

Ecological:

BIRDS ARE NESTING IN WEEP HOLES IN FREEWAY & STREET OVERPASSES. WEEP HOLES ARE VERTICAL HOLES CONSTRUCTED INTO THE UNDERSIDE OF SOME HOLLOW BOX GIRDER ELEVATED FREEWAYS, OVERPASSES & BRIDGES TO RELIEVE AIR PRESSURE & DRAIN CONDENSATION.

Threats:

General:

SITE WAS SURVEYED IN 1992, BUT NO MARTINS FOUND. 4 ADULTS ESTIMATED IN 2002. SITES MONITORED EVERY 4-8 DAYS FROM MID-MAY TO EARLY AUG 2003; 6 PAIRS OBSERVED NESTING.

PLSS: T08N, R04E, Sec. 13 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4266763 E632094	Latitude/Longitude: 38.53948 / -121.48432	Elevation (feet): 27

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

AIR03A0001	AIROLA, D.A. & J. GRANTHAM - PURPLE MARTIN POPULATION STATUS, NESTING HABITAT CHARACTERISTICS, AND MANAGEMENT IN SACRAMENTO, CALIFORNIA (WESTERN BIRDS VOL. 34, NO. 4, PP. 235-251). 2003-XX-XX
LEE03A0001	LEEMAN, T., D. AIROLA & D. KOPP - STATUS OF BREEDING PURPLE MARTINS IN SACRAMENTO IN 2003 (CVBC BULLETIN VOL. 6, NO. 4, P. 61-68). 2003-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 54702	EO Index: 54702
Key Quad: Sacramento East (3812154)	Element Code: ABPAU01010
Occurrence Number: 24	Occurrence Last Updated: 2007-11-01

Scientific Name: <i>Progne subis</i>	Common Name: purple martin
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat: INHABITS WOODLANDS, LOW ELEVATION CONIFEROUS FOREST OF DOUGLAS-FIR, PONDEROSA PINE, & MONTEREY PINE.	Micro Habitat: NESTS IN OLD WOODPECKER CAVITIES MOSTLY, ALSO IN HUMAN-MADE STRUCTURES. NEST OFTEN LOCATED IN TALL, ISOLATED TREE/SNAG.
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Last Date Observed: 2003-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-XX-XX	Occurrence Rank: Unknown
Owner/Manager: CALTRANS	Trend: Unknown
Presence: Presumed Extant	

Location:
HWY 50 BETWEEN 18TH AND 20TH STREETS, SACRAMENTO.

Detailed Location:

Ecological:

BIRDS ARE NESTING IN WEEP HOLES IN FREEWAY & STREET OVERPASSES. WEEP HOLES ARE VERTICAL HOLES CONSTRUCTED INTO THE UNDERSIDE OF SOME HOLLOW BOX GIRDER ELEVATED FREEWAYS, OVERPASSES & BRIDGES TO RELIEVE AIR PRESSURE & DRAIN CONDENSATION.

Threats:

General:
38 PAIRS ESTIMATED IN 1992. 48 PAIRS ESTIMATED IN 1993. 39 PAIRS ESTIMATED IN 1994. 40 PAIRS ESTIMATED IN 1995. 14 PAIRS ESTIMATED IN 2002. SITES MONITORED EVERY 4-8 DAYS FROM MID-MAY TO EARLY AUG 2003; 21 PAIRS OBSERVED NESTING.

PLSS: T08N, R04E, Sec. 12 (M)	Accuracy: specific area	Area (acres): 15
UTM: Zone-10 N4269274 E631782	Latitude/Longitude: 38.56215 / -121.48743	Elevation (feet): 23

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

AIR03A0001	AIROLA, D.A. & J. GRANTHAM - PURPLE MARTIN POPULATION STATUS, NESTING HABITAT CHARACTERISTICS, AND MANAGEMENT IN SACRAMENTO, CALIFORNIA (WESTERN BIRDS VOL. 34, NO. 4, PP. 235-251). 2003-XX-XX
LEE03A0001	LEEMAN, T., D. AIROLA & D. KOPP - STATUS OF BREEDING PURPLE MARTINS IN SACRAMENTO IN 2003 (CVBC BULLETIN VOL. 6, NO. 4, P. 61-68). 2003-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 54703	EO Index: 54703
Key Quad: Sacramento West (3812155)	Element Code: ABPAU01010
Occurrence Number: 25	Occurrence Last Updated: 2007-11-01

Scientific Name: <i>Progne subis</i>	Common Name: purple martin
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat: INHABITS WOODLANDS, LOW ELEVATION CONIFEROUS FOREST OF DOUGLAS-FIR, PONDEROSA PINE, & MONTEREY PINE.	Micro Habitat: NESTS IN OLD WOODPECKER CAVITIES MOSTLY, ALSO IN HUMAN-MADE STRUCTURES. NEST OFTEN LOCATED IN TALL, ISOLATED TREE/SNAG.
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Last Date Observed: 2003-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-XX-XX	Occurrence Rank: Unknown
Owner/Manager: CALTRANS	Trend: Unknown
Presence: Presumed Extant	

Location:
I-5 AT I STREET & I STREET BRIDGE RAMP ABOVE THE CALIFORNIA STATE RAILROAD MUSEUM PARKING LOT, SACRAMENTO.

Detailed Location:
BIRDS ARE NESTING IN WEEP HOLES IN FREEWAY & STREET OVERPASSES. WEEP HOLES ARE VERTICAL HOLES CONSTRUCTED INTO THE UNDERSIDE OF SOME HOLLOW BOX GIRDER ELEVATED FREEWAYS, OVERPASSES & BRIDGES TO RELIEVE AIR PRESSURE & DRAIN CONDENSATION.

Ecological:
Threats:
General:

29 PAIRS ESTIMATED IN 1992. 25 PAIRS ESTIMATED IN 1994. 21 PAIRS ESTIMATED IN 1995. 37 PAIRS ESTIMATED IN 2002. SITES MONITORED EVERY 4-8 DAYS FROM MID-MAY TO EARLY AUG 2003; 29 PAIRS OBSERVED NESTING.

PLSS: T09N, R04E, Sec. 35 (M)	Accuracy: specific area	Area (acres): 14
UTM: Zone-10 N4271777 E630346	Latitude/Longitude: 38.58491 / -121.50344	Elevation (feet): 24

County Summary: Sacramento	Quad Summary: Sacramento West (3812155)
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Sources:

AIR03A0001	AIROLA, D.A. & J. GRANTHAM - PURPLE MARTIN POPULATION STATUS, NESTING HABITAT CHARACTERISTICS, AND MANAGEMENT IN SACRAMENTO, CALIFORNIA (WESTERN BIRDS VOL. 34, NO. 4, PP. 235-251). 2003-XX-XX
LEE03A0001	LEEMAN, T., D. AIROLA & D. KOPP - STATUS OF BREEDING PURPLE MARTINS IN SACRAMENTO IN 2003 (CVBC BULLETIN VOL. 6, NO. 4, P. 61-68). 2003-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11013	EO Index:	6822
Key Quad:	Citrus Heights (3812163)	Element Code:	ABPAU08010
Occurrence Number:	76	Occurrence Last Updated:	2012-11-20

Scientific Name:	<i>Riparia riparia</i>	Common Name:	bank swallow
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S2	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
COLONIAL NESTER; NESTS PRIMARILY IN RIPARIAN AND OTHER LOWLAND HABITATS WEST OF THE DESERT.	REQUIRES VERTICAL BANKS/CLIFFS WITH FINE-TEXTURED/SANDY SOILS NEAR STREAMS, RIVERS, LAKES, OCEAN TO DIG NESTING HOLE.

Last Date Observed:	2002-04-14	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-04-14	Occurrence Rank:	Good
Owner/Manager:	SAC COUNTY	Trend:	Stable
Presence:	Presumed Extant		

Location:
NORTH SIDE OF THE AMERICAN RIVER, JUST DOWNSTREAM FROM THE SAN JUAN RAPIDS, AMERICAN RIVER PARKWAY, FAIR OAKS.

Detailed Location:
MAPPED TO 1989 MAPS. 1920 SPECIMEN LOCALITY GIVEN AS "SAN JUAN" AND 1985 RECORD STATED AS "SAN JUAN RAPIDS, AM RIVER PKWAY;" EXACT LOCATIONS UNK. SAN JUAN RAPIDS IS AT THE S END OF SAN JUAN AVE. SAN JUAN LAND GRANT WAS N SIDE OF RIVER.

Ecological:
HABITAT CONSISTED OF A VERTICAL BLUFF, CONTAINING 40-50 NEST HOLES (1989); SEVERAL LARGE COTTONWOODS RISE UP FROM THE RIVER'S EDGE IN CLOSE PROXIMITY TO THE NEST SITE. SITE LIKELY OPPOSITE ROSSMOOR BAR.

Threats:
POSSIBLE THREAT FROM HUMANS, AS SITE IS JUST BELOW SOME PRIVATE RESIDENCES.

General:
5 EGGS COLL (CAS #8557) 7 MAY 1920. NESTING COLONY WITH 20 BIRDS OBSERVED 1985. 20 ADULTS FORAGING W/ NORTHERN ROUGH-WINGED SWALLOWS & ENTERING BURROWS 15 APR 1989; 40 ADULTS FORAGING 6 MAY 1989. 15-20 PAIRS AT COLONY 14 APR 2002.

PLSS:	T09N, R06E, Sec. 14 (M)	Accuracy:	specific area	Area (acres):	26
UTM:	Zone-10 N4277133 E648536	Latitude/Longitude:	38.63030 / -121.29354	Elevation (feet):	100

County Summary:	Quad Summary:
Sacramento	Citrus Heights (3812163)

Sources:

HUM86U0001	HUMPHREY, J. - COMPILATION OF BANK SWALLOW LOCALITIES FOR 1971-1986. 1986-XX-XX
JOH02U0001	JOHNSON, D. - EMAIL TO CENTRAL VALLEY BIRD CLUB LIST SERVE REGARDING BANK SWALLOWS NESTING NEAR ROSSMOOR BAR, AMERICAN RIVER, CA. 2002-04-14
JOH89F0006	JOHNSON, D.L. - FIELD SURVEY FORM FOR RIPARIA RIPARIA (NESTING COLONY) 1989-05-06
TRU20S0001	TRUESDALE, F. (CALIFORNIA ACADEMY OF SCIENCES) - CAS EGG SET COLLECTION #8557 FOR RIPARIA RIPARIA FROM "SAN JUAN, SACRAMENTO CO." COLLECTED BY F. TRUESDALE ON 7 MAY 1920. 1920-05-07
WAR89F0001	WARENYCIA, D. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR RIPARIA RIPARIA (NESTING COLONY) 1989-04-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11372	EO Index: 12978
Key Quad: Sacramento East (3812154)	Element Code: ABPAU08010
Occurrence Number: 94	Occurrence Last Updated: 2013-07-11

Scientific Name: <i>Riparia riparia</i>	Common Name: bank swallow
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S2	

General Habitat: COLONIAL NESTER; NESTS PRIMARILY IN RIPARIAN AND OTHER LOWLAND HABITATS WEST OF THE DESERT.	Micro Habitat: REQUIRES VERTICAL BANKS/CLIFFS WITH FINE-TEXTURED/SANDY SOILS NEAR STREAMS, RIVERS, LAKES, OCEAN TO DIG NESTING HOLE.
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Last Date Observed: 1986-06-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1986-06-01	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH SIDE OF AMERICAN RIVER UPSTREAM FROM CAL EXPO, NEAR BUSINESS 80 BRIDGE.

Detailed Location:

Ecological:
42 BURROWS WITHIN A 200 FT SECTION OF BANK, ABOUT 25 BURROWS WERE WITHIN A 30 FT SECTION. THE SITE WAS RIPRAPPED BEFORE WINTER OF 1986.

Threats:
THREATENED BY DESTRUCTION OF SUITABLE HABITAT BY INSTALLATION OF RIPRAP.

General:
42 BURROWS WITH 30 BIRDS; VISIBLE FROM THE BUSINESS 80 BRIDGE (NOT A RECOMMENDED VIEWING LOCATION!).

PLSS: T09N, R05E, Sec. 33 (M)	Accuracy: nonspecific area	Area (acres): 30
UTM: Zone-10 N4271808 E635575	Latitude/Longitude: 38.58441 / -121.44342	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

EBI86U0002	EBIRD - D. AIROLA'S CHECKLIST S8804971 FROM EBIRD: AN ONLINE DATABASE OF BIRD DISTRIBUTION AND ABUNDANCE. ITHACA, NEW YORK. AVAILABLE: HTTP://WWW.EBIRD.ORG . (ACCESSED: 2013-03-21) 1986-06-01
HUM86U0001	HUMPHREY, J. - COMPILATION OF BANK SWALLOW LOCALITIES FOR 1971-1986. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 25468	EO Index: 6906
Key Quad: Citrus Heights (3812163)	Element Code: ABPAU08010
Occurrence Number: 197	Occurrence Last Updated: 2012-11-20

Scientific Name: <i>Riparia riparia</i>	Common Name: bank swallow
Listing Status:	Rare Plant Rank:
Federal: None	
State: Threatened	Other Lists: BLM_S-Sensitive IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5	
State: S2	

General Habitat: COLONIAL NESTER; NESTS PRIMARILY IN RIPARIAN AND OTHER LOWLAND HABITATS WEST OF THE DESERT.	Micro Habitat: REQUIRES VERTICAL BANKS/CLIFFS WITH FINE-TEXTURED/SANDY SOILS NEAR STREAMS, RIVERS, LAKES, OCEAN TO DIG NESTING HOLE.
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Last Date Observed: 1990-04-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1990-04-27	Occurrence Rank: Good
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH SIDE OF THE AMERICAN RIVER, 0.6 MILE UPSTREAM FROM THE SUNRISE BLVD BRIDGE, AMERICAN RIVER PARKWAY, FAIR OAKS.

Detailed Location:
MAPPED TO PROVIDED MAP. 1920 SPECIMEN LOCALITY GIVEN AS "SAN JUAN;" EXACT LOCATION UNKNOWN. UPPER SUNRISE AREA OF AMERICAN RIVER PARKWAY.

Ecological:
A RECENTLY-ERODED SANDY BLUFF (1990), 12-15 FT HIGH; NEARBY VEGETATION INCLUDED A BROAD BAND OF DECIDUOUS RIPARIAN FOREST & A NARROW BAND OF GRASS/THISTLE. LOCATED ALONG THE AMERICAN RIVER PARKWAY WITH LOTS OF RECREATION (CYCLING, RAFTING).

Threats:
MAIN THREAT TO THE SITE IS FROM HUMAN RECREATION.

General:
5 EGGS COLL (CAS #8557) 7 MAY 1920. 8 ADULTS OBSERVED ENTERING BURROWS 7 MAY 1989; 15-20 BIRDS OBS DURING A FOLLOW-UP VISIT IN JUNE 1989. A MIXED GROUP OF BANK SWALLOWS (15-20 MINIMUM) AND NORTHERN ROUGH-WINGED SWALLOWS OBS 27 APRIL 1990.

PLSS: T09N, R07E, Sec. 18 (M)	Accuracy: specific area	Area (acres): 17
UTM: Zone-10 N4277978 E651546	Latitude/Longitude: 38.63740 / -121.25878	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Citrus Heights (3812163)
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Sources:

MOH89F0004	MOHR, B. - FIELD SURVEY FORM FOR RIPARIA RIPARIA (NESTING COLONY) 1989-06-XX
SOG90F0003	SOGGE, M. & L. KOSH - FIELD SURVEY FORM FOR RIPARIA RIPARIA (NESTING COLONY) 1990-04-27
TRU20S0001	TRUESDALE, F. (CALIFORNIA ACADEMY OF SCIENCES) - CAS EGG SET COLLECTION #8557 FOR RIPARIA RIPARIA FROM "SAN JUAN, SACRAMENTO CO." COLLECTED BY F. TRUESDALE ON 7 MAY 1920. 1920-05-07



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	33222	EO Index:	2603
Key Quad:	Carmichael (3812153)	Element Code:	ABPAU08010
Occurrence Number:	199	Occurrence Last Updated:	2012-11-20

Scientific Name:	<i>Riparia riparia</i>	Common Name:	bank swallow
Listing Status:	Federal: None State: Threatened	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S2	Other Lists:	BLM_S-Sensitive IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
COLONIAL NESTER; NESTS PRIMARILY IN RIPARIAN AND OTHER LOWLAND HABITATS WEST OF THE DESERT.	REQUIRES VERTICAL BANKS/CLIFFS WITH FINE-TEXTURED/SANDY SOILS NEAR STREAMS, RIVERS, LAKES, OCEAN TO DIG NESTING HOLE.

Last Date Observed:	1995-06-12	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1995-06-12	Occurrence Rank:	Good
Owner/Manager:	SAC COUNTY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 AMERICAN RIVER, AT THE DOWNSTREAM END OF SUICIDE BEND, AMERICAN RIVER PARKWAY.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES AND MAP FOR 1995. 1920 SPECIMEN LOCALITY GIVEN AS "SAN JUAN;" EXACT LOCATION UNKNOWN.

Ecological:
 HABITAT CONSISTED OF A VERTICAL, SW-FACING SANDY BANK SURROUNDED BY RIPARIAN WOODLAND.

Threats:
 POSSIBLE THREATS INCLUDE HEAVY RECREATIONAL USE OF RIVER AND SURROUNDING AREA BY RAFTERS.

General:
 5 EGGS COLLECTED (CAS #8557) IN THE VICINITY OF SAN JUAN 7 MAY 1920. 10 ADULTS OBSERVED NESTING AND FORAGING ON 12 JUNE 1995.

PLSS:	T09N, R06E, Sec. 23 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4276424 E648890	Latitude/Longitude:	38.62385 / -121.28962	Elevation (feet):	70

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

PER95F0001	PERRINE, P., B. BABA & T. CHAPPELLE - FIELD SURVEY FORM FOR RIPARIA RIPARIA (COLONY SITE) 1995-06-12
TRU20S0001	TRUESDALE, F. (CALIFORNIA ACADEMY OF SCIENCES) - CAS EGG SET COLLECTION #8557 FOR RIPARIA RIPARIA FROM "SAN JUAN, SACRAMENTO CO." COLLECTED BY F. TRUESDALE ON 7 MAY 1920. 1920-05-07



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 83248

EO Index: 84261

Key Quad: Sacramento West (3812155)

Element Code: ABPBW01114

Occurrence Number: 328

Occurrence Last Updated: 2011-06-29

Scientific Name: *Vireo bellii pusillus*

Common Name: least Bell's vireo

Listing Status: **Federal:** Endangered

Rare Plant Rank:

State: Endangered

Other Lists: IUCN_NT-Near Threatened
NABCI_YWL-Yellow Watch List

CNDDB Element Ranks: **Global:** G5T2

State: S2

General Habitat:

SUMMER RESIDENT OF SOUTHERN CALIFORNIA IN LOW RIPARIAN IN VICINITY OF WATER OR IN DRY RIVER BOTTOMS; BELOW 2000 FT.

Micro Habitat:

NESTS PLACED ALONG MARGINS OF BUSHES OR ON TWIGS PROJECTING INTO PATHWAYS, USUALLY WILLOW, BACCHARIS, MESQUITE.

Last Date Observed: 2011-06-18

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2011-06-18

Occurrence Rank: Good

Owner/Manager: DFG-YOLO BYPASS WA

Trend: Unknown

Presence: Presumed Extant

Location:

ALONG SOUTH FORK PUTAH CREEK, PUTAH CREEK SINKS, 3.6 MILES SSE OF I-80 AT COUNTY RD 32B/32A, YOLO BYPASS WILDLIFE AREA.

Detailed Location:

ACCESSED FROM PARKING LOT G. MAPPED TO PROVIDED COORDINATES.

Ecological:

HABITAT WAS DESCRIBED AS RIPARIAN SCRUB (SANDBAR WILLOW WAS DOMINANT; BLACK WILLOW, WILD ROSE, BLACKBERRY, WITH SCATTERED OREGON ASH, FREMONT'S COTTONWOOD) ADJACENT TO RIVERINE AND FRESHWATER MARSH. FIRST YOL LBVI TERRITORIES IN DECADES.

Threats:

BROWN-HEADED COWBIRDS WERE NUMEROUS AND ARE A KNOWN AND COMMON THREAT TO LEAST BELL'S VIREO.

General:

2 SEPARATE SINGING MALES WERE DETECTED BY MANY OBSERVERS FROM 17 APR TO 4 AUG 2010. THE FOLLOWING YEAR, THE PRESUMED SAME MALES WERE DETECTED BY MANY OBSERVERS FROM 7 MAY TO 18 JUN 2011. THE BIRDS WERE TERRITORIAL, BUT NEST FATE IS UNKNOWN.

PLSS: T08N, R03E, Sec. 26 (M)

Accuracy: specific area

Area (acres): 10

UTM: Zone-10 N4263707 E620401

Latitude/Longitude: 38.51361 / -121.61898

Elevation (feet): 15

County Summary:

Quad Summary:

Yolo

Sacramento West (3812155)

Sources:

- HUB10U0001 HUBER, S. - EMAIL FROM S. HUBER TO CENTRAL VALLEY BIRD CLUB REGARDING LBVI IN YOLO COUNTY. 2010-04-28
- WHI10F0008 WHISLER, E. - FIELD SURVEY FORM FOR VIREO BELLII PUSILLUS 2010-06-26
- WHI10F0009 WHISLER, E. - FIELD SURVEY FORM FOR VIREO BELLII PUSILLUS 2010-06-26
- WHI10U0003 WHISLER, E. - EMAIL FROM E. WHISLER TO CENTRAL VALLEY BIRD CLUB REGARDING LBVI IN YOLO COUNTY. 2010-04-17
- WHI10U0004 WHISLER, E. - EMAIL FROM E. WHISLER TO CENTRAL VALLEY BIRD CLUB REGARDING LBVI IN YOLO COUNTY. 2010-08-04
- WHI11U0002 WHISLER, E. - EMAIL FROM E. WHISLER TO CENTRAL VALLEY BIRD CLUB REGARDING LBVI IN YOLO COUNTY. 2011-05-07
- WHI11U0003 WHISLER, E. - EMAIL FROM E. WHISLER TO CENTRAL VALLEY BIRD CLUB REGARDING LBVI IN YOLO COUNTY. 2011-06-18



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	91654	EO Index:	92725
Key Quad:	Sacramento West (3812155)	Element Code:	ABPBW01114
Occurrence Number:	515	Occurrence Last Updated:	2014-02-19

Scientific Name:	<i>Vireo bellii pusillus</i>		
Common Name:	least Bell's vireo		
Listing Status:	Federal:	Endangered	Rare Plant Rank:
	State:	Endangered	Other Lists:
CNDDB Element Ranks:	Global:	G5T2	IUCN_NT-Near Threatened NABCI_YWL-Yellow Watch List
	State:	S2	

General Habitat:	Micro Habitat:
SUMMER RESIDENT OF SOUTHERN CALIFORNIA IN LOW RIPARIAN IN VICINITY OF WATER OR IN DRY RIVER BOTTOMS; BELOW 2000 FT.	NESTS PLACED ALONG MARGINS OF BUSHES OR ON TWIGS PROJECTING INTO PATHWAYS, USUALLY WILLOW, BACCHARIS, MESQUITE.

Last Date Observed:	1877-04-10	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1877-04-10	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WASHINGTON (=BRODERICK NEIGHBORHOOD OF WEST SACRAMENTO).

Detailed Location:
EXACT LOCATION UNKNOWN. SPECIMEN LOCALE STATED AS "WASHINGTON, YOLO CO." PROBABLY COLLECTED FROM RIPARIAN VEGETATION ALONG THE SACRAMENTO RIVER.

Ecological:

Threats:

General:

TWO ADULT MALES WERE COLLECTED ON 10 APR 1877 AND DEPOSITED AT CAS; COLLECTOR UNKNOWN.

PLSS:	T09N, R04E, Sec. 34 (M)	Accuracy:	1 mile	Area (acres):	0
UTM:	Zone-10 N4272606 E628512	Latitude/Longitude:	38.59265 / -121.52434	Elevation (feet):	15

County Summary:	Quad Summary:
Sacramento, Yolo	Sacramento West (3812155)

Sources:
ANO77S0001 ANONYMOUS (CALIFORNIA ACADEMY OF SCIENCES) - CAS #18503 AND CAS #18504 COLLECTED FROM WASHINGTON, YOLO CO. 1877-04-10



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 90027
Key Quad: Florin (3812144)
Occurrence Number: 77

EO Index: 91040
Element Code: ABPBXA3010
Occurrence Last Updated: 2013-08-13

Scientific Name: *Melospiza melodia*

Common Name: song sparrow ("Modesto" population)

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G5
 State: S3?

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern

General Habitat:

Micro Habitat:

Last Date Observed: 2009-04-03
Last Survey Date: 2009-04-03
Owner/Manager: USFWS-STONE LAKES NWR
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 STONE LAKES NWR, JUST W OF I-5 AT LAGUNA BLVD, 1.75-2 MI E OF CLARKSBURG.

Detailed Location:

MAPPED TO INCLUDE PROVIDED COORDINATES. DWR DETERMINED DETECTIONS WERE FOR "MODESTO" POPULATION BASED ON LOCATION. ONLY BIRDS DETECTED WITH NESTING BEHAVIOR WERE MAPPED.

Ecological:

HABITAT DESCRIBED AS RIPARIAN SHRUB-SCRUB AND TREES. GRINNELL (1923) DESCRIBED M. M. MAILLIARDI AS SLIGHTLY DIFFERENT FROM SSP. HEERMANNI; PATTEN (2009) STATED MAILLIARDI SPECIMENS WERE "INDISTINGUISHABLE FROM...HEERMANNII."

Threats:

General:
 7 DETECTED AND DETERMINED TO BE NESTING IN AREA 3 APR 2009. 2 & 21 SONG SPARROWS (UNCERTAIN SUBSPECIES, BUT ASSUMED TO BE OF "MODESTO" POPULATION) PERCHED IN THE AREA 3 & 30 APR 2009.

PLSS: T07N, R04E, Sec. 36 (M)	Accuracy: nonspecific area	Area (acres): 40
UTM: Zone-10 N4253852 E631486	Latitude/Longitude: 38.42326 / -121.49372	Elevation (feet): 5

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

- DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23
- GRI23A0001 GRINNELL, J. (MUSEUM OF VERTEBRATE ZOOLOGY) - NOTES ON SOME BIRDS OBSERVED IN THE VICINITY OF COLUSA, CALIFORNIA. CONDOR 25(5):172-176. 1923-05-12
- PAT09A0001 PATTEN, M. & C. PRUETT - THE SONG SPARROW, MELOSPIZA MELODIA, AS A RING SPECIES: PATTERNS OF GEOGRAPHIC VARIATION, A REVISION OF SUBSPECIES, AND IMPLICATIONS FOR SPECIATION. SYST. AND BIODIV. 7(1)33-62. 2009-02-22



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 90029
Key Quad: Florin (3812144)
Occurrence Number: 78

EO Index: 91042
Element Code: ABPBXA3010
Occurrence Last Updated: 2013-08-13

Scientific Name: *Melospiza melodia*

Common Name: song sparrow ("Modesto" population)

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G5
 State: S3?

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern

General Habitat:

Micro Habitat:

Last Date Observed: 2009-06-11
Last Survey Date: 2009-06-11
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

JUST NW OF I-5 AT LAGUNA BLVD, 2 MI NE OF CLARKSBURG.

Detailed Location:

MAPPED TO INCLUDE PROVIDED COORDINATES. DWR DETERMINED DETECTIONS WERE FOR "MODESTO" POPULATION BASED ON LOCATION. ONLY BIRDS DETECTED WITH NESTING BEHAVIOR WERE MAPPED.

Ecological:

HABITAT DESCRIBED AS MARSH AND RIPARIAN TREES. GRINNELL (1923) DESCRIBED M. M. MAILLIARDI AS SLIGHTLY DIFFERENT FROM SSP. HEERMANNI; PATTEN (2009) STATED MAILLIARDI SPECIMENS WERE "INDISTINGUISHABLE FROM...HEERMANNII."

Threats:

General:

7-33 DETECTED AND DETERMINED TO BE NESTING IN AREA 19 MAY & 11 JUN 2009. 2-27 SONG SPARROWS (UNCERTAIN SUBSPECIES, BUT ASSUMED TO BE OF "MODESTO" POPULATION) PERCHED IN THE AREA 20 APR-19 MAY 2009.

PLSS: T07N, R04E, Sec. 25 (M)

Accuracy: nonspecific area

Area (acres): 87

UTM: Zone-10 N4255308 E631300

Latitude/Longitude: 38.43640 / -121.49558

Elevation (feet): 5

County Summary:

Quad Summary:

Sacramento

Florin (3812144), Clarksburg (3812145)

Sources:

- DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23
- GRI23A0001 GRINNELL, J. (MUSEUM OF VERTEBRATE ZOOLOGY) - NOTES ON SOME BIRDS OBSERVED IN THE VICINITY OF COLUSA, CALIFORNIA. CONDOR 25(5):172-176. 1923-05-12
- PAT09A0001 PATTEN, M. & C. PRUETT - THE SONG SPARROW, MELOSPIZA MELODIA, AS A RING SPECIES: PATTERNS OF GEOGRAPHIC VARIATION, A REVISION OF SUBSPECIES, AND IMPLICATIONS FOR SPECIATION. SYST. AND BIODIV. 7(1)33-62. 2009-02-22



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	90030	EO Index:	91043
Key Quad:	Clarksburg (3812145)	Element Code:	ABPBXA3010
Occurrence Number:	79	Occurrence Last Updated:	2013-08-13

Scientific Name:	<i>Melospiza melodia</i>	Common Name:	song sparrow ("Modesto" population)
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3?	Other Lists:	CDFW_SSC-Species of Special Concern

General Habitat:	<input type="checkbox"/>	Micro Habitat:	<input type="checkbox"/>
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Last Date Observed:	2009-05-19	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2009-05-19	Occurrence Rank:	Unknown
Owner/Manager:	USFWS-STONE LAKES NWR	Trend:	Unknown
Presence:	Presumed Extant		

Location:
0.75 MI W OF I-5 AT LAGUNA BLVD, 1.5 MI NE OF CLARKSBURG.

Detailed Location:
MAPPED TO INCLUDE PROVIDED COORDINATES. DWR DETERMINED DETECTIONS WERE FOR "MODESTO" POPULATION BASED ON LOCATION. ONLY BIRDS DETECTED WITH NESTING BEHAVIOR WERE MAPPED.

Ecological:
HABITAT DESCRIBED AS RIPARIAN TREES. GRINNELL (1923) DESCRIBED M. M. MAILLIARDI AS SLIGHTLY DIFFERENT FROM SSP. HEERMANNI; PATTEN (2009) STATED MAILLIARDI SPECIMENS WERE "INDISTINGUISHABLE FROM...HEERMANNII."

Threats:
General:
4 SONG SPARROWS (UNCERTAIN SUBSPECIES, BUT ASSUMED TO BE OF "MODESTO" POPULATION) PERCHED IN THE AREA 30 APR 2009. 3 DETECTED AND DETERMINED TO BE NESTING IN AREA 19 MAY 2009.

PLSS: T07N, R04E, Sec. 26 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4254478 E630824	Latitude/Longitude: 38.42899 / -121.50119	Elevation (feet): 0

County Summary:	Quad Summary:
Sacramento	Florin (3812144), Clarksburg (3812145)

Sources:

DWR11D0001	CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23
GRI23A0001	GRINNELL, J. (MUSEUM OF VERTEBRATE ZOOLOGY) - NOTES ON SOME BIRDS OBSERVED IN THE VICINITY OF COLUSA, CALIFORNIA. CONDOR 25(5):172-176. 1923-05-12
PAT09A0001	PATTEN, M. & C. PRUETT - THE SONG SPARROW, MELOSPIZA MELODIA, AS A RING SPECIES: PATTERNS OF GEOGRAPHIC VARIATION, A REVISION OF SUBSPECIES, AND IMPLICATIONS FOR SPECIATION. SYST. AND BIODIV. 7(1)33-62. 2009-02-22



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 90031
Key Quad: Clarksburg (3812145)
Occurrence Number: 80

EO Index: 91044
Element Code: ABPBXA3010
Occurrence Last Updated: 2013-08-19

Scientific Name: *Melospiza melodia*

Common Name: song sparrow ("Modesto" population)

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G5
 State: S3?

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern

General Habitat:

Micro Habitat:

Last Date Observed: 2009-04-21
Last Survey Date: 2009-04-21
Owner/Manager: USFWS-STONE LAKES NWR
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

ABOUT 1 MI E OF ELK SLOUGH AT SACRAMENTO RIVER, 1 MI W OF I-5 AT ELK GROVE BLVD, 1.4 MI ESE OF CLARKSBURG.

Detailed Location:

MAPPED TO 2009 COORDINATES FOR "NESTING" BIRDS. DWR DETERMINED DETECTIONS WERE FOR "MODESTO" POPULATION BASED ON LOCATION.

Ecological:

HABITAT DESCRIBED AS MARSH. GRINNELL (1923) DESCRIBED M. M. MAILLIARDI AS SLIGHTLY DIFFERENT FROM SSP. HEERMANNI; PATTEN (2009) STATED MAILLIARDI SPECIMENS WERE "INDISTINGUISHABLE FROM...HEERMANNII."

Threats:

General:

3 DETECTED & DETERMINED AS NESTING IN AREA 21 APR 2009. 1-8 SONG SPARROWS (ASSUMED TO BE OF "MODESTO" POPULATION) PERCHED IN THE AREA 3 APR-14 MAY 2009.

PLSS: T07N, R04E, Sec. 35 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4252610 E630654	Latitude/Longitude: 38.41219 / -121.50349	Elevation (feet): 0

County Summary:

Quad Summary:

Sacramento

Clarksburg (3812145)

Sources:

- DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23
- GRI23A0001 GRINNELL, J. (MUSEUM OF VERTEBRATE ZOOLOGY) - NOTES ON SOME BIRDS OBSERVED IN THE VICINITY OF COLUSA, CALIFORNIA. CONDOR 25(5):172-176. 1923-05-12
- PAT09A0001 PATTEN, M. & C. PRUETT - THE SONG SPARROW, MELOSPIZA MELODIA, AS A RING SPECIES: PATTERNS OF GEOGRAPHIC VARIATION, A REVISION OF SUBSPECIES, AND IMPLICATIONS FOR SPECIATION. SYST. AND BIODIV. 7(1)33-62. 2009-02-22



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	90032	EO Index:	91045
Key Quad:	Clarksburg (3812145)	Element Code:	ABPBXA3010
Occurrence Number:	81	Occurrence Last Updated:	2013-08-13

Scientific Name:	<i>Melospiza melodia</i>	Common Name:	song sparrow ("Modesto" population)
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5 State: S3?	Other Lists:	CDFW_SSC-Species of Special Concern

General Habitat:	<input type="checkbox"/>	Micro Habitat:	<input type="checkbox"/>
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Last Date Observed:	2009-04-21	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2009-04-21	Occurrence Rank:	Unknown
Owner/Manager:	USFWS-STONE LAKES NWR	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ABOUT 1.2 MI SE OF ELK SLOUGH AT SACRAMENTO RIVER, 1.2 MI WSW OF I-5 AT ELK GROVE BLVD, 1.6 MI SE OF CLARKSBURG.

Detailed Location:
 MAPPED TO INCLUDE PROVIDED COORDINATES. DWR DETERMINED DETECTIONS WERE FOR "MODESTO" POPULATION BASED ON LOCATION. ONLY BIRDS DETECTED WITH NESTING BEHAVIOR WERE MAPPED.

Ecological:
 HABITAT DESCRIBED AS MARSH. GRINNELL (1923) DESCRIBED M. M. MAILLIARDI AS SLIGHTLY DIFFERENT FROM SSP. HEERMANNI; PATTEN (2009) STATED MAILLIARDI SPECIMENS WERE "INDISTINGUISHABLE FROM...HEERMANNII."

Threats:
General:
 2 DETECTED AND DETERMINED TO BE NESTING IN AREA 21 APR 2009. 3 SONG SPARROWS (UNCERTAIN SUBSPECIES, BUT ASSUMED TO BE OF "MODESTO" POPULATION) PERCHED IN THE AREA 1 & 28 APR 2009.

PLSS: T06N, R04E, Sec. 02 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4251721 E630546	Latitude/Longitude: 38.40419 / -121.50488	Elevation (feet): 10

County Summary:	Quad Summary:
Sacramento	Clarksburg (3812145)

Sources:

DWR11D0001	CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23
GRI23A0001	GRINNELL, J. (MUSEUM OF VERTEBRATE ZOOLOGY) - NOTES ON SOME BIRDS OBSERVED IN THE VICINITY OF COLUSA, CALIFORNIA. CONDOR 25(5):172-176. 1923-05-12
PAT09A0001	PATTEN, M. & C. PRUETT - THE SONG SPARROW, MELOSPIZA MELODIA, AS A RING SPECIES: PATTERNS OF GEOGRAPHIC VARIATION, A REVISION OF SUBSPECIES, AND IMPLICATIONS FOR SPECIATION. SYST. AND BIODIV. 7(1)33-62. 2009-02-22



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 90033
Key Quad: Clarksburg (3812145)
Occurrence Number: 82

EO Index: 91046
Element Code: ABPBXA3010
Occurrence Last Updated: 2013-08-13

Scientific Name: *Melospiza melodia*

Common Name: song sparrow ("Modesto" population)

Listing Status: **Federal:** None
State: None
CNDDB Element Ranks: **Global:** G5
State: S3?

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern

General Habitat:

Micro Habitat:

Last Date Observed: 2009-05-20
Last Survey Date: 2009-05-20
Owner/Manager: USFWS-STONE LAKES NWR
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

ABOUT 1.8 MI WNW OF I-5 AT HOOD FRANKLIN RD, 2.5 MI SSE OF ELK SLOUGH AT SACRAMENTO RIVER.

Detailed Location:

MAPPED TO INCLUDE PROVIDED COORDINATES. DWR DETERMINED DETECTIONS WERE FOR "MODESTO" POPULATION BASED ON LOCATION. ONLY BIRDS DETECTED WITH NESTING BEHAVIOR WERE MAPPED.

Ecological:

GRINNELL (1923) DESCRIBED M. M. MAILLIARDI AS SLIGHTLY DIFFERENT FROM SSP. HEERMANNI; PATTEN (2009) STATED MAILLIARDI SPECIMENS WERE "INDISTINGUISHABLE FROM...HEERMANNII."

Threats:

General:

1 DETECTED AND DETERMINED TO BE NESTING IN AREA 20 MAY 2009.

PLSS: T06N, R04E, Sec. 11 (M)

Accuracy: 1/10 mile

Area (acres): 0

UTM: Zone-10 N4248972 E630153

Latitude/Longitude: 38.37949 / -121.50989

Elevation (feet): 10

County Summary:

Quad Summary:

Sacramento

Clarksburg (3812145)

Sources:

- DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23
- GRI23A0001 GRINNELL, J. (MUSEUM OF VERTEBRATE ZOOLOGY) - NOTES ON SOME BIRDS OBSERVED IN THE VICINITY OF COLUSA, CALIFORNIA. CONDOR 25(5):172-176. 1923-05-12
- PAT09A0001 PATTEN, M. & C. PRUETT - THE SONG SPARROW, MELOSPIZA MELODIA, AS A RING SPECIES: PATTERNS OF GEOGRAPHIC VARIATION, A REVISION OF SUBSPECIES, AND IMPLICATIONS FOR SPECIATION. SYST. AND BIODIV. 7(1)33-62. 2009-02-22



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 90034

EO Index: 91047

Key Quad: Sacramento East (3812154)

Element Code: ABPBXA3010

Occurrence Number: 83

Occurrence Last Updated: 2013-08-13

Scientific Name: *Melospiza melodia*

Common Name: song sparrow ("Modesto" population)

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: CDFW_SSC-Species of Special Concern

CNDDDB Element Ranks: **Global:** G5

State: S3?

General Habitat:

Micro Habitat:

Last Date Observed: 1900-06-09

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1900-06-09

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

SACRAMENTO.

Detailed Location:

1877 EXPEDITION CONDUCTED AT "VICINITY OF SACRAMENTO CITY...WHERE VEGETATION WAS NOURISHED BY THE PRESENCE OF WATER" AND 1900 SPECIMEN COLLECTED AT "2 MI S SACRAMENTO;" EXACT LOCATIONS UNKNOWN. MAPPED GENERALLY CENTERED ON SACRAMENTO.

Ecological:

NEST "MADE OF DECAYED GRASSES, BITS OF TULE AND DEAD LEAVES. LINING OF FINER STUFF OF THE SAME."

Threats:

DEVELOPMENT HAS REPLACED MUCH OF THE WETLANDS AND OTHER SUITABLE HABITAT IN THE AREA.

General:

FOUND BREEDING AT SACRAMENTO BETWEEN 6 JUN-4 JUL 1877. 3 EGGS COLLECTED (MVZ EGG/NEST #1003) ON 9 JUN 1900 FROM "WHEAT AT EDGE OF FIELD, A FEW FEET FROM BRUSH AND WILLOWS ALONG A CANAL."

PLSS: T08N, R04E, Sec. 01 (M)

Accuracy: 5 miles

Area (acres): 0

UTM: Zone-10 N4270865 E631254

Latitude/Longitude: 38.57656 / -121.49319

Elevation (feet): 20

County Summary:

Quad Summary:

Sacramento, Yolo

Sacramento East (3812154), Sacramento West (3812155), Rio Linda (3812164), Taylor Monument (3812165)

Sources:

ELL00S0001 ELLIOTT, R. (MUSEUM OF VERTEBRATE ZOOLOGY) - MVZ EGG/NEST #1003: MELOSPIZA MELODIA MAILLIARDI FROM SACRAMENTO 2 MI S, SACRAMENTO CO., CALIFORNIA 1900-06-09

RID77A0001 RIDGWAY, R. (SMITHSONIAN INSTITUTION) - REPORT OF THE GEOLOGICAL EXPLORATION OF THE FORTIETH PARALLEL, VOLUME IV: PART III, ORNITHOLOGY. PROFESSIONAL PAPERS OF THE ENGINEER DEPARTMENT, U.S. ARMY, NO. 18. 1877-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	90035	EO Index:	91048
Key Quad:	Sacramento West (3812155)	Element Code:	ABPBXA3010
Occurrence Number:	84	Occurrence Last Updated:	2013-08-13

Scientific Name:	<i>Melospiza melodia</i>	Common Name:	song sparrow ("Modesto" population)
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G5 State: S3?	Other Lists:	CDFW_SSC-Species of Special Concern

General Habitat:	<input type="checkbox"/>	Micro Habitat:	<input type="checkbox"/>
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Last Date Observed:	2011-07-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2011-07-01	Occurrence Rank:	Unknown
Owner/Manager:	DFG-YOLO BYPASS WA	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG SOUTH FORK PUTAH CREEK, ABOUT 2 MI E OF RD 106A, 2.9 MI WNW OF RIVERVIEW, 5.25 MI ENE OF I-5 AT FLORIN RD.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES.

Ecological:
 RIPARIAN SCRUB AND RIVERINE IN YOLO BYPASS WA, SURROUNDED BY AGRICULTURAL CROPLAND. BROWN-HEADED COWBIRDS WERE ABUNDANT IN THE AREA.

Threats:
 POSSIBLY THREATENED BY BROWN-HEADED COWBIRDS.

General:
 2 ADULTS OBSERVED FEEDING 2 FLEDGLINGS ON 1 JUL 2011.

PLSS: T08N, R03E, Sec. 26 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4263652 E621019	Latitude/Longitude: 38.51303 / -121.61191	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
 WHI11F0015 WHISLER, E. - FIELD SURVEY FORM FOR MELOSPIZA MELODIA 2011-07-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 90115	EO Index: 91127
Key Quad: Clarksburg (3812145)	Element Code: ABPBXA3010
Occurrence Number: 92	Occurrence Last Updated: 2013-08-19

Scientific Name: <i>Melospiza melodia</i>	Common Name: song sparrow ("Modesto" population)
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern
CNDDB Element Ranks:	
Global: G5	
State: S3?	

General Habitat:	Micro Habitat:
<input type="checkbox"/>	<input type="checkbox"/>

Last Date Observed: 1927-10-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1927-10-08	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
VICINITY OF CLARKSBURG; BOUNDED BY WINCHESTER LAKE (N), SACRAMENTO RIVER (E), ELK SLOUGH (S), AND MAIN CANAL (W).

Detailed Location:
MAPPED GENERALLY TO SPECIMEN LOCATIONS DESCRIBED AS FOLLOWS: 1912 SPECIMEN COLLECTED AT "CLARKSBURG" & 1927 SPECIMEN COLLECTED AT "6-7.5 MI N COURTLAND." EXACT LOCATIONS UNKNOWN.

Ecological:
THIS AREA IS NOW AGRICULTURAL FIELDS. HISTORIC TOPOGRAPHIC MAP FROM 1914 INDICATES THE AREA MORE AS A WETLAND WITH HISTORIC BIG LAKE, NOW CENTRAL AVE.

Threats:

General:

1 COLLECTED (MVZ #46049) 30 DEC 1912. 5 COLLECTED (MVZ #51637-41) 7 & 8 SEP 1927.

PLSS: T07N, R04E, Sec. 33 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4253196 E627168	Latitude/Longitude: 38.41797 / -121.54329	Elevation (feet): 5

County Summary:	Quad Summary:
Sacramento, Yolo	Clarksburg (3812145)

Sources:

- HAL12S0005 HALL, C. (MUSEUM OF VERTEBRATE ZOOLOGY) - MVZ BIRDS #46049: MELOSPIZA MELODIA MAILLIARDI FROM CLARKSBURG, SACRAMENTO CO., CALIFORNIA 1912-12-30
- LAM27S0001 LAMB, C. (MUSEUM OF VERTEBRATE ZOOLOGY) - MVZ BIRDS #51637: MELOSPIZA MELODIA MAILLIARDI FROM 7.5 MI N COURTLAND, SACRAMENTO CO., CALIFORNIA 1927-09-07
- LAM27S0002 LAMB, C. (MUSEUM OF VERTEBRATE ZOOLOGY) - MVZ BIRDS #51638: MELOSPIZA MELODIA MAILLIARDI FROM 6 MI N COURTLAND, SACRAMENTO CO., CALIFORNIA 1927-09-08
- LAM27S0003 LAMB, C. (MUSEUM OF VERTEBRATE ZOOLOGY) - MVZ BIRDS #51639: MELOSPIZA MELODIA MAILLIARDI FROM 6 MI N COURTLAND, SACRAMENTO CO., CALIFORNIA 1927-09-08
- LAM27S0004 LAMB, C. (MUSEUM OF VERTEBRATE ZOOLOGY) - MVZ BIRDS #51640: MELOSPIZA MELODIA MAILLIARDI FROM 6 MI N COURTLAND, SACRAMENTO CO., CALIFORNIA 1927-09-08
- LAM27S0005 LAMB, C. (MUSEUM OF VERTEBRATE ZOOLOGY) - MVZ BIRDS #51641: MELOSPIZA MELODIA MAILLIARDI FROM 6 MI N COURTLAND, SACRAMENTO CO., CALIFORNIA 1927-09-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11515
Key Quad: Florin (3812144)
Occurrence Number: 6

EO Index: 7319
Element Code: ABPBXB0020
Occurrence Last Updated: 2015-04-02

Scientific Name: *Agelaius tricolor*

Common Name: tricolored blackbird

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2G3
 State: S1S2

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_EN-Endangered
 NABCI_RWL-Red Watch List
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.

Micro Habitat:

REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed: 1998-04-24
Last Survey Date: 2011-04-16
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Fluctuating

Location:
 NEAR STRAWBERRY CREEK, W OF ELK GROVE FLORIN RD, ABOUT 0.5 MI SW OF CALVIN RD INTXN, 0.7 MI NNW OF SHELDON RD INTXN.

Detailed Location:
 MAPPED TO PROVIDED MAPS & LOCATION DESCRIPTION OF "ALONG SOUTHERN PACIFIC RR TRACKS S OF CALVINE RD." DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME "CALVINE ROAD." AREA INCLUDES PORTIONS OF STRAWBERRY CRK & AREA ADJ TO RR.

Ecological:
 NESTING SUBSTRATE CONSISTS OF BLACKBERRIES; REMOVED BY 1993. DOMINANTS INCLUDE BLACKBERRY AND SANFORD'S ARROWHEAD. ASSOCIATES INCLUDE WATER PLANTAIN. SURROUNDING AREA IS HEAVILY DEVELOPED (2002-2013 AERIAL PHOTOS).

Threats:
 THREATENED BY ENCROACHING DEVELOPMENT. REALIGNMENT OF STRAWBERRY CREEK DAMAGED THIS SITE.

General:
 320 NESTED IN 1981. 40 TO SEVERAL HUNDRED NESTED IN 1990-1993. 1,000+ ADS NESTED IN 1993. ~250-3,000 NESTED IN 1994. ~2,300 OBS IN 1995. NESTING OCCURRED IN 1998; COLONY SIZE UNDETERMINED. NONE OBS IN 1997,1999 & 2011.

PLSS: T07N, R05E, Sec. 24 (M)	Accuracy: nonspecific area	Area (acres): 51
UTM: Zone-10 N4256773 E641456	Latitude/Longitude: 38.44805 / -121.37896	Elevation (feet): 35

County Summary:	Quad Summary:
Sacramento	Florin (3812144)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

BEE91R0001	BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
COO94F0006	COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-05-XX
DAI91F0003	DAINS, V. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1991-05-22
DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
HOS86R0001	HOSEA, R.C. - A POPULATION CENSUS OF THE TRICOLORED BLACKBIRD, AGELAIUS TRICOLOR (AUDUBON), IN FOUR COUNTIES IN THE NORTHERN CENTRAL VALLEY OF CALIFORNIA. M.A. THESIS, CSU-SACRAMENTO. 1986-08-14
HOS86U0002	HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX
PRE93F0001	PRESTON, R.E. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1993-05-05
SCH92F0017	SCHNEIDER, T. & M. BARTLETT - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-06-16
SLO04R0001	SLOAT, T. - SOUTH SACRAMENTO HABITAT CONSERVATION PLAN. APPENDIX A: SPECIES ANALYSIS TRICOLORED BLACKBIRD 2004-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX
WYM92F0001	WYMER, N.E. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-05-25
WYM92F0002	WYMER, N. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-06-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11446
Key Quad: Florin (3812144)
Occurrence Number: 7

EO Index: 24793
Element Code: ABPBXB0020
Occurrence Last Updated: 2015-03-27

Scientific Name: *Agelaius tricolor*

Common Name: tricolored blackbird

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2G3
 State: S1S2

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_EN-Endangered
 NABCI_RWL-Red Watch List
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.

Micro Habitat:

REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed: 1981-05-11
Last Survey Date: 2011-04-16
Owner/Manager: PVT
Presence: Possibly Extirpated

Occurrence Type: Natural/Native occurrence
Occurrence Rank: None
Trend: Unknown

Location:

VICINITY OF CALVINE RD AND HWY 99 INTERSECTION, 3.1 MI SW OF FLORIN POST OFFICE, SE OF SACRAMENTO.

Detailed Location:

MAPPED GENERALLY TO PROVIDED COORDINATES AND LOCATION DESCRIPTIONS OF "HIGHWAY 99 & CALVINE RD." DATA ADDITIONALLY STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME WAS "CALVINE ROAD AT HIGHWAY 99."

Ecological:

BLACKBERRIES AND CATTAILS IN 1981. PASTURE IN 1982. 2008-2014 AERIAL PHOTOS SHOW THAT THIS AREA HAS BEEN COMPLETELY DEVELOPED.

Threats:

General:

ABOUT 50 ADULTS WITH FLEDGLING YOUNG NESTING ON 11 MAY 1981; SITE ABANDONED AFTER FLEDGING. A FEEDING FLOCK OF ABOUT 75 BIRDS OBSERVED ON 7 JUN 1982. SEVERAL HUNDRED OBS IN 1991. NONE OBSERVED IN 1992-1994, 1997-1999, AND IN 2011.

PLSS: T07N, R05E, Sec. 14 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4257615 E639143	Latitude/Longitude: 38.45599 / -121.40529	Elevation (feet): 25

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

- BEE91R0001 BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
- HOS86R0001 HOSEA, R.C. - A POPULATION CENSUS OF THE TRICOLORED BLACKBIRD, AGELAIUS TRICOLOR (AUDUBON), IN FOUR COUNTIES IN THE NORTHERN CENTRAL VALLEY OF CALIFORNIA. M.A. THESIS, CSU-SACRAMENTO. 1986-08-14
- SLO04R0001 SLOAT, T. - SOUTH SACRAMENTO HABITAT CONSERVATION PLAN. APPENDIX A: SPECIES ANALYSIS TRICOLORED BLACKBIRD 2004-XX-XX
- TRI14D0001 TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11420	EO Index:	24792
Key Quad:	Bruceville (3812134)	Element Code:	ABPBXB0020
Occurrence Number:	9	Occurrence Last Updated:	2015-04-03

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed:	1981-05-15	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1981-05-15	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 NEAR INTERSECTION OF KAMMERER RD & BRUCEVILLE RD, ~0.7 MI W OF RAU RD, 4.3 MI N OF FRANKLIN FIELD, 5.2 MI E OF HOOD PO.

Detailed Location:
 MAPPED TO PROVIDED LOCATION DESCRIPTION. LOCATION DESCRIBED AS "NEAR INTERSECTION OF KAMMERER RD & BRUCEVILLE RD, 4 MI N OF FRANKLIN FIELD." PROVIDED TRS WAS T 6N, R 5E, S15.

Ecological:
 NESTING OCCURRED IN BLACKBERRY. SIZE OF COLONY APPROXIMATELY 0.25 ACRE.

Threats:
General:
 APPROXIMATELY 100 ADULTS OBSERVED NESTING ON 15 MAY 1981.

PLSS: T06N, R05E, Sec. 15 (M)	Accuracy: 3/5 mile	Area (acres): 0
UTM: Zone-10 N4248330 E638229	Latitude/Longitude: 38.37249 / -121.41758	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento	Bruceville (3812134), Florin (3812144)

Sources:

BEE91R0001 BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX

DFG04U0002 CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX

HOS86R0001 HOSEA, R.C. - A POPULATION CENSUS OF THE TRICOLORED BLACKBIRD, AGELAIUS TRICOLOR (AUDUBON), IN FOUR COUNTIES IN THE NORTHERN CENTRAL VALLEY OF CALIFORNIA. M.A. THESIS, CSU-SACRAMENTO. 1986-08-14



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11708	EO Index: 24789	
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020	
Occurrence Number: 13	Occurrence Last Updated: 2015-05-01	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 2005-06-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-19	Occurrence Rank: None
Owner/Manager: PVT	Trend: Unknown
Presence: Possibly Extirpated	

Location:
-0.6 MI WSW OF EAGLES NEST RD & FLORIN RD INTERSECTION, 1.6 MI NE OF GERBER RD & EXCELSIOR RD INTXN, W OF SLOUGHHOUSE.

Detailed Location:
MAPPED TO POND W/ APPARENT NESTING HABITAT NEAR 1981 LOCATION. 1981 LOCATION DESCRIBED AS "FLORIN RD 0.5 MI FROM EAGLES NEST RD. 2005-2014 LOCATION DESCRIBED AS "S SIDE OF FLORIN RD, BTWN EXCELSIOR RD & EAGLES NEST RD."

Ecological:
POND VISIBLE IN 1993-2014 AERIAL IMAGERY. REPORTED AS "PRESUMED EXTIRPATED" IN 1992. INADEQUATE HABITAT FOR COLONY FORMATION NOTED IN 2011. 2005-2014 DATA STORED IN UC DAVIS TRBL PORTAL, SITE NAME WAS "WAEGELL."

Threats:
General:
NESTING COLONY OF 2,000-3,000 ADULTS OBSERVED IN 1981 (M. MATUS). SITE VISIT ON 16 JUN 1992 FOUND NO BIRDS. ABOUT 10,000 OBSERVED ON 4 JUN 2005; OBSERVED CARRYING NEST MATERIAL/FLEDGLINGS OUT OF NESTS. 15 OBS IN 2011. 0 IN 2008 & 2014.

PLSS: T07N, R06E, Sec. 01 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4262119 E650702	Latitude/Longitude: 38.49469 / -121.27189	Elevation (feet): 100

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

HOS86R0001	HOSIA, R.C. - A POPULATION CENSUS OF THE TRICOLORED BLACKBIRD, AGELAIUS TRICOLOR (AUDUBON), IN FOUR COUNTIES IN THE NORTHERN CENTRAL VALLEY OF CALIFORNIA. M.A. THESIS, CSU-SACRAMENTO. 1986-08-14
SCH92F0018	SCHNEIDER, T. & M. BARTLETT - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-06-16
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11715	EO Index: 24785	
Key Quad: Carmichael (3812153)	Element Code: ABPBXB0020	
Occurrence Number: 15	Occurrence Last Updated: 2015-04-21	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1982-06-05	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-21	Occurrence Rank: None
Owner/Manager: PVT	Trend: Unknown
Presence: Extirpated	

Location:
VICINITY OF WHITE ROCK ROAD & FOLSOM SOUTH CANAL INTERSECTION, 1.3 MI S OF HWY 50 & SUNRISE BLVD INTXN, RANCHO CORDOVA.

Detailed Location:
PROVIDED LOCATION DESCRIPTION WAS "WHITE ROCK RD AND FOLSOM SOUTH CANAL, 1.5 MI NE OF MATHER FIELD." 2011/2014 DATA COLLECTED AS PART OF TRIENNIAL STATEWIDE SURVEYS, DATA STORED IN UC DAVIS TRBL PORTAL.

Ecological:
HABITAT IN 1982 SIMPLY DESCRIBED AS "THISTLES." NO NESTING SUBSTRATE VISIBLE IN 2011, "PLAGUED" BY HEAVY TRAFFIC. COLONY HAD BEEN AT THIS SITE FOR MANY YEARS BUT AREA WAS LEVELED & DISKED FOR DEVELOPMENT INTO A BUSINESS PARK.

Threats:
DEVELOPMENT.

General:
ABOUT 235 TO 270 BIRDS OBSERVED ON 5 JUN 1982; FLEDGLINGS OBSERVED. NONE OBSERVED ON 28 MAR 2011 AND 19 APR 2014.

PLSS: T09N, R06E, Sec. 36 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4272714 E650905	Latitude/Longitude: 38.59009 / -121.26729	Elevation (feet): 115

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
HOS86R0001	HOSEA, R.C. - A POPULATION CENSUS OF THE TRICOLORED BLACKBIRD, AGELAIUS TRICOLOR (AUDUBON), IN FOUR COUNTIES IN THE NORTHERN CENTRAL VALLEY OF CALIFORNIA. M.A. THESIS, CSU-SACRAMENTO. 1986-08-14
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11473
Key Quad: Florin (3812144)
Occurrence Number: 19

EO Index: 24784
Element Code: ABPBXB0020
Occurrence Last Updated: 2015-04-02

Scientific Name: *Agelaius tricolor*

Common Name: tricolored blackbird

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2G3
 State: S1S2

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_EN-Endangered
 NABCI_RWL-Red Watch List
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.

Micro Habitat:

REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed: 1982-06-07

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2014-04-20

Occurrence Rank: None

Owner/Manager: PVT

Trend: Unknown

Presence: Possibly Extirpated

Location:

VICINITY OF SHELDON RD & POWER INN RD INTERSECTION, ABOUT 0.5 MI E OF HWY 99, ELK GROVE.

Detailed Location:

1982 LOCATION DESCRIPTION WAS "ALONG SHELDON ROAD, 0.5 MI E OF HWY 99 (FLORIN, T 7N, R 5E, S26 NNE)." STATEWIDE SUVEY DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME IN PORTAL WAS "SHELDON ROAD AT HIGHWAY 99."

Ecological:

NESTING SUBSTRATE IN 1982 WERE CATTAILS ALONG CULVERT. AREA DESCRIBED IN 2011 AND 2014 AS FULLY DEVELOPED AND SHOULD BE REMOVED FROM FUTURE STATEWIDE SURVEYS. PRIVATE LAKE (SHORTLINE LAKE) EXISTS JUST E OF FEATURE.

Threats:

DEVELOPMENT.

General:

ABOUT 130 NESTING PAIRS OBSERVED ON 7 JUN 1982; NESTING STAGE UNKNOWN. NONE OBSERVED ON 16 JUN 1992. NONE OBSERVED ON 16 APR 2011 AND 20 APR 2014 DURING TRIENNIAL STATEWIDE SURVEYS.

PLSS: T07N, R05E, Sec. 26 (M)

Accuracy: 1/5 mile

Area (acres): 0

UTM: Zone-10 N4255447 E640278

Latitude/Longitude: 38.43629 / -121.39273

Elevation (feet): 30

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

- BEE91R0001 BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
- HOS86R0001 HOSEA, R.C. - A POPULATION CENSUS OF THE TRICOLORED BLACKBIRD, AGELAIUS TRICOLOR (AUDUBON), IN FOUR COUNTIES IN THE NORTHERN CENTRAL VALLEY OF CALIFORNIA. M.A. THESIS, CSU-SACRAMENTO. 1986-08-14
- SCH92F0019 SCHNEIDER, T. & M. BARTLETT - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-06-16
- TRI14D0001 TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11521	EO Index:	24687
Key Quad:	Elk Grove (3812143)	Element Code:	ABPBXB0020
Occurrence Number:	156	Occurrence Last Updated:	2015-04-03

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed:	1972-06-07	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1972-06-07	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ABOUT 1.3 MI WSW OF WATERMAN RD & GRANT LINE RD INTERSECTION, 2.3 MI SSE OF HWY 99 AT ELK GROVE BLVD, ELK GROVE.

Detailed Location:
 MAPPED TO PROVIDED LOCATION DESCRIPTIONS. 1972 LOCATION DESCRIBED AS "JUST WEST OF HWY 99 NEAR GRANT LINE EXIT; 12 MILES SOUTH OF SACRAMENTO." ADDITIONALLY DESCRIBED AS "0.5 MI W OF GRANT LINE EXIT."

Ecological:
 NESTING SUBSTRATE CONSISTS OF CATTAILS AND BULRUSH.

Threats:
General:
 ABOUT 10,000 INDIVIDUALS OBSERVED ON 7 JUN 1972; PROBABLY NESTING BUT NOT CONFIRMED (DEHAVEN UNPUB. FIELD DATA).

PLSS:	T06N, R05E, Sec. 13 (M)	Accuracy:	4/5 mile	Area (acres):	0
UTM:	Zone-10 N4248938 E641879	Latitude/Longitude:	38.37739 / -121.37569	Elevation (feet):	40

County Summary:	Quad Summary:
Sacramento	Galt (3812133), Bruceville (3812134), Elk Grove (3812143), Florin (3812144)

Sources:

BEE91R0001	BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
DEHNDU0001	DEHAVEN, R.W. - PARTIAL LIST OF RECENT (1969-1974) TRICOLORED BLACKBIRD BREEDING COLONY LOCATIONS. XXXX-XX-XX
HOS86U0002	HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11747	EO Index: 4369
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020
Occurrence Number: 157	Occurrence Last Updated: 2015-05-04

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1972-05-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-20	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.3 MI SE OF FLORIN RD & EAGLES NEST RD INTERSECTION, 0.7 MI WSW OF FLORIN RD AT SUNRISE BLVD, SW OF BLODGETT RES.

Detailed Location:
1972 LOCATION DESCRIBED ONLY AS "EAGLES NEST AT FLORIN ROADS." 1986-2014 COLONY LOCATIONS WERE "FLORIN RD JUST E OF INTERSECTION OF EAGLES NEST RD" & "OFF OF EAGLES NEST RD, 0.2 MI S OF FLORIN RD, ~0.25 MI E OF EAGLES NEST RD."

Ecological:
NESTING SUBSTRATE WAS TULE S & CATTAILS. DATA COLLECTED/STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL. DESCRIBED AS HISTORICAL LOCATION, FORMERLY CATTAIL MARSH, NOW QUARRY (2014). "ACTIVE SITES" REPORTED TO THE N ACROSS FLORIN RD.

Threats:
CONVERSION TO QUARRY.

General:
2,000 INDIVIDUALS OBSERVED IN 1972; NESTS W/ 1-4 EGGS & OLD NESTS (DEHAVEN). HUNDREDS OF PAIRS OBSERVED IN 1986 (MANOLIS); UNK IF COLONY FLEDGED YOUNG. 100 OBS IN 2008; NO NESTING OBS. NONE OBSERVED IN 2011. 500 OBS IN 2014; NO NESTING OBS.

PLSS: T07N, R07E, Sec. 06 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4262158 E652168	Latitude/Longitude: 38.49479 / -121.25509	Elevation (feet): 110

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
DEHNDU0001	DEHAVEN, R.W. - PARTIAL LIST OF RECENT (1969-1974) TRICOLORED BLACKBIRD BREEDING COLONY LOCATIONS. XXXX-XX-XX
TR114D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11720	EO Index: 24681
Key Quad: Carmichael (3812153)	Element Code: ABPBXB0020
Occurrence Number: 158	Occurrence Last Updated: 2015-04-30

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed: 1989-05-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2015-04-17	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST NW OF JACKSON RD & EAGLES NEST RD INTERSECTION, 1.5 MI WSW OF SUNRISE BLVD & KIEFER BLVD INTXN, WNW OF SLOUGHHOUSE.

Detailed Location:
1972 LOCATION WAS "HWY 16 JUST E OF EAGLES NEST RD." 1989 LOCATION WAS "ONE QUARTER MILE W OF EAGLE'S NEST RD." DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL, SITE NAME "EAGLES NEST ROAD-WEST."

Ecological:
NESTING IN BLACKBERRY THICKETS, CATTAILS, AND TULE. MUCH OF THE STRETCH OF EAGLE'S NEST RD NORTH OF HWY 16 WAS SURVEYED AND NO SUITABLE NESTING HABITAT OR BLACKBIRDS WERE OBSERVED.

Threats:
POTENTIAL FOR LANDOWNERS TO ALTER USE OF LAND (1989).

General:
NEST CONTAINING 1-4 EGGS OBSERVED IN MAY 1972 (DEHAVEN FIELD NOTES). ~1,000 OBSERVED ON 24-25 MAY 1989; OBS CARRYING FOOD/FEEDING YOUNG. 0 OBS APR OF 2008 & 2011. FORAGING FLOCK OF 45 BIRDS OBS ON 20 APR 2014. 0 OBS ON 17 APR 2015.

PLSS: T08N, R06E, Sec. 25 (M)	Accuracy: 3/5 mile	Area (acres): 0
UTM: Zone-10 N4264633 E650987	Latitude/Longitude: 38.51729 / -121.26809	Elevation (feet): 140

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

BEE91R0001	BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
DEHNDU0001	DEHAVEN, R.W. - PARTIAL LIST OF RECENT (1969-1974) TRICOLORED BLACKBIRD BREEDING COLONY LOCATIONS. XXXX-XX-XX
TR114D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11126	EO Index: 24678
Key Quad: Sacramento West (3812155)	Element Code: ABPBXB0020
Occurrence Number: 162	Occurrence Last Updated: 2015-04-13

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1971-04-05	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-20	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
VICINITY OF SACRAMENTO DEEP WATER SHIP CHANNEL & PORT OF SACRAMENTO, JUST S OF I-80 & BUSINESS 80 FWY, W OF SACRAMENTO.

Detailed Location:
1971 LOCATION WAS "PORT OF WEST SACRAMENTO." 2005, 2011, & 2014 SURVEYS CONDUCTED AS PART OF TRIENNIAL STATEWIDE SURVEYS, DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL, SITE NAMES. 3 POSSIBLE COLONIES NEAR PORT OF SACRAMENTO MAPPED.

Ecological:
NESTING IN MUSTARD AND STAR THISTLE IN 1971. FORAGING IN 2014 WAS IN SANDBAR WILLOW STANDS. GENERAL HABITAT WAS MUSTARD, THISTLE, WILLOW, & GRASS. BREEDING COLONY OBS BTWN 1969-74 BY R. DEHAVEN; POSSIBLY REFERRING TO 1971 DETECTION.

Threats:
General:
~1,500 OBSERVED ON 5 APR 1971; NESTS LOCATED IN 5FT THISTLE. SITE CHECKED BY SCHNEIDER AND BARTLETT IN 1992; NONE OBSERVED. ~750-2,000 OBS IN 2005; BREEDING UNKNOWN. NONE OBSERVED IN 2011. FORAGING FLOCK OF 80 BIRDS OBSERVED ON 20 APR 2014.

PLSS: T08N, R04E, Sec. 08 (M)	Accuracy: nonspecific area	Area (acres): 1,247
UTM: Zone-10 N4269062 E625366	Latitude/Longitude: 38.56117 / -121.56108	Elevation (feet): 10

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
DEHNDU0001	DEHAVEN, R.W. - PARTIAL LIST OF RECENT (1969-1974) TRICOLORED BLACKBIRD BREEDING COLONY LOCATIONS. XXXX-XX-XX
SCH92F0022	SCHNEIDER, T. & M. BARTLETT - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-06-25
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 17173	EO Index: 9704
Key Quad: Florin (3812144)	Element Code: ABPBXB0020
Occurrence Number: 174	Occurrence Last Updated: 2015-04-02

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1992-06-16	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-19	Occurrence Rank: None
Owner/Manager: PVT	Trend: Unknown
Presence: Possibly Extirpated	

Location:
ALONG FRANKLIN HIGH RD, BETWEEN QUAIL RUN LN AND WHITELOCK PARKWAY, ABOUT 0.2 MILES W OF BRUCEVILLE RD, W OF ELK GROVE.

Detailed Location:
MAPPED TO PROVIDED MAPS AND LOCATION DESCRIPTION OF NORTH OF QUAIL RUN ROAD, WEST OF BRUCEVILLE ROAD. BLACKBERRY BRAMBLE APPEARS TO HAVE RAN ALONG WHAT IS NOW FRANKLIN HIGH RD. HIGH SCHOOL TO THE W, RESIDENTIAL BUILDINGS TO THE E.

Ecological:
NESTING IN BLACKBERRY BRAMBLE (1990), ALONG BOUNDARY TO A CULTIVATED FIELD, RUNNING N FROM QUAIL RUN LN, BIRDS RANGE A DISTANCE W FOR FORAGING. AREA DESCRIBED AS "FULLY DEVELOPED WITH HOUSES, NO LONGER A VIABLE SITE" IN 2014.

Threats:
POSSIBLE THREAT FROM GRAZING.

General:
ABOUT 500 ADULTS OBSERVED NESTING ON 29 MAY 1990; FEMALES WERE INCUBATING. ABOUT 100 BIRDS OBSERVED ON 16 JUN 1992; NOTED AS BREEDING INDIVIDUALS. NONE OBSERVED ON 19 APR 2014 DURING STATEWIDE SURVEYS.

PLSS: T06N, R05E, Sec. 10 (M)	Accuracy: specific area	Area (acres): 11
UTM: Zone-10 N4250542 E637792	Latitude/Longitude: 38.39249 / -121.42216	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

HAR90F0001	HARVEY, D. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1990-05-29
SCH92F0007	SCHNEIDER, T. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-06-16
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 17176	EO Index: 12053	
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020	
Occurrence Number: 177	Occurrence Last Updated: 2015-04-10	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 2000-04-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2000-04-22	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Fluctuating
Presence: Presumed Extant	

Location:
"KNOX" COLONY SITE; ALONG BOTH SIDES OF KNOX ROAD, NORTH OF FLORIN ROAD, 7 MILES NNE OF ELK GROVE.

Detailed Location:
MAPPED TO PROVIDED MAPS AND LOCATION DESCRIPTION OF "KNOX RD N OF FLORIN RD" & "ALONG EAST AND WEST SIDES OF KNOX RD."

Ecological:
NESTING SUBSTRATE CONSISTS OF BLACKBERRIES ALONG A RESIDENTIAL ROAD; SURROUNDED BY PASTURELAND. CONSTRUCTION BEGAN SOMETIME BETWEEN 2008-2009.

Threats:
POSSIBLY THREATENED BY DEVELOPMENT OF THE SURROUNDING AREA.

General:
1,000 NESTING PAIRS OBS MAY 1990. 500-15,000 OBS IN 1992-1994. 200 OBS IN 1995. 5,000 NESTING IN 1996. 300 OBS IN 1997. 3,500-4,500 OBS IN 1998-1999; FEMALES INCUBATING. 560 OBS IN 2000. 400 OBS IN 2005. 0 OBS IN 2008, 2011, & 2014.

PLSS: T08N, R06E, Sec. 33 (M)	Accuracy: nonspecific area	Area (acres): 22
UTM: Zone-10 N4262470 E646776	Latitude/Longitude: 38.49850 / -121.31683	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Elk Grove (3812143), Carmichael (3812153)
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- Sources:**
- BEE91R0001 BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
 - COO97F0011 COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1997-06-XX
 - DFG04U0002 CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
 - JOH90F0003 JOHNSON, D. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1990-05-20
 - MAN94F0006 MANOLIS, T. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-04-23
 - SCH92F0020 SCHNEIDER, T. & M. BARTLETT - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-06-25
 - SLO04R0001 SLOAT, T. - SOUTH SACRAMENTO HABITAT CONSERVATION PLAN. APPENDIX A: SPECIES ANALYSIS TRICOLORED BLACKBIRD 2004-XX-XX
 - TRI14D0001 TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 17307

EO Index: 12246

Key Quad: Carmichael (3812153)

Element Code: ABPBXB0020

Occurrence Number: 182

Occurrence Last Updated: 2015-04-22

Scientific Name: *Agelaius tricolor*

Common Name: tricolored blackbird

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: BLM_S-Sensitive

CNDDDB Element Ranks: **Global:** G2G3

State: S1S2

CDFW_SSC-Species of Special Concern

IUCN_EN-Endangered

NABCI_RWL-Red Watch List

USFWS_BCC-Birds of Conservation Concern

General Habitat:

HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.

Micro Habitat:

REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed: 1989-06-04

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2014-04-19

Occurrence Rank: None

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Extirpated

Location:

W OF FOLSOM-SOUTH CANAL, JUST S OF KILGORE RD & INTERNATIONAL DR INTXN, 0.5 MI NNE OF MATHER DR & ZINFANDEL DR INTXN.

Detailed Location:

PROVIDED LOCATION DESCRIPTION FOR 1989 DETECTION WAS "W SIDE OF FOLSOM-SOUTH CANAL, S OF INTERSECTION OF KILGORE AND INTERNATIONAL RDS... GRAVEL CO. SITE." 2011 & 2014 SURVEYS CONDUCTED NEAR NW END OF FEATURE AS PART OF TRIENNIAL SURVEYS.

Ecological:

HABITAT WAS COTTONWOOD-RIPARIAN, ENCLOSED WITHIN LEVEES. AERIAL PHOTOGRAPHY FROM 1998-2014 SHOWS THAT DEVELOPMENT BEGAN IN EARLY 2000'S CULMINATING IN COMPLETE RESIDENTIAL DEVELOPMENT BY 2014.

Threats:

1989: SITE IS UNDER AN IMMEDIATE THREAT DUE TO GRAVEL COMPANY ACTIVITY. DEVELOPMENT.

General:

APPROXIMATELY 150 PAIRS OBSERVED; ADULTS SEEN CARRYING FOOD, COLONY SUCCESSFULLY FLEDGED YOUNG. NONE OBSERVED ON 28 MAR 2011 AND 19 APR 2014.

PLSS: T08N, R06E, Sec. 01 (M)

Accuracy: nonspecific area

Area (acres): 125

UTM: Zone-10 N4271599 E650758

Latitude/Longitude: 38.58008 / -121.26921

Elevation (feet): 110

County Summary:

Quad Summary:

Sacramento

Carmichael (3812153)

Sources:

- BEE91R0001 BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
- JOH89F0005 JOHNSON, D. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR BREEDING COLONY SITE 1989-06-04
- TRI14D0001 TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 21578	EO Index: 17765
Key Quad: Taylor Monument (3812165)	Element Code: ABPBXB0020
Occurrence Number: 202	Occurrence Last Updated: 1992-07-01

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	
CNDDDB Element Ranks:	Other Lists:
Global: G2G3	BLM_S-Sensitive
State: S1S2	CDFW_SSC-Species of Special Concern
	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1992-06-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-06-18	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
1.7 MI NE OF THE INTERSECTION OF I-5 & HWY 99, 6 MI NORTH OF SACRAMENTO.

Detailed Location:
BIRDS NEST IN WILLOW TREES ALONG AN IRRIGATION DITCH; BLACKBERRY BUSHES GROW NEARBY.

Ecological:
SURROUNDING HABITAT CONSISTS OF FARMLAND, MAINLY RICE FIELDS.

Threats:
General:
200 ADULTS OBSERVED NESTING.

PLSS: T10N, R04E, Sec. 35 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4282608 E629102	Latitude/Longitude: 38.68267 / -121.51572	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:
SCH92F0010 SCHNEIDER, T. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-06-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 21602	EO Index: 18952
Key Quad: Florin (3812144)	Element Code: ABPBXB0020
Occurrence Number: 204	Occurrence Last Updated: 2015-03-27

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1992-06-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-19	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
LAGUNA CREEK, NORTH & SOUTH OF SHELDON ROAD, ONE MI WEST OF BRUCEVILLE ROAD, SACRAMENTO.

Detailed Location:
MAPPED TO PROVIDED MAP LOCATIONS. PROVIDED LOCATION DESCRIPTION FOR 1992 WAS "0.5-1 MI W OF BRUCEVILLE... ALONG LAGUNA CREEK." DATA COLLECTED BY UC DAVIS TRICOLORED BLACKBIRD PORTAL, SITE NAME WAS "LAGUNA CREEK AT FRANKLIN BOULEVARD."

Ecological:
NESTING SUBSTRATE WAS BLACKBERRIES ALONG THE CREEK. 2014 SURVEY NOTED SITE AS A HISTORICAL LOCATION NOW ENTIRELY SURROUNDED BY HOUSING/URBANIZATION; SHOULD BE REMOVED FROM STATEWIDE SURVEYS.

Threats:
LAND 0.5 MI SOUTH OF THIS SITE IS BEING DEVELOPED; RESIDENTIAL (1992).

General:
100-200 NESTING BIRDS OBSERVED NESTING ON 16 & 18 JUN 1992. NONE DETECTED ON 19 APR 2014.

PLSS: T07N, R05E, Sec. 28 (M)	Accuracy: specific area	Area (acres): 40
UTM: Zone-10 N4255389 E636471	Latitude/Longitude: 38.43635 / -121.43634	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
SCH92F0008	SCHNEIDER, T. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-06-16
SCH92F0009	SCHNEIDER, T. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-06-18
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 21808	EO Index: 4365
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020
Occurrence Number: 232	Occurrence Last Updated: 2015-04-06

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1996-04-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-19	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG LAGUNA CREEK, JUST N AND S OF SHELDON RD, ABOUT 0.2 MI E OF WATERMAN RD, NE OF ELK GROVE.

Detailed Location:
MAPPED TO PROVIDED COORDINATES AND LOCATION DESCRIPTION OF "LAGUNA CREEK AND SHELDON RD" & "INTERSECTION OF WATERMAN & SHELDON ROADS." DATA COLLECTED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME WAS "SHELDON ROAD AT WATERMAN #1 & #2."

Ecological:
NESTING SUBSTRATE CONSISTS OF BLACKBERRIES, AND SOME WILD ROSE, ALONG LAGUNA CREEK. FORAGING ALONG WATERMAN RD FROM BOND RD TO SHELDON RD (1996).

Threats:
FORAGING HABITAT THREATENED BY RESIDENTIAL DEVELOPMENT.

General:
ABOUT 500-1,000 OBSERVED IN 1992; UNK NUMBER OF NESTLINGS OBS. ABOUT 2,000 OBS NESTING ON 23 APR 1994. 100 OBS NESTING 22 APR 1995. 360 OBS ON 21 APR 1996; APPEARED READY TO NEST. NONE OBS IN 2000, 2011 & 2014.

PLSS: T07N, R06E, Sec. 20 (M)	Accuracy: nonspecific area	Area (acres): 46
UTM: Zone-10 N4255740 E644068	Latitude/Longitude: 38.43832 / -121.34926	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

COO94F0005	COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-06-XX
DFG04U0001	CALIFORNIA DEPARTMENT OF FISH & GAME - DFG COMPILATION OF BALD EAGLE NESTING SITES AND HISTORICAL USE THROUGH THE 2002 NESTING SEASON (2 TABLES). 2004-XX-XX
DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
MAN94F0007	MANOLIS, T. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-04-23
ROS92F0001	ROSCOE, T. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-06-19
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 23982
Key Quad: Florin (3812144)
Occurrence Number: 249

EO Index: 24728
Element Code: ABPBXB0020
Occurrence Last Updated: 1993-11-01

Scientific Name: *Agelaius tricolor*

Common Name: tricolored blackbird

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2G3
 State: S1S2

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_EN-Endangered
 NABCI_RWL-Red Watch List
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.

Micro Habitat:

REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed: 1991-05-22
Last Survey Date: 1991-05-22
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Fair
Trend: Unknown

Location:

STRAWBERRY CREEK, JUST SOUTH OF CALVINE ROAD AND 0.5 MILE WEST OF ELK GROVE FLORIN ROAD, SOUTH OF SACRAMENTO.

Detailed Location:

Ecological:

NESTING SUBSTRATE CONSISTS OF HIMALAYA BERRY BRAMBLES ON THE SOUTH BANK OF STRAWBERRY CREEK.

Threats:

THREATENED BY PROPOSED DEVELOPMENT.

General:

40 TRICOLORED'S OBSERVED NESTING WITH ABOUT 20 REDWINGED BLACKBIRDS; ADDITIONAL NESTS OBSERVED THAT APPEARED ABANDONED.

PLSS: T07N, R05E, Sec. 24 (M)	Accuracy: specific area	Area (acres): 4
UTM: Zone-10 N4257012 E641509	Latitude/Longitude: 38.45019 / -121.37831	Elevation (feet): 35

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

DAI91F0003 DAINS, V. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1991-05-22



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30620	EO Index: 4368	
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020	
Occurrence Number: 298	Occurrence Last Updated: 2015-04-08	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1996-05-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-19	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST W OF EAGLE NEST RD & LAGUNA CREEK INTERSECTION, 0.9 MI SSW OF FLORIN RD & EAGLE NEST RD INTERSECTION, E OF FLORIN.

Detailed Location:
MAPPED TO PROVIDED LOCATION DESCRIPTION "LAGUNA CREEK DRAINAGE APPROX. 0.5 MI W OF EAGLES NEST RD." SEVERAL SURVEYS CONDUCTED AS PART OF TRIENNIAL STATEWIDE SURVEYS (UC DAVIS TCBB PORTAL), SITE NAME WAS "LAGUNA CREEK AT EAGLES NEST ROAD."

Ecological:
NESTING SUBSTRATE CONSISTED OF BLACKBERRIES, TULE, AND WILLOWS; SURROUNDED BY GRASSLAND AND MOIST FIELDS PROVIDING FACULTATIVE WETLAND VEGETATION. FORAGING IN GRASSLANDS UP TO 2-3 MILES FROM COLONY.

Threats:
General:
ABOUT 1,000-3,000 OBSERVED CARRYING FOOD TO COLONY IN 1989. ABOUT 410 NESTING ON 23 APR 1994. ABOUT 1,000 ADULTS OBSERVED NESTING APR-JUN 1994. 275 OBS NESTING ON 19 MAY 1996. NONE OBSERVED IN 2008, 2011, AND 2014.

PLSS: T07N, R06E, Sec. 01 (M)	Accuracy: nonspecific area	Area (acres): 86
UTM: Zone-10 N4260900 E651251	Latitude/Longitude: 38.48361 / -121.26587	Elevation (feet): 90

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
BUR94F0010	BURKE, C. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-04-23
COO94F0004	COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-06-XX
DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30621	EO Index: 3755	
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020	
Occurrence Number: 299	Occurrence Last Updated: 2015-05-05	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1999-05-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-19	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
BOTH SIDES OF DILLARD RD, ABOUT 0.4 MI NNE OF HAGGIE RD & DAVIS RD INTERSECTION, 0.9 MI SE OF WILTON PO, E OF ELK GROVE.

Detailed Location:
MAPPED TO PROVIDED MAPS & LOCATION DESCRIPTIONS OF "S OF DILLARD RD BETWEEN DAVIS RD & THE CALIFORNIA TRACTION RR TO THE EAST" & "WILTON FIRE STATION." 1993-1994 DATA PRIMARILY FOR FIELDS S OF DILLARD RD. 1996-2014 DATA ADJ TO FIRE STATION.

Ecological:
NESTING SUBSTRATE CONSISTED OF BLACKBERRY THICKETS; SURROUNDED BY CATTLE PASTURE ASSOCIATED WITH A DAIRY OPERATION. 2 POSSIBLE COLONIES MAY BE MAPPED. SURVEYED IN 1997, HOWEVER, NO DETECTION DATA PROVIDED. FORAGING UP TO 3 MILES FROM SITE.

Threats:
DEVELOPMENT AND PROXIMITY OF THIS SITE TO AN ACTIVE DAIRY OPERATION MAY BE A POSSIBLE THREAT.

General:
~1,600 OBSERVED IN 1993. ~110 OBSERVED NESTING ION 23 APR 1994. ~1,000 BREEDING ADULTS OBSERVED ON 3 JUN 1996. ~350 BIRDS OBSERVED ON 11 MAY 1999; FEMALES INCUBATING. NONE OBSERVED ON 16 APR 2011 & 19 APR 2014 TRIENNIAL STATEWIDE.

PLSS: T06N, R07E, Sec. 06 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4251567 E652141	Latitude/Longitude: 38.39939 / -121.25769	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

BUR94F0013	BURKE, C. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-04-23
COO97F0010	COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1997-06-XX
DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
ROS96F0002	ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1996-06-03
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 30623	EO Index: 4367
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020
Occurrence Number: 300	Occurrence Last Updated: 2015-04-07

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed: 2014-04-20	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-20	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST NW OF CALVINE RD & BRADSHAW RD INTERSECTION, ~0.9 MI SE OF VINTAGE PARK DR & WATERMAN RD INTXN, NE OF ELK GROVE.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. LARGE PORTION OF DATA COLLECTED AS PART OF TRIENNIAL STATEWIDE SURVEYS. DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; 2 COLONIES MAPPED, NAMED "CALVINE ROAD AT BRADSHAW ROAD" & "BRADSHAW CHRISTIAN."

Ecological:
NESTING SUBSTRATE CONSISTED OF BLACKBERRIES; SURROUNDED BY LIGHTLY GRAZED GRASSLAND. JUVENILES OBSERVED IN 1993-1994. OBSERVED FORAGING IN ADJACENT BASEBALL FIELDS, GRASSLANDS, AND WEEDY FIELDS IN 2014.

Threats:
General:
~250-350 NESTING ADULTS OBSERVED BETWEEN 1992-1994. ~100 OBSERVED IN 1996 & 1997; PROBABLY NESTING. 2 OBSERVED IN 1998. ~300 OBS IN 2008; 0 IN FOLLOW-UP SURVEYS. NONE OBS IN 1997 & 1999. 1 OBS IN 2011. ~12,000 OBS NESTING ON 20 APR 2014.

PLSS: T07N, R06E, Sec. 17 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4257848 E644786	Latitude/Longitude: 38.45719 / -121.34059	Elevation (feet): 60

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

COO94F0008	COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-XX-XX
DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
MAN94F0008	MANOLIS, T. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-04-23
SLO04R0001	SLOAT, T. - SOUTH SACRAMENTO HABITAT CONSERVATION PLAN. APPENDIX A: SPECIES ANALYSIS TRICOLORED BLACKBIRD 2004-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33742	EO Index: 30616
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020
Occurrence Number: 301	Occurrence Last Updated: 2015-04-03

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1996-05-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-19	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
AREA ALONG GRANT LINE RD, BETWEEN BRADSHAW RD & WATERMAN RD, 1.5 MI NE OF INTERSECTION W/ HWY 99, ELK GROVE.

Detailed Location:
MAPPED TO PROVIDED MAPS AND LOCATION DESCRIPTION. 1999-2014 SURVEYS PART OF TRIENNIAL STATEWIDE SURVEYS, DATA IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAMES WERE "MOSHER ROADD" & "GRANT LINE ROAD AT BRADSHAW ROAD."

Ecological:
NESTING SUBSTRATE CONSISTS OF BLACKBERRIES; SURROUNDED BY PASTURELANDS, FIELDS, AND DAIRY FARM IN 1994. FORAGING OCCURRED ABOUT 2-3 MILES FROM COLONY.

Threats:
DEVELOPMENT.

General:
ABOUT 1,500 ADULTS OBSERVED NESTING IN 1992; FLEDGLINGS OBSERVED. ABOUT 2,500-7,500 BIRDS WERE OBSERVED NESTING APR-JUN 1994; FLEDGLINGS PRESENT. 2000 OBSERVED NESTING ON 19 MAY 1996. NONE OBSERVED IN APR-MAY OF 1999, 2000, 2011, AND 2014.

PLSS: T06N, R06E, Sec. 08 (M)	Accuracy: nonspecific area	Area (acres): 520
UTM: Zone-10 N4250801 E644795	Latitude/Longitude: 38.39371 / -121.34194	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

COO92F0008	COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-05-XX
COO94F0003	COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-05-XX
DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
MAN94F0009	MANOLIS, T. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-04-23
SLO04R0001	SLOAT, T. - SOUTH SACRAMENTO HABITAT CONSERVATION PLAN. APPENDIX A: SPECIES ANALYSIS TRICOLORED BLACKBIRD 2004-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30630	EO Index: 4275	
Key Quad: Rio Linda (3812164)	Element Code: ABPBXB0020	
Occurrence Number: 302	Occurrence Last Updated: 2004-05-12	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	
CNDDDB Element Ranks:	Other Lists:
Global: G2G3	BLM_S-Sensitive
State: S1S2	CDFW_SSC-Species of Special Concern
	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 2000-05-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2000-05-04	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST WEST OF EAST LEVEE ROAD (NATOMAS DRAIN LEVEE ROAD), 0.2 MILE SOUTH OF THE SACRAMENTO COUNTY LINE, RIO LINDA.

Detailed Location:
2000: BIRDS FOUND IN 5 SEPARATE BLACKBERRY CLUMPS.

Ecological:
NESTING SUBSTRATE CONSISTS OF A BLACKBERRY HEDGE, WITH BIRDS FORAGING IN ADJACENT PASTURELANDS.

Threats:
General:
NESTING COLONY SITE IN 1993. 21 JANUARY & 3 FEBRUARY 1994: ~50 BIRDS OBS FORAGING IN ADJACENT PASTURES, BUT NONE WERE FOUND BY 22 APRIL 1994. 4 MAY 2000: 4000 OBS NESTING.

PLSS: T10N, R04E, Sec. 12 (M)	Accuracy: nonspecific area	Area (acres): 15
UTM: Zone-10 N4288237 E631108	Latitude/Longitude: 38.73308 / -121.49159	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
MAN94F0014	MANOLIS, T. & C. BURKE - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-04-22



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	30625	EO Index:	4283
Key Quad:	Carmichael (3812153)	Element Code:	ABPBXB0020
Occurrence Number:	304	Occurrence Last Updated:	2009-06-08

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed:	1994-04-23	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1994-04-23	Occurrence Rank:	None
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
 1 MILE NE OF MATHER FIELD AND JUST SOUTH OF THE INTERSECTION OF INTERNATIONAL DRIVE AND ZINFANDEL DRIVE, RANCHO CORDOVA.

Detailed Location:
 1994: COLONY SITE WAS LOCATED IN A GRAVEL PIT (DREDGE TAILINGS).

Ecological:
 NESTING SUBSTRATE CONSISTED OF BLACKBERRIES. 2008 AERIAL PHOTO SHOWS THAT THIS AREA HAS BEEN COMPLETELY DEVELOPED.

Threats:

General:
 BETWEEN 8,000-10,000 ADULTS OBSERVED NESTING ON 23 APRIL 1994.

PLSS: T09N, R06E, Sec. 35 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4272116 E649145	Latitude/Longitude: 38.58501 / -121.28761	Elevation (feet): 100

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
 MAN94F0002 MANOLIS, T. & C. BURKE - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-04-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	30626	EO Index:	4282
Key Quad:	Carmichael (3812153)	Element Code:	ABPBXB0020
Occurrence Number:	305	Occurrence Last Updated:	2015-04-29

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed:	2000-04-22	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2014-04-19	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
MORRISON CREEK, JUST E OF INTERSECTION W/ BRADSHAW RD, 0.3 MI SSE OF JACKSON RD & BRADSHAW RD INTXN, WALSH STATION.

Detailed Location:
1994 LOCATION DESCRIPTION WAS "MORRISON CREEK DRAINAGE JUST SOUTH OF CREEK AND EAST OF BRADSHAW ROAD." 2000 LOCATION WAS "SE CORNER OF MORRISON CREEK AND BRADSHAW RD." DATA STORED IN UC DAVIS TRBL PORTAL, SITE NAME "MORRISON CREEK."

Ecological:
NESTING SUBSTRATE CONSISTED OF BLACKBERRIES; COLONY OCCUPIES ~5 ACRES. UC DAVIS PORTAL NOTES THAT AREA IS TOTALLY URBANIZED, AERIAL IMAGERY FROM 2014 SHOWS CREEK IS STILL PRESENT AND SURROUNDED BY VEGETATION.

Threats:
General:
APPROXIMATELY 1,500-2,000 BIRDS OBSERVED ON 23 APRIL 1994; PROBABLE NESTING COLONY. APPROXIMATELY 4,200 BIRDS OBSERVED NESTING 22 APR 2000. NONE OBSERVED ON 15 APR 2011 AND 19 APR 2014 DURING TRIENNIAL STATEWIDE SURVEYS.

PLSS:	T08N, R06E, Sec. 28 (M)	Accuracy:	nonspecific area	Area (acres):	24
UTM:	Zone-10 N4265300 E645154	Latitude/Longitude:	38.52427 / -121.33484	Elevation (feet):	60

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
MAN94F0003	MANOLIS, T. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-04-23
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	30627	EO Index:	4280
Key Quad:	Carmichael (3812153)	Element Code:	ABPBXB0020
Occurrence Number:	306	Occurrence Last Updated:	2015-04-23

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed:	2014-06-04	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2015-04-20	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG ELDER CREEK, ABOUT 0.4 MI WNW OF ELDER CREEK RD & EXCELSIOR RD INTERSECTION, 3 MI SE OF PERKINS POST OFFICE.

Detailed Location:
 MAPPED GENERALLY TO PROVIDED MAPS AND COORDINATES. FEATURE ENCOMPASSES 3 POSSIBLE COLONIES FROM UC DAVIS TRBL PORTAL; SITE NAMES WERE "ELDER CREEK," "ELDER CREEK RD #4," & "EXCELSIOR ROAD AT ELDER CREEK ROAD."

Ecological:
 NESTING SUBSTRATE CONSISTED OF MAINLY BLACKBERRIES AND WILD ROSE. HABITAT ALSO COMPOSED OF BULRUSH AND CATTAIL. SURROUNDED BY HORSE PASTURE AND FALLOW FIELDS. TRBL COLONIES DESCRIBED AS OCCURRING IN "SAME FIELD" ADJACENT TO ELDER CREEK.

Threats:
General:
 ~6,000 OBS IN 1992-94; BREEDING. 400 OBS NESTING IN 1996. 0 OBS IN 1997-98. 20-52 OBS IN 1999-2000. 700-2,500 OBS IN 2005; FLEDGLINGS OBS. 100 OBS IN 2008; INCUBATION INFERRED. 0 IN 2011. 800-1,500 OBS IN 2014; FEEDING NESTLINGS. 0 IN 2015.

PLSS:	T08N, R06E, Sec. 27 (M)	Accuracy:	nonspecific area	Area (acres):	37
UTM:	Zone-10 N4264138 E647862	Latitude/Longitude:	38.51335 / -121.30403	Elevation (feet):	90

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

COO97F0013	COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1997-06-XX
DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
MAN94F0004	MANOLIS, T. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-04-23
SLO04R0001	SLOAT, T. - SOUTH SACRAMENTO HABITAT CONSERVATION PLAN. APPENDIX A: SPECIES ANALYSIS TRICOLORED BLACKBIRD 2004-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30628	EO Index: 4281
Key Quad: Carmichael (3812153)	Element Code: ABPBXB0020
Occurrence Number: 307	Occurrence Last Updated: 2015-04-30

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1994-06-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-XX-XX	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
"BRADSHAW/ELDER CREEK" COLONY SITE, WEST OF BRADSHAW ROAD, BETWEEN ELDER CREEK ROAD AND FLORIN ROAD, SW OF MATHER AFB.

Detailed Location:
COLONY OCCUPIES 30+ ACRES. BIRDS FORAGE IN OPEN FIELDS UP TO 2 MILES RADIUS FROM THE COLONY.

Ecological:
NESTING SUBSTRATE CONSISTED OF BLACKBERRIES AND WILD ROSE SURROUNDED BY GRASSLAND.

Threats:

General:
ABOUT 5,500 ADULTS OBSERVED ON 24 APR 1993. COLONY OF 5,000-10,000 OBS ON 23 APR 1994; PRESUMED NESTING. 4,500 ADULTS OBS ON 24 APR 1994. NONE OBSERVED IN 1997-1999. 2,500 OBSERVED ON 16 APR 2011, NESTING NOT REPORTED.

PLSS: T08N, R06E, Sec. 32 (M)	Accuracy: nonspecific area	Area (acres): 66
UTM: Zone-10 N4263057 E644723	Latitude/Longitude: 38.50413 / -121.34024	Elevation (feet): 55

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

COO97F0012	COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1997-06-XX
MAN94F0005	MANOLIS, T. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-04-23
SLO04R0001	SLOAT, T. - SOUTH SACRAMENTO HABITAT CONSERVATION PLAN. APPENDIX A: SPECIES ANALYSIS TRICOLORED BLACKBIRD 2004-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	33417	EO Index:	29209
Key Quad:	Elk Grove (3812143)	Element Code:	ABPBXB0020
Occurrence Number:	319	Occurrence Last Updated:	1996-06-10

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed:	1996-06-03	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1996-06-03	Occurrence Rank:	Good
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
JUST WEST OF THE INTERSECTION OF WILTON ROAD AND DILLARD ROAD, 5 MILES EAST OF ELK GROVE.

Detailed Location:

Ecological:
NESTING SUBSTRATE IS BLACKBERRIES; SURROUNDING HABITAT CONSISTS OF AGRICULTURE, GRAZED PASTURE, AND RURAL RESIDENTIAL.

Threats:
THREATENED BY DEVELOPMENT.

General:
ESTIMATED 1000 ADULTS OBSERVED NESTING ON 3 JUNE 1996.

PLSS:	T06N, R07E, Sec. 06 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4251758 E652042	Latitude/Longitude:	38.40113 / -121.25879	Elevation (feet):	80

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
ROS96F0002 ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1996-06-03



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33423	EO Index: 11900
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020
Occurrence Number: 321	Occurrence Last Updated: 1996-06-19

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1996-06-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1996-06-10	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG WALMORT ROAD, 0.6 MILE EAST OF DILLARD ROAD, SACRAMENTO.

Detailed Location:

Ecological:

HABITAT CONSISTS OF BLACKBERRY BRAMBLES GROWING ALONG A ROADSIDE DITCH; SURROUNDING AREA CONSISTS OF RURAL RESIDENTIAL/AGRICULTURE.

Threats:

THREATENED BY DEVELOPMENT.

General:

ESTIMATED 1500 ADULTS OBSERVED NESTING ON 10 JUNE 1996.

PLSS: T06N, R06E, Sec. 11 (M)	Accuracy: specific area	Area (acres): 16
UTM: Zone-10 N4249399 E650261	Latitude/Longitude: 38.38018 / -121.27968	Elevation (feet): 60

County Summary:

Sacramento

Quad Summary:

Elk Grove (3812143)

Sources:
ROS96F0003 ROSCOE, T. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1996-06-10



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 37299	EO Index: 32301
Key Quad: Sloughhouse (3812142)	Element Code: ABPBXB0020
Occurrence Number: 342	Occurrence Last Updated: 2015-05-05

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1992-05-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-19	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
-0.3 MI NW OF GREEN RD & SUNFLOWER RD INTERSECTION, 1.4 MI NNE OF DILLARD RD & WILTON RD INTERSECTION, N OF DILLARD.

Detailed Location:
MAPPED TO PROVIDED MAP AND LOCATION DESCRIPTION OF "0.07 MILES N OF GREEN RD, 0.3 MILES W OF SUNFLOWER RD." SMALL POND VISIBLE IN 1993-2014 AERIAL PHOTOGRAPHS. DATA COLLECTED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL, SITE NAME "GREEN RD."

Ecological:
NESTING SUBSTRATE CONSISTED OF CATTAILS; SURROUNDED BY LIGHT RESIDENTIAL HOUSING AND GRASSLAND. NOT MUCH FORAGING HABITAT IN THE NEAR VICINITY.

Threats:
General:
3,000 ADULTS OBSERVED IN APR-MAY 1992; SITE USE NOTED AS NESTING, BREEDING, & FORAGING ON CNDDDB FIELD SURVEY FORM. NONE OBSERVED IN 1993, 1994, 1997, 1998, 2011, AND 2014.

PLSS: T07N, R07E, Sec. 31 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4253978 E652812	Latitude/Longitude: 38.42099 / -121.24949	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Sloughhouse (3812142), Elk Grove (3812143)
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Sources:

COO92F0006	COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-05-XX
SLO04R0001	SLOAT, T. - SOUTH SACRAMENTO HABITAT CONSERVATION PLAN. APPENDIX A: SPECIES ANALYSIS TRICOLORED BLACKBIRD 2004-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 37329	EO Index: 32331
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020
Occurrence Number: 347	Occurrence Last Updated: 2015-04-07

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1999-05-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2008-04-28	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
VICINITY OF ELDER CREEK & FLORIN RD INTERSECTION, ABOUT 0.3 MI ESE OF HEDGE AVE, 0.9 MI E OF FLORIN POST OFFICE.

Detailed Location:
MAPPED TO PROVIDED DESCRIPTIONS OF "E SIDE OF CENTRAL CA TRACTION RR, 0.07 MI S OF FLORIN RD," "0.2 MI E OF HEDGE AVE, 200M ALONG RR TRACKS," & "ALONG CREED DRAINAGE JUST E OF RR TRACKS ACROSS FLORIN RD." 2 POTENTIAL COLONIES MAPPED.

Ecological:
NESTING SUBSTRATE CONSISTS OF BLACKBERRIES; SURROUNDED BY GRASSLAND, TO THE SOUTH AND EAST. UC DAVIS TRICOLORED BLACKBIRD PORTAL SITE NAMES WERE "FLORIN ROAD RAILROAD TRACKS" AND "FLORIN ROAD AT FLORENCIA LANE."

Threats:

General:
~150 PAIRS OBSERVED IN 1989; FLEDGED YOUNG OBS. ~2,000 OBSERVED NESTING BETWEEN MAY-JUN 1993. ~800 OBSERVED IN 1995; DISPLAYING AND FEEDING IN AJACENT AREA. UNKNOWN NUMBER NESTING IN 1999. NONE OBSERVED IN 2000 AND 2008.

PLSS: T07N, R06E, Sec. 06 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4262050 E643324	Latitude/Longitude: 38.49529 / -121.35649	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
COO93F0014	COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1993-06-XX
DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	37499	EO Index:	32501
Key Quad:	Carmichael (3812153)	Element Code:	ABPBXB0020
Occurrence Number:	349	Occurrence Last Updated:	2015-04-30

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed:	2012-06-06	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2014-04-18	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG ELDER CREEK, JUST NE OF EXCELSIOR RD & JACKSON RD INTERSECTION, 3 MI SE OF PERKINS PO, 4.4 MI W OF BLODGETT DAM.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES AND LOCATION DESCRIPTION OF "NE CORNER OF JACKSON HWY AND EXCELSIOR RD, ALONG ELDER CREEK." 2010-2014 SURVEY DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL SITE NAME WAS "EXCELSIOR AND JACKSON RD."

Ecological:
 NESTING SUBSTRATE CONSISTED OF BLACKBERRIES SURROUNDED BY LIGHTLY-GRAZED GRASSLAND. HABITAT ADDITIONALLY COMPOSED OF WILD ROSE. BIRDS FORAGE IN GRASSLAND UP TO 1 MILE FROM THE COLONY SITE.

Threats:
General:
 15 BREEDING ADULTS OBSERVED APR-JUN 1994; 2,750 NESTING ON 23 APR. 1,200 BIRDS OBS FORAGING ON 7 JUN 2010, FLEDGLINGS OUT OF NEST. 0 OBS APR 2011. 500 BIRDS OBS ON 6 JUN 2012; FEEDING YOUNG. 75 OBS FORAGING ON 18 APR 2014.

PLSS:	T08N, R06E, Sec. 26 (M)	Accuracy:	nonspecific area	Area (acres):	16
UTM:	Zone-10 N4264835 E648575	Latitude/Longitude:	38.51951 / -121.29571	Elevation (feet):	85

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

COO94F0007	COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1994-06-XX
DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 37738	EO Index: 32746
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020
Occurrence Number: 351	Occurrence Last Updated: 2004-05-13

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1996-05-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1996-05-19	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ELK GROVE CREEK, ON THE SOUTH SIDE OF GRANTLINE ROAD, SE OF ELK GROVE.

Detailed Location:
BIRDS FORAGE IN PASTURE/GRASSLAND UP TO 2 MILES RADIUS FROM THE COLONY SITE.

Ecological:
NESTING SUBSTRATE CONSISTS OF BLACKBERRIES; SURROUNDED BY PASTURE.

Threats:

General:
"GRANTLINE 2" COLONY SITE. 1500 ADULTS OBSERVED NESTING DURING MAY 1992; NUMEROUS FLEDGLINGS PRESENT. 2000 OBSERVED NESTING BY MANOLIS 19 MAY 1996.

PLSS: T06N, R06E, Sec. 05 (M)	Accuracy: specific area	Area (acres): 13
UTM: Zone-10 N4250894 E645218	Latitude/Longitude: 38.39448 / -121.33709	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

COO92F0008	COOK, L. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1992-05-XX
DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95995	EO Index: 52985	
Key Quad: Carmichael (3812153)	Element Code: ABPBXB0020	
Occurrence Number: 390	Occurrence Last Updated: 2015-04-29	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1991-06-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2015-04-17	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
~1.2 MI SE OF BRADSHAW RD & KIEFER BLVD INTERSECTION, 1.4 MI NW OF EXCELSIOR RD & JACKSON RD INTXN, WALSH STATION.

Detailed Location:
1991 COLONY LOCATION DESCRIBED AS BEING BORDERED BY JACKSON RD, KEIFER RD, BRADSHAW RD, AND EXCELSIOR RD. 2014-2015 LOCATION WAS SMALL POND NEAR CENTER OF BORDERED AREA, MAPPED TO COORDINATES. DATA STORED IN UC DAVIS TRBL PORTAL.

Ecological:
HABITAT CONSISTED OF A CATTAIL MARSH ALONG MATHER DRAIN; SURROUNDED BY GRAZED ANNUAL GRASSLAND. 2014-15 COLONY LOCATION WAS A LARGE SHALLOW POND. LAND TO THE SOUTH USED FOR FORAGING. BIRDS ENTERING COLONY FROM THE EAST.

Threats:
THREATENED BY AGGREGATE MINING.

General:
FLOCK OF 300 OBSERVED THREE TIMES IN APR 1991; POSSIBLY NESTING. BETWEEN 500-2,000 BIRDS OBSERVED ON 20 & 24 MAY AND 4 JUN 2014; PREDOMINANTLY FORAGING. NONE OBSERVED ON 17 APR 2015; ANECDOTALY PRESENT IN 2015, NO NESTING INFORMATION.

PLSS: T08N, R06E, Sec. 22 (M)	Accuracy: 3/5 mile	Area (acres): 0
UTM: Zone-10 N4266366 E646830	Latitude/Longitude: 38.53359 / -121.31539	Elevation (feet): 70

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

ADA91F0015	ADAMS, B. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1991-06-10
TR114D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95756	EO Index: 96894	
Key Quad: Saxon (3812146)	Element Code: ABPBXB0020	
Occurrence Number: 479	Occurrence Last Updated: 2015-03-26	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	
CNDDB Element Ranks:	Other Lists:
Global: G2G3	BLM_S-Sensitive
State: S1S2	CDFW_SSC-Species of Special Concern
	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 2005-06-30	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-20	Occurrence Rank: Unknown
Owner/Manager: DFG-YOLO BYPASS WA	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 1.5 MI ESE OF COUNTY RD 36 & COUNTY RD 106 INTERSECTION, SE OF DAVIS, YOLO BYPASS WILDLIFE AREA.

Detailed Location:
MAPPED GENERALLY TO PROVIDED COORDINATES. SURVEYS CONDUCTED AS PART OF TRIENNIAL STATEWIDE SURVEYS. COLONY DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME WAS "GLIDE TULE RANCH."

Ecological:
"A LOT OF TRICOLORED HABITAT" NOTED IN 2011. NO NESTING SUBSTRATE REPORTED IN 2014.

Threats:
General:
APPROXIMATELY 100 OBSERVED ON 30 JUN 2005; OBSERVATION NOTES WERE "SINGING," "CARRYING NEST MATERIAL," AND "FLEDGLINGS OUT OF NEST." NONE DETECTED DURING 17 APR 2011 AND 20 APR 2014 SURVEYS.

PLSS: T07N, R03E, Sec. 03 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4260092 E619268	Latitude/Longitude: 38.48119 / -121.63259	Elevation (feet): 15

County Summary: Yolo	Quad Summary: Clarksburg (3812145), Saxon (3812146)
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Sources:
TR114D0001 TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	95759	EO Index:	96896
Key Quad:	Clarksburg (3812145)	Element Code:	ABPBXB0020
Occurrence Number:	480	Occurrence Last Updated:	2015-07-07

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed:	1989-05-16	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2014-04-20	Occurrence Rank:	Unknown
Owner/Manager:	DPR-STONE LAKE PARK	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ABOUT 1.5 MI SW OF I-5 & ELK GROVE BLVD INTERSECTION, 1.7 MI NW OF I-5 & HOOD FRANKLIN RD INTXN, NORTH STONE LAKE.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES AND LOCATION DESCRIPTION OF "NORTH STONE LAKE AT WESTERN EDGE WHERE BORROW CHANNEL MEETS THE LAKE." TRS WAS T 6N, R 4E, S11 NE. UC DAVIS TRICOLORED BLACKBIRD PORTAL SITE NAME WAS "NORTH STONE LAKE."

Ecological:
 BLACKBERRY THICKET AT INTERFACE OF BORROW CHANNEL, UPLANDS, BULRUSH MARSH, AND LAKE.

Threats:
 CATTLE GRAZING.

General:
 ABOUT 50-75 BIRDS OBSERVED ON 16 MAY 1989; COLONY SUCCESSFULLY NESTED, INDICATED BY OBSERVATION OF FLEDGED YOUNG. NONE DETECTED ON 20 APR 2014.

PLSS: T06N, R04E, Sec. 11 (M)	Accuracy: 3/5 mile	Area (acres): 0
UTM: Zone-10 N4250349 E630901	Latitude/Longitude: 38.39178 / -121.50108	Elevation (feet): 15

County Summary:	Quad Summary:
Sacramento	Florin (3812144), Clarksburg (3812145)

Sources:

BEE91R0001	BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95842	EO Index: 96986
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020
Occurrence Number: 481	Occurrence Last Updated: 2015-07-14

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1989-05-20	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-19	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.6 MI SSW OF GRANT LINE RD & BOND RD INTERSECTION, 1.5 MI NE OF GRANT LINE RD AT BRADSHAW RD, E OF FALLBROOK.

Detailed Location:
MAPPED GENERALLY TO PROVIDED COORDINATES & LOCATION DESCRIPTION OF "SE OF GRANT LINE ROAD, APPROX. 0.5 MI S OF INTERSECTION OF BOND ROAD." COLONY DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL, SITE NAME "GRANT LINE ROAD AT BOND ROAD."

Ecological:
PRIMARY SUBSTRATE REPORTED AS HIMALAYAN BLACKBERRY. PASTURE LAND, CULTIVATED FIELDS WITH BLACKBERRY HEDGES. 2011 & 2014 SURVEYS PART OF TRIENNIAL STATEWIDE SURVEYS.

Threats:
General:
SEVERAL HUNDRED OBSERVED ON 20 MAY 1989; ADULTS OBSERVED CARRYING FOOD TO COLONY, UNKNOWN IF COLONY FLEDGED YOUNG. ABOUT 4,000 OBSERVED ON 1 JUN 1992; POSSIBLE COLONY, NESTING NOT CONFIRMED. NONE OBSERVED ON 16 APR 2011 & 19 APR 2014.

PLSS: T07N, R06E, Sec. 34 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4253055 E647371	Latitude/Longitude: 38.41359 / -121.31199	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95847	EO Index: 96992
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020
Occurrence Number: 482	Occurrence Last Updated: 2015-07-14

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1990-05-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-04-16	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
JUST N OF CALVINE RD & BADER RD INTERSECTION, 0.5 MI W OF VINEYARD RD & CAPRILLI DR INTERSECTION, NE OF ELK GROVE.

Detailed Location:
MAPPED TO PROVIDED LOCATION DESCRIPTION OF "CALVINE ROAD JUST NORTH OF INTERSECTION OF BADGER ROAD." 2011 SURVEY PART OF TRIENNIAL STATEWIDE SURVEYS, DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL, SITE NAME "CALVINE RD AT BADER RD."

Ecological:
NESTING SUBSTRATE IN 1990 WAS BLACKBERRY THICKETS ADJACENT TO PASTURELAND. COLONY SIZE ABOUT 1-2 ACRES. AERIAL IMAGERY SHOWS THAT DEVELOPMENT STARTED IN EARLY 2000'S. MAJORITY OF AREA IS DEVELOPED. SMALL PATCHES OF GRASSLAND (PARK) REMAINS.

Threats:
DEVELOPMENT.

General:
80-100 PAIRS OBSERVED ON 12 MAY 1990; ADULTS SEEN CARRYING FOOD TO EITHER NESTLINGS OR FLEDGLINGS (NOT CONFIRMED WHICH). NONE OBSERVED ON 16 APR 2011.

PLSS: T07N, R06E, Sec. 16 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4257682 E646107	Latitude/Longitude: 38.45549 / -121.32549	Elevation (feet): 65

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95851	EO Index: 96993
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020
Occurrence Number: 483	Occurrence Last Updated: 2015-07-07

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1996-04-20	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-05-20	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN, PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
VICINITY OF EXELSIOR RD & FLORIN RD INTERSECTION, 1.5 MI S OF HWY 16 & EXELSIOR RD INTERSECTION, 4.2 MI E OF FLORIN PO.

Detailed Location:
MAPPED TO PROVIDED COORDINATES AND LOCATION DESCRIPTIONS OF "JUNCTION OF FLORIN RD & EXCELSIOR RD, SE CORNER" & "N ALONG FLORIN RD, E OF EXCELSIOR ROAD." DETECTIONS WERE EITHER PERSONAL OBSERVATIONS OR PART OF TRIENNIAL STATEWIDE SURVEYS.

Ecological:
PRIMARY SUBSTRATE DESCRIBED AS CATTAILS. DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAMES WERE FLORIN ROAD AT EXELSIOR ROAD # 1 & # 2. TWO PONTENTIAL COLONIES MAPPED.

Threats:
General:
ABOUT 2,500 OBSERVED IN 1995; NESTING UNCONFIRMED. ABOUT 265 DETECTED IN 1996; 10-20 NESTING. ABOUT 1,000 OBSERVED IN 1997; NOT NESTING. NONE OBSERVED IN 2011 AND 2014.

PLSS: T08N, R06E, Sec. 35 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4262291 E648614	Latitude/Longitude: 38.49659 / -121.29579	Elevation (feet): 110

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	95852	EO Index:	96994
Key Quad:	Elk Grove (3812143)	Element Code:	ABPBXB0020
Occurrence Number:	484	Occurrence Last Updated:	2015-07-07

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed:	1990-05-28	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2014-04-19	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN, PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ABOUT 0.3 MI N OF WALMORT RD & DAVIS RD INTERSECTION, 1 MI S OF DILLARD RD & DAVIS RD INTERSECTION, E OF ELK GROVE.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL FOR "WALMORT ROAD AT DAVIS ROAD" SITE. SITE ADDITIONALLY DESCRIBED AS "N FORK OF BADGER CREEK WHERE IT CROSSES DAVIS ROAD, JUST N OF WALMORT RD."

Ecological:
 HIMALAYAN BLACKBERRY THICKETS AND CATTAILS ALONG FENCE ROADS, CREEK, AND DITCH MARGINS. PASTURELANDS AND LOW DENSITY RESIDENTIAL AREAS ADJACENT TO SITE. 1990 COLONY SIZE ABOUT 1-2 ACRES.

Threats:
General:
 ABOUT 25-50 PAIRS OBSERVED ON 28 MAY 1990; ADULTS SEEN FEEDING RECENTLY FLEDGED YOUNG AND CARRYING FOOD INTO BLACKBERRY THICKETS. NONE OBSERVED ON 16 APR 2011 AND 19 APR 2014 DURING TRIENNIAL STATEWIDE SURVEYS.

PLSS:	T06N, R06E, Sec. 12 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4249887 E651928	Latitude/Longitude:	38.38429 / -121.26049	Elevation (feet):	75

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95855	EO Index: 96995
Key Quad: Elk Grove (3812143)	Element Code: ABPBXB0020
Occurrence Number: 485	Occurrence Last Updated: 2015-04-09

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 2014-06-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-06-12	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG FLORIN RD, ABOUT 0.1 MI ESE OF COE LN INTERSECTION, 0.7 MI E OF EXCELSIOR RD INTERSECTION, 3.3 MI E OF FLORIN PO.

Detailed Location:
DATA COLLECTED AS PART OF TRIENNIAL STATEWIDE SURVEYS & SUBSEQUENT PERSONAL OBSERVATIONS, STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME "FLORIN ROAD AT COE LANE." S SIDE OF FLORIN RD, JUST E OF COE LANE.

Ecological:
NESTING SUBSTRATE WAS HIMALAYAN BLACKBERRY AND CATTAILS, WATER PRESENT. ABOUT 400 OBSERVED FORAGING IN NEARBY GRASSLANDS ON 20 APR 2014. BLACKBERRY THICKETS VISIBLE IN GOOGLMAPS STREET VIEW.

Threats:
General:
~200 OBSERVED IN 2008; COLONY WAS QUIET & INCUBATION INFERRED. 0 OBSERVED IN 2011. BETWEEN 700-4,500 BIRDS OBS FROM 15 MAY-10 JUN 2014, ~200 OBS 11-12 JUN 2014; BIRDS OBS FEEDING YOUNG, CARRYING FOOD, EGGS HATCHING, SINGING, & BATHING.

PLSS: T07N, R06E, Sec. 03 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4262176 E647194	Latitude/Longitude: 38.49579 / -121.31209	Elevation (feet): 80

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
TRI14D0001 TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	95879	EO Index:	97017
Key Quad:	Sacramento West (3812155)	Element Code:	ABPBXB0020
Occurrence Number:	486	Occurrence Last Updated:	2015-04-13

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed:	1934-06-04	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1934-06-04	Occurrence Rank:	None
Owner/Manager:	DFG-YOLO BYPASS WA	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
 ABOUT 1.9 MI W OF I-80 & BUSSINESS 80 FWY INTERSECTION, 7 MI E OF DAVIS, YOLO BYPASS WILDLIFE AREA.

Detailed Location:
 MAPPED GENERALLY AS BEST GUESS TO PROVIDED LOCATION DESCRIPTION OF "SIX MILES WEST OF SACRAMENTO." EXACT LOCATION UNKNOWN. MAPPED ABOUT 6 MIILES W OF DOWNTOWN SACRAMENTO.

Ecological:
 HABITAT COMPOSED OF CATTAIL MARSH AND THISTLES/MUSTARD ALONG LEVEE.

Threats:
General:
 ABOUT 5,000 NESTS OBSERVED ON 21 MAY 1932. ABOUT 2,000 NESTS OBSERVED ON 4 JUN 1934 (NEFF 1937). COLONY DESCRIBED AS BEING EXTIRPATED ACCORDING TO BEEDY (1991).

PLSS: T08N, R03E, Sec. 01 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4270435 E622129	Latitude/Longitude: 38.57399 / -121.59799	Elevation (feet): 10

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:

BEE91R0001	BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
NEF37R0001	NEFF, J.A. - DISTRIBUTION OF THE TRICOLORED RED WING. THE CONDOR 39(2): 61-81. 1937-03-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95883	EO Index: 97021
Key Quad: Sacramento West (3812155)	Element Code: ABPBXB0020
Occurrence Number: 487	Occurrence Last Updated: 2015-07-07

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1933-06-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-20	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
ABOUT 1.6 MI SW OF JEFFERSON BLVD & GREGORY AVE INTERSECTION, ADJACENT TO DEEP WATER SHIPPING CHANNEL, NW OF RIVERVIEW.

Detailed Location:
MAPPED GENERALLY TO PROVIDED 1933 LOCATION DESCRIPTION OF "6 MI. SW SACRAMENTO." MEASUREMENT TAKEN FROM DOWNTOWN SACRAMENTO. 2005-2014 DATA PART OF TRIENNIAL STATEWIDE SURVEYS, PART OF UC DAVIS TRICOLORED BLACKBIRD PORTAL.

Ecological:
1933 HABITAT GENERALLY DESCRIBED AS CATTAIL MARSH. 2005-2014 HABITAT DESCRIBED AS BULL THISTLE. SITE NAME IN PORTAL WAS "PORT OF SACRAMENTO #3" & "SOUTHWEST SACRAMENTO." EXACT LOCATION OF 1933 COLONY UNKNOWN. 2 POSSIBLE COLONIES MAPPED.

Threats:
General:
ABOUT 3,000 NESTS OBSERVED ON 1 JUN 1933 (NEFF 1937). ABOUT 2,000 OBSERVED ON 13 JUN 2005; NESTING NOT CONFIRMED. NONE OBSERVED ON 17 APR 2011 AND 20 APR 2014. COLONY PRESUMED EXTIRPATED BY BEEDY (1991).

PLSS: T08N, R04E, Sec. 30 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4264148 E623995	Latitude/Longitude: 38.51709 / -121.57769	Elevation (feet): 10

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
NEF37R0001	NEFF, J.A. - DISTRIBUTION OF THE TRICOLORED RED WING. THE CONDOR 39(2): 61-81. 1937-03-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95903	EO Index: 97047
Key Quad: Rio Linda (3812164)	Element Code: ABPBXB0020
Occurrence Number: 494	Occurrence Last Updated: 2015-07-07

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1998-05-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-20	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
GENERAL AREA BETWEEN DRY CREEK RD AND PATROL ROAD, S OF ASCOT AVE, W OF MCCLELLAN AIR FORCE BASE, SE OF RIO LINDA.

Detailed Location:
MAPPED GENERALLY TO PROVIDED COORDINATE AND POSSIBLE SUITABLE HABITAT BASED ON 1993-2014 AERIAL IMAGERY (GOOGLEEARTH). COLONY DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME "MCCLELLAN AFB."

Ecological:
1998 HABITAT DESCRIBED AS SMALL TULE MARSH. TRICOLORED BLACKBIRD PORTAL DESCRIBES HABITAT AS BULRUSH OR TULE. AERIAL IMAGERY SHOWS THAT SURROUNDING AREA HAS BEEN SUBSTANTIALLY DEVELOPED. IMPACT ON BIRDS NOT DETERMINED.

Threats:
General:
BREEDING COLONY OF A FEW HUNDRED OBSERVED ON 18 MAY 1998 FLYING IN AND OUT OF SITE. OBSERVED ON 20 APR 2014 DURING STATEWIDE SURVEY; SITE OBSERVED FOR ABOUT 17 MINUTES.

PLSS: T09N, R05E, Sec. 03 (M)	Accuracy: 3/5 mile	Area (acres): 0
UTM: Zone-10 N4280233 E636905	Latitude/Longitude: 38.66009 / -121.42649	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	95971	EO Index:	97125
Key Quad:	Carmichael (3812153)	Element Code:	ABPBXB0020
Occurrence Number:	499	Occurrence Last Updated:	2015-04-23

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed:	2015-04-18	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2015-04-18	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 S SIDE OF ELDER CREEK RD, ABOUT 0.25 MI W OF INTERSECTION W/ EXCELSIOR RD INTERSECTION, 4 MI ENE OF FLORIN POST OFFICE.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES. SURVEYS CONDUCTED AS PART OF TRIENNIAL SURVEYS; DATA STORED IN UC DAVIS TRBL PORTAL, SITE NAME "FIVE PALM TREES." ONE BIRD WITH WHITE BAND OBSERVED IN 2015, BIRD LIKELY FROM 2007.

Ecological:
 2 PATCHES OF BLACKBERRIES ABOUT 15-20 FEET APART, BOTH OCCUPIED. WATER ADJACENT. NESTING OR SIGNS OF NESTING NOT REPORTED IN 1994-2011. ABOUT 111 FLEDGLINGS OBSERVED IN 2014. BLACKBERRY THICKETS VISIBLE FROM GOOGLE MAPS STREET VIEW.

Threats:
General:
 ABOUT 2,750 OBSERVED IN 1994. ABOUT 220 OBSERVED IN 2000. 500-700 OBSERVED IN 2008. 0 OBSERVED IN 2011. 300-1,000 OBSERVED IN 2014; BREEDING BEHAVIOR & FLEDGLINGS OBSERVED. 1,200-1,500 OBSERVED IN 2015; CARRYING NEST MATERIAL, BREEDING.

PLSS: T08N, R06E, Sec. 34 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4263823 E648002	Latitude/Longitude: 38.51049 / -121.30249	Elevation (feet): 90

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
 TRI14D0001 TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 96000	EO Index: 97150
Key Quad: Carmichael (3812153)	Element Code: ABPBXB0020
Occurrence Number: 500	Occurrence Last Updated: 2015-04-30

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 2014-06-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2015-04-24	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
N SIDE OF JACKSON RD, ABOUT 0.2 MI E OF INTERSECTION W/ MAYHEW RD, 0.3 MI NW OF INTXN W/ BRADSHAW RD, SE OF ROSEMONT.

Detailed Location:
MAPPED TO DESCRIBED HABITAT NEAR COORDINATES. DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL, SITE NAME "JACKSON HWY - ASPEN IV WASHWATER PONDS." A FLOCK OF 5 POSSIBLE TRBL OBSERVED ON 17 APR 2015, NOT CONFIRMED, MORE RESEARCH NEEDED.

Ecological:
NARROW POND BEHIND VEGETATION SCREENING. POND IS PART OF A WATER RECYCLING SYSTEM USED TO WASH SOIL FROM THE AGGREGATED BEING TRANSPORTED BY CONVEYOR TO PLANT TO THE WEST. EXTENSIVE STAND OF CATTAIL NORTH OF BERM.

Threats:
General:
2014: ABOUT 200 OBSERVED ON 8 JUN, NESTING. ABOUT 500 OBSERVED FLYING IN AND OUT OF COLONY ON 12 JUN, 4 FLEDGLINGS HEARD AND SEEN, MANY MORE HEARD BEGGING. ABOUT 300 OBSERVED ON 19 JUN, FLEDGLINGS OBS. 2015: NONE OBS IN APR.

PLSS: T08N, R06E, Sec. 20 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4266195 E644732	Latitude/Longitude: 38.53239 / -121.33949	Elevation (feet): 70

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
TR114D0001 TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 96036	EO Index: 97185
Key Quad: Carmichael (3812153)	Element Code: ABPBXB0020
Occurrence Number: 501	Occurrence Last Updated: 2015-07-31

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 2013-05-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-05-20	Occurrence Rank: Fair
Owner/Manager: UNKNOWN, PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ON S SIDE OF JACKSON RD, 0.4 MI ESE OF EAGLES NEST RD INTERSECTION, 0.6 MI WNW OF SUNRISE BLVD INTXN, W OF BLODGETT DAM.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. COLONY WAS ESTABLISHED ON S SIDE OF JACKSON RD, JUST E OF EAGLE NEST RD. BIRDS FORAGING ON THE N SIDE OF JACKSON HWY. OBSERVATION DATA STORED IN UC DAVIS TRBL PORTAL; SITE NAME WAS "JACKSON HWY QUARRY."

Ecological:
NESTING SUBSTRATE WAS BULL (MILK) THISTLE. STAND COULD BE SEEN FROM JACKSON HWY TO THE SOUTH. THISTLE PATCH WAS IN SMALL RAVINE CLOSE TO PERIMETER FENCE. 2013 FLOCK IN FIELD ADJACENT TO PREVIOUS NEST COLONY SITE SEEN DURING DRIVE-BY.

Threats:
POSSIBLY THREATENED BY FUTURE DEVELOPMENT OF FORAGING AREAS TO THE NORTH, AND CHANGES IN QUARRY OPERATIONS TO THE SOUTH.

General:
~500 OBSERVED ON 3 JUN 2010; RECORDED AS NESTING IN NOTES. ~600 OBS ON 6 JUN 2012; ADULTS OBS CARRYING FOOD. ~200 OBS NEAR PREVIOUS NEST COLONY IN 27 APR 2013. ~400 OBS CARRYING FOOD ON 25 MAY 2013; BREEDING. 0 OBS ON 21 APR & 20 MAY 2014.

PLSS: T08N, R07E, Sec. 31 (M)	Accuracy: nonspecific area	Area (acres): 32
UTM: Zone-10 N4263587 E652322	Latitude/Longitude: 38.50764 / -121.25301	Elevation (feet): 80

County Summary: Sacramento	Quad Summary: Buffalo Creek (3812152), Carmichael (3812153)
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Sources:

GRA13F0007	GRAY, F. B. - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR 2013-05-25
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 96040	EO Index: 97187
Key Quad: Buffalo Creek (3812152)	Element Code: ABPBXB0020
Occurrence Number: 502	Occurrence Last Updated: 2015-08-03

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 2010-06-07	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2015-04-26	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST W OF SUNRISE BLVD, 0.3 MI SW OF JACKSON RD INTERSECTION, 0.5 MI NW OF FLORIN RD INTERSECTION, W OF SLOUGHHOUSE.

Detailed Location:
APPROXIMATELY 5-6 COLONIES MAPPED, EXACT LOCATION OF COLONIES UNCLEAR. SURVEY DATA STORED IN UC DAVIS TRBL PORTAL. MAPPED TO COORDINATES PROVIDED BY UCD TRBL PORTAL FOR COLONY SITES. DIFFERENT COLONIES BRED IN DIFFERENT YEARS.

Ecological:
THISTLE BECOMING MORE ESTABLISHED AROUND CATCHMENT BASIN. NESTING OR SIGNS OF NESTING NOT REPORTED FOR 2011-15. LIMITED ACCESS TO PROPERTY REPORTED, PERMISSION REQUIRED FROM OFFICES. MANY SURVEYS CONDUCTED FROM ROADS, MORE RESEARCH NEEDED.

Threats:
POTENTIAL THREAT FROM MINING ACTIVITIES.

General:
~205 BIRDS OBSERVED IN 1995; FEMALES OBS CARRYING FECAL SACS & FOOD. 1-5K OBS APR 2005. BETWEEN 50-500 OBS IN APR 2008; INCUBATION INFERRED. ~550 OBS IN JUN 2010; 80 FLEDGLINGS OBS. ~100 OBS IN 2011. ~2K OBS IN 2014. ~300 OBS IN 2015.

PLSS: T08N, R07E, Sec. 31 (M)	Accuracy: nonspecific area	Area (acres): 71
UTM: Zone-10 N4263016 E652786	Latitude/Longitude: 38.50241 / -121.24782	Elevation (feet): 115

County Summary:	Quad Summary:
Sacramento	Sloughhouse (3812142), Elk Grove (3812143), Buffalo Creek (3812152), Carmichael (3812153)

Sources:

DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 63557

EO Index: 63652

Key Quad: Clarksburg (3812145)

Element Code: ABPBXB3010

Occurrence Number: 9

Occurrence Last Updated: 2005-12-29

Scientific Name: *Xanthocephalus xanthocephalus*

Common Name: yellow-headed blackbird

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: CDFW_SSC-Species of Special Concern

CNDDDB Element Ranks: **Global:** G5

IUCN_LC-Least Concern

State: S3

General Habitat:

NESTS IN FRESHWATER EMERGENT WETLANDS WITH DENSE VEGETATION & DEEP WATER. OFTEN ALONG BORDERS OF LAKES OR PONDS.

Micro Habitat:

NESTS ONLY WHERE LARGE INSECTS SUCH AS ODONATA ARE ABUNDANT, NESTING TIMED WITH MAXIMUM EMERGENCE OF AQUATIC INSECTS.

Last Date Observed: 1899-06-10

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1899-06-10

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

0.5 MI SOUTH OF FREEPORT.

Detailed Location:

Ecological:

Threats:

General:

MVZ #954-957 (EGG SETS) COLLECTED 10 JUN 1899 BY R. H. ELLIOTT.

PLSS: T07N, R04E, Sec. 23 (M)

Accuracy: 1/5 mile

Area (acres): 0

UTM: Zone-10 N4256965 E630771

Latitude/Longitude: 38.45140 / -121.50133

Elevation (feet): 5

County Summary:

Quad Summary:

Sacramento, Yolo

Florin (3812144), Clarksburg (3812145)

Sources:

MVZ03S0013 MUSEUM OF VERTEBRATE ZOOLOGY (UNIVERSITY OF CALIFORNIA, BERKELEY) - PRINTOUT OF MVZ SPECIMEN DATABASE FOR XANTHOCEPHALUS XANTHOCEPHALUS. 2003-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 73905	EO Index: 74903
Key Quad: Sacramento West (3812155)	Element Code: AFCHA0205A
Occurrence Number: 17	Occurrence Last Updated: 2009-03-13

Scientific Name: <i>Oncorhynchus tshawytscha</i>	Common Name: chinook salmon - Central Valley spring-run ESU
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: AFS_TH-Threatened
CNDDB Element Ranks:	
Global: G5	
State: S1	

General Habitat:	Micro Habitat:
ADULT NOS. DEPEND ON POOL DEPTH & VOLUME, AMOUNT OF COVER, & PROXIMITY TO GRAVEL. WATER TEMPS >27 C IS LETHAL TO ADULTS	FEDERAL LISTING REFERS TO POPS SPAWNING IN SACRAMENTO RIVER & TRIBUTARIES.

Last Date Observed: 2004-05-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-05-25	Occurrence Rank: Poor
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
 BARGE CANAL AT LOCK (JEFFERSON BLVD), SACRAMENTO DEEP WATER SHIP CHANNEL, WEST SACRAMENTO.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES.

Ecological:
 MAN MADE CHANNEL FOR CARGO SHIPS. LOCKS NO LONGER IN USE. RIVER BANKS VARY FROM RIPRAP TO VERTICAL CEMENT WALLS.

Threats:
 THREATENED BY MIGRATION BARRIERS AND JEFFERSON ST BRIDGE CONSTRUCTION.

General:
 A TOTAL OF 1 ADULT AND 26 JUVENILES (SMOLT SIZE) WERE CAPTURED ON THE FOLOWING DATES: 14 JAN, 3 & 24 FEB, 21 MAR, AND 25 MAY 2004.

PLSS: T08N, R04E, Sec. 10 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4269112 E628268	Latitude/Longitude: 38.56120 / -121.52778	Elevation (feet): 20

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
 HOC04F0004 HOCHGRAF, K. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR ONCORHYNCHUS TSHAWYTSCHA SPRING-RUN 2004-05-25



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 73905	EO Index: 74920
Key Quad: Sacramento West (3812155)	Element Code: AFCHA0205B
Occurrence Number: 2	Occurrence Last Updated: 2009-03-19

Scientific Name: <i>Oncorhynchus tshawytscha</i>	Common Name: chinook salmon - Sacramento River winter-run ESU
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Endangered	Other Lists: AFS_EN-Endangered
CNDDB Element Ranks:	
Global: G5	
State: S1	

General Habitat:	Micro Habitat:
SACRAMENTO RIVER BELOW KESWICK DAM. SPAWNS IN THE SACRAMENTO RIVER BUT NOT IN TRIBUTARY STREAMS.	REQUIRES CLEAN, COLD WATER OVER GRAVEL BEDS WITH WATER TEMPERATURES BETWEEN 6 & 14 C FOR SPAWNING.

Last Date Observed: 2004-01-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-01-13	Occurrence Rank: Poor
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
 BARGE CANAL AT LOCK (JEFFERSON BLVD), SACRAMENTO DEEP WATER SHIP CHANNEL, WEST SACRAMENTO.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES AND LOCATION DESCRIPTION.

Ecological:
 MAN MADE CHANNEL FOR CARGO SHIPS. LOCKS NO LONGER IN USE. RIVER BANKS VARY FROM RIPRAP TO VERTICAL CEMENT WALLS.

Threats:
 THREATENED BY MIGRATION BARRIERS (BOAT LOCKS) AND JEFFERSON ST BRIDGE CONSTRUCTION.

General:
 A TOTAL OF 36 ADULTS AND 11 JUVENILES (SMOLT SIZE) WERE CAPTURED ON THE FOLOWING DATES: 9, 10, 11, 15, 17 & 18 DEC 2003; 12 & 13 JAN 2004.

PLSS: T08N, R04E, Sec. 10 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4269112 E628268	Latitude/Longitude: 38.56120 / -121.52778	Elevation (feet): 20

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
 HOC04F0003 HOCHGRAF, K. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR ONCORHYNCHUS TSHAWYTSCHA WINTER-RUN 2004-01-13



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	90973	EO Index:	92020
Key Quad:	Roseville (3812173)	Element Code:	AFCHA0209K
Occurrence Number:	3	Occurrence Last Updated:	2014-03-28

Scientific Name:	<i>Oncorhynchus mykiss irideus</i>		Common Name:	steelhead - Central Valley DPS
Listing Status:	Federal:	Threatened	Rare Plant Rank:	
	State:	None	Other Lists:	AFS_TH-Threatened
CNDDB Element Ranks:	Global:	G5T2Q		
	State:	S2		

General Habitat:	Micro Habitat:
POPULATIONS IN THE SACRAMENTO AND SAN JOAQUIN RIVERS AND THEIR TRIBUTARIES.	□

Last Date Observed:	2007-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-XX-XX	Occurrence Rank:	Poor
Owner/Manager:	UNKNOWN	Trend:	Decreasing
Presence:	Presumed Extant		

Location:
 DRY CREEK AND ITS TRIBUTARIES SECRET RAVINE AND MINERS RAVINE.

Detailed Location:
 MAPPED TO REACHES OF DRY CREEK & OCCUPIED TRIBUTARIES CURRENTLY NAVIGABLE BY STEELHEAD. COTTONWOOD DAM WAS TOTAL BARRIER ON MINERS PRIOR TO ITS FAILURE IN 2009. ALL SPAWNING REPORTS FROM U/S OF WASTEWATER TREATMENT PLANT (38.736, -121.316).

Ecological:
 MAINSTEM DRY CREEK (DC) USED AS MIGRATORY CORRIDOR, BUT WATER QUALITY & SUBSTRATE TOO DEGRADED TO SUPPORT SPAWNING. SPAWNING & REARING HABITAT UPSTREAM, IN SECRET (SR) & MINERS (MR) RAVINES.

Threats:
 BANK DESTABILIZATION/EROSION, VEG REMOVAL, CHANNELIZATION, POLLUTION, BARRIERS, LOW FLOWS, URBANIZATION, SILTATION.

General:
 1998-2000: ESTIMATED RUN TO UPPER DC "A FEW 100"; JUVENILES CAUGHT AT MR/SR CONFLUENCE, PRESUMED PRESENT IN BOTH TRIBS. '04-05 ELECTROFISHING SURVEYS CAUGHT 136 O. MYKISS IN SR, 0 IN DC & MR. EVIDENCE OF SPAWNING OBS IN SR IN 2007.

PLSS:	T11N, R06E, Sec. 36 (M)	Accuracy:	nonspecific area	Area (acres):	4,977
UTM:	Zone-10 N4291660 E651767	Latitude/Longitude:	38.76061 / -121.25324	Elevation (feet):	

County Summary:	Quad Summary:
Placer, Sacramento	Folsom (3812162), Citrus Heights (3812163), Rio Linda (3812164), Pilot Hill (3812171), Rocklin (3812172), Roseville (3812173)

Sources:

ECO08R0019	ECORP CONSULTING, INC. - TECHNICAL MEMORANDUM ON SECRET RAVINE CREEK AND SPECIAL-STATUS FISH, PUBLIC DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE ROCKLIN CROSSINGS PROJECT. 2008-XX-XX
JOH13U0001	JOHNSON, M. - STATUS UPDATE - CHINOOK SALMON IN THE AUBURN RAVINE WATERSHED: MEMORANDUM TO PLACER COUNTY BOARD OF SUPERVISORS. 2013-01-08
NMF09R0001	NATIONAL MARINE FISHERIES SERVICE (NOAA) - CALIFORNIA CENTRAL VALLEY SALMON & STEELHEAD DRAFT RECOVERY PLAN, APPENDIX A: CENTRAL VALLEY WATERSHED PROFILES. 2009-10-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 90985	EO Index: 92033
Key Quad: Citrus Heights (3812163)	Element Code: AFCHA0209K
Occurrence Number: 5	Occurrence Last Updated: 2014-02-26

Scientific Name: <i>Oncorhynchus mykiss irideus</i>	Common Name: steelhead - Central Valley DPS
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: AFS_TH-Threatened
CNDDB Element Ranks:	
Global: G5T2Q	
State: S2	

General Habitat: POPULATIONS IN THE SACRAMENTO AND SAN JOAQUIN RIVERS AND THEIR TRIBUTARIES.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 2012-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2012-XX-XX	Occurrence Rank: Poor
Owner/Manager: SAC COUNTY, CITY OF SACRAMENTO	Trend: Decreasing
Presence: Presumed Extant	

Location:
LOWER AMERICAN RIVER, FROM ITS MOUTH IN THE SACRAMENTO RIVER TO THE NIMBUS HATCHERY DAM (RM23).

Detailed Location:
MAPPED TO 23 MI OF RIVER CURRENTLY NAVIGABLE BY STEELHEAD (SH). OLD FOLSOM DAM (RM27) BUILT 1895; NIMBUS AND FOLSOM DAMS BUILT 1955, CUT OFF NEARLY ALL OF SPAWNING HABITAT. RSTS FISHED BELOW WATT BRIDGE AT RM9.

Ecological:
80-100% OF ADULTS OBSERVED IN RIVER DURING 2003-2012 SPAWNING SURVEYS & 92-99% OF RETURNS TO HATCHERY 2001-10 WERE HATCHERY-ORIGIN (HO). NIMBUS HATCHERY SH EXCLUDED FROM DPS; EGGS IMPORTED FROM EEL RIVER (1955-62) WA & OR (1969-73, '80-81).

Threats:
DAM, HABITAT LOSS. SMALL WILD POP SWAMPED W/ HO SH. HIGH WATER TEMP & RELATED DISEASES. REDD DEWATERING. BASS PREDATION.

General:
1944-47: SUMMER RUN OF 400-1,246; GONE BY 1955. WINTER RUN ESTS: 3K-5K (LATE 60S); >19K (1971-72); >12K (1973-74); 255-1,462 (1990-93). RST CATCH 1994-99: 30-145; >2K IN 2012. # REDDS/YEAR: 155-215 (2002-05), 172 ('07), 89 ('11), 76 ('12).

PLSS: T09N, R06E, Sec. 14 (M)	Accuracy: nonspecific area	Area (acres): 2,592
UTM: Zone-10 N4276902 E648185	Latitude/Longitude: 38.62828 / -121.29761	Elevation (feet):

County Summary: Sacramento	Quad Summary: Carmichael (3812153), Sacramento East (3812154), Folsom (3812162), Citrus Heights (3812163)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

CON13R0001	CONSTANTINEDES, N. & J. SILVA - JUVENILE SALMONID EMIGRATION MONITORING IN THE LOWER AMERICAN RIVER, CALIFORNIA JANUARY - JUNE 2013 2013-XX-XX
GER71R0001	GERSTUNG, E. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - A REPORT TO THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD ON THE FISH AND WILDLIFE RESOURCES OF THE AMERICAN RIVER TO BE AFFECTED BY THE AUBURN DAM... 1971-06-XX
HAN05R0001	HANNON, J. & B. DEASON (U.S. BUREAU OF RECLAMATION) - AMERICAN RIVER STEELHEAD (ONCORHYCHUS MYKISS) SPAWNING 2001-2005 2005-10-27
HAN11R0002	HANNON, J. (U.S. BUREAU OF RECLAMATION) - AMERICAN RIVER STEELHEAD (ONCORHYNCHUS MYKISS) SPAWNING - 2011, WITH COMPARISONS TO PRIOR YEARS. 2011-XX-XX
HAN12R0002	HANNON, J. (U.S. BUREAU OF RECLAMATION) - AMERICAN RIVER STEELHEAD (ONCORHYNCHUS MYKISS) SPAWNING - 2012, WITH COMPARISONS TO PRIOR YEARS. 2012-XX-XX
HSR12R0004	CALIFORNIA HATCHERY SCIENTIFIC REVIEW GROUP - CALIFORNIA HATCHERY REVIEW PROJECT - APPENDIX VIII: NIMBUS FISH HATCHERY STEELHEAD PROGRAM REPORT 2012-06-XX
MCE96R0001	MCEWAN, D. & T. JACKSON (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - STEELHEAD RESTORATION AND MANAGEMENT PLAN FOR CALIFORNIA. 1996-XX-XX
NMF09R0001	NATIONAL MARINE FISHERIES SERVICE (NOAA) - CALIFORNIA CENTRAL VALLEY SALMON & STEELHEAD DRAFT RECOVERY PLAN, APPENDIX A: CENTRAL VALLEY WATERSHED PROFILES. 2009-10-XX
NMF11R0002	NATIONAL MARINE FISHERIES SERVICE (NOAA) - CENTRAL VALLEY RECOVERY DOMAIN 5-YEAR REVIEW: SUMMARY AND EVALUATION OF CENTRAL VALLEY STEELHEAD DPS. 2011-XX-XX
SNI00R0005	SNIDER, B. & R. TITUS (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - LOWER AMERICAN RIVER EMIGRATION SURVEY, OCTOBER 1996 - SEPTEMBER 1997. 2000-01-XX
SNI01R0001	SNIDER, B. & R. TITUS (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - LOWER AMERICAN RIVER EMIGRATION SURVEY, OCTOBER 1997 - SEPTEMBER 1998. 2001-12-XX
SNI02R0001	SNIDER, B. & R. TITUS (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - LOWER AMERICAN RIVER EMIGRATION SURVEY, OCTOBER 1998 - SEPTEMBER 1999. 2002-09-XX
SNI97R0001	SNIDER, B. ET AL. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - LOWER AMERICAN RIVER EMIGRATION SURVEY, NOVEMBER 1994 - SEPTEMBER 1995. 1997-09-XX
SNI98R0001	SNIDER, B. ET AL. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - LOWER AMERICAN RIVER EMIGRATION SURVEY, OCTOBER 1995 - SEPTEMBER 1996. 1998-09-XX
STA76R0001	STALEY, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - AMERICAN RIVER STEELHEAD (SALMO GAIRDNERII GAIRDNERII) MANAGEMENT, 1956-1974. 1976-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 91514	EO Index: 92591	
Key Quad: Carbondale (3812141)	Element Code: AFCHA0209K	
Occurrence Number: 24	Occurrence Last Updated: 2014-02-10	

Scientific Name: <i>Oncorhynchus mykiss irideus</i>	Common Name: steelhead - Central Valley DPS
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: AFS_TH-Threatened
CNDDDB Element Ranks:	
Global: G5T2Q	
State: S2	

General Habitat: POPULATIONS IN THE SACRAMENTO AND SAN JOAQUIN RIVERS AND THEIR TRIBUTARIES.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 2013-01-07	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2013-01-07	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
COSUMNES RIVER, FROM ITS MOUTH IN THE MOKELUMNE RIVER TO LATROBE FALLS (~RM37.25).

Detailed Location:
MAPPED TO RIVER REACH CURRENTLY ACCESSIBLE BY STEELHEAD (SH); LATROBE FALLS IS A NATURAL BARRIER TO ANADROMY. RECENT JUVENILE DETECTIONS BELOW LOW-WATER CROSSING AT ~RM6.75, THOUGH ADULTS SEEN ABOVE IT; IT MAY BE A BARRIER TO JUVENILE SH.

Ecological:
COSUMNES MAY HOST NON-NATAL REARING HABITAT FOR SH FROM MOKELUMNE, OTHER NEARBY RIVERS. AVAILABLE HABITAT LOW-ELEVATION, LIKELY ONLY SUITABLE FOR SPAWNING IN WET YEARS. SH SEEN RECENTLY PRESUMED HATCHERY STRAYS. UNK IF HISTORIC RUN EXISTED.

Threats:
DESPITE ABSENCE OF MAJOR DAM, HABITAT DEGRADED DUE TO ALTERED STREAM MORPHOLOGY.

General:
1 PRESUMED "STEELHEAD" CAUGHT IN GILL NET SAMPLES, 5-6 FEB 1974. 0 TROUT CAUGHT IN 2000, 1 IN 2001, & 12 IN 2002 IN QUARTERLY ELECTROFISHING SAMPLES. 7 AD-CLIPPED SH, 16-27", RECORDED PAST CAMERA TRAP AT GRANLEES DAM 6 DEC 2012-7 JAN 2013.

PLSS: T08N, R08E, Sec. 35 (M)	Accuracy: nonspecific area	Area (acres): 4,344
UTM: Zone-10 N4262685 E668600	Latitude/Longitude: 38.49658 / -121.06664	Elevation (feet):

County Summary: Amador, El Dorado, Sacramento, San Joaquin	Quad Summary: Galt (3812133), Bruceville (3812134), Carbondale (3812141), Sloughhouse (3812142), Elk Grove (3812143), Folsom SE (3812151)
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Sources:

CAY74U0001 CAYWOOD ET AL. (CALIFORNIA STATE UNIVERSITY, SACRAMENTO) - COSUMNES RIVER FISH SAMPLING RECORDS, 1973-1974. 1974-04-23

JEF14U0001 JEFFRES, C. (UNIVERSITY OF CALIFORNIA, DAVIS) - EMAIL REGARDING STEELHEAD IN THE COSUMNES RIVER. 2014-01-28

KEN14U0001 KENNEDY, T. (FISHERY FOUNDATION OF CALIFORNIA) - EMAIL AND EXCEL TABLE REGARDING STEELHEAD RECORDED BY VAKI RIVERWATCHER CAMERA AT GRANLEES DAM, COSUMNES RIVER, DEC 2012 - JAN 2013. 2014-01-27

MAR07A0001 MARSH, G. - HISTORIC AND PRESENT DISTRIBUTION OF CHINOOK SALMON AND STEELHEAD IN THE CALAVERAS RIVER. 2007-XX-XX

MOYNDU0001 MOYLE, P. & P. CRAIN (UNIVERSITY OF CALIFORNIA, DAVIS) - COSUMNES RESEARCH GROUP PHASE 1, REPORT 1B: AQUATIC RESOURCE SURVEY FOR LOWER COSUMNES AND MOKELUMNE RIVERS: FISHES. XXXX-XX-XX

NMF09R0001 NATIONAL MARINE FISHERIES SERVICE (NOAA) - CALIFORNIA CENTRAL VALLEY SALMON & STEELHEAD DRAFT RECOVERY PLAN, APPENDIX A: CENTRAL VALLEY WATERSHED PROFILES. 2009-10-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 91603	EO Index: 92687
Key Quad: Bouldin Island (3812115)	Element Code: AFCHA0209K
Occurrence Number: 27	Occurrence Last Updated: 2014-02-27

Scientific Name: <i>Oncorhynchus mykiss irideus</i>	Common Name: steelhead - Central Valley DPS
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: AFS_TH-Threatened
CNDDDB Element Ranks:	
Global: G5T2Q	
State: S2	

General Habitat:	Micro Habitat:
POPULATIONS IN THE SACRAMENTO AND SAN JOAQUIN RIVERS AND THEIR TRIBUTARIES.	□

Last Date Observed: 2012-05-07	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2012-05-07	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN, DFG, TNC	Trend: Decreasing
Presence: Presumed Extant	

Location:
SACRAMENTO-SAN JOAQUIN DELTA, FROM CHIPPS ISLAND TO SAN JOAQUIN R AT DOS REIS(RM51) & SACRAMENTO R AT GARCIA BEND (RM49).

Detailed Location:
AREA OF DELTA MAPPED INCLUDES 19 BEACH SEINE SITES AT WHICH STEELHEAD WERE REGULARLY DETECTED, 1976-2012; VARIOUS MIDWATER TRAWL SITES SAMPLED 1968-2005; AND THE CHIPPS ISLAND TRAWL SITE, OPERATED SINCE 1976.

Ecological:
LOWER RIVERS & DELTA MOSTLY UNSUITABLE FOR REARING DUE TO HIGH WATER TEMPS; FUNCTION MAINLY AS MIGRATORY CORRIDOR. 2012 TELEMETRY STUDY SHOWED MAIN JUVENILE EMIGRATION ROUTE THROUGH MAINSTEM SACRAMENTO R; & MIGRATORY SUCCESS LESS THAN 25%.

Threats:
ENTRAINMENT; DREDGING; BANK EROSION; CHANNEL OCCLUSION BY SILT & AQUATIC VEGETATION; POLLUTED RUNOFF.

General:
ANNUAL SEINE CATCH 1-136 (HIGH IN 1995) SINCE 1976; OVER 90% HATCHERY-ORIGIN (HO) FROM 2000-2012. CHIPPS TRAWL CATCH 9-488 (HIGH IN '95); %HO INCREASED FROM 2000-12. ANALYSIS SUGGESTS PRODUCTION OF 100-300K WILD SMOLTS/YR; MAY BE DECLINING.

PLSS: T03N, R03E, Sec. 13 (M)	Accuracy: nonspecific area	Area (acres): 55,159
UTM: Zone-10 N4218343 E622752	Latitude/Longitude: 38.10457 / -121.59990	Elevation (feet):

County Summary:	Quad Summary:
Contra Costa, Sacramento, San Joaquin, Solano, Yolo	Lathrop (3712173), Stockton West (3712183), Holt (3712184), Woodward Island (3712185), Terminous (3812114), Bouldin Island (3812115), Jersey Island (3812116), Antioch North (3812117), Honker Bay (3812118), Thornton (3812124), Isleton (3812125), Rio Vista (3812126), Courtland (3812135), Liberty Island (3812136), Florin (3812144), Clarksburg (3812145)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

BDA06D0001	BAY DELTA AND TRIBUTARIES PROJECT - BAY DELTA AND TRIBUTARIES PROJECT WEBSITE STEELHEAD DOWNLOAD [1/12/2006 BDAT WEBSITE] 2006-01-12
DEK13R0001	DEKAR, M. ET AL. (U.S. FISH AND WILDLIFE SERVICE) - USFWS DELTA JUVENILE FISH MONITORING PROGRAM REVIEW: BACKGROUND REPORT PREPARED FOR REVIEW BY THE IEP SCIENCE ADVISORY GROUP. 2013-06-XX
FFC07R0001	FISHERY FOUNDATION OF CALIFORNIA - WESTERN DELTA SEINE SURVEY 2005-2006. 2007-03-XX
FOS05A0001	FOSS, S. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - SALVAGE OF HATCHERY-RELEASED JUVENILE STEELHEAD AT THE STATE WATER PROJECT AND CENTRAL VALLEY PROJECT FISH FACILITIES. 2005-XX-XX
NMF11R0002	NATIONAL MARINE FISHERIES SERVICE (NOAA) - CENTRAL VALLEY RECOVERY DOMAIN 5-YEAR REVIEW: SUMMARY AND EVALUATION OF CENTRAL VALLEY STEELHEAD DPS. 2011-XX-XX
NOB01A0001	NOBRIGA, M. & P. CADRETT - DIFFERENCES AMONG HATCHERY AND WILD STEELHEAD: EVIDENCE FROM DELTA FISH MONITORING PROGRAMS. IEP NEWSLETTER 14(3):30-38. 2001-XX-XX
SIN12A0001	SINGER, G. ET AL. (UNIVERSITY OF CALIFORNIA, DAVIS) - INTERANNUAL VARIATION OF REACH SPECIFIC MIGRATORY SUCCESS FOR SACRAMENTO RIVER HATCHERY YEARLING LATE-FALL RUN CHINOOK SALMON AND STEELHEAD TROUT. 2012-05-22
SPE13R0001	SPEEGLE, J. ET AL. (U.S. FISH AND WILDLIFE SERVICE) - ANNUAL REPORT: JUVENILE FISH MONITORING DURING THE 2010 AND 2011 FIELD SEASONS WITHIN THE SAN FRANCISCO ESTUARY, CALIFORNIA. 2013-01-XX
STO11D0002	STOCKTON FISH AND WILDLIFE OFFICE - BEACH SEINES CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 1976-2011 MONITORING DATA. 2011-XX-XX
STO11D0004	STOCKTON FISH AND WILDLIFE OFFICE - CHIPPS ISLAND TRAWLS CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 1976-2011 MONITORING DATA. 2011-XX-XX
STO13D0001	STOCKTON FISH AND WILDLIFE OFFICE - BEACH SEINES CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 2012-2013 MONITORING DATA. 2013-XX-XX
STO13D0003	STOCKTON FISH AND WILDLIFE OFFICE - CHIPPS ISLAND TRAWLS CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 2012-2013 MONITORING DATA. 2013-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	91655	EO Index:	92726
Key Quad:	Knights Landing (3812176)	Element Code:	AFCHA0209K
Occurrence Number:	28	Occurrence Last Updated:	2014-03-28

Scientific Name:	<i>Oncorhynchus mykiss irideus</i>		Common Name:	steelhead - Central Valley DPS
Listing Status:	Federal:	Threatened	Rare Plant Rank:	
	State:	None	Other Lists:	AFS_TH-Threatened
CNDDB Element Ranks:	Global:	G5T2Q		
	State:	S2		

General Habitat:	Micro Habitat:
POPULATIONS IN THE SACRAMENTO AND SAN JOAQUIN RIVERS AND THEIR TRIBUTARIES.	□

Last Date Observed:	2012-05-10	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2012-05-10	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 LOWER-MIDDLE SACRAMENTO RIVER, FROM SHERWOOD HARBOR (RM 55) TO COLUSA (RM 144).

Detailed Location:
 MAPPED TO INCLUDE RIVER SEGMENTS 3 & 4 FROM ANGLER SURVEYS 1991-2010 AND 13 USFWS BEACH SEINE STATIONS SAMPLED SINCE 1979. ROTARY SCREW TRAP AT KNIGHTS LANDING OPERATED SINCE 1997 AND MOSSDALE TRAWLS SINCE 1988.

Ecological:
 MIGRATION CORRIDOR FROM UPPER SAC & TRIBS TO DELTA. YIELDS AVERAGE 3% OF YEARLY SAC R ANGLING CATCH. FLOOD FLOWS DIVERTED INTO SUTTER & YOLO BYPASSES (OCC 30, 31) PROVIDE REARING HABITAT BUT STRAYING ADULTS MAY BE STRANDED AS FLOWS SUBSIDE.

Threats:
 CHANNELIZATION, DIVERSIONS, POLLUTANTS.

General:
 YEARLY RST CATCH 1998-2012 FROM 37 (2000) TO 241 (2008), AVG 132; 66-100% HATCHERY-ORIGIN(HO) SINCE '98, WHEN HO FISH 100% AD-CLIPPED. YRLY TRAWL CATCH 1988-2012: FROM 10 ('91) TO 679 ('93); ~93% HO, 2000-12. SEINE CATCH AVG 8/YR 1979-2012.

PLSS:	T11N, R02E, Sec. 13 (M)	Accuracy:	nonspecific area	Area (acres):	20,980
UTM:	Zone-10 N4295601 E612546	Latitude/Longitude:	38.80199 / -121.70389	Elevation (feet):	

County Summary:	Quad Summary:
Colusa, Sacramento, Sutter, Yolo	Sacramento West (3812155), Taylor Monument (3812165), Grays Bend (3812166), Verona (3812175), Knights Landing (3812176), Eldorado Bend (3812177), Kirkville (3812187), Tisdale Weir (3912117), Grimes (3912118), Meridian (3912128), Colusa (3912221)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

BOR08R0001	U.S. BUREAU OF RECLAMATION - BIOLOGICAL ASSESSMENT ON THE CONTINUED LONG-TERM OPERATIONS OF THE CENTRAL VALLEY PROJECT & THE STATE WATER PROJECT, CHAPTER 4: STEELHEAD FACTORS. 2008-05-16
BUT98R0001	BUTTE CREEK WATERSHED PROJECT - BUTTE CREEK WATERSHED PROJECT EXISTING CONDITIONS REPORT. 1998-08-XX
DFW11U0001	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE - SUCCESSFUL FISH RESCUE COMPLETED AT TISDALE AND FREMONT WEIR OFF SACRAMENTO RIVER (CDFW NEWS BLOG POST). 2011-04-15
DFW14U0001	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE - KNIGHTS LANDING ROTARY SCREW TRAP DATA FOR ONCORHYNCHUS MYKISS, 1999-2012. 2014-XX-XX
MAS03R0001	MASSA, D. & T. SCHROYER (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - CENTRAL VALLEY SALMON AND STEELHEAD HARVEST MONITORING PROJECT: 2002 ANGLER SURVEY. 2003-09-XX
MUR01R0001	MURPHY, K. ET AL. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - CENTRAL VALLEY SALMON AND STEELHEAD HARVEST MONITORING PROJECT: 1999 ANGLER SURVEY. 2001-03-XX
MUR01R0002	MURPHY, K. ET AL. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - CENTRAL VALLEY SALMON AND STEELHEAD HARVEST MONITORING PROJECT: 2000 ANGLER SURVEY. 2001-07-XX
MUR99R0001	MURPHY, K. ET AL. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - CENTRAL VALLEY SALMON AND STEELHEAD HARVEST MONITORING PROJECT: 1998 ANGLER SURVEY. 1999-12-20
ROB07R0002	ROBERTS, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - TIMING, COMPOSITION AND ABUNDANCE OF JUVENILE ANADROMOUS SALMONID EMIGRATION IN THE SACRAMENTO RIVER NEAR KNIGHTS LANDING OCTOBER 2001-SEPTEMBER 2002. 2007-01-XX
SCH02R0001	SCHROYER, T. ET AL. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - CENTRAL VALLEY SALMON AND STEELHEAD HARVEST MONITORING PROJECT: 2001 ANGLER SURVEY. 2002-12-XX
SNI00R0003	SNIDER, B. & R. TITUS (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - TIMING, COMPOSITION AND ABUNDANCE OF JUVENILE ANADROMOUS SALMONID EMIGRATION IN THE SACRAMENTO RIVER NEAR KNIGHTS LANDING OCTOBER 1997-SEPTEMBER 1998. 2000-07-XX
SNI00R0004	SNIDER, B. & R. TITUS (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - TIMING, COMPOSITION AND ABUNDANCE OF JUVENILE ANADROMOUS SALMONID EMIGRATION IN THE SACRAMENTO RIVER NEAR KNIGHTS LANDING OCTOBER 1998-SEPTEMBER 1999. 2000-12-XX
STO11D0002	STOCKTON FISH AND WILDLIFE OFFICE - BEACH SEINES CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 1976-2011 MONITORING DATA. 2011-XX-XX
STO11D0003	STOCKTON FISH AND WILDLIFE OFFICE - SACRAMENTO TRAWLS CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 1988-2011 MONITORING DATA. 2011-XX-XX
STO13D0001	STOCKTON FISH AND WILDLIFE OFFICE - BEACH SEINES CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 2012-2013 MONITORING DATA. 2013-XX-XX
STO13D0002	STOCKTON FISH AND WILDLIFE OFFICE - SACRAMENTO TRAWLS CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 2012-2013 MONITORING DATA. 2013-XX-XX
TIT07R0001	TITUS, R. & M. BROWN (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - CENTRAL VALLEY ANGLER SURVEY, 2007 ANNUAL PROJECT PERFORMANCE REPORT, F-119-R. 2007-10-31
TIT08R0001	TITUS, R. ET AL. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - CENTRAL VALLEY ANGLER SURVEY, 2008 ANNUAL PROJECT PERFORMANCE REPORT, F-119-R. 2008-12-27
TIT10R0001	TITUS, R. ET AL. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - CENTRAL VALLEY ANGLER SURVEY, 2010 ANNUAL PROJECT PERFORMANCE REPORT, F-119-R. 2010-09-01
VIN06R0002	VINCIK, R. ET AL. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - TIMING, COMPOSITION AND ABUNDANCE OF JUVENILE ANADROMOUS SALMONID EMIGRATION IN THE SACRAMENTO RIVER NEAR KNIGHTS LANDING SEPTEMBER 1999-SEPTEMBER 2000. 2006-12-XX
WIX95R0002	WIXOM, L. ET AL. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FINAL PERFORMANCE REPORT, SACRAMENTO RIVER SYSTEM SPORT FISH CATCH INVENTORY. 1995-06-30



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 91663	EO Index: 92737
Key Quad: Sacramento West (3812155)	Element Code: AFCHA0209K
Occurrence Number: 30	Occurrence Last Updated: 2014-02-21

Scientific Name: <i>Oncorhynchus mykiss irideus</i>	Common Name: steelhead - Central Valley DPS
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: AFS_TH-Threatened
CNDDDB Element Ranks:	
Global: G5T2Q	
State: S2	

General Habitat: POPULATIONS IN THE SACRAMENTO AND SAN JOAQUIN RIVERS AND THEIR TRIBUTARIES.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 2011-04-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-04-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
EASTERN EDGE OF YOLO BYPASS; INCLUDING TOE DRAIN, SACRAMENTO DEEP WATER SHIP CHANNEL (DWSC), AND SACRAMENTO BYPASS.

Detailed Location:
USFWS & DWR FYKE TRAPS & SCREW TRAPS (RSTS) LOCATED IN TOE DRAIN (TD). SACRAMENTO RIVER FLOOD FLOWS CONNECT TD WITH YOLO BYPASS (YB) & PUTAH CREEK (PC), ENABLING FURTHER MIGRATION (NOT MAPPED). DWSC IS A DEAD END FOR STEELHEAD.

Ecological:
ADULTS MIGRATE UP CHANNELS INTO YB (& OCCASIONALLY PC), BUT BARRIERS INCL. FREMONT WEIR BLOCK RIVER ACCESS. STUDIES SHOW JUVENILE SH USE YB AS REARING HABITAT, BUT ADULTS & JUVS STRANDED AS FLOODS RECEDE. PC TROUT INFLUENCED BY STOCKING.

Threats:
ENTRAINMENT & STRANDING BEHIND MIGRATION BARRIERS.

General:
ANALYSIS OF OTOLITHS FROM 40 PC TROUT SHOWED 0 SH PROGENY. TD FYKE TRAPS CAUGHT 15 MIGRATING SH, 2001-2006. TD RST CAUGHT 91 SH, 1998-2006. STRANDED SH SEINED FROM SACRAMENTO BYPASS 1998-99 & FROM BELOW FREMONT WEIR IN 1998-99 & 2011.

PLSS: T08N, R04E, Sec. 30 (M)	Accuracy: nonspecific area	Area (acres): 10,025
UTM: Zone-10 N4264097 E623420	Latitude/Longitude: 38.51671 / -121.58429	Elevation (feet):

County Summary: Sacramento, Solano, Yolo	Quad Summary: Rio Vista (3812126), Courtland (3812135), Liberty Island (3812136), Clarksburg (3812145), Saxon (3812146), Sacramento West (3812155)
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Sources:

BDA06D0001	BAY DELTA AND TRIBUTARIES PROJECT - BAY DELTA AND TRIBUTARIES PROJECT WEBSITE STEELHEAD DOWNLOAD [1/12/2006 BDAT WEBSITE] 2006-01-12
BOR08R0001	U.S. BUREAU OF RECLAMATION - BIOLOGICAL ASSESSMENT ON THE CONTINUED LONG-TERM OPERATIONS OF THE CENTRAL VALLEY PROJECT & THE STATE WATER PROJECT, CHAPTER 4: STEELHEAD FACTORS. 2008-05-16
CRA14U0001	CRAIN, P. - EMAIL REGARDING MIGRATORY RAINBOW TROUT IN PUTAH CREEK. 2014-01-14
DFW11U0001	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE - SUCCESSFUL FISH RESCUE COMPLETED AT TISDALE AND FREMONT WEIR OFF SACRAMENTO RIVER (CDFW NEWS BLOG POST). 2011-04-15
HAR06U0001	HARRELL, W. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - SCIENTIFIC COLLECTING REPORT OF SPECIMENS CAPTURED OR SALVAGED [SC-001146] 2006-07-06
HOC04F0005	HOCHGRAF, K. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR ONCORHYNCHUS MYKISS IRIDEUS 2004-04-15
MOY99U0001	MOYLE, P. - THE PUTAH-CACHE BIOREGION PROJECT: THE CURIOUS NATURALIST'S ANNOTATED FISH LIST. 1999-09-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 89689	EO Index: 90689
Key Quad: Sacramento West (3812155)	Element Code: AFCHB03010
Occurrence Number: 14	Occurrence Last Updated: 2013-08-05

Scientific Name: <i>Spirinchus thaleichthys</i>	Common Name: longfin smelt
Listing Status:	Rare Plant Rank:
Federal: Candidate	
State: Threatened	Other Lists: CDFW_SSC-Species of Special Concern
CNDDB Element Ranks:	
Global: G5	
State: S1	

General Habitat: EURYHALINE, NEKTONIC & ANADROMOUS. FOUND IN OPEN WATERS OF ESTUARIES, MOSTLY IN MIDDLE OR BOTTOM OF WATER COLUMN.	Micro Habitat: PREFER SALINITIES OF 15-30 PPT, BUT CAN BE FOUND IN COMPLETELY FRESHWATER TO ALMOST PURE SEAWATER.
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Last Date Observed: 2004-01-05	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2012-09-27	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN, STATE	Trend: Decreasing
Presence: Presumed Extant	

Location:
ABOUT 31 MILES OF THE SACRAMENTO RIVER FROM THE I-5 CROSSING (RM70.5) NEAR SACRAMENTO AIRPORT, SOUTH TO HOOD (RM38).

Detailed Location:
1973 DETECTIONS FROM DFG TRAWLS AT CLARKSBURG & HOOD. DETECTED AT USFWS SITES, N TO S: SR071E (ELKHORN) SR060E (DISCOVERY PARK), SR055M (SHERWOOD HARBOR), SR049E (GARCIA BEND) & SR043W (CLARKSBURG); ALL BEACH SEINE SITES EXCEPT SR055M.

Ecological:
USFWS BEACH SEINES BEGUN 1976-81, WEEKLY SINCE '90S. SR055M: KODIAK TRAWLS OCT-MAR, MIDWATER TRAWLS APR-SEP, 2-3/WK. CATCH INTERMITTENT & AT LOW LEVELS; MAX WAS 10 IN 1 TRAWL. WELL UPSTREAM OF MAIN SAC RIVER SPAWNING AREA, BELOW RIO VISTA.

Threats:
BAY-DELTA POPULATION IN DECLINE DUE TO DIVERSION, DROUGHT, ENTRAINMENT, FOOD LIMITATION CAUSED BY INVASIVE AMUR CLAM.

General:
COLLECTED IN 1940. UP TO 9 ADULTS(A) & 3 YOY CAUGHT IN TRAWLS, '73. ADULTS CAUGHT AT SR060E IN '84, '87. 1A IN '88 TRAWLS. 12A AT 3 STATIONS, '93. 3A & 1 JUV AT 3 STNS, '94. 1A IN '97 TRAWLS. 8A & 1 JUV AT 2 STNS, 2002. 1A IN 2004 TRAWLS.

PLSS: T08N, R04E, Sec. 22 (M)	Accuracy: nonspecific area	Area (acres): 7,834
UTM: Zone-10 N4265920 E628376	Latitude/Longitude: 38.53243 / -121.52712	Elevation (feet): 20

County Summary: Sacramento, Yolo	Quad Summary: Courtland (3812135), Florin (3812144), Clarksburg (3812145), Sacramento West (3812155), Taylor Monument (3812165), Grays Bend (3812166)
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Sources:

FWS12R0001	U.S. FISH AND WILDLIFE SERVICE - ENDANGERED AND THREATENED WILDLIFE AND PLANTS; 12-MONTH FINDING ON A PETITION TO LIST THE SAN FRANCISCO BAY-DELTA POPULATION OF THE LONGFIN SMELT AS ENDANGERED OR THREATENED 2012-03-13
LAN40S0001	LANTIS, H. - CAS SU(ICH) SPECIMEN #35431, COLLECTED FROM THE SACRAMENTO RIVER AT HOOD. 1940-01-04
SCH80R0001	SCHAFFTER, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FISH OCCURRENCE, SIZE, AND DISTRIBUTION IN THE SACRAMENTO RIVER NEAR HOOD, CALIFORNIA DURING 1973 AND 1974. 1980-03-XX
STO11D0002	STOCKTON FISH AND WILDLIFE OFFICE - BEACH SEINES CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 1976-2011 MONITORING DATA. 2011-XX-XX
STO11D0003	STOCKTON FISH AND WILDLIFE OFFICE - SACRAMENTO TRAWLS CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 1988-2011 MONITORING DATA. 2011-XX-XX
STO13D0001	STOCKTON FISH AND WILDLIFE OFFICE - BEACH SEINES CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 2012-2013 MONITORING DATA. 2013-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24986	EO Index: 881	
Key Quad: Taylor Monument (3812165)	Element Code: AFCJB34020	
Occurrence Number: 1	Occurrence Last Updated: 1996-01-02	

Scientific Name: <i>Pogonichthys macrolepidotus</i>	Common Name: Sacramento splittail
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: AFS_VU-Vulnerable
CNDDDB Element Ranks:	CDFW_SSC-Species of Special Concern
Global: GNR	IUCN_EN-Endangered
State: S3	

General Habitat: ENDEMIC TO THE LAKES AND RIVERS OF THE CENTRAL VALLEY, BUT NOW CONFINED TO THE DELTA, SUISUN BAY & ASSOCIATED MARSHES.	Micro Habitat: SLOW MOVING RIVER SECTIONS, DEAD END SLOUGHS. REQUIRES FLOODED VEGETATION FOR SPAWNING & FORAGING FOR YOUNG.
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Last Date Observed: 1995-02-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1995-02-26	Occurrence Rank: Good
Owner/Manager: PVT, STATE	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER FROM MISSOURI BEND N OF KNIGHTS LANDING TO S OF COURTLAND. ALSO, LOWER 10 MILES OF THE FEATHER RIVER.

Detailed Location:
IN THE SACRAMENTO RIVER FROM RIVER MILE 33 SOUTH OF COURTLAND TO RIVER MILE 97 NORTH OF KNIGHTS LANDING, AND THE LOWER 10 MILES OF THE FEATHER RIVER.

Ecological:
MODERATE CURRENT & SANDY BOTTOM. RIVERBANKS VARIABLE, WATER TEMP AVERAGES LOW 60'S F. MOST FISH TAKEN FROM THE END OF DECEMBER TO THE END OF MAY.

Threats:
General:
INFORMATION TAKEN FROM A SACRAMENTO RIVER ANGLER SURVEY CONDUCTED BETWEEN 1991 & 1995. FISH WERE TAKEN BY HOOK & LINE MOSTLY FROM SHORE. MOST OF THE SPLITTAIL CAUGHT WERE TAKEN INCIDENTALLY & WERE NOT THE SPECIES TARGETED BY THE ANGLER.

PLSS: T09N, R04E, Sec. 20 (M)	Accuracy: specific area	Area (acres): 5,038
UTM: Zone-10 N4274883 E625304	Latitude/Longitude: 38.61362 / -121.56075	Elevation (feet): 20

County Summary: Sacramento, Sutter, Yolo	Quad Summary: Courtland (3812135), Florin (3812144), Clarksburg (3812145), Sacramento West (3812155), Taylor Monument (3812165), Grays Bend (3812166), Verona (3812175), Knights Landing (3812176), Eldorado Bend (3812177), Nicolaus (3812185)
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Sources:

BRO90F0006	BRODE, J.M. - FIELD SURVEY FORM FOR POGONICHTHYS MACROLEPIDOTUS 1990-03-21
WIX95R0001	WIXOM, L., J. PISCIOTTO & C. LAKE (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - AS REQUIRED BY FEDERAL AID IN SPORT FISH RESTORATION ACT. PROJECT 27, SACRAMENTO RIVER SYSTEM SPORT FISH CATCH INVENTORY. JOB 1, ESTIMATE HARVEST AND ANGLER USE. 1995-02-26



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 42795	EO Index: 42795	
Key Quad: Sacramento West (3812155)	Element Code: AFCQB07010	
Occurrence Number: 4	Occurrence Last Updated: 2009-04-22	

Scientific Name: <i>Archoplites interruptus</i>	Common Name: Sacramento perch
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: AFS_TH-Threatened
CNDDB Element Ranks:	CDFW_SSC-Species of Special Concern
Global: G2G3	
State: S1	

General Habitat: HISTORICALLY FOUND IN THE SLOUGHS, SLOW-MOVING RIVERS, AND LAKES OF THE CENTRAL VALLEY.	Micro Habitat: PREFERS WARM WATER. AQUATIC VEGETATION IS ESSENTIAL FOR YOUNG. TOLERATES WIDE RANGE OF PHYSIO-CHEMICAL WATER CONDITIONS.
--	---

Last Date Observed: 1973-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1973-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
LAKE GREENHAVEN (AKA BRICKYARD POND), W OF HAVENSIDE DR & N OF GLORIA DR, BETWEEN I-5 & SACRAMENTO RIVER, SACRAMENTO.

Detailed Location:
PRESENT IN LAKE AS OF 1973, INFORMATION REPORTED AS BEING TAKEN FROM FISH & GAME FILES.

Ecological:
PAST FLOODPLAIN LAKE, IN THE GARCIA BEND AREA OF THE SACRAMENTO RIVER.

Threats:
INTRODUCED PREDATORS & COMPETITORS, POOR WATER QUALITY.

General:
UNKNOWN POPULATION SIZE REPORTED AS STILL EXTANT IN 1973.

PLSS: T08N, R04E, Sec. 27 (M)	Accuracy: specific area	Area (acres): 53
UTM: Zone-10 N4263243 E627705	Latitude/Longitude: 38.50841 / -121.53532	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Sacramento West (3812155)
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Sources:
ACE76A0001 ACEITUNO, M.F. & S.J. NICOLA - DISTRIBUTION AND STATUS OF THE SACRAMENTO PERCH, ARCHOPLITES INTERRUPTUS (GIRARD), IN CALIFORNIA. CALIFORNIA FISH AND GAME 62(4): 246-254. 1976. 1976-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 68548	EO Index: 68900
Key Quad: Sacramento West (3812155)	Element Code: AMACC05030
Occurrence Number: 137	Occurrence Last Updated: 2007-03-19

Scientific Name: <i>Lasiurus cinereus</i>	Common Name: hoary bat
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_LC-Least Concern WBWG_M-Medium Priority
CNDDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat: PREFERS OPEN HABITATS OR HABITAT MOSAICS, WITH ACCESS TO TREES FOR COVER & OPEN AREAS OR HABITAT EDGES FOR FEEDING.	Micro Habitat: ROOSTS IN DENSE FOLIAGE OF MEDIUM TO LARGE TREES. FEEDS PRIMARILY ON MOTHS. REQUIRES WATER.
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Last Date Observed: 1991-09-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-09-18	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST SACRAMENTO.

Detailed Location:
MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY MANIS, WITH UNCERTAINTY OF 2475.1711 M.

Ecological:
Threats:

General:
1 FEMALE SPECIMEN (MVZ #182430) COLLECTED BY WILLIAM E. RAINEY ON 18 SEP 1991.

PLSS: T08N, R04E, Sec. 03 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4271223 E627750	Latitude/Longitude: 38.58030 / -121.53333	Elevation (feet):

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:
MAN04S0029 MAMMAL NETWORKED INFORMATION SYSTEM (MANIS) - PRINTOUT OF LASIURUS CINEREUS SPECIMENS FOR CALIFORNIA FROM MANIS. INCLUDES RECORDS FROM MVZ, CAS, MSB, LSU, KU, LACM, UWBM, FMNH AND TTU. 2004-12-10



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32459	EO Index: 56607	
Key Quad: Carmichael (3812153)	Element Code: AMAJF04010	
Occurrence Number: 73	Occurrence Last Updated: 2004-09-01	

Scientific Name: <i>Taxidea taxus</i>	Common Name: American badger
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	
State: S3	

General Habitat: MOST ABUNDANT IN DRIER OPEN STAGES OF MOST SHRUB, FOREST, AND HERBACEOUS HABITATS, WITH FRIABLE SOILS.	Micro Habitat: NEEDS SUFFICIENT FOOD, FRIABLE SOILS & OPEN, UNCULTIVATED GROUND. PREYS ON BURROWING RODENTS. DIGS BURROWS.
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Last Date Observed: 1991-01-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-01-15	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SW OF FORMER MATHER AFB; BETWEEN KIEFER BLVD, BRADSHAW ROAD, JACKSON ROAD, AND EXCELSIOR ROAD.

Detailed Location:

Ecological:
HABITAT CONSISTS OF GRAZED ANNUAL GRASSLAND WITH VERNAL POOLS. CURRENT LAND USE: GRAZING. GRAVEL PITS IN NORTHERN EXTREME PORTION OF SITE.

Threats:
PROPOSED AGGREGATE MINING.

General:
CARCASS OF 1 JUVENILE OBSERVED ON 15 JAN 1991.

PLSS: T08N, R06E, Sec. 21 (M)	Accuracy: nonspecific area	Area (acres): 1,493
UTM: Zone-10 N4266114 E646979	Latitude/Longitude: 38.53130 / -121.31374	Elevation (feet): 70

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
ADA91F0016 ADAMS, B. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR TAXIDEA TAXUS 1991-01-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 56999	EO Index: 57015
Key Quad: Courtland (3812135)	Element Code: AMAJF04010
Occurrence Number: 209	Occurrence Last Updated: 2004-09-27

Scientific Name: <i>Taxidea taxus</i>	Common Name: American badger
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5	
State: S3	

General Habitat: MOST ABUNDANT IN DRIER OPEN STAGES OF MOST SHRUB, FOREST, AND HERBACEOUS HABITATS, WITH FRIABLE SOILS.	Micro Habitat: NEEDS SUFFICIENT FOOD, FRIABLE SOILS & OPEN, UNCULTIVATED GROUND. PREYS ON BURROWING RODENTS. DIGS BURROWS.
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Last Date Observed: 1938-10-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1938-10-22	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
INDIAN MOUND, NORTH OF HOOD.

Detailed Location:
MAPPED TO LAT/LONG GIVEN BY MVZ WITH AN ERROR DISTANCE OF 1 MILE. LOCATION STATED AS "INDIAN MOUND, N OF HOOD."

Ecological:

Threats:

General:

MVZ #88217; COLLECTED BY DAVID H. JOHNSON ON 22 OCT 1938.

PLSS: T06N, R04E, Sec. 14 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4248124 E629618	Latitude/Longitude: 38.37192 / -121.51617	Elevation (feet): 5

County Summary: Sacramento, Yolo	Quad Summary: Bruceville (3812134), Courtland (3812135), Florin (3812144), Clarksburg (3812145)
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Sources:

DFG86R0004	CALIFORNIA DEPARTMENT OF FISH & GAME - MAMMALIAN SPECIES OF SPECIAL CONCERN IN CALIFORNIA, AMERICAN BADGER ACCOUNT. 1986-XX-XX
MVZ04S0005	MVZ SPECIMEN DATABASE QUERY (UNIVERSITY OF CALIFORNIA, BERKELEY) - PRINTOUT OF TAXIDEA TAXUS SPECIMENS FOR CALIFORNIA FROM THE MVZ DATABASE. 2004-09-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 57545

EO Index: 57561

Key Quad: Sacramento East (3812154)

Element Code: AMAJF04010

Occurrence Number: 304

Occurrence Last Updated: 2010-10-04

Scientific Name: *Taxidea taxus*

Common Name: American badger

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: CDFW_SSC-Species of Special Concern
IUCN_LC-Least Concern

CNDDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

MOST ABUNDANT IN DRIER OPEN STAGES OF MOST SHRUB, FOREST, AND HERBACEOUS HABITATS, WITH FRIABLE SOILS.

Micro Habitat:

NEEDS SUFFICIENT FOOD, FRIABLE SOILS & OPEN, UNCULTIVATED GROUND. PREYS ON BURROWING RODENTS. DIGS BURROWS.

Last Date Observed: XXXX-XX-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: XXXX-XX-XX

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

POLK; 21ST AVE AT POWER INN RD, SACRAMENTO.

Detailed Location:

NMNH STATED LOCATION WAS "POLK. SACRAMENTO COUNTY."

Ecological:

Threats:

General:

MALE SPECIMEN (USNM #228495) COLLECTED BY W. L. PORKMAN, DATE UNKNOWN.

PLSS: T08N, R05E, Sec. 23 (M)

Accuracy: 1 mile

Area (acres): 0

UTM: Zone-10 N4266069 E638699

Latitude/Longitude: 38.53222 / -121.40871

Elevation (feet): 40

County Summary:

Sacramento

Quad Summary:

Sacramento East (3812154)

Sources:

DFG86R0004 CALIFORNIA DEPARTMENT OF FISH & GAME - MAMMALIAN SPECIES OF SPECIAL CONCERN IN CALIFORNIA, AMERICAN BADGER ACCOUNT. 1986-XX-XX

PORND0001 PORKMAN, W. (U.S. NATIONAL MUSEUM OF NATURAL HISTORY) - USNM AMERICAN BADGER SPECIMEN #228495 COLLECTED AT POLK, SACRAMENTO COUNTY. XXXX-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 26582	EO Index: 1462	
Key Quad: Rio Linda (3812164)	Element Code: ARAAD02030	
Occurrence Number: 2	Occurrence Last Updated: 1996-01-05	

Scientific Name: <i>Emys marmorata</i>	Common Name: western pond turtle
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G3G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_VU-Vulnerable
	USFS_S-Sensitive

General Habitat: A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES, USUALLY WITH AQUATIC VEGETATION, BELOW 6000 FT ELEVATION.	Micro Habitat: NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT UP TO 0.5 KM FROM WATER FOR EGG-LAYING.
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Last Date Observed: 1995-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1995-XX-XX	Occurrence Rank: Unknown
Owner/Manager: DOD-MCCLELLAN AFB	Trend: Unknown
Presence: Presumed Extant	

Location:
MCCLELLAN AFB. DON JULIO CREEK ABOUT 1.4 KM NE OF THE INTERSECTION OF MAIN AVE & RALEY BLVD.

Detailed Location:
Ecological:
SURROUNDING AREA IS ANNUAL GRASSLAND WITH MANY VERNAL POOLS.

Threats:
MILITARY ACTIVITIES, DEVELOPMENT.

General:
2 TURTLES SEEN AT ONE SITE AND AN UNKNOWN NUMBER SEEN AT A NEARBY BASKING SITE DURING A FEBRUARY TO JUNE FAIRY SHRIMP SURVEY.

PLSS: T09N, R05E, Sec. 24 (M)	Accuracy: nonspecific area	Area (acres): 6
UTM: Zone-10 N4280410 E637756	Latitude/Longitude: 38.66156 / -121.41669	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
LAC95R0001 LACY, T. (WESCO-RMI) - 1995 VERNAL POOL CRUSTACEAN SURVEY RESULTS - MCCLELLAN AFB AND LINCOLN & DAVIS COMMUNICATIONS FACILITIES; CONSERVATION PLAN INCLUDED. 1995-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 32695	EO Index: 1330
Key Quad: Carmichael (3812153)	Element Code: ARAAD02030
Occurrence Number: 433	Occurrence Last Updated: 1995-12-12

Scientific Name: <i>Emys marmorata</i>	Common Name: western pond turtle
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G3G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_VU-Vulnerable
	USFS_S-Sensitive

General Habitat: A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES, USUALLY WITH AQUATIC VEGETATION, BELOW 6000 FT ELEVATION.	Micro Habitat: NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT UP TO 0.5 KM FROM WATER FOR EGG-LAYING.
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Last Date Observed: 1991-04-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-04-26	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH OF MATHER AIR FORCE BASE; MORRISON CREEK BELOW THE CONFLUENCE WITH MATHER AFB DRAIN.

Detailed Location:
SITE OWNED BY GRANITE CONSTRUCTION COMPANY AND TEICHERT MINING COMPANY.

Ecological:
SLOW MOVING CREEK WITH ABUNDANT AQUATIC VEGETATION; SURROUNDING AREA IS ANNUAL GRASSLAND.

Threats:
GRAZING; GRAVEL PITS IN NORTHERN EXTREME OF SITE VICINITY; PROPOSED AGGREGATE MINING.

General:
1 INDIVIDUAL OBSERVED.

PLSS: T08N, R06E, Sec. 21 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4265748 E646120	Latitude/Longitude: 38.52815 / -121.32366	Elevation (feet): 55

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
ADA91F0013 ADAMS, B. - FIELD SURVEY FORM FOR CLEMMYS MARMORATA MARMORATA 1991-04-26



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32696

EO Index: 17556

Key Quad: Carmichael (3812153)

Element Code: ARAAD02030

Occurrence Number: 434

Occurrence Last Updated: 1996-02-15

Scientific Name: *Emys marmorata*

Common Name: western pond turtle

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: BLM_S-Sensitive
CDFW_SSC-Species of Special Concern
IUCN_VU-Vulnerable
USFS_S-Sensitive

CNDDDB Element Ranks: **Global:** G3G4

State: S3

General Habitat:

A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES, USUALLY WITH AQUATIC VEGETATION, BELOW 6000 FT ELEVATION.

Micro Habitat:

NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT UP TO 0.5 KM FROM WATER FOR EGG-LAYING.

Last Date Observed: 1992-08-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1992-08-XX

Occurrence Rank: Good

Owner/Manager: SAC COUNTY-PARKS & REC

Trend: Unknown

Presence: Presumed Extant

Location:

CARMICHAEL; ANCIL HOFFMAN PARK; IN SMALL POND 0.7 KM EAST OF END OF KENNETH DRIVE.

Detailed Location:

SITE COMPLETELY WITHIN NATURE STUDY AREA.

Ecological:

SMALL POND SURROUNDED BY QUERCUS LOBATA, SAMBUCUS MEXICANA, TYPHA AND RUBUS.

Threats:

VISITORS MAY ACCIDENTALLY TRAMPLE NESTING SITES.

General:

3 ADULTS OBSERVED BASKING ON PARTIALLY SUBMERGED LOG AND ON COLLAPSED SAMBUCUS MEXICANA BRANCHES, HATCHLING OBSERVED IN 1991 OR 1992; S. MEXICANA IS CRITICAL HABITAT FOR VALLEY ELDERBERRY LONGHORN BEETLE.

PLSS: T09N, R06E, Sec. 22 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4275246 E647190

Latitude/Longitude: 38.61353 / -121.30939

Elevation (feet): 65

County Summary:

Sacramento

Quad Summary:

Carmichael (3812153)

Sources:

NOS92F0006 NOSAL, T. - FIELD SURVEY FORM FOR CLEMMYS MARMORATA MARMORATA 1992-08-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32826
Key Quad: Florin (3812144)
Occurrence Number: 448

EO Index: 977
Element Code: ARAAD02030
Occurrence Last Updated: 2005-02-24

Scientific Name: *Emys marmorata*

Common Name: western pond turtle

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G3G4
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_VU-Vulnerable
 USFS_S-Sensitive

General Habitat:

A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES, USUALLY WITH AQUATIC VEGETATION, BELOW 6000 FT ELEVATION.

Micro Habitat:

NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT UP TO 0.5 KM FROM WATER FOR EGG-LAYING.

Last Date Observed: 2003-09-23
Last Survey Date: 2003-09-23
Owner/Manager: DPR-STONE LAKE PARK
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:
 STONE LAKE PRESERVE, APPROXIMATELY 1.5 TO 2.5 MILES NORTHEAST OF HOOD.

Detailed Location:

Ecological:
 HABITAT CONSISTS OF A SEMI-NATURAL LAKE BORDERED BY SOME BULRUSHES, GRAZED GRASSLAND, AND RIPARIAN VEGETATION.

Threats:
 THREATENED BY POTENTIAL POLLUTANTS FROM UPSTREAM CATTLE OPERATION AND THE PRESENCE OF BULLFROGS.

General:
 COLLECTED BY DFG, DATE AND NUMBER OF SPECIMENS UNKNOWN (PRIOR TO 1988). 10+ ADULTS OBSERVED (1 ADULT MALE CAPTURED) ON 21 SEP 2003; 10+ ADULTS OBSERVED (1 ADULT MALE CAPTURED) ON 23 SEP 2003.

PLSS: T06N, R04E, Sec. 12 (M)	Accuracy: nonspecific area	Area (acres): 110
UTM: Zone-10 N4250506 E631092	Latitude/Longitude: 38.39316 / -121.49886	Elevation (feet): 10

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

BRA88R0001	BRATTSTROM, B.H. & D.F. MESSER - CURRENT STATUS OF THE SOUTHWESTERN POND TURTLE (CLEMMYS MARMORATA PALLIDA), IN SOUTHERN CALIFORNIA 1988-XX-XX
HOL88U0002	HOLLAND, D.C. (UNIVERSITY OF SOUTHWESTERN LOUISIANA) - MUSEUM RECORDS COLLECTED AND COMPILED BY HOLLAND. 1988-03-23
PAT03F0001	PATTERSON, L. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR ACTINEMYS (=EMYS) MARMORATA (MARMORATA) 2003-09-21
PAT03F0002	PATTERSON, L. (CALIFORNIA DEPARTMENT OF WATER RESOURCES) - FIELD SURVEY FORM FOR ACTINEMYS (=EMYS) MARMORATA (MARMORATA) 2003-09-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11275
Key Quad: Florin (3812144)
Occurrence Number: 449

EO Index: 623
Element Code: ARAAD02030
Occurrence Last Updated: 1996-03-07

Scientific Name: *Emys marmorata*

Common Name: western pond turtle

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G3G4
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_VU-Vulnerable
 USFS_S-Sensitive

General Habitat:

A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES, USUALLY WITH AQUATIC VEGETATION, BELOW 6000 FT ELEVATION.

Micro Habitat:

NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT UP TO 0.5 KM FROM WATER FOR EGG-LAYING.

Last Date Observed: XXXX-XX-XX
Last Survey Date: XXXX-XX-XX
Owner/Manager: SAC COUNTY, PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 BEACH LAKE PRESERVE; APPROX. 1.5 MILES SOUTH OF FREEPORT.

Detailed Location:

Ecological:

Threats:

General:

COLLECTED BY DFG, DATE AND NUMBER OF SPECIMENS UNKNOWN.

PLSS: T07N, R04E, Sec. 25 (M)
UTM: Zone-10 N4254853 E631081

Accuracy: nonspecific area
Latitude/Longitude: 38.43234 / -121.49818

Area (acres): 61
Elevation (feet): 10

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:
 BRA88R0001 BRATTSTROM, B.H. & D.F. MESSER - CURRENT STATUS OF THE SOUTHWESTERN POND TURTLE (CLEMMYS MARMORATA PALLIDA), IN SOUTHERN CALIFORNIA 1988-XX-XX
 HOL88U0002 HOLLAND, D.C. (UNIVERSITY OF SOUTHWESTERN LOUISIANA) - MUSEUM RECORDS COLLECTED AND COMPILED BY HOLLAND. 1988-03-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32827
Key Quad: Florin (3812144)
Occurrence Number: 450

EO Index: 4662
Element Code: ARAAD02030
Occurrence Last Updated: 1996-01-18

Scientific Name: *Emys marmorata*

Common Name: western pond turtle

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G3G4
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_VU-Vulnerable
 USFS_S-Sensitive

General Habitat:

A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES, USUALLY WITH AQUATIC VEGETATION, BELOW 6000 FT ELEVATION.

Micro Habitat:

NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT UP TO 0.5 KM FROM WATER FOR EGG-LAYING.

Last Date Observed: XXXX-XX-XX
Last Survey Date: XXXX-XX-XX
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 NORTH OF FRANKLIN; DITCH EAST OF FRANKLIN BLVD X WESTERN PACIFIC RR.

Detailed Location:

Ecological:

Threats:

General:

COLLECTED BY DFG, DATE AND NUMBER OF SPECIMENS UNKNOWN.

PLSS: T06N, R05E, Sec. 08 (M)
UTM: Zone-10 N4250298 E635177

Accuracy: specific area
Latitude/Longitude: 38.39069 / -121.45214

Area (acres): 5
Elevation (feet): 20

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:
 BRA88R0001 BRATTSTROM, B.H. & D.F. MESSER - CURRENT STATUS OF THE SOUTHWESTERN POND TURTLE (CLEMMYS MARMORATA PALLIDA), IN SOUTHERN CALIFORNIA 1988-XX-XX
 HOL88U0002 HOLLAND, D.C. (UNIVERSITY OF SOUTHWESTERN LOUISIANA) - MUSEUM RECORDS COLLECTED AND COMPILED BY HOLLAND. 1988-03-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	46135	EO Index:	46135
Key Quad:	Elk Grove (3812143)	Element Code:	ARAAD02030
Occurrence Number:	532	Occurrence Last Updated:	2001-10-12

Scientific Name:	<i>Emys marmorata</i>	Common Name:	western pond turtle
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G3G4 State: S3	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable USFS_S-Sensitive

General Habitat:	Micro Habitat:
A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES, USUALLY WITH AQUATIC VEGETATION, BELOW 6000 FT ELEVATION.	NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT UP TO 0.5 KM FROM WATER FOR EGG-LAYING.

Last Date Observed:	2001-07-11	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2001-07-11	Occurrence Rank:	Fair
Owner/Manager:	ELK GROVE COMM SERVICES DIST	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 NE ELK GROVE. LAGUNA CK 0.3 MILES SOUTH INTERSECTION ELK GROVE FLORIN/ BOND RD & 0.2 MILES EAST OF ELK GROVE FLORIN RD.

Detailed Location:
 OBSERVED BASKING ON WOODY DEBRIS WITHIN CREEK.

Ecological:
 HABITAT CONSISTS OF VALLEY-FOOTHILL RIPARIAN PLANT COMMUNITY DOMINATED BY VALLEY OAK WITH UNDERSTORY OF HIMALAYAN BLACKBERRY. EMERGENT VEGETATION (CATTAILS, BULRUSH) AND LARGE AMOUNT OF ALGAE IN CREEK.

Threats:
 CREEK & TRAILS EXPERIENCE HEAVY USE BY HUMANS.

General:
 1 ADULT OBSERVED.

PLSS:	T07N, R06E, Sec. 31 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4253561 E642371	Latitude/Longitude:	38.41897 / -121.36913	Elevation (feet):	35

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
 FUL01F0001 FULLEN, K. (U.S. DEPARTMENT OF AGRICULTURE) - FIELD SURVEY FORM FOR CLEMMYS MARMORATA MARMORATA 2001-07-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 78642	EO Index: 79567
Key Quad: Taylor Monument (3812165)	Element Code: ARAAD02030
Occurrence Number: 1216	Occurrence Last Updated: 2010-04-21

Scientific Name: <i>Emys marmorata</i>	Common Name: western pond turtle
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G3G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_VU-Vulnerable
	USFS_S-Sensitive

General Habitat: A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES, USUALLY WITH AQUATIC VEGETATION, BELOW 6000 FT ELEVATION.	Micro Habitat: NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT UP TO 0.5 KM FROM WATER FOR EGG-LAYING.
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Last Date Observed: 2009-04-07	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-04-07	Occurrence Rank: Good
Owner/Manager: PVT-NATOMAS MUTUAL WATER CO	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST WEST OF THE SACRAMENTO RIVER AT THE ELKHORN PUMPING STATION, NORTHWEST OF THE SACRAMENTO INTERNATIONAL AIRPORT.

Detailed Location:
NEST IS LOCATED NEAR NORTH EDGE OF NORTHMOST POND - NEAR EDGE OF DIRT ROAD.

Ecological:
HABITAT CONSISTS OF ANNUAL GRASSLAND, VALLEY OAK, BLACK WILLOW, COYOTE BRUSH, & BLUE ELDERBERRY IN AREA WITH SANDY SOILS. THERE IS A COMPLEX OF SEVERAL PONDS, IRRIGATION CANALS, & DRAINAGE DITCHES AT THIS SITE. GOOD HABITAT E OF GARDEN HWY.

Threats:
THREATS INCLUDE COLLISIONS WITH VEHICLES, LEVEE REPAIR WORK, AND CONSTRUCTION OF SEDIMENTATION BASIN.

General:
4 JUVENILES (ASSUMED OVERWINTERING) OBSERVED ON 27 MAR 2009 IN A NEST COVERED WITH OAK LEAF LITTER. 1 ADULT FOUND DOR ON 7 APR 2009. SURROUNDING LAND USE INCLUDES GOLF COURSE, AGRICULTURE, AND AG WATER SUPPLY OPERATIONS.

PLSS: T10N, R03E, Sec. 23 (M)	Accuracy: specific area	Area (acres): 9
UTM: Zone-10 N4284926 E620237	Latitude/Longitude: 38.70480 / -121.61720	Elevation (feet): 32

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

DOW09F0001	DOWNS, J. (EDAW, INC.) - FIELD SURVEY FORM FOR ACTINEMYS MARMORATA MARMORATA 2009-03-27
DOW09F0002	DOWNS, J. (EDAW, INC.) - FIELD SURVEY FORM FOR ACTINEMYS MARMORATA MARMORATA 2009-04-07



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11083	EO Index:	27601
Key Quad:	Taylor Monument (3812165)	Element Code:	ARADB36150
Occurrence Number:	10	Occurrence Last Updated:	2014-12-05

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	2006-05-28	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2006-05-28	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
DRAINAGE CANALS ALONG MEISTER WAY, POWERLINE RD, AND I-5, EAST OF SACRAMENTO INTERNATIONAL AIRPORT, NW OF NATOMAS.

Detailed Location:
MAPPED TO PROVIDED COORDINATES AND GENERAL LOCATION DESCRIPTION OF "POWER LINE RD, 0.2 MILES S BAYOU WAY" & "MEISTER RD, E SACTO. METRO. AIRPORT." CAPTURED SNAKES WERE WEIGHED, MEASURED, PIT-TAGGED & RELEASED.

Ecological:
1986: CANALS 10 FT WIDE WITH STEEP BANKS. BANKS SUPPORTED CATTAILS, TULE, BLACKBERRIES & GRASSES. 2003: FALLOW LAND TO THE NORTH, PREPARATION FOR METRO AIRPARK. WEEDY DICOTS & GRASSES.

Threats:
GENERALLY THREATENED BY AGRICULTURE, URBANIZATION, FLOODING, POLLUTION, WETLAND RECLAMATION, & PEST CONTROL.

General:
OBSERVED IN 1976, 1986-87, 1989, & 1991. 17 OBS/CAPTURED BETWEEN 1 JUN-4 AUG 1998. 6 BETWEEN 10 MAY-10 JUN 1999. 2 BTWN 21 JUN-25 JUL 2000. 1 CAPTURED ON 9 SEP 2002. 6 BTWN 22 MAY-12 AUG 2003. 1 CAP ON 28 MAY 2006.

PLSS:	T10N, R04E, Sec. 32 (M)	Accuracy:	nonspecific area	Area (acres):	163
UTM:	Zone-10 N4281609 E623844	Latitude/Longitude:	38.67442 / -121.57632	Elevation (feet):	15

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

BRO80U0001	BRODE, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - GEOGRAPHIC REFERENCE CARD CATALOG OF SPECIMENS AND FIELD NOTE RECORDS COMPILED BY JOHN BRODE (DFG). 1980-XX-XX
HAN06D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN80R0002	HANSON, G.E. & J.M. BRODE - STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS GIGAS (FITCH), DEPT. OF FISH AND GAME, INLAND FISHERIES ENDANGERED SPECIES PROGRAM, SPECIAL PUBLICATIONS 80-5. 1980-09-XX
HAN86F0001	HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
HAN86R0002	HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
HAN88R0001	HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
HAN96R0001	HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12
USG04D0001	USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09
WYL04R0001	WYLIE, G. ET AL. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - MONITORING GIANT GARTER SNAKES IN THE NATOMAS BASIN: 2003 RESULTS 2004-01-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11172	EO Index: 14771
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 11	Occurrence Last Updated: 2014-11-06

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2014-06-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-06-02	Occurrence Rank: Fair
Owner/Manager: NATOMAS BASIN CONSERVANCY, PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
VICINITY OF FISHERMANS LAKE & WEST DRAINAGE CANAL, ABOUT 1 MILE SW OF EL CENTRO RD & DEL PASO RD INTERSECTION.

Detailed Location:
MAPPED TO PROVIDED COORDINATES AND MAPS. LARGEST CONCENTRATION OF DETECTIONS WAS IN AREA JUST WEST OF GIARRE WAY. GENERAL LOCATION DESCRIBED AS "WEST DRAINAGE CANAL, 1 MILE W TO 1 MILE S INTERSECTION EL CENTRO RD AND DEL PASO RD."

Ecological:
FISHERMANS LAKE IS A WIDE, SHALLOW PONDED PORTION OF WEST DRAINAGE CANAL, WHICH SUPPORTS TULE/CATTAIL MARSH & RIPARIAN WOODLAND OF COTTONWOOD, WILLOW, POISON OAK & BLACKBERRY. ADJACENT AGRICULTURE WAS RICE.

Threats:
AGRICULTURE, FLOOD CONTROL/WETLAND RECLAMATION, URBANIZATION, FLOODING, INTRODUCED PREDATOR, PEST CONTROL, POLLUTION.

General:
DETECTED IN 1976, 1986-87, 1992-93, & 1996. 1998: 16 DETECTED. 1999: 1 DETECTED. 2004-2014: 1 TO 41 DETECTED EACH YEAR.

PLSS: T09N, R04E, Sec. 09 (M)	Accuracy: specific area	Area (acres): 200
UTM: Zone-10 N4278657 E625736	Latitude/Longitude: 38.64755 / -121.55510	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

HAN05F0004	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-05-26
HAN05U0001	HANSEN, E. - SHAPEFILE (CREATED FROM EXCEL FILE FROM HANSEN) OF THAMNOPHIS GIGAS LOCATIONS FOR YEARS 2001-2004. ALSO INCLUDES HARDCOPY OF ATTRIBUTE TABLE LOCATED IN ELEMENT FILE. 2005-07-XX
HAN06D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN06F0001	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-05-04
HAN06F0002	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-07-23
HAN07D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2007. 2007-XX-XX
HAN08D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2008. 2008-XX-XX
HAN09D0002	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2009 [SC-003881] 2009-XX-XX
HAN10D0001	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2010 [SC-003881] 2010-XX-XX
HAN11D0001	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2011 [SC-003881] 2011-XX-XX
HAN80R0002	HANSON, G.E. & J.M. BRODE - STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS GIGAS (FITCH), DEPT. OF FISH AND GAME, INLAND FISHERIES ENDANGERED SPECIES PROGRAM, SPECIAL PUBLICATIONS 80-5. 1980-09-XX
HAN86F0001	HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
HAN86R0002	HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
HAN88R0001	HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
HAN96R0001	HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12
RAI92F0004	RAINE, R. & E. RAINE - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 1992-06-XX
SKA14D0001	SKALOS, S. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - DIGITAL DATABASE FOR GIANT GARTER SNAKE FOR SURVEYS CONDUCTED BY USGS-WERC, YEARS 2005-2014 2014-09-24
USG04D0001	USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09
WAR06R0001	WARNE, B. ET AL. (U.S. FISH AND WILDLIFE SERVICE-SACRAMENTO) - GIANT GARTER SNAKE (THAMNOPHIS GIGAS) 5-YEAR REVIEW: SUMMARY AND EVALUATION 2006-09-XX
YOR93F0006	YORK, R. (CALIFORNIA ENERGY COMMISSION) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) WITH INCIDENTAL SIGHTING OF GIANT GARTER SNAKE. 1993-06-02
YOR93F0010	YORK, R. & D. ANDERSON (CALIFORNIA ENERGY COMMISSION) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 1993-06-02



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11466	EO Index:	13783
Key Quad:	Florin (3812144)	Element Code:	ARADB36150
Occurrence Number:	13	Occurrence Last Updated:	2014-12-01

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	1982-07-26	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1987-XX-XX	Occurrence Rank:	None
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Extirpated		

Location:
VICINITY OF ELK GROVE CREEK, JUST NW OF ELK GROVE AND HWY 99 INTERSECTION, ABOUT 1.2 MILES WNW OF ELK GROVE POST OFFICE.

Detailed Location:
MAPPED GENERALLY TO PROVIDED LOCATION DESCRIPTIONS; 1929: TEN MILES SOUTH OF SACRAMENTO. 1976: 0.1 MI N ELK GROVE BLVD, W OF HWY 99. 1982: ELK GROVE CR, 0.4 MI W US 99, 0.5 MI N ELK GROVE BLVD.

Ecological:
THE MARSH AT THIS LOCATION WAS FILLED AND LEVELED FOR INDUSTRIAL PARK DEVELOPMENT AS OF MAY 1984.

Threats:
DEVELOPMENT.

General:
1 COLLECTED IN MAY 1929 BY W. WILSON (CAS# 178600). AT LEAST 1 DETECTED ON 1 JUL 1976; G. HANSEN FIELD NOTES #268. 2 JUVENILES OBSERVED BASKING ON 26 JUL 1982. NO SNAKES OBSERVED DURING 1986-87 STUDY BY G. HANSEN; LEVEL OF EFFORT UNKNOWN.

PLSS:	T07N, R05E, Sec. 35 (M)	Accuracy:	3/5 mile	Area (acres):	0
UTM:	Zone-10 N4253140 E639692	Latitude/Longitude:	38.41559 / -121.39989	Elevation (feet):	45

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

BRO80U0001	BRODE, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - GEOGRAPHIC REFERENCE CARD CATALOG OF SPECIMENS AND FIELD NOTE RECORDS COMPILED BY JOHN BRODE (DFG). 1980-XX-XX
CAS40S0001	CALIFORNIA ACADEMY OF SCIENCES - 1900-1940 CAS HERPETOLOGY HOLDINGS (INCLUDES STANFORD UNIVERSITY COLLECTIONS) FOR THAMNOPHIS GIGAS 1940-XX-XX
HAN82R0001	HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS), ALONG PORTIONS OF LAGUNA AND ELK GROVE CREEKS, SACRAMENTO COUNTY, CA." 1982-XX-XX
HAN88R0001	HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
HOL85U0003	HOLLAND, R.F. - PERSONAL COMMUNICATION REGARDING THAMNOPHIS (COUCHII) GIGAS. 1985-08-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11413	EO Index: 27599
Key Quad: Florin (3812144)	Element Code: ARADB36150
Occurrence Number: 14	Occurrence Last Updated: 2014-12-04

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1976-08-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1987-XX-XX	Occurrence Rank: None
Owner/Manager: PVT	Trend: Unknown
Presence: Possibly Extirpated	

Location:
LAGUNA CREEK, JUST SOUTH OF SHELDON RD, ABOUT 0.3 MI W OF BRUCEVILLE RD, ELK GROVE.

Detailed Location:
MAPPED ACCORDING TO PROVIDED LOCATION DESCRIPTION OF "SHELDON RD AT CREEK CROSSING, 0.3 MI W OF BRUCEVILLE RD" AND "200 FT S SHELDON RD AT LAGUNA CREEK." 1999-2014 AERIAL PHOTOS SHOW HEAVY DEVELOPMENT SURROUNDING LAGUNA CREEK.

Ecological:
1982 DESCRIPTION: MARSH AREA SURROUNDED BY CULTIVATED FIELDS & HEAVILY GRAZED GRASSLANDS. GRAZED AREAS CHARACTERIZED BY COMPACTED SOIL, FEW RODENT BURROWS, & SPARSE VEGETATION, THEREBY PROVIDING LITTLE COVER FOR SNAKES DURING FLOODS.

Threats:
AGRICULTURE & GRAZING, AREA BECAME HEAVILY RESIDENTIAL BY 2002 (AERIALS).

General:
AT LEAST 1 SNAKE DETECTED ON 3 AUG 1976 BY G. HANSEN (FIELD NOTES #301). NO SNAKES DETECTED DURING JUL-AUG 1982 & 1986-87 STUDY BY G. HANSEN; LEVEL OF EFFORT UNKNOWN.

PLSS: T07N, R05E, Sec. 27 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4255470 E637628	Latitude/Longitude: 38.43691 / -121.42307	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

BRO80U0001	BRODE, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - GEOGRAPHIC REFERENCE CARD CATALOG OF SPECIMENS AND FIELD NOTE RECORDS COMPILED BY JOHN BRODE (DFG). 1980-XX-XX
HAN80R0002	HANSON, G.E. & J.M. BRODE - STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS GIGAS (FITCH), DEPT. OF FISH AND GAME, INLAND FISHERIES ENDANGERED SPECIES PROGRAM, SPECIAL PUBLICATIONS 80-5. 1980-09-XX
HAN82R0001	HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS), ALONG PORTIONS OF LAGUNA AND ELK GROVE CREEKS, SACRAMENTO COUNTY, CA." 1982-XX-XX
HAN88R0001	HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	94616	EO Index:	624
Key Quad:	Florin (3812144)	Element Code:	ARADB36150
Occurrence Number:	15	Occurrence Last Updated:	2014-12-04

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	1992-07-19	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1992-07-19	Occurrence Rank:	Unknown
Owner/Manager:	SAC COUNTY, PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 BEACH LAKE/STONE LAKE PRESERVE, JUST W OF I-5 AND LAGUNA BLVD INTERSECTION, APPROXIMATELY 2.4 MILES S OF FREEPORT.

Detailed Location:
 MAPPED TO PROVIDED MAP AND LOCATION DESCRIPTIONS OF "SNODGRASS SLOUGH 20' W. ELLIOT RD BEACH L. PRSV" (1974), "BEACH LAKE PRESERVE, 1 MI S. FREEPORT" (1976), & "EASTERN FACE OF THE LEVEE BETWEEN MORRISON CREEK AND THE LAKE" (1992).

Ecological:
 SHORE VEGETATION DOMINATED BY SCIRPUS ACUTA. LEVEE SERVES AS ACCESS TO AGRICULTURAL FIELD (PROPOSED CALTRANS MITIGATION BANK) TO EAST. LIGHT FISHING/RECREATIONAL USE FROM BLP MEMBERS (BEACH LAKE PROPERTIES).

Threats:
 SITE WAS SPRAYED BY HERBICIDES IN 1991.

General:
 SNAKES DETECTED ON 26 JUN & 3 JUL 1974 (A. SARTAIN FIELD NOTES #42). UNKNOWN NUMBER DETECTED IN 1976 BY G. HANSEN. 1 ADULT OBSERVED EATING A BULLFROG ON 19 JUL 1992.

PLSS:	T07N, R04E, Sec. 25 (M)	Accuracy:	nonspecific area	Area (acres):	705
UTM:	Zone-10 N4254384 E631417	Latitude/Longitude:	38.42806 / -121.49442	Elevation (feet):	10

County Summary:	Quad Summary:
Sacramento	Florin (3812144), Clarksburg (3812145)

Sources:

BRO80U0001	BRODE, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - GEOGRAPHIC REFERENCE CARD CATALOG OF SPECIMENS AND FIELD NOTE RECORDS COMPILED BY JOHN BRODE (DFG). 1980-XX-XX
NOS92F0001	NOSAL, T. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 1992-07-19



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11183	EO Index: 27594	
Key Quad: Verona (3812175)	Element Code: ARADB36150	
Occurrence Number: 18	Occurrence Last Updated: 2014-12-02	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2008-07-07	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2008-07-07	Occurrence Rank: Poor
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG RIEGO RD ABOUT 0.3-0.7 MILES W OF HWY 99 AND DRAINAGE CANALS 0.9 MI WNW OF RIEGO RD & HWY 99 INTERSECTION.

Detailed Location:
MAPPED TO PROVIDED COORDINATES AND LOCATION DESCRIPTIONS. 1999 CAPTURES ALONG N-S ORIENTED CANAL (W FEATURE). PROVIDED LOCATION DESCRIPTION FOR 1976 DETECTION WAS "RIEGO RD APPROXIMATELY 0.5 KM WEST OF SR-99/70."

Ecological:
DRAINAGE CANAL.

Threats:
FLOODING, VEGETATION CONTROL/MAINTENANCE, AG ACTIVITES (VEHICLE & FARM EQUIPMENT TRAFFIC), POLLUTION, & INTRODUCED SP.

General:
UNKNOWN NUMBER OF SNAKES DETECTED IN 1976. ANECDOTALLY OBSERVED DURING 1991. 6 CAPTURED AND RELEASED BETWEEN 23 JUL-19 AUG 1999; 2 WERE RECAPTURED DURING SURVEY. 1 FEMALE OBSERVED ON 3 MAY 2006. ADULT MALE FOUND DEAD ON ROAD ON 7 JUL 2008.

PLSS: T10N, R04E, Sec. 04 (M)	Accuracy: specific area	Area (acres): 59
UTM: Zone-10 N4290042 E625787	Latitude/Longitude: 38.75012 / -121.55246	Elevation (feet): 20

County Summary: Sutter	Quad Summary: Taylor Monument (3812165), Verona (3812175)
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Sources:

BRO80U0001	BRODE, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - GEOGRAPHIC REFERENCE CARD CATALOG OF SPECIMENS AND FIELD NOTE RECORDS COMPILED BY JOHN BRODE (DFG). 1980-XX-XX
HAN06D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN08D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2008. 2008-XX-XX
HAN80R0002	HANSON, G.E. & J.M. BRODE - STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS GIGAS (FITCH), DEPT. OF FISH AND GAME, INLAND FISHERIES ENDANGERED SPECIES PROGRAM, SPECIAL PUBLICATIONS 80-5. 1980-09-XX
HAN96R0001	HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12
USG04D0001	USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11147	EO Index: 27571	
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150	
Occurrence Number: 61	Occurrence Last Updated: 2006-05-09	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1996-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1996-XX-XX	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH DRAINAGE CANAL AT RIEGO RD, 0.7 MI E OF POWERLINE RD, NNW OF SACRAMENTO.

Detailed Location:

Ecological:

IRRIGATION CANAL, 30 FT WIDE, 3 FT DEEP, SLOW MOVING WATER. BERMS ON EACH SIDE HAVE BEEN CLEANED OF VEGETATION, NOW SUPPORTS THIN MARGIN OF GRASSES & CATTAILS.

Threats:

FLOOD CONTROL/WETLAND RECLAMATION; URBANIZATION; FLOODING; INTRODUCED PREDATORS; PEST CONTROL; POLLUTION.

General:

ONE ADULT FOUND FRESHLY RUN OVER BY A VEHICLE ON 15 APR 1986 - DEPOSITED W/CDFG. UNKNOWN NUMBER OF SNAKES OBSERVED DURING 1996.

PLSS: T10N, R04E, Sec. 05 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4289847 E624823	Latitude/Longitude: 38.74850 / -121.56358	Elevation (feet): 20

County Summary:

Sutter

Quad Summary:

Taylor Monument (3812165), Verona (3812175)

Sources:

- HAN86F0001 HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
- HAN86R0002 HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
- HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
- HAN96R0001 HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11113	EO Index: 27568	
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150	
Occurrence Number: 62	Occurrence Last Updated: 2014-12-03	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2010-09-17	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-09-17	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
POWERLINE RD, ABOUT 0.7 MI S OF RIEGO RD AND 1.7 MI N OF ELVERTA RD, E OF SACRAMENTO RIVER, NNW OF SACRAMENTO.

Detailed Location:
MAPPED TO PROVIDED 2008 AND 2010 COORDINATES AND 1986 LOCATION DESCRIPTION OF "POWER LINE ROAD, 0.7 MILES SOUTH OF RIEGO RD, 0.2 MILES SOUTH OF NORTH DRAINAGE CANAL CROSSING." DESCRIBED AS BEING DETECTED DURING 1986-87 SURVEYS BY G. HANSEN.

Ecological:
SMALL DRAINAGE DITCHES BORDERING POWERLINE RD, STANDS OF CATTAIL IN DITCH, GRASSES & LOW PERENNIALS (BUCHWHEAT & BLACKBERRIES) ALONG DITCH BANKS. LITTLE OPEN WATER. AGRICULTURAL ACTIVITY IN ADJACENT FIELDS WAS RICE.

Threats:
FLOODING, VEGETATION CONTROL, MAINTENANCE & AGRICULTURAL ACTIVITES, VEHICLE TRAFFIC, POLLUTION & INTRODUCED PREDATORS.

General:
ONE FOUND DEAD ON ROAD (POOR CONDITION, NOT PRESERVED) ON 15 APR 1986. 1 YOUNG ADULT MALE FOUND DEAD ON ROAD ON 15 JUN 2008. 1 ADULT FEMALE FOUND DEAD ON ROAD ON 8 AUG 2008. 1 ADULT OBSERVED "RUN OVER ON ROAD" ON 17 SEP 2010.

PLSS: T10N, R04E, Sec. 07 (M)	Accuracy: nonspecific area	Area (acres): 34
UTM: Zone-10 N4288850 E623676	Latitude/Longitude: 38.73968 / -121.57695	Elevation (feet): 20

County Summary: Sacramento, Sutter	Quad Summary: Taylor Monument (3812165)
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- Sources:**
- HAN08D0001 HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2008. 2008-XX-XX
 - HAN86F0001 HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
 - HAN86R0002 HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
 - HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
 - HUA10F0003 HUANG, J. (AECOM) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2010-09-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11064	EO Index: 27567	
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150	
Occurrence Number: 63	Occurrence Last Updated: 2014-07-21	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2012-05-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2012-05-22	Occurrence Rank: Good
Owner/Manager: SAC INTERNATIONAL AIRPORT	Trend: Unknown
Presence: Presumed Extant	

Location:
PRICHARD LAKE, ABOUT 1.1 MILES NW OF POWER LINE RD & ELVERTA RD INTERSECTION, EAST OF GARDEN HIGHWAY, NW OF SACRAMENTO.

Detailed Location:
MAPPED TO PROVIDED COORDINATES & MAPS. OTHER SNAKES WERE OBSERVED WITHIN AREA IN 2002, BUT COULD NOT BE CLEARLY IDENTIFIED DUE TO EVASIVENESS; SITE APPEARS TO CONTAIN A VIABLE GGS POPULATION. SITE INTENDED FOR WETLAND RESTORATION IN 2004.

Ecological:
HABITAT CONSISTS OF A RICE FIELDS AND WETLAND/MARSH CHARACTERIZED BY A DEEP CENTRAL CHANNEL; WETLAND AREA BOUNDED BY SCIRPUS, TYPHA, AND LUDWIGEA, AND BANKSIDES DOMINATED BY RUDERALS AND RUBUS.

Threats:
FLOOD CONTROL/WETLAND RECLAMATION, URBANIZATION, FLOODING, INTRODUCED PREDATORS, PEST CONTROL, VEHICLES, & POLLUTION.

General:
10+ OBSERVED ON 28 APR 1986. ANECDOTALLY REPORTED IN 1988. 2 OBSERVED JUL-SEP 2002. 1 CAPTURED TWICE AUG-SEP 2003. 1 CAPTURED ON 7 SEP 2008. 5 CAP MAY-AUG 2009. 1 CAP & 1 DOR MAY 2010. 2 JUVENILES OBS JUN-SEP 2011. 1 CAP ON 22 MAY 2012.

PLSS: T10N, R04E, Sec. 18 (M)	Accuracy: specific area	Area (acres): 67
UTM: Zone-10 N4287573 E622529	Latitude/Longitude: 38.72834 / -121.59038	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

GER02F0001	GERSON, R. (U.S. FISH AND WILDLIFE SERVICE) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2002-09-10
HAN03F0007	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2003-09-XX
HAN03R0002	HANSEN, E.C. - BASELINE SURVEYS FOR GIANT GARTER SNAKE (THAMNOPHIS GIGAS) AT THE PRICHARD LAKE RESTORATION PROJECT SITE: SACRAMENTO COUNTY, CALIFORNIA. 2003-12-22
HAN08D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2008. 2008-XX-XX
HAN09D0002	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2009 [SC-003881] 2009-XX-XX
HAN10D0001	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2010 [SC-003881] 2010-XX-XX
HAN11D0001	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2011 [SC-003881] 2011-XX-XX
HAN12D0001	HANSEN, E. - ERIC C. HANSEN'S GIANT GARTER SNAKE OBSERVATIONS [SC-003881] 2012-XX-XX
HAN86F0001	HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
HAN86R0002	HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
HAN88R0001	HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
HAN96R0001	HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12
SMY02F0001	SMYLY, J. (HARDING ESE, INC.) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2002-07-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11059	EO Index: 27566
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 64	Occurrence Last Updated: 1995-08-10

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1986-04-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1986-04-28	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
0.5 MI N OF ELVERTA RD, ONE MI W OF POWERLINE RD, 1.5 MI NORTH OF SACRAMENTO METRO AIRPORT.

Detailed Location:

Ecological:

N-S DRAIN (DITCH) LINKING 2 E-W DRAINS; 20 FT WIDE, LINED WITH COTTONWOODS, WILLOWS, & LUSH ANNUAL VEGETATION. ADJACENT AG FIELDS CONSISTS OF RICE & OTHER GRAINS (N & W) & SMALL GRAZED GRASSLAND TO THE SOUTH.

Threats:

FLOOD CONTROL/WETLAND RECLAMATION; URBANIZATION; FLOODING; INTRODUCED PREDATORS; PEST CONTROL; POLLUTION.

General:

ONE ADULT OBSERVED. LARGE COLONY (100+) OF NIGHT HERONS IN NEARBY WILLOW THICKET.

PLSS: T10N, R03E, Sec. 13 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4286783 E622094	Latitude/Longitude: 38.72128 / -121.59552	Elevation (feet): 20

County Summary:

Sacramento

Quad Summary:

Taylor Monument (3812165)

Sources:

- HAN86F0001 HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
- HAN86R0002 HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
- HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
- HAN96R0001 HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11108	EO Index:	27563
Key Quad:	Taylor Monument (3812165)	Element Code:	ARADB36150
Occurrence Number:	65	Occurrence Last Updated:	2014-12-05

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	2007-05-19	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-05-19	Occurrence Rank:	Fair
Owner/Manager:	PVT-NATOMAS MUTUAL WATER CO	Trend:	Unknown
Presence:	Presumed Extant		

Location:
IRRIGATION CANALS NEAR JUNCTION OF POWERLINE RD & ELVERTA RD, ~1.6 MI E OF GARDEN HWY, NNE OF SACRAMENTO INT'L AIRPORT.

Detailed Location:
MAPPED TO PROVIDED COORDINATES AND LOCATION DESCRIPTIONS OF: ELVERTA RD., 1.5 MILES E GARDEN HWY (1976); CANAL ON EAST SIDE/CROSSING POWER LINE RD. 0.25-0.3 MI N ELVERTA RD. (1986 & 1990); 1ST & 2ND CHECK DAMS N OF ELVERTA RD. (1992).

Ecological:
HIGHLINE IRRIGATION CANAL W/ DENSELY VEGETATED BANKS (GRASSES & RUDERALS) AND DENSE CATTAILS AT WATER MARGIN (2006). LEVEE BANKS SUPPORT LUSH STANDS OF MILK THISTLE, MUSTARD, BLACKBERRY. CANAL LINED WITH TULE & CATTAIL (1986). AG SURROUNDS.

Threats:
VEHICLES, URBANIZATION, WATER QUALITY & MGMT, FLOODING, VEG CONTROL & MAINTENANCE ACTIVITIES, INTRODUCED PREDATORS.

General:
DETECTED IN 1976. 1 DEAD ON ROAD (DOR) IN 1986. 1 OBSERVED IN 1990. 2 OBSERVED IN 1992. 1 OBSERVED IN 1999. 1 FEMALE CAPTURED ON 28 JUL & SEPARATE FEMALE CAPTURED ON 29 JUL 2003. 1 OBSERVED ON 20 SEP 2006. 1 FEMALE FOUND DOR ON 19 MAY 2007.

PLSS: T10N, R04E, Sec. 17 (M)	Accuracy: nonspecific area	Area (acres): 53
UTM: Zone-10 N4286186 E623755	Latitude/Longitude: 38.71567 / -121.57652	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

BRO80U0001	BRODE, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - GEOGRAPHIC REFERENCE CARD CATALOG OF SPECIMENS AND FIELD NOTE RECORDS COMPILED BY JOHN BRODE (DFG). 1980-XX-XX
BRO90F0003	BRODE, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 1990-09-14
HAN06D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN06F0013	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-09-20
HAN07D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2007. 2007-XX-XX
HAN80R0002	HANSON, G.E. & J.M. BRODE - STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS GIGAS (FITCH), DEPT. OF FISH AND GAME, INLAND FISHERIES ENDANGERED SPECIES PROGRAM, SPECIAL PUBLICATIONS 80-5. 1980-09-XX
HAN86F0001	HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
HAN86R0002	HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
HAN88R0001	HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
HAN96R0001	HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12
USG04D0001	USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09
WOR92F0001	WORKMAN, M. & T. KING (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 1992-04-27
WOR92F0002	WORKMAN, M. & T. KING (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 1992-04-27
WYL04R0001	WYLIE, G. ET AL. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - MONITORING GIANT GARTER SNAKES IN THE NATOMAS BASIN: 2003 RESULTS 2004-01-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11091	EO Index: 27562
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 66	Occurrence Last Updated: 1995-08-10

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed: 1986-04-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1986-04-15	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
 CREEK/MARSH 0.3 MI WEST OF POWERLINE ROAD AND 0.3 MI SOUTH OF ELVERTA ROAD, 1 MI NE OF SACRAMENTO METRO AIRPORT.

Detailed Location:

Ecological:

SMALL (10 FT WIDE), SLOW-MOVING CR CONTAINING LUSH VEG OF WILLOW, COTTONWOOD, TULE, & CATTAIL. CR OVERFLOW PRODUCED WIDE, MARSHY AREA EAST OF CR. AG (RICE) SURROUNDS THIS LOW-LYING WASATE AREA.

Threats:

NEW DEVELOPMENT ON AIRPORT PROPERTY (TO THE SOUTH) RAPIDLY ENCROACHING.

General:

ONE JUVENILE OBSERVED.

PLSS: T10N, R04E, Sec. 19 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4285536 E623225	Latitude/Longitude: 38.70989 / -121.58273	Elevation (feet): 20

County Summary:

Sacramento

Quad Summary:

Taylor Monument (3812165)

Sources:

- HAN86F0001 HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
- HAN86R0002 HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
- HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
- HAN96R0001 HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11271	EO Index: 27561	
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150	
Occurrence Number: 67	Occurrence Last Updated: 2014-12-09	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1999-06-17	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1999-06-17	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SMALL DRAINAGE CANALS N OF ELKHORN BLVD & WEST OF EAST DRAINAGE CANAL, NORTH OF SACRAMENTO.

Detailed Location:
ONE CANAL RUNS E-W, PARALLEL TO ELKHORN BLVD & ONE CANAL RUNS N-S, PERPENDICULAR TO ELKHORN BLVD & PARALLEL TO EAST DRAINAGE CANAL.

Ecological:
1986: E-W CANAL WITH STEEP CUT BANKS LINED WITH TULE & CATTAIL. PARALLELS N SIDE OF ABANDONED ROADWAY N OF ELKHORN BLVD. SMALLER DITCH BETWEEN 2 PAVED RDS SUPPORTS THICK STAND OF TULE/CATTAIL. GOOD HABITAT ALL YEAR.

Threats:
FLOOD CONTROL/WETLAND RECLAMATION; URBANIZATION; FLOODING; INTRODUCED PREDATORS; PEST CONTROL; POLLUTION.

General:
10+ ADULTS OBS APR 1986 IN E-W RUNNING CANAL. 1994,1996: UNK # OBS. BOTH CANALS: 3 FEMALES, 4 MALES CAPTURED BY HAND OR NET ON DRY LAND 15 MAY-3 JUN 1998. 1 SNAKE SIGHTED 17 JUN 1999. CAPTURED SNAKES WEIGHED, MEASURED, PIT TAGGED, RELEASED.

PLSS: T10N, R04E, Sec. 26 (M)	Accuracy: nonspecific area	Area (acres): 44
UTM: Zone-10 N4283192 E629423	Latitude/Longitude: 38.68788 / -121.51191	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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- Sources:**
- HAN86F0001 HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
 - HAN86R0002 HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
 - HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
 - HAN96R0001 HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12
 - USG04D0001 USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11112	EO Index: 27560
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 68	Occurrence Last Updated: 1995-08-10

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed: 1986-05-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1986-05-11	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
CANAL E OF POWERLINE RD, 0.9 MI S OF ELVERTA RD, 1 MI E OF SACRAMENTO AIRPORT.

Detailed Location:

Ecological:

20 FT WIDE IRRIGATION CANAL, W/ELEVATED BERMS ON EACH SIDE; RECENTLY CLEANED & DEVOID OF VEG. BANKS SUPPORT ANNUAL GRASSES, THISTLES, TULE, CATTAILS, & A FEW WILLOWS.

Threats:

FLOOD CONTROL/WETLAND RECLAMATION; URBANIZATION; FLOODING; INTRODUCED PREDATORS; PEST CONTROL; POLLUTION.

General:

2 FEMALES FOUND IN DEPRESSION BY PUMP AT S END OF CANAL. ONE RELEASED AT PRICHARD LAKE, THE SECOND DIED.

PLSS: T10N, R04E, Sec. 20 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4284744 E623816	Latitude/Longitude: 38.70267 / -121.57608	Elevation (feet): 20

County Summary:

Sacramento

Quad Summary:

Taylor Monument (3812165)

Sources:

- HAN86F0001 HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
- HAN86R0002 HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
- HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
- HAN96R0001 HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11148	EO Index: 27559	
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150	
Occurrence Number: 69	Occurrence Last Updated: 2014-12-12	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2006-09-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-09-01	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:

CANALS ALONG LONE TREE RD, FROM ABOUT 0.5 MI E OF ELKHORN RD AND METRO PKWY INTERSECTION, JUST N OF I-5.

Detailed Location:

MAPPED TO PROVIDED COORDINATES & PROVIDED LOCATION DESCRIPTION OF T 10N, R 4E, SE 1/4 OF NE 1/4 OF SEC 32. GENERAL LOCATION (1986) DESCRIBED AS "THREE PARALLEL DITCHES, RUNNING E-W, INTERSECT N-S RUNNING CANAL AT LONE TREE RD."

Ecological:

SEVERAL DRAINAGE AND IRRIGATION CANALS AND DITCHES; 3 RUNNING EAST-WEST, 1 LARGER RUNNING NORTH-SOUTH. LARGER DITCH WAS LINED WITH CATTAIL, TULE, WILLOW, COTTONWOOD, AND BLACKBERRY. MIDDLE DITCH WAS SMALLER AND SLIGHTLY LESS VEGETATED.

Threats:

PROPOSED DEVELOPMENT, LACK OF WATER, FLOODING, VEGETATION CONTROL & MAINTENANCE ACTIVITIES, AND INTRODUCED PREDATORS.

General:

1 ADULT SNAKE OBSERVED ON 4 AUG 1986; EXACT LOCATION UNKNOWN. 1 FEMALE CAPTURED ON 1 JUL, 1 MALE AND 1 FEMALE CAPTURED ON 11 JUL, & 1 FEMALE CAPTURED ON 14 JUL 1999. 0 CAPTURED BETWEEN 21 JUL-6 AUG 2003. 2 FEMALES CAPTURED ON 1 SEP 2006.

PLSS: T10N, R04E, Sec. 33 (M)	Accuracy: specific area	Area (acres): 24
UTM: Zone-10 N4282513 E625433	Latitude/Longitude: 38.68234 / -121.55789	Elevation (feet): 15

County Summary:

Sacramento

Quad Summary:

Taylor Monument (3812165)

Sources:

- HAN06D0001 HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
- HAN06F0007 HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-09-01
- HAN86F0001 HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
- HAN86R0002 HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
- HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
- HAN96R0001 HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12
- USG04D0001 USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09
- WYL04R0001 WYLIE, G. ET AL. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - MONITORING GIANT GARTER SNAKES IN THE NATOMAS BASIN: 2003 RESULTS 2004-01-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11186	EO Index:	27558
Key Quad:	Taylor Monument (3812165)	Element Code:	ARADB36150
Occurrence Number:	70	Occurrence Last Updated:	2009-10-26

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	1986-03-25	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1986-03-25	Occurrence Rank:	None
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
 BAYOU WAY, 0.5 MI SW OF HWY 99/I-5 INTERCHANGE, APPROXIMATELY 1 MI E OF POWERLINE RD, SACRAMENTO.

Detailed Location:

Ecological:

1986: DRAINAGE CANAL PARALLELING S SIDE OF BAYOU WAY; 20 FT WIDE W/STRAIGHT VERTICAL BANKS; RECENTLY CLEANED, THUS LITTLE ESTABLISHED VEG (ANNUAL GRASSES DOMINATE). ADJACENT RICE FIELDS. 2008: AERIAL PHOTO SHOWS RESIDENTIAL DEVELOPMENT.

Threats:

FLOOD CONTROL/WETLAND RECLAMATION; URBANIZATION; FLOODING; INTRODUCED PREDATORS; PEST CONTROL; POLLUTION.

General:

ONE JUVENILE FOUND DEAD ON BAYOU WAY BESIDE CANAL - SPECIMEN HOUSED AT DFG.

PLSS: T09N, R04E, Sec. 04 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4280749 E626539	Latitude/Longitude: 38.66629 / -121.54551	Elevation (feet): 20

County Summary:

Sacramento

Quad Summary:

Taylor Monument (3812165)

Sources:

- HAN86F0001 HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
- HAN86R0002 HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
- HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
- HAN96R0001 HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11199	EO Index: 27555	
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150	
Occurrence Number: 72	Occurrence Last Updated: 2014-12-12	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1986-06-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1986-06-25	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
VICINITY OF EL CENTRO ROAD & DEL PASO ROAD INTERSECTION, ABOUT 0.4 MILES WEST OF I-5, NATOMAS, NORTH OF SACRAMENTO.

Detailed Location:
1980 SNAKE COLLECTED AT EL CENTRO RD AT DEL PASO RD. 1986 LOCATION DESCRIPTION WAS "SMALL (5-10 FT WIDE) ROADSIDE DITCHES PARALLELING EL CENTRO RD ON BOTH E & W SIDES & THOSE PARALLELING DEL PASO ON N & S CONVERGE HERE."

Ecological:
1986: STEEP 10 FT BANKS SUPPORT MOSTLY ANNUAL GRASSES & THISTLES, WITH SOME TULE & CATTAIL IN DITCHES. 2008 AERIAL PHOTOS SHOW THIS AREA IS ALMOST COMPLETELY DEVELOPED.

Threats:
FLOOD CONTROL/WETLAND RECLAMATION, URBANIZATION, FLOODING, INTRODUCED PREDATOR, PEST CONTROL, POLLUTION.

General:
1 COLLECTED ON 1 AUG 1980 BY G. HANSEN (CAS# 178587, DFGHM# 75). 1 ADULT AND 2 JUVENILES OBSERVED ON 25 JUN 1986 BASKING BETWEEN IN CRACKS BETWEEN PIECES OF CONCRETE RIPRAP AT CULVERT IN SW CORNER OF INTERSECTION.

PLSS: T09N, R04E, Sec. 09 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4279592 E627055	Latitude/Longitude: 38.65579 / -121.53979	Elevation (feet): 17

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

BRO80U0001	BRODE, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - GEOGRAPHIC REFERENCE CARD CATALOG OF SPECIMENS AND FIELD NOTE RECORDS COMPILED BY JOHN BRODE (DFG). 1980-XX-XX
HAN80S0063	HANSEN, G. (CALIFORNIA ACADEMY OF SCIENCES) - CAS HERPETOLOGICAL SPECIMEN #178587, COLLECTED AT EL CENTRO RD AT DEL PASO RD., SACTO., CA 1980-08-01
HAN86F0001	HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
HAN86R0002	HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
HAN88R0001	HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11265	EO Index: 27554	
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150	
Occurrence Number: 73	Occurrence Last Updated: 2014-12-05	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1998-06-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1998-06-26	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
ALONG DEL PASO RD, BTWN TRUXEL RD & E DRAINAGE CANAL, 1.9 MI SE OF HWY 99 & I-5 INTERCHANGE, NATOMAS, N OF SACRAMENTO.

Detailed Location:
MAPPED TO PROVIDED COORDINATES & LOCATION DESCRIPTION OF "CANAL N DEL PASO RD., W EAST DRAINAGE CANAL." 1980 SNAKE (CAS #178588, DFGHM #76) COLLECTED "DEL PASO RD. 0.2 W. EAST DRAINAGE CANAL 1.2 MI E HWY 99 - I-5."

Ecological:
SMALL ROADSIDE DRAINAGE DITCH PARALLELING N EDGE OF ROAD. IN 1986, STEEP BANKS WITH GRASSES & CATTAIL/TULE AT WATER MARGIN. NORTH BANK IS AN ELEVATED BERM WITH SOME WILLOW & BLACKBERRY. 2009 AERIAL PHOTOS SHOW AREA IS COMPLETELY DEVELOPED.

Threats:
1998: AG, DEVELOPMENT, FLOOD CONTROL/WETLAND RECLAMATION, FLOODING, INTRODUCED PREDATOR, PEST CONTROL, POLLUTION.

General:
1 COLLECTED ON 1 SEP 1980. 1 ADULT OBSERVED 30 APR 1986. 1 SNAKE SIGHTED AND 1 FEMALE CAPTURED BY HAND OR NET ON DRY LAND ON 26 JUN 1998; CAPTURED SNAKE WAS WEIGHED, MEASURED, PIT TAGGED AND RELEASED.

PLSS: T09N, R04E, Sec. 11 (M)	Accuracy: nonspecific area	Area (acres): 21
UTM: Zone-10 N4279696 E629660	Latitude/Longitude: 38.65635 / -121.50984	Elevation (feet): 11

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

BRO80U0001 BRODE, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - GEOGRAPHIC REFERENCE CARD CATALOG OF SPECIMENS AND FIELD NOTE RECORDS COMPILED BY JOHN BRODE (DFG). 1980-XX-XX

HAN80S0062 HANSEN, G. (CALIFORNIA ACADEMY OF SCIENCES) - CAS HERPETOLOGICAL SPECIMEN #178588, COLLECTED ON DEL PASO RD, 0.2 MI W OF EAST DRAINAGE CANAL, 1.2 MI E HWY 99 - I-5, SACTO. CO. CALIF. 1980-09-01

HAN86F0001 HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX

HAN86R0002 HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX

HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX

USG04D0001 USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11274	EO Index: 27552
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 74	Occurrence Last Updated: 2010-08-18

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1986-04-30	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1986-04-30	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
SMALL DITCH INTERSECTING EAST DRAINAGE CANAL, 0.3 MI S OF DEL PASO RD, SACRAMENTO.

Detailed Location:

Ecological:

1986: SMALL (10-15 FT WIDE) E-W DITCH WITH THICKETS OF WILLOW, COTTONWOOD, BLACKBERRY & TULE/CATTAIL MARGINS. LARGER (30 FT WIDE) EAST DRAINAGE CANAL HAS 4 FT STEEP VERT LEVEES WHICH HAVE BEEN CLEARED OF VEG EXCEPT RIGHT AT WATER EDGE.

Threats:

1986: ENCROACHING DEVELOPMENT TO THE EAST; FLOOD CONTROL; INTRODUCED PREDATOR; PEST CONTROL; POLLUTION.

General:

1 ADULT & 1 JUV OBSERVED 30 APR 1986. 2009 AERIAL PHOTOS SHOW THAT THIS AREA HAS BEEN COMPLETELY DEVELOPED.

PLSS: T09N, R04E, Sec. 11 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4279136 E629852	Latitude/Longitude: 38.65128 / -121.50774	Elevation (feet): 10

County Summary:

Sacramento

Quad Summary:

Taylor Monument (3812165)

Sources:

- HAN86F0001 HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
- HAN86R0002 HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
- HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
- HAN96R0001 HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11276	EO Index:	27551
Key Quad:	Taylor Monument (3812165)	Element Code:	ARADB36150
Occurrence Number:	75	Occurrence Last Updated:	2010-08-18

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	1986-04-30	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1986-04-30	Occurrence Rank:	None
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
 INTERSECTION OF SMALL E-W CANAL W/ EAST DRAINAGE CANEL, 1.5 MI S DEL PASO RD, SACRAMENTO.

Detailed Location:

Ecological:

1986: 30 FT WIDE SLOW-MOVING E DRAINAGE CANAL W/STEEP BANKS & CATTAIL/TULE AT WATER EDGE; BLACKBERRIES, MILK THISTLE, MUSTARD, STAR THISTLE ON BANKS. SMALLER DITCH IS SIMILAR W/A FEW COTTONWOODS & WILLOWS WHICH SURVIVED CLEARING 2 YRS AGO.

Threats:

AGRICULTURE; DEVELOPMENT; FLOOD CONTROL/WETLAND RECLAMATION; INTRODUCED PREDATOR; PEST CONTROL; POLLUTION.

General:

ONE JUVENILE OBSERVED 30 APR 1986. 2009 AERIAL PHOTOS SHOW THAT THIS AREA HAS BEEN COMPLETELY DEVELOPED.

PLSS:	T09N, R04E, Sec. 14 (M)	Accuracy:	1/5 mile	Area (acres):	0
UTM:	Zone-10 N4277289 E630004	Latitude/Longitude:	38.63462 / -121.50634	Elevation (feet):	10

County Summary:

Sacramento

Quad Summary:

Taylor Monument (3812165)

Sources:

- HAN86F0001 HANSEN, G.E. - COLLECTION OF FIELD SURVEY FORMS FROM GEORGE HANSEN'S STUDY OF THE GIANT GARTER SNAKE IN SOUTHERN SACTO. VALLEY (SEE HAN86R0002) FOR FULL REPORT. 1986-XX-XX
- HAN86R0002 HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE, THAMNOPHIS COUCHII GIGAS (FITCH), IN THE SOUTHERN SACRAMENTO VALLEY DURING 1986". 1986-XX-XX
- HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
- HAN96R0001 HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11449	EO Index: 27544	
Key Quad: Florin (3812144)	Element Code: ARADB36150	
Occurrence Number: 84	Occurrence Last Updated: 2014-12-24	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1982-08-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1987-XX-XX	Occurrence Rank: None
Owner/Manager: PVT	Trend: Unknown
Presence: Possibly Extirpated	

Location:
LAGUNA CREEK, JUST W OF HWY 99 OVERPASS, ABOUT 0.8 MI SE OF JCT OF BRUCEVILLE RD & SHELDON RD, ELK GROVE.

Detailed Location:
MAPPED TO PROVIDED LOCATION OF "0.2 MILES W US 99, 0.5 MILES S SHELDON RD" (1982). 1976 DETECTION LOCATION GIVEN AS "LAGUNA CRK, W OF HWY 99 AT ARNO RD OVERCROSSING." ARNO RD RUNS ABOUT 8 MI TO THE SE; ATTRIBUTED TO LAGUNA CK W OF HWY 99.

Ecological:
1982: SNAKE FOUND SWIMMING AMONG CATTAILS & TULE; AREA ALSO KNOWN AS "CONFLUENCE MARSH" (JCT OF LAGUNA CR & ELK GROVE CR). POTENTIAL PREY SPECIES INCLUDE CARP, BULLHEAD, MOSQUITOFISH, & BULLFROG.

Threats:
1982: MARSH SURROUNDED BY IRRIGATED PASTURE & GRAZED GRASSLAND. 2009: CONSTRUCTED WETLAND IN HEAVILY DEVELOPED AREA.

General:
UNKNOWN NUMBER OF SNAKES DETECTED ON 1 JUL 1976 BY G. HANSEN (FIELD #270). 1 ADULT OBSERVED SWIMMING ON 3 AUG 1982. NONE OBSERVED DURING 1986-87 STUDY BY G. HANSEN DUE TO HEAVY FLOOD EVENT.

PLSS: T07N, R05E, Sec. 26 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4254866 E639409	Latitude/Longitude: 38.43119 / -121.40279	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

BRO80U0001	BRODE, J. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - GEOGRAPHIC REFERENCE CARD CATALOG OF SPECIMENS AND FIELD NOTE RECORDS COMPILED BY JOHN BRODE (DFG). 1980-XX-XX
HAN82R0001	HANSEN, G.E. - "STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS), ALONG PORTIONS OF LAGUNA AND ELK GROVE CREEKS, SACRAMENTO COUNTY, CA." 1982-XX-XX
HAN88R0001	HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	21511	EO Index:	18144
Key Quad:	Taylor Monument (3812165)	Element Code:	ARADB36150
Occurrence Number:	85	Occurrence Last Updated:	1993-02-09

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	1988-05-21	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1988-05-21	Occurrence Rank:	Fair
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
0.65 MI NORTH OF ELKHORN BLVD AND 0.3 MI EAST OF HWY 99, 3 MI EAST OF SACRAMENTO METROPOLITAN AIRPORT.

Detailed Location:
GGS WAS FOUND ON THE SOUTH BANK OF THE AGRICULTURAL CANAL.

Ecological:
HABITAT IS AN AGRICULTURAL CANAL CONTAINING SMALL STRANDS OF STREAMSIDE GRASSES, TULE, CATTAILS, MUSTARD, ETC. VEGETATING THE BANKS. SURROUNDING AREA IS RICE/WHEAT AGRICULTURE.

Threats:
THREATENED BY VEGETATION DISTURBANCE IN CANALS AND SUPPORTING LEVEES AND BERMS.

General:
ONE ADULT OBSERVED BASKING. THIS CANAL IS PROBABLY IMPORTANT AS A CONNECTING CORRIDOR BETWEEN EASTERN AND WESTERN AMERICAN BASIN GIANT GARTER SNAKE COLONIES.

PLSS:	T10N, R04E, Sec. 27 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4283970 E627438	Latitude/Longitude:	38.69518 / -121.53459	Elevation (feet):	20

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

Sources:

HAN88F0001	HANSEN, G.E. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 1988-05-21
HAN96R0001	HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 21513	EO Index: 18143	
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150	
Occurrence Number: 86	Occurrence Last Updated: 2014-12-08	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2000-08-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2000-08-01	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
CANALS IN VICINITY OF ELKHORN BLVD, EAST OF HWY 99, WEST OF COMMERCE WAY, 3 MI EAST OF SACRAMENTO INTERNATIONAL AIRPORT.

Detailed Location:
CAS & LSU LOCATIONS GIVEN AS "ELKHORN BLVD, JUST E CA-99." EACH LSU SPECIMENS NOTED AS BEING "IN DAM, 1 OF BROOD OF 6." 1983 SNAKES DELIVERED TO CAL POLY POMONA (CAPTIVE BREEDING); COLLECTED AT "JUNCT. ELKHORN BLVD & HWY 99."

Ecological:
HABITAT CONSISTS OF AGRICULTURAL/ROADSIDE DRAINS; DRAINS HAVE GRASSY BANKS AND TULE/CATTAIL STANDS ALONG THE WATER MARGIN. SURROUNDING LAND USE IS RICE/WHEAT AGRICULTURE.

Threats:
MAIN THREAT IS HABITAT DESTRUCTION OF CANALS, THEIR BANKS, AND SUPPORTING BERMS AND LEVEES. ALSO ROAD TRAFFIC.

General:
3 LIVE COLL IN 1983; CAL POLY POMONA. 7 COLL ON 26 MAY 1986, CAS #178596 & LSU #44363-7. DETECTED 1986-87. 1 FOUND DEAD ON ROAD ON 22 MAY 1988; DEPOSITED W/ CDFW. 1 FEMALE CAPTURED ON 28 APR 1998; TAGGED/RELEASED. 1 OBSERVED ON 1 AUG 2000.

PLSS: T10N, R04E, Sec. 27 (M)	Accuracy: nonspecific area	Area (acres): 79
UTM: Zone-10 N4282892 E627284	Latitude/Longitude: 38.68549 / -121.53655	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

CAS05S0005	CALIFORNIA ACADEMY OF SCIENCES - PRINTOUT OF CAS MUSEUM SPECIMENS FOR THAMNOPHIS GIGAS. 2005-06-21
HAN88F0002	HANSEN, G.E. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 1988-05-22
HAN88R0001	HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
LSU05S0001	LOUISIANA STATE UNIVERSITY MUSEUM OF ZOOLOGY - PRINTOUT OF THAMNOPHIS GIGAS RECORDS. 2005-06-21
STE86U0006	STEWART, G. (CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA) - LETTER TO J. BRODE (DFG) WITH UPDATE ON FIELD WORK ON GIANT GARTER SNAKE AND RUBBER BOA PER MEMORANDUM OF UNDERSTANDING (INCLUDES LIST OF STEWART & ROSSMAN GGS SPECIMEN LOCALS). 1986-01-06
USG04D0001	USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 21512	EO Index: 18150	
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150	
Occurrence Number: 87	Occurrence Last Updated: 2006-05-10	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1992-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-XX-XX	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
0.65 MI NORTH OF ELKHORN BLVD AND 1 MI EAST OF HWY 99, 3.7 MI EAST OF SACRAMENTO METROPOLITAN AIRPORT.

Detailed Location:

Ecological:

HABITAT IS AN AGRICULTURAL CANAL WITH SMALL STRANDS OF STREAMSIDE GRASSES, TULE, CATTAILS, MUSTARD, ETC. VEGETATING THE BANKS. SURROUNDING LAND USE IS RICE/WHEAT AGRICULTURE.

Threats:

MAIN THREAT IS DISTURBANCE ALONG CANALS, THEIR BANKS, AND THEIR SUPPORTING LEVEES OR BERMS.

General:

1 ADULT OBSERVED ON 22 MAY 1988 WHERE THE DIRT ROAD CROSSES THE CANAL. UNKNOWN NUMBER OBSERVED DURING 1992. THIS CANAL IS PROBABLY IMPORTANT AS A CONNECTING CORRIDOR BETWEEN EASTERN & WESTERN AMERICAN BASIN GIANT GARTER SNAKE POPULATIONS.

PLSS: T10N, R04E, Sec. 27 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4283979 E628550	Latitude/Longitude: 38.69510 / -121.52180	Elevation (feet): 20

County Summary:

Sacramento

Quad Summary:

Taylor Monument (3812165)

Sources:

HAN88F0003	HANSEN, G.E. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 1988-05-22
HAN96R0001	HANSEN, G. - GPS COORDINATES FOR LOCATIONS OF THE GIANT GARTER SNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY AT THE TIME OF FEDERAL LISTING 1996-09-12



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	21510	EO Index:	18146
Key Quad:	Taylor Monument (3812165)	Element Code:	ARADB36150
Occurrence Number:	88	Occurrence Last Updated:	2014-12-08

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	2014-09-17	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2014-09-17	Occurrence Rank:	Poor
Owner/Manager:	NATOMAS BASIN CONSERVANCY, PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ELVERTA CANAL, NORTH & EAST DRAINAGE CANAL & INTERSECTING CANALS, FROM SACRAMENTO/SUTTER COUNTY LINE S TO ELVERTA RD.

Detailed Location:
 DIGITAL DATA PROVIDED BY E.C. HANSEN & USGS-WERC. CANALS FOUND WITHIN THE AMERICAN BASIN. MAJORITY OF SNAKES WERE DETECTED VIA CAPTURE, SOME ONLY OBSERVED. MANY SNAKES WERE CAPTURED MORE THAN ONCE DURING YEARLY SURVEYS.

Ecological:
 HABITAT COMPOSED OF MANAGED WETLAND CHARACTERIZED BY MUD/SILT SUBSTRATE WITH STEEP BANKS VEGETATED WITH GRASSES & RUDERALS. CANAL PROPER DENSELY VEGETATED WITH BULRUSH, CATTAIL, SMARTWEED, AND WATER PRIMROSE. RICE FIELDS ADJACENT.

Threats:
 AG OPERATIONS, GRAZING, VEHICLE/EQUIPMENT TRAFFIC, DEVELOPMENT, FLOODING, VEG CONTROL, INTRODUCED PREDATORS, POLLUTION.

General:
 DETECTED IN 1986-1987, & 1990. CAPTURED/MONITORED 1995-2006. 40-164 CAPTURED 1998-2000. 11-57 CAPTURED 2001-2003. 49-68 CAPTURED 2005-2006. 52-85 CAPTURED 2007-2010. 87-92 CAPTURED 2011-2013. 109 CAPTURED 17 APR-17 SEP 2014.

PLSS:	T10N, R04E, Sec. 15 (M)	Accuracy:	specific area	Area (acres):	713
UTM:	Zone-10 N4287539 E628492	Latitude/Longitude:	38.72718 / -121.52180	Elevation (feet):	15

County Summary:	Quad Summary:
Sacramento, Sutter	Rio Linda (3812164), Taylor Monument (3812165)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

BRO90F0004	BRODE, J.M. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS (=THAMNOPHIS COUCHII GIGAS) 1990-06-20
COA09R0002	COATES, P.S. ET AL. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - USING TIME-DEPENDENT MODELS TO INVESTIGATE BODY CONDITION AND GROWTH RATE OF THE GIANT GARTERSNAKE. JOURNAL OF ZOOLOGY 2009-06-25
HAN05F0009	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-09-16
HAN05F0010	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-06-07
HAN05F0011	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-06-07
HAN05F0013	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-08-01
HAN05F0015	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-05-28
HAN05U0001	HANSEN, E. - SHAPEFILE (CREATED FROM EXCEL FILE FROM HANSEN) OF THAMNOPHIS GIGAS LOCATIONS FOR YEARS 2001-2004. ALSO INCLUDES HARDCOPY OF ATTRIBUTE TABLE LOCATED IN ELEMENT FILE. 2005-07-XX
HAN06D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN06F0004	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-08-28
HAN06F0008	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-07-31
HAN06F0009	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-07-06
HAN07D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2007. 2007-XX-XX
HAN08D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2008. 2008-XX-XX
HAN09D0002	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2009 [SC-003881] 2009-XX-XX
HAN10D0001	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2010 [SC-003881] 2010-XX-XX
HAN11D0001	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2011 [SC-003881] 2011-XX-XX
HAN12F0001	HANSEN, E. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2012-09-13
HAN12F0002	HANSEN, E. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2012-09-09
HAN88R0001	HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX
SKA14D0001	SKALOS, S. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - DIGITAL DATABASE FOR GIANT GARTER SNAKE FOR SURVEYS CONDUCTED BY USGS-WERC, YEARS 2005-2014 2014-09-24
STA01F0002	STACKHOUSE, E.L. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2001-08-10
STA01F0013	STACKHOUSE, E. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR PLEGADIS CHIHI & FALCO PEREGRINUS ANATUM & THAMNOPHIS GIGAS 2001-08-10
STA12F0003	STACKHOUSE, E. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2012-07-20
STA12F0004	STACKHOUSE, E. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2012-07-23
STA12F0005	STACKHOUSE, E. (SACRAMENTO COUNTY) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2012-07-25
USG04D0001	USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09
WYL04R0001	WYLIE, G. ET AL. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - MONITORING GIANT GARTER SNAKES IN THE NATOMAS BASIN: 2003 RESULTS 2004-01-XX
WYL10R0001	WYLIE, G. ET AL. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - ABUNDANCE AND SEXUAL SIZE DIMORPHISM OF THE GIANT GARTERSNAKE (THAMNOPHIS GIGAS) IN THE SACRAMENTO VALLEY OF CALIFORNIA. JOURNAL OF HERPETOLOGY, VOL. 44, NO. 1, PP. 94-103, 2010 2010-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 21514	EO Index: 18147	
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150	
Occurrence Number: 89	Occurrence Last Updated: 2010-08-18	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1990-09-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1990-09-26	Occurrence Rank: None
Owner/Manager: PVT	Trend: Unknown
Presence: Possibly Extirpated	

Location:
EAST DRAINAGE CANAL, BETWEEN DEL PASO BLVD AND ELKHORN BLVD, 5 MI EAST OF SACRAMENTO INTERNATIONAL AIRPORT.

Detailed Location:

Ecological:

1990: HABITAT ALONG CANAL BANKS IS SPARSE EMERGENT MONOCOTS; LEVEES ARE NON-NATIVE GRASSLAND. SURROUNDING LAND USE IS AG; RICE, SAFFLOWER, & SUGAR BEETS GROWING AT TIME OF THIS OBSERVATION. 2009 AERIAL PHOTOS SHOW THIS AREA DEVELOPED.

Threats:

1990: THREATENED BY A PROPOSED RESIDENTIAL AND GOLF COURSE DEVELOPMENT.

General:

SNAKE WAS APPROXIMATELY 0.75 METERS LONG; OBSERVED BASKING ALONG THE EDGE OF THE CANAL. MANY GROUND SQUIRREL BURROWS AND CRACKS PROVIDE POTENTIAL HIBERNACULA.

PLSS: T10N, R04E, Sec. 35 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4281353 E629871	Latitude/Longitude: 38.67125 / -121.50710	Elevation (feet): 10

County Summary:

Sacramento

Quad Summary:

Taylor Monument (3812165)

Sources:

TOW90F0001 TOWERS, S. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 1990-09-26



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 32417	EO Index: 7895
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 121	Occurrence Last Updated: 1995-07-31

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1987-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1987-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
CANAL; 1.2 KM EAST OF THE CROSSING BETWEEN NORTH MAIN CANAL AND RIEGO ROAD.

Detailed Location:

Ecological:

Threats:

General:

SNAKE OBSERVED DURING 1986-87 STUDY.

PLSS: T10N, R04E, Sec. 02 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4290071 E628877	Latitude/Longitude: 38.74993 / -121.51691	Elevation (feet): 23

County Summary:

Sutter

Quad Summary:

Taylor Monument (3812165), Verona (3812175)

Sources:

HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	32420	EO Index:	8488
Key Quad:	Taylor Monument (3812165)	Element Code:	ARADB36150
Occurrence Number:	124	Occurrence Last Updated:	1995-07-31

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	1987-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1987-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
DRAINAGE CANAL; 0.9 KM S OF ELVERTA CANAL; 1.6 KM E OF EAST DRAINAGE CANAL.

Detailed Location:

Ecological:

Threats:

General:

SNAKE OBSERVED DURING THE 1986-87 STUDY.

PLSS: T10N, R04E, Sec. 23 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4285193 E628549	Latitude/Longitude: 38.70604 / -121.52159	Elevation (feet): 20

County Summary:

Sacramento

Quad Summary:

Taylor Monument (3812165)

Sources:
HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	32424	EO Index:	8487
Key Quad:	Taylor Monument (3812165)	Element Code:	ARADB36150
Occurrence Number:	128	Occurrence Last Updated:	1995-07-31

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	1987-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1987-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 AMERICAN BASIN; APPROX. 0.7 KM SE OF THE INTERSECTION BETWEEN ELVERTA ROAD AND POWERLINE ROAD.

Detailed Location:

Ecological:

Threats:

General:

SNAKE OBSERVED DURING 1986-87 STUDY.

PLSS: T10N, R04E, Sec. 20 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4285804 E624360	Latitude/Longitude: 38.71214 / -121.56964	Elevation (feet): 15

County Summary:

Sacramento

Quad Summary:

Taylor Monument (3812165)

Sources:
 HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32425	EO Index: 9262
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 129	Occurrence Last Updated: 2010-08-18

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1987-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1987-XX-XX	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
AMERICAN BASIN; DRAINAGE CANAL 0.8 KM ESE OF I-5 JUNCTION WITH DEL PASO ROAD.

Detailed Location:

Ecological:
2009 AERIAL PHOTOS SHOW THAT THIS AREA HAS BEEN DEVELOPED.

Threats:

General:
SNAKE OBSERVED AT SITE DURING THE 1986-87 STUDY.

PLSS: T09N, R04E, Sec. 10 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4279538 E628321	Latitude/Longitude: 38.65513 / -121.52526	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:
HAN88R0001 HANSEN, G.E. - DRAFT FOR REVIEW OF THE STATUS OF THE GIANT GARTER SNAKE (THAMNOPHIS COUCHII GIGAS) AND ITS SUPPORTING HABITAT DURING 1986-1987. 1988-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	36594	EO Index:	31591
Key Quad:	Rio Linda (3812164)	Element Code:	ARADB36150
Occurrence Number:	145	Occurrence Last Updated:	1997-09-04

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	1996-09-27	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1996-09-27	Occurrence Rank:	Unknown
Owner/Manager:	PVT, SAC COUNTY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
ELKHORN ROAD, 0.5 MILE WEST OF EAST LEVEE ROAD.

Detailed Location:

Ecological:

SURROUNDING HABITAT CONSISTS OF RICE FIELDS TO THE SOUTH, PLOWED AGRICULTURAL FIELDS TO THE NORTH, AND RUDERAL VEGETATION ALONG THE ROADWAY.

Threats:

POSSIBLE THREAT OF URBAN DEVELOPMENT.

General:

1 INDIVIDUAL (3 FEET IN LENGTH) WAS FOUND DOR ON ELKHORN ROAD ON 27 SEPTEMBER 1996.

PLSS: T10N, R04E, Sec. 36 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4282929 E630889	Latitude/Longitude: 38.68530 / -121.49512	Elevation (feet): 15

County Summary:

Sacramento

Quad Summary:

Rio Linda (3812164)

Sources:

ROD96F0001 RODDY, F. (STATE WATER RESOURCES CONTROL BOARD) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 1996-09-27



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	37128	EO Index:	32125
Key Quad:	Florin (3812144)	Element Code:	ARADB36150
Occurrence Number:	147	Occurrence Last Updated:	1997-10-08

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	1965-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1965-XX-XX	Occurrence Rank:	Fair
Owner/Manager:	SRCS-D-BUFFERLANDS	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 SOUTH OF SOUTH BEACH LAKE AND WEST OF I-5, VICINITY OF LOWER MORRISON CREEK, SOUTH OF SACRAMENTO.

Detailed Location:
 SNAKES WERE FOUND IN OLD "PIT" BLINDS AT A SMALL DUCK CLUB.

Ecological:
 AT THE TIME OF THE ORIGINAL OBSERVATIONS (1955 AND 1965), THIS AREA CONSISTED OF FARMLAND (WHEAT, CORN) ADJACENT TO MORRISON CREEK RIPARIAN/FLOODPLAIN. SITE IS NOW MANAGED AS SANITATION DISTRICT BUFFER LANDS (MANAGED MARSH).

Threats:
 POSSIBLE THREATS INCLUDE FLOODING, CONVERSION TO OTHER WETLAND TYPES, AND UPSTREAM URBANIZATION.

General:
 1 GGS OBSERVED IN 1955; 2 OBSERVED IN 1965. GGS IS PRESUMED TO BE EXTANT AT THIS SITE DUE TO THE PERSISTENCE OF SUITABLE WETLANDS AT THIS SITE AND OBSERVATIONS OF GGS FROM NEARBY UPSTREAM AND DOWNSTREAM LOCATIONS.

PLSS: T07N, R04E, Sec. 25 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4255191 E632223	Latitude/Longitude: 38.43521 / -121.48503	Elevation (feet): 7

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 HAN65F0001 HANSEN, G.E. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 1965-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 42047	EO Index: 42047
Key Quad: Grays Bend (3812166)	Element Code: ARADB36150
Occurrence Number: 154	Occurrence Last Updated: 1999-12-21

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1999-09-30	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1999-09-30	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
IRRIGATION CANAL (TULE), ~1.5 MILES SOUTH OF I-5 AT THE SACRAMENTO RIVER, ~2.5 MILES SE OF CONWAY RANCH HQ, YOLO BYPASS.

Detailed Location:

Ecological:
IRRIGATION CANAL LINED WITH THYPHA SP, SCIRPUS SP, AND JUNEUS SP.

Threats:
A 50 FOOT LEVEE RECONTOURING PROJECT (COMPLETED).

General:
1 SNAKE OBSERVED IN 1999, THE CANAL WAS FLAGGED OFF AND NOT DISTURBED DURING CONSTRUCTION. A MONITOR WAS ONSITE DURING CONSTRUCTION.

PLSS: T09N, R03E, Sec. 03 (M)	Accuracy: nonspecific area	Area (acres): 150
UTM: Zone-10 N4279283 E619244	Latitude/Longitude: 38.65410 / -121.62959	Elevation (feet): 22

County Summary: Yolo	Quad Summary: Taylor Monument (3812165), Grays Bend (3812166)
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Sources:
TAY99F0006 TAYLOR, E. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS (GIANT GARTER SNAKE) 1999-09-30



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	47639	EO Index:	47639
Key Quad:	Elk Grove (3812143)	Element Code:	ARADB36150
Occurrence Number:	169	Occurrence Last Updated:	2002-04-11

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	2002-03-27	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-03-27	Occurrence Rank:	Fair
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
EAST SIDE OF WATERMAN ROAD, 0.8 MILE NORTH OF GRANT LINE ROAD, SE OF ELK GROVE.

Detailed Location:
SNAKE OBSERVED AT THE CONFLUENCE OF A WETLAND SWALE AND THE DITCH.

Ecological:
HABITAT CONSISTS OF A ROADSIDE DITCH ALONG WATERMAN ROAD; VEGETATION CONSISTS OF PASPALUM DILATATUM, TYPHA LATIFOLIA, AND CYPERUS ERAGRASTIS.

Threats:
THREATENED BY TRAFFIC AND DITCH MAINTENANCE.

General:
1 ADULT OBSERVED ON 27 MAR 2002.

PLSS: T06N, R06E, Sec. 08 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4250752 E643861	Latitude/Longitude: 38.39342 / -121.35265	Elevation (feet): 50

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
HEN02F0002 HENKE, J. (MOORE BIOLOGICAL CONSULTANTS) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2002-03-27



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 52028	EO Index: 52028
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 178	Occurrence Last Updated: 2009-10-15

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2008-07-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2008-07-04	Occurrence Rank: Poor
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG POWERLINE ROAD, 0.5 MI SOUTH OF THE SUTTER COUNTY LINE.

Detailed Location:
2003 SNAKE FOUND AT CULVERT CROSSING.

Ecological:
HABITAT CONSISTS OF A DRAINAGE CANAL BETWEEN INACTIVE RICE FIELDS.

Threats:
FLOODING, VEGETATION CONTROL, MAINTENANCE & AGRICULTURAL ACTIVITES, VEHICLE TRAFFIC, POLLUTION & INTRODUCED PREDATORS.

General:
1 SEMI-ADULT MALE FOUND DEAD ON ROAD (800 M S OF COUNTY LINE) 31 MAR 2003. 1 YOUNG ADULT FEMALE FOUND DEAD ON ROAD (700 M S OF COUNY LINE), 4 JUL 2008.

PLSS: T10N, R04E, Sec. 07 (M)	Accuracy: specific area	Area (acres): 8
UTM: Zone-10 N4287681 E623699	Latitude/Longitude: 38.72914 / -121.57691	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:
HAN03F0003 HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2003-03-31
HAN08D0001 HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2008. 2008-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 55304	EO Index: 55304	
Key Quad: Davis (3812156)	Element Code: ARADB36150	
Occurrence Number: 185	Occurrence Last Updated: 2014-12-09	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2014-04-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-12	Occurrence Rank: Good
Owner/Manager: DFG-YOLO BYPASS WA	Trend: Unknown
Presence: Presumed Extant	

Location:
DRAINAGE DITCH ON THE WEST SIDE OF THE WESTERN LEVEE, ABOUT 1.3 MI S OF COUNTY ROAD 32 & I-80 UNDERPASS, YOLO BASIN WA.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. SNAKES DETECTED ALONG WESTERN EDGE OF YOLO BYPASS WILDLIFE AREA. SNAKES WERE WEIGHED, MEASURED, PIT TAGGED, AND RELEASED. SOME SNAKES WERE RE-CAPTURED MORE THAN ONCE WITHIN THE SAME YEAR, 3 CAP IN 2005 & '06.

Ecological:
DRAINAGE CANALS, WITH STEEP BANKS (>1:1), DENSELY VEGETATED WITH GRASSES, RUDERALS, CATTAILS, BULRUSH, AND WILLOWS AND MANAGED WETLANDS WITH GRADUALLY SLOPED BANKS (<1:1), OPEN WATER, DENSE CATTAILS, BULRUSH & WATER PRIMROSE.

Threats:
FLOODING, VEGETATION CONTROL, INTRODUCED PREDATORS, WATER QUALITY/MANAGEMENT, AG POLLUTION, WETLAND & CANAL MAINTENANCE.

General:
1 SNAKE OBSERVED ON 23 MAR 2004. 35-45 INDIVIDUAL SNAKES OBSERVED/CAPTURED BETWEEN MAY-SEP OF 2005 & 2006. 20 SNAKES OBSERVED/CAP BETWEEN 25 MAY-16 AUG 2007. 1 SNAKE OBSERVED ON 12 APR 2014.

PLSS: T08N, R03E, Sec. 15 (M)	Accuracy: specific area	Area (acres): 190
UTM: Zone-10 N4267175 E619240	Latitude/Longitude: 38.54501 / -121.63171	Elevation (feet): 20

County Summary: Yolo	Quad Summary: Sacramento West (3812155), Davis (3812156)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

FEL04F0001	FELIZ, D. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-YOLO BASIN WILDLIFE AREA) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2004-03-23
HAN05F0024	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-08-26
HAN05F0025	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-09-05
HAN05F0026	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-09-09
HAN06D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN06F0032	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-09-20
HAN06F0033	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-09-12
HAN06F0034	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-09-10
HAN06F0035	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-08-03
HAN06F0036	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-09-18
HAN07D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2007. 2007-XX-XX
MCI14F0004	MCINTYRE, P. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-CALIFORNIA NATURAL DIVERSITY DATABASE) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2014-04-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 61361	EO Index: 61397	
Key Quad: Florin (3812144)	Element Code: ARADB36150	
Occurrence Number: 198	Occurrence Last Updated: 2010-03-03	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2005-05-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-05-01	Occurrence Rank: Good
Owner/Manager: SRCSD-BUFFERLANDS	Trend: Unknown
Presence: Presumed Extant	

Location:
LAGUNA CREEK, ON THE BUFFERLANDS AREA, SOUTH OF SACRAMENTO.

Detailed Location:
SNAKE WAS BASKING ON A SMALL ISLAND IN THE CREEK.

Ecological:
HABITAT CONSISTS OF A RIPARIAN AREA ALONG LAGUNA CREEK, DOMINATED BY RUMEX CRISPUS AND TYPHA LATIFOLIA, WITH ASSOCIATES WHICH INCLUDE SALIX SPP AND POPULUS FREMONTII.

Threats:
THREATENED BY URBAN GROWTH AND WATER POLLUTION FROM CITY RUNOFF IN AREAS.

General:
1 JUVENILE (~1.5' IN LENGTH) OBSERVED ON 1 MAY 2005.

PLSS: T07N, R05E, Sec. 17 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4257392 E634044	Latitude/Longitude: 38.45477 / -121.46375	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
PAR05F0001 PARSONS, S. & C. TWEEDY (JONES AND STOKES ASSOCIATES) - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-05-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 61721	EO Index: 61757
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 201	Occurrence Last Updated: 2014-10-31

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2014-08-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-08-22	Occurrence Rank: Good
Owner/Manager: NATOMAS BASIN CONS, RD 1000	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH DRAINAGE CANAL, ~0.4 MI SE OF RIO VISTA DR & RIO GRANDE DR, AND 0.8 MI SW OF POWERLINE RD & RIEGO RD JUNCTIONS.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. LOCATION DESCRIPTION WAS "NORTH DRAINAGE CANAL APPROXIMATELY 0.7 KM WEST OF POWERLINE RD; APPROXIMATELY 1.0 KM SOUTH OF RIEGO RD." CAPTURED SNAKES WERE WEIGHED, MEASURED, PIT TAGGED, MARKED, AND RELEASED.

Ecological:
HABITAT CONSISTS OF AN AGRICULTURAL DITCH WITH 1:1 VERTICAL BANKS. BULRUSH, CATTAILS, & RUDERALS EMERGING AT MARGINS, WITH SALIX PROVIDING INTERMITTENT OVERSTORY. DRAINAGE CANAL WITH RICE FIELD TO THE EAST AND DENSE UPLAND TO THE WEST.

Threats:
FLOODING, VEGETATION CONTROL, MAINTENANCE & AGRICULTURAL ACTIVITIES (VEHICLE AND FARM EQUIPMENT TRAFFIC), & POLLUTION.

General:
2 CAPTURED IN AUG 2003. 4-8 CAPTURED EACH YEAR DURING MAY-AUG OF 2005-2007. 1-7 CAPTURED/OBSERVED IN MAY-AUG OF 2008-2010. 1 CAPTURED ON 22 AUG 2014.

PLSS: T10N, R04E, Sec. 07 (M)	Accuracy: specific area	Area (acres): 34
UTM: Zone-10 N4288854 E623002	Latitude/Longitude: 38.73980 / -121.58470	Elevation (feet): 20

County Summary: Sutter	Quad Summary: Taylor Monument (3812165)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

HAN03F0009	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2003-XX-XX
HAN03R0003	HANSEN, E.C. - RESULTS OF SURVEYS FOR GIANT GARTER SNAKES (THAMNOPHIS GIGAS) AT THE NATOMAS BASIN CONSERVANCY'S ATKINSON PARCEL HIGHLINE DITCH AND NORTH DRAINAGE, CA. 2003-12-05
HAN05F0014	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-08-26
HAN06D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN06F0010	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-06-07
HAN07D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2007. 2007-XX-XX
HAN08D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2008. 2008-XX-XX
HAN09D0002	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2009 [SC-003881] 2009-XX-XX
HAN10D0001	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2010 [SC-003881] 2010-XX-XX
SKA14D0001	SKALOS, S. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - DIGITAL DATABASE FOR GIANT GARTER SNAKE FOR SURVEYS CONDUCTED BY USGS-WERC, YEARS 2005-2014 2014-09-24



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	61819	EO Index:	61855
Key Quad:	Taylor Monument (3812165)	Element Code:	ARADB36150
Occurrence Number:	211	Occurrence Last Updated:	2014-12-05

Scientific Name:	<i>Thamnophis gigas</i>	Common Name:	giant garter snake
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: Threatened	Other Lists:	IUCN_VU-Vulnerable
CNDDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed:	1998-05-18	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1998-05-18	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 AT THE JUNCTION OF TWO DRAINAGE CANALS ABOUT 0.45 MI SOUTH OF RIEGO RD AND 0.4 MI WEST OF HWY 99.

Detailed Location:

Ecological:

Threats:

General:
 1 MALE SNAKE CAPTURED BY HAND OR NET ON DRY LAND ON 18 MAY 1998. SNAKE WAS WEIGHED, MEASURED, PIT TAGGED AND RELEASED.

PLSS: T10N, R04E, Sec. 04 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4289338 E626211	Latitude/Longitude: 38.74371 / -121.54770	Elevation (feet): 20

County Summary:	Quad Summary:
Sutter	Taylor Monument (3812165)

Sources:
 USG04D0001 USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 61821	EO Index: 61857
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 212	Occurrence Last Updated: 2014-12-05

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1998-04-30	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1998-04-30	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG A ROAD ABOUT 0.5 MI SOUTH OF RIEGO ROAD AND ABOUT 1 MI EAST OF HWY 99.

Detailed Location:

Ecological:

Threats:

General:

ONE FEMALE SNAKE CAPTURED BY HAND OR NET ON DRY LAND ON 30 APR 1998. SNAKE WAS WEIGHED, MEASURED, PIT TAGGED AND RELEASED.

PLSS: T10N, R04E, Sec. 11 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4289351 E628520	Latitude/Longitude: 38.74350 / -121.52114	Elevation (feet): 20

County Summary:

Sutter

Quad Summary:

Taylor Monument (3812165)

Sources:

USG04D0001 USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64525	EO Index: 64604
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 236	Occurrence Last Updated: 2014-12-05

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1998-07-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1998-07-08	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
DRAINAGE CANAL JUST NE OF THE INTERSECTION OF I-5 AND HWY 99. NW OF SACRAMENTO.

Detailed Location:

Ecological:
DRAINAGE CANALS.

Threats:

General:
1 FEMALE CAPTURED, WEIGHED (523 G), MEASURED (987 MM SVL), PIT TAGGED AND RELEASED ON 8 JUL 1998.

PLSS: T09N, R04E, Sec. 03 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4281090 E627100	Latitude/Longitude: 38.66928 / -121.53900	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:
USG04D0001 USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 64527	EO Index: 64606
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 237	Occurrence Last Updated: 2014-12-05

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed: 2003-08-06	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-08-06	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
DRAINAGE CANAL JUST W OF HWY 99, ~0.9 MI NNW OF INTERSECTION W/ ELKHORN BLVD, 1.2 MI SSW OF ELVERTA RD INTERSECTION.

Detailed Location:
MAPPED ACCORDING TO PROVIDED COORDINATES. SITE NAME WAS "CENTRAL MAIN CANAL-SOUTHERNMOST PORTION." CANAL ORIENTED NW-SE.

Ecological:
SUBSTRATE NEAR TRAPS WAS MOSTLY OPEN WATER AND BARE GROUND; VEGETATION DOMINATED BY WEEDY DICOTS, GRASSES, AND OTHER MISCELLANEOUS WETLAND VEGETATION. PREY DENSITY WAS MODERATE TO HIGH.

Threats:

General:

2 FEMALES CAPTURED, WEIGHED, MEASURED & RELEASED ON 6 AUG 2003. ONE SNAKE WAS PIT TAGGED AND THE OTHER WAS A RECAPTURE OF A PIT TAGGED SNAKE INITIALLY FOUND ABOUT 1.8 MILES NW WITHIN SAME CANAL ON 29 JUL 2003.

PLSS: T10N, R04E, Sec. 28 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4284223 E626267	Latitude/Longitude: 38.69763 / -121.54800	Elevation (feet): 22

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

Sources:

USG04D0001	USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09
WYL04R0001	WYLIE, G. ET AL. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - MONITORING GIANT GARTER SNAKES IN THE NATOMAS BASIN: 2003 RESULTS 2004-01-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64531	EO Index: 64610
Key Quad: Rio Linda (3812164)	Element Code: ARADB36150
Occurrence Number: 239	Occurrence Last Updated: 2014-12-10

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 1998-06-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-07-24	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
DRAINAGE CANAL ABOUT 0.6 MILES WSW OF ELVERTA RD & E LEVEE RD INTERSECTION, EAST OF HWY 99, NW OF RIO LINDA.

Detailed Location:
MAPPED ACCORDING TO PROVIDED COORDINATES AND MAP LOCATIONS. 2003 SITE NAME WAS "AYALA-EAST END OF PROPERTY."
DRAINAGE CANAL RUNS NORTH-SOUTH.

Ecological:
SUBSTRATE WAS A MIX OF OPEN WATER & BARE GROUND. VEG MOSTLY DICOTS W/ GRASSES & MISCELLANEOUS WETLAND VEG. PREY DENSITY WAS RELATIVELY LOW, W/ SOME FISH PRESENT. ADJACENT FIELD CONDITIONS RANGED FROM DRY NON-RICE CROPS TO FLOODED RICE.

Threats:
General:
ONE SNAKE OBSERVED ON 2 JUN 1998. 0 CAPTURED DURING SURVEYS CONDUCTED BETWEEN 26 JUN-24 JUL 2003; "CONSISTENT WITH 2002 FINDINGS."

PLSS: T10N, R04E, Sec. 24 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4285609 E630560	Latitude/Longitude: 38.70949 / -121.49839	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

USG04D0001	USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09
WYL04R0001	WYLIE, G. ET AL. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - MONITORING GIANT GARTER SNAKES IN THE NATOMAS BASIN: 2003 RESULTS 2004-01-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 64534	EO Index: 64613
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 240	Occurrence Last Updated: 2014-12-05

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed: 1999-10-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1999-10-04	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
DRAINAGE CANAL EAST OF HWY 99 AND ABOUT 1 MILE SOUTH OF RIEGO RD.

Detailed Location:

Ecological:
DRAINAGE CANAL.

Threats:

General:

3 FEMALES AND 2 UNKNOWN SNAKES OBSERVED OR CAPTURED BETWEEN 7 AUG 1998 AND 4 OCT 1999. THE 3 FEMALE SNAKES WERE RECAPTURES THAT HAD BEEN PIT TAGGED.

PLSS: T10N, R04E, Sec. 10 (M)	Accuracy: nonspecific area	Area (acres): 33
UTM: Zone-10 N4288530 E627318	Latitude/Longitude: 38.73627 / -121.53513	Elevation (feet): 17

County Summary:	Quad Summary:
Sacramento, Sutter	Taylor Monument (3812165)

Sources:
USG04D0001 USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 76944	EO Index: 77893	
Key Quad: Verona (3812175)	Element Code: ARADB36150	
Occurrence Number: 260	Occurrence Last Updated: 2014-10-31	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2014-09-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-09-14	Occurrence Rank: Good
Owner/Manager: NATOMAS BASIN CONS, RD 1000	Trend: Unknown
Presence: Presumed Extant	

Location:
N AND S OF RIEGO RD, 0.2 MI W POWERLINE RD INTERSECTION AND 0.7 MI E OF RIEGO RD & GARDEN INTERSECTION.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. 3-10 SNAKES WERE RECAPTURED AT LEAST ONCE DURING YEARLY SURVEYS. CANAL RUNS NORTH-SOUTH AND BENDS TO THE WEST ALONG THE PART SOUTH OF RIEGO RD. CAPTURED SNAKES WERE WEIGHED, MEASURED, PIT TAGGED, & RELEASED.

Ecological:
DRAINAGE CANAL CHARACTERIZED BY MUD/SILT SUBSTRATE WITH STEEP BANKS (GREATER THAN 1:1). BANKS MODERATELY VEGETATED WITH GRASS, RUDERALS, CATTAILS, BULRUSH, SMARTWEED AND INTERMITTENT WATER PRIMROSE. SURROUNDING AREA IS RICE FIELDS.

Threats:
FLOODING, DROUGHT, DEVELOPMENT, POLLUTION, VEG CONTROL, NON-NATIVE PREDATORS, MAINTENANCE ACTIVITIES, & AGRICULTURE.

General:
15-34 CAPTURED EACH YEAR IN 2005-2007; 4 RECAPTURED IN BOTH 2005 & 2006. 10-35 CAPTURED IN 2008-2010. 3 CAPTURED IN 2011. 3 CAPTURED IN 2012. 2 CAPTURED IN 2013. 1 CAPTURED IN 2014.

PLSS: T11N, R04E, Sec. 31 (M)	Accuracy: specific area	Area (acres): 88
UTM: Zone-10 N4290629 E623323	Latitude/Longitude: 38.75575 / -121.58070	Elevation (feet): 30

County Summary: Sutter	Quad Summary: Taylor Monument (3812165), Verona (3812175)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

HAN05F0017 HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-09-16
HAN05F0018 HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-09-10
HAN06D0001 HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN06F0006 HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-09-12
HAN06F0011 HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-08-26
HAN06F0017 HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-08-31
HAN06F0018 HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-08-21
HAN06F0030 HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-06-11
HAN07D0001 HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2007. 2007-XX-XX
HAN08D0001 HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2008. 2008-XX-XX
HAN09D0002 HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2009 [SC-003881] 2009-XX-XX
HAN10D0001 HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2010 [SC-003881] 2010-XX-XX
SKA14D0001 SKALOS, S. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - DIGITAL DATABASE FOR GIANT GARTER SNAKE FOR SURVEYS CONDUCTED BY USGS-WERC, YEARS 2005-2014 2014-09-24



Occurrence Report
California Department of Fish and Wildlife
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Map Index Number: 76957	EO Index: 77897
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 261	Occurrence Last Updated: 2009-11-19

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat:	Micro Habitat:
PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Last Date Observed: 2006-04-29	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-04-29	Occurrence Rank: Poor
Owner/Manager: SAC COUNTY, UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
0.67 MILE NORTH OF THE JUNCTION OF W ELVERTA RD & POWERLINE RD.

Detailed Location:
1.47 MILES SOUTH EAST OF BM 42.

Ecological:
SURROUNDING AREA IS RICE FIELDS.

Threats:
TRAFFIC, URBANIZATION, WATER QUALITY/MANAGEMENT, FLOODING, VEGETATION CONTROL/MAINTENANCE, INTRODUCED PREDATORS.

General:
1 ADULT SNAKE FOUND DEAD ON ROAD, 29 APR 2006.

PLSS: T10N, R04E, Sec. 17 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4287129 E623722	Latitude/Longitude: 38.72416 / -121.57673	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento	Taylor Monument (3812165)

Sources:

HAN06D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN06F0012	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-08-26



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 76958	EO Index: 77898
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 262	Occurrence Last Updated: 2014-11-03

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2014-09-24	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-09-24	Occurrence Rank: Fair
Owner/Manager: PVT-NATOMAS MUTUAL WATER	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.8 MI NW OF ELVERTA RD & LONE TREE RD INTERSECTION, E OF POWER LINE RD, NE OF SACRAMENTO INTERNATIONAL AIRPORT.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. LARGE DRAINAGE CANAL BTWN POWER LINE RD (WEST) AND LONE PINE RD (EAST). CAPTURED SNAKES WERE WEIGHED, MEASURED, PIT TAGGED, IDENTIFIED, PHOTOGRAPHED, AND RELEASED. MAJORITY OF SNAKES CAPTURED, SOME ONLY OBS.

Ecological:
HABITAT CONSISTS OF AN IRRIGATION CANAL, WITH STEEP BANKS (GREATER THAN 1:1), MODERATELY VEGETATED WITH GRASS AND RUDERALS WITH INTERMITTENT PATCHES OF BULRUSH AND CATTAILS. SURROUNDING AREA WAS RICE FIELDS.

Threats:
FLOODING, VEGETATION CONTROL, MAINTENANCE ACTIVITIES. AGRICULTURAL ACTIVITIES, VEHICLE AND FARM EQUIPMENT TRAFFIC.

General:
3-15 CAPTURED EACH YEAR IN JUN-AUG OF 2005-2007. 3-24 CAPTURED IN MAY-SEP OF 2008-2010. 1 CAPTURED IN JUL 2011. 2 CAPTURED IN SEP 2012. 4 CAPTURED IN SEP 2014. SOME SNAKES WERE RECAPTURED WITHIN THE SAME YEAR.

PLSS: T10N, R04E, Sec. 17 (M)	Accuracy: specific area	Area (acres): 68
UTM: Zone-10 N4286900 E624822	Latitude/Longitude: 38.72195 / -121.56413	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

HAN05F0008	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-09-12
HAN06D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN06F0003	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-08-27
HAN07D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2007. 2007-XX-XX
HAN08D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2008. 2008-XX-XX
HAN09D0002	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2009 [SC-003881] 2009-XX-XX
HAN10D0001	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2010 [SC-003881] 2010-XX-XX
SKA14D0001	SKALOS, S. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - DIGITAL DATABASE FOR GIANT GARTER SNAKE FOR SURVEYS CONDUCTED BY USGS-WERC, YEARS 2005-2014 2014-09-24



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 76959	EO Index: 77899
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 263	Occurrence Last Updated: 2014-10-03

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2010-06-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-06-23	Occurrence Rank: Fair
Owner/Manager: NATOMAS BASIN CONSERVANCY	Trend: Unknown
Presence: Presumed Extant	

Location:
THE JUNCTION OF W ELVERTA RD & LONE TREE RD AND 0.25 MILES EAST AND 0.28 MILES SOUTH OF JUNCTION.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. LOCATION DESCRIBED AS "IRRIGATION CANAL APPROXIMATELY 1 KM WEST OF SR-99/70, 0.2 KM SOUTH OF ELVERTA ROAD." CAPTURED SNAKES WERE WEIGHED, MEASURED, PIT TAGGED, MARKED, PHOTOGRAPHED, AND RELEASED.

Ecological:
IRRIGATION CANAL SURROUNDED BY FALLOW FIELDS AND VACANT WEEDY FIELDS. CANAL HAS VEGETATED BANKS (RUDERALS DOMINANT). BANKSIDE SLOPES >3:1.

Threats:
VEHICLES, URBANIZATION, FLOODING, WATER MANAGEMENT, VEGETATION CONTROL AND MAINTENANCE ACTIVITIES, INTRODUCED PREDATORS.

General:
1 FEMALE CAPTURED ON 31 JUL 2001. NONE CAPTURED/DETECTED DURING 2003 TRAP SURVEYS. 1 ADULT FEMALE FOUND DEAD (TANGLED IN MONOFILAMENT NETTING) AND 1 MALE OBSERVED ON 23 OCT 2006. 1 FEMALE AND 1 SNAKE OF UNKNOWN SEX CAPTURED ON 23 JUN 2010.

PLSS: T10N, R04E, Sec. 21 (M)	Accuracy: specific area	Area (acres): 23
UTM: Zone-10 N4285667 E625362	Latitude/Longitude: 38.71076 / -121.55814	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

HAN06D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN06F0014	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-10-23
HAN10D0001	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2010 [SC-003881] 2010-XX-XX
USG04D0001	USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09
WYL04R0001	WYLIE, G. ET AL. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - MONITORING GIANT GARTER SNAKES IN THE NATOMAS BASIN: 2003 RESULTS 2004-01-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 76973	EO Index: 77912	
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150	
Occurrence Number: 264	Occurrence Last Updated: 2014-10-01	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2006-05-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-05-25	Occurrence Rank: Fair
Owner/Manager: PVT-NATOMAS MUTUAL WATER CO	Trend: Unknown
Presence: Presumed Extant	

Location:
IRRIGATION DITCH S OF ELVERTA RD, ~1 MI SE OF INTERSECTION WITH ERNEST RD, 1.3 MILES SW OF INTERSECTION W/ LEVEE RD.

Detailed Location:
MAPPED ACCORDING TO PROVIDED COORDINATES AND MAP LOCATIONS. DITCH RUNS EAST-WEST. 2003 SITE NAME WAS "AYALA-SOUTH END OF PROPERTY." CAPTURED SNAKES WERE WEIGHED, MEASURED, PIT TAGGED, PHOTOGRAPHED, & RELEASED.

Ecological:
IRRIGATION CANAL SURROUNDED BY DRY/DISKED AND FLOODED RICE FIELDS. CANAL HAS DENSELY VEGETATED BANKS (RUDERALS DOMINANT). AQUATIC EMERGENT VEGETATION IS DENSE (CATTAILS, TULE, & WATER PRIMROSE). SLOPES >3:1.

Threats:
URBANIZATION, FLOODING, WATER MANAGEMENT, VEGETATION CONTROL AND MAINTENANCE ACTIVITIES, INTRODUCED PREDATORS.

General:
0 CAPTURED DURING SURVEYS CONDUCTED BETWEEN 12-26 JUN 2003; "CONSISTENT WITH 2002 FINDINGS." 2 MALES CAPTURED ON 22 JUN 2005. 1 MALE CAPTURED ON 18 AUG & RECAPTURED ON 20 & 22 AUG 2005. 1 FEMALE CAPTURED ON 25 MAY 2006 (EASTERN FEATURE).

PLSS: T10N, R04E, Sec. 23 (M)	Accuracy: specific area	Area (acres): 23
UTM: Zone-10 N4284937 E629674	Latitude/Longitude: 38.70356 / -121.50870	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

HAN05F0006	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-08-22
HAN06D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN06F0040	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-05-25
WYL04R0001	WYLIE, G. ET AL. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - MONITORING GIANT GARTER SNAKES IN THE NATOMAS BASIN: 2003 RESULTS 2004-01-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 76974	EO Index: 77913
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 265	Occurrence Last Updated: 2014-07-18

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2009-08-09	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-08-09	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
IRRIGATION DITCH 1 MILE NE OF THE JUNCTION OF POWER LINE RD & DEL PASO RD, 1.1 MILES WSW OF I-5 AND HWY 99 INTERCHANGE.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. LOCATION DESCRIBED AS "DRAINAGE CANAL APPROXIMATELY 0.8 KM SOUTH OF INTERSTATE 5, APPROXIMATELY 1.6 KM EAST OF POWERLINE RD."

Ecological:
IRRIGATION CANAL WITH DENSELY VEGETATED BANKS (GRASSES AND RUDERALS DOMINANT). AQUATIC VEGETATION IS SPARSE. SLOPES >3:1. FALLOW FIELDS TO N & S (2005). DRAINAGE CANAL WITH HAY FIELDS TO THE NORTH AND SAFFLOWER FIELDS TO THE SOUTH (2009).

Threats:
URBANIZATION, AGRICULTURE, FLOODING, WATER MANAGEMENT, VEGETATION CONTROL & MAINTENANCE, & INTRODUCED PREDATORS.

General:
1 FEMALE CAPTURED ON 3 JUN & 1 MALE CAPTURED ON 5 JUN 2005. 2 MALES & 1 FEMALE CAPTURED ON 30 MAY-8 AUG 2009. CAPTURED SNAKES WERE WEIGHED, MEASURED, PIT TAGGED, PHOTOGRAPHED AND RELEASED.

PLSS: T09N, R04E, Sec. 05 (M)	Accuracy: specific area	Area (acres): 22
UTM: Zone-10 N4280420 E625323	Latitude/Longitude: 38.66350 / -121.55954	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

HAN05F0005	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-06-05
HAN06D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN09D0002	HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2009 [SC-003881] 2009-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 77066	EO Index: 78011	
Key Quad: Davis (3812156)	Element Code: ARADB36150	
Occurrence Number: 291	Occurrence Last Updated: 2009-10-29	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2009-06-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-06-23	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
IRRIGATION CANAL, 2.86 MILES NNE OF THE JUNCTION OF I-80 & LEVEE ROAD, YOLO BYPASS.

Detailed Location:
APPROXIMATELY 0.4 MILES EAST OF THE WEST LEVEE.

Ecological:
IRRIGATION CANAL, ~3 M WIDE, CHARACTERIZED BY MUD/SILT SUBSTRATE; STEEP SLOPES (>1:1); BANKS DENSELY VEGETATED WITH GRASSES & WEEDS; CHANNEL PROPER MOSTLY OPEN WATER; BANK MARGINS DENSELY VEGETATED WITH CATTAILS AND SOME BULRUSH.

Threats:
FLOODING, LOSS/INTERRUPTION OF WATER SUPPLY, CANAL/LEVEE MAINTENANCE, VEGETATION CONTROL, & AG ACTIVITIES, POLLUTION.

General:
10 SNAKES (5 MALES & 5 FEMALES) CAPTURED (3 RECAPTURED) IN JUN 2009. ALL SNAKES WERE WEIGHED, MEASURED, PIT TAGGED, VENTRAL SCUTES MARKED, PHOTOGRAPHED, & RELEASED.

PLSS: T09N, R03E, Sec. 27 (M)	Accuracy: specific area	Area (acres): 21
UTM: Zone-10 N4273732 E619415	Latitude/Longitude: 38.60406 / -121.62857	Elevation (feet): 20

County Summary: Yolo	Quad Summary: Sacramento West (3812155), Davis (3812156)
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Sources:
HAN09D0001 HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2009 - CONAWAY RANCH AND WHITE SLOUGH WILDLIFE AREA/COLDANI MARSH. 2009-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 77069	EO Index: 78015
Key Quad: Sacramento West (3812155)	Element Code: ARADB36150
Occurrence Number: 292	Occurrence Last Updated: 2009-10-29

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2009-06-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-06-04	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
DRAINAGE CANAL, 2.82 MILES NNE OF THE JUNCTION OF I-80 & LEVEE RD, YOLO BYPASS.

Detailed Location:
APPROXIMATELY 1.28 MILES WEST OF THE TULE CANAL (0.87 MI EAST OF THE WEST LEVEE).

Ecological:
DRAINAGE CANAL, ~10 M WIDE WIHT MUD/SILT SUBSTRATE; STEEP SLOPES (>1:1), BANKS DENSELY VEGETATED WITH GRASSES & WEEDS; CHANNEL PROPER MOSTLY OPEN WATER; BANK MARGINS MODERATELY TO DENSLY VEGETATED WITH SMARTWEED AND WATER PRIMROSE.

Threats:
FLOODING, LOSS/INTERRUPTION OF WATER SUPPLY, CANAL/LEVEE MAINTENANCE, VEGETATION CONTROL, & AG ACTIVITIES, POLLUTION.

General:
4 SNAKES (2 MALES & 2 FEMALES) CAPTURED (2 RECAPTURED) IN MAY & JUN 2009. ALL SNAKES WERE WEIGHED, MEASURED, PIT TAGGED, VENTRAL SCUTES MARKED, PHOTOGRAPHED, & RELEASED.

PLSS: T09N, R03E, Sec. 26 (M)	Accuracy: specific area	Area (acres): 14
UTM: Zone-10 N4273337 E620544	Latitude/Longitude: 38.60034 / -121.61567	Elevation (feet): 15

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:
HAN09D0001 HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEAR 2009 - CONAWAY RANCH AND WHITE SLOUGH WILDLIFE AREA/COLDANI MARSH. 2009-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 92496	EO Index: 93640
Key Quad: Sacramento West (3812155)	Element Code: ARADB36150
Occurrence Number: 311	Occurrence Last Updated: 2014-05-27

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2012-05-07	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2012-05-07	Occurrence Rank: Good
Owner/Manager: DFG-YOLO BYPASS WA	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 1.3 MILES SE OF COUNTY RD 32 AND I-80 UNDERPASS, SW OF GREENS LAKE, YOLO BYPAS WILDLIFE AREA, E OF DAVIS.

Detailed Location:
MAPPED TO PROVIDED COORDINATES AND PROVIDED MAP. COORDINATES DERIVED FROM GOOGLEEARTH. RICE FIELDS WERE NOT FLOODED AT THE TIME OF DETECTION.

Ecological:
NEAREST WTTED CANAL APPROXIMATELY 800 METERS WEST. SNAKES HAVE BEEN CAPTURED IN THIS CANAL IN PREVIOUS YEARS (OCC. NO. 269). LOCATION IS PART OF A FLOOD CONTROL BASIN ALSO USED FOR RICE FIELDS AND WATERFOWL HUNTING.

Threats:
POTENTIAL THREAT DUE TO RICE FIELD PREPARTION (HEAVY EQUIPMENT USE) AND VEHICLE STRIKES.

General:
1 ADULT GIANT GARTER SNAKE OBSERVED AT THE EDGE OF A DIRT ROAD ON 7 MAY 2012; SNAKE WAS LARGE WITH AN IN-TACT TAIL AND CONSIDERED LIKELY FEMALE BY OBSERVER. IT APPEARED TO BE SUNNING ON THE DIRT ROAD AT 7:10 PM.

PLSS: T08N, R03E, Sec. 11 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4267884 E620226	Latitude/Longitude: 38.55126 / -121.62027	Elevation (feet): 15

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:
OWE12F0001 OWENS, M. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2012-05-07



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93225	EO Index: 94366	
Key Quad: Rio Linda (3812164)	Element Code: ARADB36150	
Occurrence Number: 315	Occurrence Last Updated: 2014-07-18	

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2010-09-29	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-09-29	Occurrence Rank: Poor
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG E LEVEE RD, ABOUT 0.83 MILE N OF ELVERTA RD INTERSECTION, 1.7 MILES S OF RIEGO RD, NW OF RIO LINDA.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. PROVIDED LOCATION DESCRIPTION WAS "PAVED ROAD APPROXIMATELY 4.5 KM EAST OF SR-99/70; APPROXIMATELY 1.4 KM NORTH OF ELVERTA ROAD."

Ecological:
PAVED ROAD SURFACE WITH STEELHEAD CREEK TO THE EAST AND RICE FIELDS TO THE WEST.

Threats:
MODERATE VEHICULAR TRAFFIC.

General:
1 MALE SNAKE FOUND DEAD ON ROAD ON 29 SEP 2010.

PLSS: T10N, R04E, Sec. 13 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4287488 E631347	Latitude/Longitude: 38.72629 / -121.48898	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
HAN10D0001 HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2010 [SC-003881] 2010-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93230	EO Index: 94370
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 316	Occurrence Last Updated: 2014-07-18

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2010-06-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-06-21	Occurrence Rank: Fair
Owner/Manager: PVT-NATOMAS MUTUAL WATER CO	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG LONE TREE RD, ABOUT 1 MILE N OF INTERSECTION WITH ELVERTA RD, BETWEEN POWER LINE RD AND HWY 99, N OF SACRAMENTO.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. PROVIDED LOCATION DESCRIPTION WAS "IRRIGATION CANAL APPROXIMATELY 1.2 KM EAST OF POWERLINE RD, APPROXIMATELY 1.2 KM NORTH OF ELVERTA RD."

Ecological:
IRRIGATION CANAL WITH RICE TO THE NORTH, EAST, SOUTH, AND WEST.

Threats:
AGRICULTURAL/MAINENANCE OPERATIONS, LIGHT VEHICLE AND FARM EQUIPMENT TRAFFIC.

General:
1 FEMALE SNAKE AND 1 SNAKE OF UNKNOWN SEX DETECTED ON 21 JUN 2010. FEMALE WAS A YOUNG ADULT THAT WAS CAPTURED, WEIGHED, MEASURED, PIT TAGGED, VENTRAL SCUTES MARKED, PHOTOGRAPHED AND RELEASE. OTHER SNAKE OBSERVED BASKING AND NOT CAPTURED.

PLSS: T10N, R04E, Sec. 08 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4287901 E625301	Latitude/Longitude: 38.73090 / -121.55844	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:
HAN10D0001 HANSEN, E. - EXCEL WORKBOOK CONTAINING INFORMATION ON GIANT GARTER SNAKES COLLECTED DURING 2010 [SC-003881] 2010-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93248	EO Index: 94383
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 317	Occurrence Last Updated: 2014-12-17

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2000-07-30	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2000-07-30	Occurrence Rank: Poor
Owner/Manager: UNKNOWN, PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
BETWEEN METRO PKWY AND LONE TREE RD, ABOUT 0.7 MILE NNE OF ELKHORN RD & METRO PKWY INTERSECTION, E OF SAC INTL AIRPORT.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. COORDINATES PLACE SNAKES ALONG A DRAINAGE CANAL. CANAL WAS VISIBLE IN 1993-2005 AERIAL PHOTOS. THE CANAL IS NO LONGER VISIBLE IN THE 2006-2014 PHOTOS AND APPEARS TO HAVE BEEN FILLED IN.

Ecological:
Threats:

General:
17 FEMALES, 14 MALES, AND 12 UNKNOWN SEX CAPTURED BETWEEN 26 JUN-17 AUG 1999; SEVERAL SNAKES WERE RECAPTURED MORE THAN ONCE. 2 MALES AND 1 FEMALE CAPTURED BETWEEN 28 JUN-30 JUL 2000; FEMALE WAS RECAPTURED ONCE.

PLSS: T10N, R04E, Sec. 29 (M)	Accuracy: specific area	Area (acres): 59
UTM: Zone-10 N4283452 E624751	Latitude/Longitude: 38.69090 / -121.56557	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:
USG04D0001 USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93250	EO Index: 94384
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 318	Occurrence Last Updated: 2014-10-01

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2003-07-09	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-07-09	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN, PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.9 MI S OF ELVERTA RD AND METRO PKWY INTERSECTION, 1.8 MI NW OF HWY 99 AT ELKHORN RD, E OF SAC INTL AIRPORT.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. COORDINATES PLACE SNAKES ALONG A DRAINAGE CANAL. CANAL WAS VISIBLE IN 1993-2005 AERIAL PHOTOS. THE CANAL IS NO LONGER VISIBLE IN THE 2006-2014 PHOTOS AND APPEARS TO HAVE BEEN FILLED IN.

Ecological:
SUBSTRATE NEAR TRAPS WAS MOSTLY OPEN WATER AND BARE GROUND; VEGETATION DOMINATED BY WEEDY DICOTS, GRASSES, AND OTHER MISCELLANEOUS WETLAND VEGETATION. PREY DENSITY WAS MODERATE TO HIGH. N FEATURE SITE NAME: CENTRAL MAIN CANAL-MID SECTION.

Threats:
General:
4 FEMALES, 3 MALES, AND 4 OF UNKNOWN SEX CAPTURED BETWEEN 4-25 AUG 1999; 2 SNAKES CAPTURED TWICE DURING SURVEYS. 1 FEMALE CAPTURED ON 25 JUN AND 1 MALE CAPTURED ON 9 JUL 2003.

PLSS: T10N, R04E, Sec. 20 (M)	Accuracy: specific area	Area (acres): 22
UTM: Zone-10 N4284629 E624713	Latitude/Longitude: 38.70150 / -121.56579	Elevation (feet): 23

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

USG04D0001	USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09
WYL04R0001	WYLIE, G. ET AL. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - MONITORING GIANT GARTER SNAKES IN THE NATOMAS BASIN: 2003 RESULTS 2004-01-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93252	EO Index: 94386
Key Quad: Taylor Monument (3812165)	Element Code: ARADB36150
Occurrence Number: 319	Occurrence Last Updated: 2014-10-03

Scientific Name: <i>Thamnophis gigas</i>	Common Name: giant garter snake
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.	Micro Habitat: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.
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Last Date Observed: 2006-07-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-07-04	Occurrence Rank: Fair
Owner/Manager: UNKNOWN, PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
~1.25 MI SSE OF ELVERTA RD & METRO RD INTERSECTION, 1.3 MI NW OF HWY 99 & ELKHORN BLVD INTERSECTION, NW OF SACRAMENTO.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. DRAINAGE DITCH ADJACENT TO LONE TREE RD, NE OF SACRAMENTO INTERNATIONAL AIRPORT. SITE NAME WAS "LONE TREE." METRO AIR PARK DEVELOPMENT WAS IN PROCESS DURING 2006 SURVEYS.

Ecological:
SUBSTRATE WAS MOSTLY OPEN WATER & TERRESTRIAL VEGETATION DOMINATED BY GRASSES. PREY DENSITY WAS LOW W/ SOME TADPOLES PRESENT. ADJACENT FIELD CONDITIONS RANGED FROM DRY FALLOW & DISKED TO FLOODED RICE (2003). BANKS DOMIN BY RUDERALS (2006).

Threats:
URBANIZATION, FLOODING, WATER MGMT, VEGETATION CONTROL AND MAINTENANCE ACTIVITIES, AND INTRODUCED PREDATORS.

General:
7-25 SNAKES CAPTURED/OBSERVED IN 1999-2000. 4 DETECTED/OBSERVED BETWEEN 12 JUN-8 AUG 2003. 2 CAPTURED BETWEEN 6 & 15 JUL 2005. 4 CAPTURED BETWEEN 22 JUN-4 JUL 2006.

PLSS: T10N, R04E, Sec. 28 (M)	Accuracy: specific area	Area (acres): 95
UTM: Zone-10 N4284177 E625399	Latitude/Longitude: 38.69733 / -121.55798	Elevation (feet): 23

County Summary: Sacramento	Quad Summary: Taylor Monument (3812165)
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Sources:

HAN05F0012	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2005-07-15
HAN06D0001	HANSEN, E. - THAMNOPHIS GIGAS DATA FOR SURVEY YEARS 2005 AND 2006. 2006-XX-XX
HAN06F0005	HANSEN, E.C. - FIELD SURVEY FORM FOR THAMNOPHIS GIGAS 2006-07-04
USG04D0001	USGS - BIOLOGICAL RESOURCES DISCIPLINE - SHAPEFILE FROM BIOS (DS94) OF GIANT GARTER SNAKE COLLECTION RECORDS FROM 21 APR 1995 THROUGH 9 SEP 2004. 2004-09-09
WYL04R0001	WYLIE, G. ET AL. (U.S. GEOLOGICAL SURVEY-WESTERN ECOLOGICAL RESEARCH CENTER) - MONITORING GIANT GARTER SNAKES IN THE NATOMAS BASIN: 2003 RESULTS 2004-01-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11356
Key Quad: Florin (3812144)
Occurrence Number: 28

EO Index: 27516
Element Code: CTT44110CA
Occurrence Last Updated: 1998-07-15

Scientific Name: *Northern Hardpan Vernal Pool*

Common Name: Northern Hardpan Vernal Pool

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G3
 State: S3.1

Rare Plant Rank:
Other Lists:

General Habitat:

Micro Habitat:

Last Date Observed: 1980-05-13
Last Survey Date: 1980-05-13
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 NORTH OF SIMS ROAD, WEST OF FRANKLIN ROAD. (SACRAMENTO VICINITY).

Detailed Location:
 FRESHWATER MARSH AREAS PRESENT. APPROX 200 ACRES.

Ecological:
 LOW FLOOD PLAIN POOLS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
General:
 SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T07N, R05E, Sec. 20 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4255911 E634910	Latitude/Longitude: 38.44129 / -121.45412	Elevation (feet): 18

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 GRI80F0047 GRIGGS, T. - FIELD SURVEY FORM FOR VERNAL POOLS SACRAMENTO COUNTY, #TG79. 1980-05-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11687

EO Index: 27494

Key Quad: Carmichael (3812153)

Element Code: CTT44110CA

Occurrence Number: 31

Occurrence Last Updated: 1998-07-15

Scientific Name: *Northern Hardpan Vernal Pool*

Common Name: Northern Hardpan Vernal Pool

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists:

CNDDDB Element Ranks: **Global:** G3

State: S3.1

General Habitat:

Micro Habitat:

Last Date Observed: 1983-XX-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1983-XX-XX

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

LARGE AREA BOUNDED BY JACKSON ROAD, EAGLES NEST, CALVINE, AND EXCELSIOR ROADS.

Detailed Location:

VAST AREA OF SPARSE VERNAL POOLS. EXTENDS NORTH TO JACKSON ROAD.

Ecological:

ON REDDING-CORNING ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:

HOUSING DEVELOPMENT IN AREA. SOME CATTLE USE.

General:

SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T08N, R06E, Sec. 35 (M)

Accuracy: 1 mile

Area (acres): 0

UTM: Zone-10 N4263138 E649545

Latitude/Longitude: 38.50407 / -121.28495

Elevation (feet): 120

County Summary:

Quad Summary:

Sacramento

Elk Grove (3812143), Carmichael (3812153)

Sources:

GRI80F0048 GRIGGS, T. - FIELD SURVEY FORM FOR VERNAL POOLS IN SACRAMENTO COUNTY NEAR FLORIN ROAD, #TG81. 1980-05-13

HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11453
Key Quad: Florin (3812144)
Occurrence Number: 34

EO Index: 27458
Element Code: CTT44110CA
Occurrence Last Updated: 1998-07-15

Scientific Name: *Northern Hardpan Vernal Pool*

Common Name: Northern Hardpan Vernal Pool

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G3
 State: S3.1

Rare Plant Rank:
Other Lists:

General Habitat:

Micro Habitat:

Last Date Observed: 1983-XX-XX
Last Survey Date: 1983-XX-XX
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 SOUTH OF SHELDON ROAD AND WEST OF HWY 99. (SACRAMENTO VICINITY).

Detailed Location:
 APPROX 200 ACRES.

Ecological:
 LOW FLOODPLAIN POOLS W/ FRESHWATER MARSH AREAS. ON SAN JOAQUIN ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
General:
 SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T07N, R05E, Sec. 26 (M)
UTM: Zone-10 N4255091 E639339

Accuracy: 1/5 mile
Latitude/Longitude: 38.43323 / -121.40355

Area (acres): 0
Elevation (feet): 25

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:
 GR180F0047 GRIGGS, T. - FIELD SURVEY FORM FOR VERNAL POOLS SACRAMENTO COUNTY, #TG79. 1980-05-13
 HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11322
Key Quad: Florin (3812144)
Occurrence Number: 52

EO Index: 26980
Element Code: CTT44110CA
Occurrence Last Updated: 1998-07-15

Scientific Name: *Northern Hardpan Vernal Pool*

Common Name: Northern Hardpan Vernal Pool

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G3
 State: S3.1

Rare Plant Rank:
Other Lists:

General Habitat:

Micro Habitat:

Last Date Observed: 1980-05-13
Last Survey Date: 1980-05-13
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

10 MILES SOUTH OF SACRAMENTO. FRANKLIN BLVD, NW OF FRANKLIN AREA INCLUDES 6 1/2 SECTIONS.

Detailed Location:

Ecological:

LARGE, SHALLOW, FLOODPLAIN VERNAL POOLS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:

HEAVY CATTLE USE.

General:

SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T06N, R05E, Sec. 07 (M)
UTM: Zone-10 N4249172 E633955

Accuracy: 1 mile
Latitude/Longitude: 38.38073 / -121.46635

Area (acres): 0
Elevation (feet): 15

County Summary:

Sacramento

Quad Summary:

Bruceville (3812134), Florin (3812144)

Sources:

GRI80F0059 GRIGGS, T. - FIELD SURVEY FORM FOR VERNAL POOLS NEAR FRANKLIN, SACRAMENTO COUNTY. 1980-05-13



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11675	EO Index:	26932
Key Quad:	Elk Grove (3812143)	Element Code:	CTT44110CA
Occurrence Number:	55	Occurrence Last Updated:	1998-07-15

Scientific Name:	<i>Northern Hardpan Vernal Pool</i>	Common Name:	Northern Hardpan Vernal Pool
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G3 State: S3.1	Other Lists:	

General Habitat:	<input type="checkbox"/>	Micro Habitat:	<input type="checkbox"/>
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Last Date Observed:	1983-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1983-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 NE OF ELK GROVE ALONG BRADSHAW ROAD. 1-2.5 MILES NORTH OF CALVINE ROAD ALONG EXCELSIOR ROAD.

Detailed Location:
 LARGE AREA OF SPARSE VERNAL POOLS AS SEEN IN 1983 AERIAL PHOTOGRAPHS. ORCUTTIA TENUIS KNOWN FROM THIS AREA.

Ecological:
 UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
 AREA GRAZED, HOUSING IN VICINITY, PER 1980 SITE VISIT.

General:
 SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T07N, R06E, Sec. 11 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4260357 E649257	Latitude/Longitude: 38.47906 / -121.28884	Elevation (feet): 90

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

GRI80F0051	GRIGGS, T. - FIELD SURVEY FORM FOR VERNAL POOLS NE OF ELK GROVE ALONG BRADSHAW ROAD, #TG80. 1980-05-13
HOL86M0005	HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11641	EO Index: 26982	
Key Quad: Elk Grove (3812143)	Element Code: CTT44110CA	
Occurrence Number: 56	Occurrence Last Updated: 1998-07-15	

Scientific Name: <i>Northern Hardpan Vernal Pool</i>	Common Name: Northern Hardpan Vernal Pool
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3	
State: S3.1	

General Habitat:	Micro Habitat:
<input type="checkbox"/>	<input type="checkbox"/>

Last Date Observed: 1980-05-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1980-05-13	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NE OF ELK GROVE ALONG BRADSHAW ROAD. (ACTUALLY NW OF INTERSECTION OF CALVINE & EXCELSIOR ROADS).

Detailed Location:

Ecological:
UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
GRAZING IN VICINITY.

General:
SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T07N, R06E, Sec. 15 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4257688 E648264	Latitude/Longitude: 38.45518 / -121.30079	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
GRI80F0051 GRIGGS, T. - FIELD SURVEY FORM FOR VERNAL POOLS NE OF ELK GROVE ALONG BRADSHAW ROAD, #TG80. 1980-05-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11566	EO Index: 26933
Key Quad: Elk Grove (3812143)	Element Code: CTT44110CA
Occurrence Number: 57	Occurrence Last Updated: 1998-07-15

Scientific Name: <i>Northern Hardpan Vernal Pool</i>	Common Name: Northern Hardpan Vernal Pool
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3	
State: S3.1	

General Habitat:	Micro Habitat:
<input type="checkbox"/>	<input type="checkbox"/>

Last Date Observed: 1987-06-17	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1987-06-17	Occurrence Rank: Fair
Owner/Manager: SAC COUNTY	Trend: Decreasing
Presence: Presumed Extant	

Location:
NE OF ELK GROVE ALONG BRADSHAW ROAD, WEST OF WATERMAN ROAD BETWEEN SHELDON & BOND ROADS.

Detailed Location:

Ecological:

PORTIONS RETAIN NATURAL TOPOGRAPHY W/GOOD SPECIES DIVERSITY. ON REDDING-CORNING ASSOC. SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
AREA GRAZED, WESTERN PORTIONS ONCE USED AS SMALL RESERVOIRS W/CHECK DAMS; OTHER AREAS W/SMALL CHECKS, TERRACES.

General:
PARCEL TO BE SOLD, 1987. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T07N, R06E, Sec. 30 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4254915 E643319	Latitude/Longitude: 38.43101 / -121.35800	Elevation (feet): 55

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

GRI80F0051	GRIGGS, T. - FIELD SURVEY FORM FOR VERNAL POOLS NE OF ELK GROVE ALONG BRADSHAW ROAD, #TG80. 1980-05-13
ROY87F0004	ROYE, C. & B. BAILEY - FIELD SURVEY FORM FOR WATERMAN-BOND VERNAL POOLS - NORTHERN HARDPAN VERNAL POOL (NC44110.057). 1987-06-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11587	EO Index: 26930
Key Quad: Elk Grove (3812143)	Element Code: CTT44110CA
Occurrence Number: 58	Occurrence Last Updated: 1998-07-15

Scientific Name: <i>Northern Hardpan Vernal Pool</i>	Common Name: Northern Hardpan Vernal Pool
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3	
State: S3.1	

General Habitat: <input type="checkbox"/>	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 1983-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1983-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NE OF ELK GROVE ALONG BRADSHAW ROAD.

Detailed Location:
>80 AC OF DENSE POOLS SEEN IN 1983 AERIAL PHOTOS. AREA OF SPARSE POOLS ALSO TO WEST IN 1/2 SECTION 17, EAST 1/2 SECTION 18.

Ecological:
ON REDDING-CORNING ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
General:
SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T07N, R06E, Sec. 16 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4258119 E644886	Latitude/Longitude: 38.45962 / -121.33940	Elevation (feet): 65

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

GRI80F0051	GRIGGS, T. - FIELD SURVEY FORM FOR VERNAL POOLS NE OF ELK GROVE ALONG BRADSHAW ROAD, #TG80. 1980-05-13
HOL86M0005	HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11433	EO Index: 26870	
Key Quad: Rio Linda (3812164)	Element Code: CTT44110CA	
Occurrence Number: 78	Occurrence Last Updated: 1998-07-15	

Scientific Name: <i>Northern Hardpan Vernal Pool</i>	Common Name: Northern Hardpan Vernal Pool
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3	
State: S3.1	

General Habitat: <input type="checkbox"/>	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 1983-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1983-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
BETWEEN ELVERTA ROAD & U STREET, EAST OF 16TH STREET, WEST OF DRY CREEK, NE OF RIO LINDA.

Detailed Location:
SPARSE VERNAL POOLS AS SEEN IN 1983 AERIAL PHOTOS.

Ecological:
ON SAN JOAQUIN ASSOC SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
General:
SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T10N, R05E, Sec. 22 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4285642 E637212	Latitude/Longitude: 38.70878 / -121.42190	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11427	EO Index:	21462
Key Quad:	Rio Linda (3812164)	Element Code:	CTT44110CA
Occurrence Number:	79	Occurrence Last Updated:	1998-07-15

Scientific Name:	<i>Northern Hardpan Vernal Pool</i>	Common Name:	Northern Hardpan Vernal Pool
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G3 State: S3.1	Other Lists:	

General Habitat:	<input type="checkbox"/>	Micro Habitat:	<input type="checkbox"/>
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Last Date Observed:	1983-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1983-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WEST OF MCCLELLAN AIR FORCE BASE BETWEEN MAGPIE CREEK & ASCOT AVE, NORTH OF SACRAMENTO.

Detailed Location:
SPARSE VERNAL POOLS AS SEEN IN 1983 AERIAL PHOTOS. FIELD CHECKED BY WYMER AND ASSOCIATES IN 1987.

Ecological:
ON SAN JOAQUIN ASSOC SOILS. NO RARE OR ENDANGERED PLANTS WERE FOUND DURING THE 1987 FIELD SURVEYS, HOWEVER, OVER 100 DIFFERENT SPECIES WERE FOUND AND ARE LISTED IN WYM87R02. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
General:
SOME POOLS MOVED BY WYMER AND ASSOC. PROCESS DESCRIBED IN WYM88R03. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS:	T09N, R05E, Sec. 19 (M)	Accuracy:	specific area	Area (acres):	321
UTM:	Zone-10 N4280626 E637266	Latitude/Longitude:	38.66358 / -121.42228	Elevation (feet):	50

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:

HOL86M0005	HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX
WYM87R0002	WYMER, N. - THREATENED & ENDANGERED SPECIES SURVEY AT MCCLELLAN AIR FORCE BASE. 1987-XX-XX
WYM88R0003	WYMER, N. - VERNAL POOL RESTORATION PROJECT AT MCCLELLAN AIR FORCE BASE. 1988-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11666	EO Index: 16243	
Key Quad: Carmichael (3812153)	Element Code: CTT44110CA	
Occurrence Number: 80	Occurrence Last Updated: 1998-07-15	

Scientific Name: <i>Northern Hardpan Vernal Pool</i>	Common Name: Northern Hardpan Vernal Pool
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3	
State: S3.1	

General Habitat: <input type="checkbox"/>	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 1983-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1983-XX-XX	Occurrence Rank: Unknown
Owner/Manager: DOD-MATHER AFB	Trend: Unknown
Presence: Presumed Extant	

Location:
MATHER AIR FORCE BASE WEST OF KITTY HAWK SCHOOL.

Detailed Location:
DENSE VERNAL POOLS IN WEST PORTION, SPARSE VERNAL POOLS IN EAST PORTION AS SEEN IN 1983 AERIAL PHOTOS.

Ecological:
UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
General:
SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T08N, R06E, Sec. 14 (M)	Accuracy: specific area	Area (acres): 114
UTM: Zone-10 N4267901 E648794	Latitude/Longitude: 38.54710 / -121.29254	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11625	EO Index: 26868	
Key Quad: Carmichael (3812153)	Element Code: CTT44110CA	
Occurrence Number: 87	Occurrence Last Updated: 1998-07-15	

Scientific Name: <i>Northern Hardpan Vernal Pool</i>	Common Name: Northern Hardpan Vernal Pool
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3	
State: S3.1	

General Habitat: <input type="checkbox"/>	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 1983-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1983-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
BOTH SIDES OF JACKSON ROAD ABOUT 1 MILE WEST OF EXCELSIOR ROAD, SOUTH OF MATHER AIR FORCE BASE.

Detailed Location:
>80 ACRES OF DENSE VERNAL POOLS AS SEEN IN 1983 AERIAL PHOTOGRAPHS. PATCH OF SPARSE POOLS SOUTH OF ELDER CREEK ROAD ALSO.

Ecological:
ON REDDING-CORNING AND SAN JOAQUIN ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:

General:

SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T08N, R06E, Sec. 28 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4265337 E646742	Latitude/Longitude: 38.52434 / -121.31662	Elevation (feet): 65

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11588	EO Index:	26872
Key Quad:	Carmichael (3812153)	Element Code:	CTT44110CA
Occurrence Number:	88	Occurrence Last Updated:	1998-07-15

Scientific Name:	<i>Northern Hardpan Vernal Pool</i>	Common Name:	Northern Hardpan Vernal Pool
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G3 State: S3.1	Other Lists:	

General Habitat:	<input type="checkbox"/>	Micro Habitat:	<input type="checkbox"/>
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Last Date Observed:	1983-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1983-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WEST OF BRADSHAW ROAD. SOUTH OF ELDER CREEK ROAD. ABOUT 3 MILES SW OF MATHER AIR FORCE BASE.

Detailed Location:
TWO SMALL AREAS OF DENSE VERNAL POOLS AS SEEN IN 1983 AERIAL PHOTOS.

Ecological:
UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
General:
SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T08N, R06E, Sec. 32 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4263110 E644747	Latitude/Longitude: 38.50461 / -121.33996	Elevation (feet): 60

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143), Carmichael (3812153)

Sources:
HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11597	EO Index: 26869
Key Quad: Elk Grove (3812143)	Element Code: CTT44110CA
Occurrence Number: 89	Occurrence Last Updated: 1998-07-15

Scientific Name: <i>Northern Hardpan Vernal Pool</i>	Common Name: Northern Hardpan Vernal Pool
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3	
State: S3.1	

General Habitat:	Micro Habitat:
<input type="checkbox"/>	<input type="checkbox"/>

Last Date Observed: 1983-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1983-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
EAST & WEST OF BRADSHAW ROAD, NORTH OF GERBER ROAD. ABOUT 5 MILES NORTH OF ELK GROVE.

Detailed Location:
EAST OF ROAD SPARSE VERNAL POOLS EXTEND FOR OVER 1 MILE. WEST OF ROAD SMALLER POOL AREA ON EAST SIDE OF CENTRAL CALIFORNIA TRACTION RAILROAD LINES.

Ecological:
UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:

General:
SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T07N, R06E, Sec. 04 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4261557 E645745	Latitude/Longitude: 38.49045 / -121.32884	Elevation (feet): 60

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143), Carmichael (3812153)

Sources:
HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11328
Key Quad: Florin (3812144)
Occurrence Number: 93

EO Index: 26716
Element Code: CTT44110CA
Occurrence Last Updated: 1998-07-15

Scientific Name: *Northern Hardpan Vernal Pool*

Common Name: Northern Hardpan Vernal Pool

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G3
 State: S3.1

Rare Plant Rank:
Other Lists:

General Habitat:

Micro Habitat:

Last Date Observed: 1983-XX-XX
Last Survey Date: 1983-XX-XX
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 ELLIOT RANCH ROAD, WEST OF FRANKLIN BLVD.

Detailed Location:
 SPARSELY DISTRIBUTED.

Ecological:
 ON SAN JOAQUIN-ALAMO ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
General:
 SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T07N, R05E, Sec. 31 (M)
UTM: Zone-10 N4253060 E634035

Accuracy: 1 mile
Latitude/Longitude: 38.41574 / -121.46468

Area (acres): 0
Elevation (feet): 15

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:
 HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11340	EO Index: 26865	
Key Quad: Bruceville (3812134)	Element Code: CTT44110CA	
Occurrence Number: 94	Occurrence Last Updated: 1998-07-15	

Scientific Name: <i>Northern Hardpan Vernal Pool</i>	Common Name: Northern Hardpan Vernal Pool
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3	
State: S3.1	

General Habitat: <input type="checkbox"/>	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 1983-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1983-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST OF FRANKLIN BLVD ABOUT 1.3 MILES SOUTH OF FRANKLIN.

Detailed Location:
SPARSE DISTRIBUTION.

Ecological:
ON SAN JOAQUIN-ALAMO ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
General:
SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T06N, R05E, Sec. 20 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4247079 E634635	Latitude/Longitude: 38.36177 / -121.45896	Elevation (feet): 15

County Summary:	Quad Summary:
Sacramento	Bruceville (3812134), Florin (3812144)

Sources:
HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11698	EO Index: 26866	
Key Quad: Carmichael (3812153)	Element Code: CTT44110CA	
Occurrence Number: 95	Occurrence Last Updated: 1998-07-15	

Scientific Name: <i>Northern Hardpan Vernal Pool</i>	Common Name: Northern Hardpan Vernal Pool
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3	
State: S3.1	

General Habitat: <input type="checkbox"/>	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 1983-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1983-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH OF KIEFER BLVD WEST OF MATHER ROAD & SOUTH OF KIEFER BLVD EAST OF MATHER ROAD.

Detailed Location:
AREAS OF SPARSE VERNAL POOLS AS SEEN IN 1983 AERIAL PHOTOS.

Ecological:
PARTLY ON REDDING-CORNING ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
General:
SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T08N, R06E, Sec. 24 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4265924 E650147	Latitude/Longitude: 38.52906 / -121.27745	Elevation (feet): 130

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11612	EO Index:	26867
Key Quad:	Carmichael (3812153)	Element Code:	CTT44110CA
Occurrence Number:	96	Occurrence Last Updated:	1998-07-15

Scientific Name:	<i>Northern Hardpan Vernal Pool</i>	Common Name:	Northern Hardpan Vernal Pool
Listing Status:	Federal: None	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3		
	State: S3.1		

General Habitat:	<input type="checkbox"/>	Micro Habitat:	<input type="checkbox"/>
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Last Date Observed:	1983-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1983-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WEST & SOUTH OF WEST END OF MATHER FIELD RUNWAYS & SMALL PATCH BETWEEN RUNWAYS AT WEST END.

Detailed Location:
PATCHES OF SPARSE VERNAL POOLS SEEN IN 1983 AERIAL PHOTOS.

Ecological:
ON SAN JOAQUIN ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
General:
SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T08N, R06E, Sec. 16 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4267575 E646023	Latitude/Longitude: 38.54462 / -121.32440	Elevation (feet): 65

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11412
Key Quad: Florin (3812144)
Occurrence Number: 97

EO Index: 26718
Element Code: CTT44110CA
Occurrence Last Updated: 1998-07-15

Scientific Name: *Northern Hardpan Vernal Pool*

Common Name: Northern Hardpan Vernal Pool

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G3
 State: S3.1

Rare Plant Rank:
Other Lists:

General Habitat:

Micro Habitat:

Last Date Observed: 1983-XX-XX
Last Survey Date: 1983-XX-XX
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

JUST NORTH OF SHELDON ROAD, WEST OF BRUCEVILLE ROAD. SOUTH OF COSUMNES RIVER COLLEGE.

Detailed Location:

SPARSE VERNAL POOLS AS SEEN IN 1983 AERIAL PHOTOS.

Ecological:

ON SAN JOAQUIN ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:

General:

SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T07N, R05E, Sec. 22 (M)

Accuracy: 1 mile

Area (acres): 0

UTM: Zone-10 N4255769 E637532

Latitude/Longitude: 38.43962 / -121.42411

Elevation (feet): 20

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11670	EO Index:	16222
Key Quad:	Elk Grove (3812143)	Element Code:	CTT44110CA
Occurrence Number:	118	Occurrence Last Updated:	1998-07-15

Scientific Name:	<i>Northern Hardpan Vernal Pool</i>	Common Name:	Northern Hardpan Vernal Pool
Listing Status:	Federal: None	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3		
	State: S3.1		

General Habitat:	<input type="checkbox"/>	Micro Habitat:	<input type="checkbox"/>
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Last Date Observed:	1983-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1983-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
EAST OF COSUMNES RIVER, NW OF DILLARD ROAD, SOUTH OF FREEMAN ROAD.

Detailed Location:
DENSE DISTRIBUTION OF VERNAL POOLS.

Ecological:
SAN JOAQUIN ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
General:
SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T06N, R06E, Sec. 11 (M)	Accuracy: specific area	Area (acres): 168
UTM: Zone-10 N4250133 E649616	Latitude/Longitude: 38.38690 / -121.28690	Elevation (feet): 65

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11712	EO Index: 26512	
Key Quad: Elk Grove (3812143)	Element Code: CTT44110CA	
Occurrence Number: 119	Occurrence Last Updated: 1998-07-15	

Scientific Name: <i>Northern Hardpan Vernal Pool</i>	Common Name: Northern Hardpan Vernal Pool
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3	
State: S3.1	

General Habitat:	Micro Habitat:
<input type="checkbox"/>	<input type="checkbox"/>

Last Date Observed: 1983-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1983-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH OF WALMORT ROAD, EAST OF NORTH BADGER CREEK.

Detailed Location:
SMALL AREA OF DENSE VERNAL POOLS.

Ecological:
SAN JOAQUIN ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:
General:
SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T06N, R06E, Sec. 13 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4249147 E651627	Latitude/Longitude: 38.37768 / -121.26411	Elevation (feet): 65

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
HOL86M0005 HOLLAND, R.F. & V. DAINS - VERNAL POOL HABITAT OF SACRAMENTO COUNTY: 1949 AND 1983 COMPARED. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11332	EO Index: 26284	
Key Quad: Rio Linda (3812164)	Element Code: CTT44120CA	
Occurrence Number: 30	Occurrence Last Updated: 1998-07-15	

Scientific Name: <i>Northern Claypan Vernal Pool</i>	Common Name: Northern Claypan Vernal Pool
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G1	
State: S1.1	

General Habitat: <input type="checkbox"/>	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 1983-04-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1984-04-13	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH OF DRY CREEK, SOUTH OF ASCOT AVE, JUST EAST OF WESTERN PACIFIC RR TRACKS, SACRAMENTO.

Detailed Location:

Ecological:

VERNAL POOL COMPLEX W/SEASONAL & PERENNIAL FRESHWATER MARSH. ANNUAL GRASSLAND SURROUNDS. POOL TAXA INCL ERYNGIUM, DOWNINGIA, PLAGIOBOTHRYIS, JUNCUS. ON CLAY SUBSTRATE. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:

MODERATELY GRAZED, EROSION THREATENING ONE POOL.

General:

AREA PROPOSED FOR REGIONAL PARK BY CITY OF SACRAMENTO PER SCHONHOLTZ. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T09N, R05E, Sec. 05 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4281006 E632941	Latitude/Longitude: 38.66767 / -121.47190	Elevation (feet): 35

County Summary:

Sacramento

Quad Summary:

Rio Linda (3812164)

Sources:

SCH84F0018 SCHONHOLTZ, R. - FIELD SURVEY FORM FOR "HANGEN (ER ?) PARK" VERNAL POOLS - NORTHERN CLAYPAN VERNAL POOLS. 1984-04-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11782	EO Index: 16218	
Key Quad: Roseville (3812173)	Element Code: CTT44132CA	
Occurrence Number: 1	Occurrence Last Updated: 1998-07-16	

Scientific Name: <i>Northern Volcanic Mud Flow Vernal Pool</i>	Common Name: Northern Volcanic Mud Flow Vernal Pool
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G1	
State: S1.1	

General Habitat:	Micro Habitat:
<input type="checkbox"/>	<input type="checkbox"/>

Last Date Observed: 1982-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1982-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
BETWEEN DOUGLAS BLVD & MINERS RAVINE JUST EAST OF ROSEVILLE.

Detailed Location:

Ecological:

DIVERSITY OF POOL TAXA PRESENT INCLUDES DICHELOSTEMMA LACUNA-VERNALIS. MOST OF THIS LARGE AREA IS ON VOLCANIC SUBSTRATE. <50 ACRES IN THE NW PORTION OF THE BOUNDED AREA IS LOW TERRACE FORMATION W/HARDPAN VERNAL POOLS.

Threats:

General:

UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T10N, R07E, Sec. 06 (M)	Accuracy: specific area	Area (acres): 432
UTM: Zone-10 N4290690 E651693	Latitude/Longitude: 38.75189 / -121.25431	Elevation (feet): 240

County Summary:	Quad Summary:
Placer	Folsom (3812162), Citrus Heights (3812163), Rocklin (3812172), Roseville (3812173)

Sources:
WES82R0001 WESCO - VERNAL POOL RESOURCES INVENTORY AND EVALUATION, CITY OF ROSEVILLE, CALIFORNIA. SUBMITTED TO CITY OF ROSEVILLE PLANNING DEPT. 1982-08-31



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11231

EO Index: 15664

Key Quad: Sacramento West (3812155)

Element Code: CTT61410CA

Occurrence Number: 37

Occurrence Last Updated: 1998-09-02

Scientific Name: *Great Valley Cottonwood Riparian Forest*

Common Name: Great Valley Cottonwood Riparian Forest

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists:

CNDDDB Element Ranks: **Global:** G2

State: S2.1

General Habitat:

Micro Habitat:

Last Date Observed: 1985-09-29

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1985-09-29

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN, PVT

Trend: Unknown

Presence: Presumed Extant

Location:

YOLO SIDE OF SACRAMENTO RIVER AT BRODERICK FROM RM 59.8 TO RM 62.

Detailed Location:

Ecological:

MOSTLY MATURE FOREST OF POPULUS FREMONTII, FRAXINUS LATIFOLIA, SALIX SPP & QUERCUS LOBATA IN STRIP RANGING FROM <100 FT TO >200 FT WIDE. PARTS HIGHLY DISTURBED, OTHERS FAIRLY INTACT.

Threats:

THREATENED BY MARINA/DEVEL.

General:

RARE VALLEY ELDERBERRY LONGHORN BEETLE & SWAINSONS HAWK PRESENT. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T09N, R04E, Sec. 26 (M)

Accuracy: specific area

Area (acres): 65

UTM: Zone-10 N4273126 E629752

Latitude/Longitude: 38.59715 / -121.51001

Elevation (feet): 15

County Summary:

Quad Summary:

Yolo

Sacramento West (3812155)

Sources:

COE84M0001 U.S. ARMY CORPS OF ENGINEERS - SACRAMENTO RIVER AERIAL ATLAS: COLLINSVILLE TO SHASTA DAM, CALIFORNIA. USACE SACRAMENTO DISTRICT WATER RESOURCES PLANNING BRANCH INVESTIGATIONS SECTION A. 1984-05-29

SCH85F0028 SCHONHOLTZ, R. - FIELD SURVEY FORM FOR GREAT VALLEY COTTONWOOD RIPARIAN FOREST (NC61410.037) 1985-09-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11610	EO Index:	15617
Key Quad:	Elk Grove (3812143)	Element Code:	CTT61430CA
Occurrence Number:	13	Occurrence Last Updated:	1998-07-23

Scientific Name:	<i>Great Valley Valley Oak Riparian Forest</i>			Common Name:	Great Valley Valley Oak Riparian Forest
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	None	Other Lists:		
CNDDDB Element Ranks:	Global:	G1			
	State:	S1.1			

General Habitat:	<input type="checkbox"/>	Micro Habitat:	<input type="checkbox"/>
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Last Date Observed:	1985-07-16	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1985-07-16	Occurrence Rank:	Excellent
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG DEER CREEK ABOUT 1 AIR MILE NE OF CONFLUENCE W/ COSUMNES RIVER. BETWEEN GRANT LINE & DILLARD ROADS.

Detailed Location:
 BOUNDARY INCLUDES SOME GRAZING-MAINTAINED SAVANNAH W/VALLEY OAKS 80-100 FT TALL, SOME W/>6 FT DBH.

Ecological:
 80-90% CLOSED CANOPY; VALLEY OAK DOMINANT, WALNUTS SUBDOMINANT. DENSE BOX ELDER, SAMBUCUS; LIANAS IMPENETRABLE.

Threats:
 SCS STREAM CLEARING THREATENS PART.

General:
 DFG TRYING TO REFOREST. RAPTOR AND LONGHORN BEETLE HABITAT. DFG HAS A 34 ACRE CONSERVATION EASEMENT HERE. SEE WWW.DFG.CA.GOV/BIOGEO/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS:	T06N, R06E, Sec. 09 (M)	Accuracy:	specific area	Area (acres):	210
UTM:	Zone-10 N4249693 E646719	Latitude/Longitude:	38.38342 / -121.32015	Elevation (feet):	45

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
 HOL85U0007 HOLLAND, R.F. - TRIP REPORT FOR COSUMNES RIVER RIPARIAN AREAS, INCLUDING MAP. 1985-07-16



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11371	EO Index: 15253	
Key Quad: Sacramento East (3812154)	Element Code: CTT63440CA	
Occurrence Number: 2	Occurrence Last Updated: 1998-07-23	

Scientific Name: <i>Elderberry Savanna</i>	Common Name: Elderberry Savanna
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2	
State: S2.1	

General Habitat:	Micro Habitat:
<input type="checkbox"/>	<input type="checkbox"/>

Last Date Observed: 1987-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1987-XX-XX	Occurrence Rank: Unknown
Owner/Manager: STATE (SAC COUNTY LEASE)	Trend: Unknown
Presence: Presumed Extant	

Location:
CAL EXPO, ON AMERICAN RIVER FLOODPLAIN FROM S.P. RR TRACKS EAST TO JUST BEYOND HWY 80.

Detailed Location:
BOUNDARY GENERALIZED FROM MANAGEMENT PLAN TO INCLUDE MOST ELDERBERRY BUSHES IN THIS PORTION OF CAL EXPO.

Ecological:
SAMBUCUS MEXICANA, CENTAUREA SOLSTITIALIS, ELYMUS TRITICOIDES, BROMUS DIANDRUS, FOENICULUM VULGARE.

Threats:
General:

LEASED BY SACRAMENTO COUNTY PARKS & RECREATION DEPT. MANAGEMENT PLAN EMPHASIZES PRESERVATION & RESTORATION. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T09N, R05E, Sec. 32 (M)	Accuracy: specific area	Area (acres): 51
UTM: Zone-10 N4272653 E635326	Latitude/Longitude: 38.59206 / -121.44612	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:
SAC87R0001 SACRAMENTO COUNTY PARKS & RECREATION DEPT. - CAL EXPO FLOOD PLAIN MANAGEMENT PLAN - ELDERBERRY SAVANNA, VALLEY ELDERBERRY LONGHORN BEETLE, JUGLANS HINDSII, JUNCUS DIFFUSISSIMUS. 1987-11-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11402	EO Index:	15252
Key Quad:	Sacramento East (3812154)	Element Code:	CTT63440CA
Occurrence Number:	3	Occurrence Last Updated:	1998-07-23

Scientific Name:	<i>Elderberry Savanna</i>	Common Name:	Elderberry Savanna
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2 State: S2.1	Other Lists:	

General Habitat:	<input type="checkbox"/>	Micro Habitat:	<input type="checkbox"/>
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Last Date Observed:	1987-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1987-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	STATE (SAC COUNTY LEASE)	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 CAL EXPO, ON AMERICAN RIVER FLOODPLAIN, SOUTH & SOUTHEAST OF BUSHY LAKE.

Detailed Location:
 BOUNDARY GENERALIZED FROM MANAGEMENT PLAN TO INCLUDE MOST ELDERBERRY BUSHES IN THIS PORTION OF CAL EXPO.

Ecological:
 SAMBUCUS MEXICANA, CENTAUREA SOLSTITIALIS, ELYMUS TRITICOIDES, BROMUS DIANDRUS, FOENICULUM VULGARE.

Threats:
General:
 LEASED FROM STATE BY SACRAMENTO COUNTY PARKS & REC DEPT. MANAGEMENT PLAN EMPHASIZES PRESERVATION & RESTORATION. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T09N, R05E, Sec. 33 (M)	Accuracy: specific area	Area (acres): 80
UTM: Zone-10 N4271815 E636488	Latitude/Longitude: 38.58433 / -121.43294	Elevation (feet): 35

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:
 SAC87R0001 SACRAMENTO COUNTY PARKS & RECREATION DEPT. - CAL EXPO FLOOD PLAIN MANAGEMENT PLAN - ELDERBERRY SAVANNA, VALLEY ELDERBERRY LONGHORN BEETLE, JUGLANS HINDSII, JUNCUS DIFFUSISSIMUS. 1987-11-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	21067	EO Index:	9156
Key Quad:	Sacramento West (3812155)	Element Code:	CTT63440CA
Occurrence Number:	4	Occurrence Last Updated:	1998-07-23

Scientific Name:	<i>Elderberry Savanna</i>	Common Name:	Elderberry Savanna
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2 State: S2.1	Other Lists:	

General Habitat:	<input type="checkbox"/>	Micro Habitat:	<input type="checkbox"/>
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Last Date Observed:	1985-09-04	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1985-09-04	Occurrence Rank:	Fair
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 WEST BANK OF SACRAMENTO RIVER, OPPOSITE MOUTH OF AMERICAN RIVER. NEXT TO MARINAS, BOATYARDS, LEVEE RD, RIPARIAN FOREST.

Detailed Location:
 SCATTERED ELDERBERRY AND VALLEY OAKS WITHIN THE FLOODPLAIN.

Ecological:
 DOMINANTS ARE SAMBUCUS SP., AND QUERCUS LOBATA. NEIGHBORING COMMUNITIES ARE GREAT VALLEY COTTONWOOD RIPARIAN FOREST, ANNUAL GRASSLAND/RUDERAL FORBS.

Threats:
General:
 VALLEY ELDERBERRY LONGHORN BEETLE FOUND HERE. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T09N, R04E, Sec. 26 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4273172 E629682	Latitude/Longitude: 38.59758 / -121.51081	Elevation (feet): 30

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
 SCH85F0035 SCHONHOLTZ, R. - FIELD SURVEY FORM FOR NC63440 1985-09-04



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23049	EO Index: 16973
Key Quad: Rio Linda (3812164)	Element Code: ICBRA03030
Occurrence Number: 3	Occurrence Last Updated: 1993-03-24

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1993-02-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-02-11	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
0.5 MILE WEST OF THE JUNCTION OF WEST 6TH STREET AND "U" STREET, RIO LINDA.

Detailed Location:

Ecological:
HABITAT CONSISTS OF TWO DISTURBED VERNAL POOLS. BURROWING OWLS ALSO FOUND AT THIS LOCATION.

Threats:
POSSIBLY THREATENED BY PROPOSED CONSTRUCTION OF AN ACCESS ROAD LEADING TO A NEW POWER PLANT.

General:
FAIRY SHRIMP IDENTIFIED BY STEPHANIE MYERS (JSA); ALTHOUGH NOT COMMON, THERE WERE TOO MANY TO COUNT.

PLSS: T10N, R05E, Sec. 19 (M)	Accuracy: nonspecific area	Area (acres): 8
UTM: Zone-10 N4285335 E631918	Latitude/Longitude: 38.70682 / -121.48283	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
YOR93F0003 YORK, R. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1993-02-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23050	EO Index: 29284
Key Quad: Rio Linda (3812164)	Element Code: ICBRA03030
Occurrence Number: 4	Occurrence Last Updated: 1996-09-04

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1996-02-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1996-02-13	Occurrence Rank: Poor
Owner/Manager: PVT, UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
EAST SIDE OF WESTERN PACIFIC RAILROAD TRACKS, SOUTH OF JUNCTION OF ELVERTA RD AND SORENTO RD, 2.0 KM WEST OF ELVERTA.

Detailed Location:
1993: 1 DISTURBED POND ADJACENT TO RR TRACKS SAMPLED, SHRIMP IDENTIFIED BY S. MEYERS (JSA); ALTHOUGH NOT COMMON, TOO MANY TO COUNT. 1996: 3 POOLS SAMPLED BY S. LEACH; TOTAL APPROXIMATE SIZE OF POOLS AND SWALES ARE 250 SQ. METERS.

Ecological:
HABITAT IS COMPLEX OF SEASONAL POOLS AND SWALES; SAN JOAQUIN SOIL SERIES; ASSOCIATED PLANTS: CRASSULA AQUATICA, LOLIUM MULTIFLORUM, CALLITRICHE MARGINATA, LILAEA SCILLOIDES, LYTHRUM HYSSOPIFOLIUM, MIMULUS GUTTATUS, MONTIA FONTANA ET AL.

Threats:
THREAT: HIGH POTENTIAL FOR DEGRADATION OF WATER QUALITY; POSSIBLE HERBICIDE USE; SEDIMENTATION OF POOLS, RR ROW, ET AL.

General:
1993: SHRIMP OBS BY S. MEYERS. 2/13/1996: >50 ADULTS OBS IN SMALL (93 SQ. METERS) ISOLATED POOL ABOUT 1000 FT S OF ELVERTA RD; 50-100 ADULTS OBS IN POOL 800 FT E OF SORENTO RD; 50-100 ADULTS OBS IN 92 SQ. METER POOL 230 FT S OF ELVERTA RD.

PLSS: T10N, R05E, Sec. 19 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4286031 E631833	Latitude/Longitude: 38.71310 / -121.48367	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

LEA96F0001	LEACH, S. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1996-02-13
LEA96F0002	LEACH, S. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1996-02-13
LEA96F0003	LEACH, S. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1996-02-13
YOR93F0003	YORK, R. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1993-02-11



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	33179	EO Index:	2804
Key Quad:	Carmichael (3812153)	Element Code:	ICBRA03030
Occurrence Number:	13	Occurrence Last Updated:	2014-12-22

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	1995-04-03	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1995-04-03	Occurrence Rank:	Poor
Owner/Manager:	PVT-RMC LONESTAR	Trend:	Unknown
Presence:	Presumed Extant		

Location:
0.6 MILE NNW OF THE INTERSECTION OF EAGLES NEST ROAD AND DOUGLAS ROAD, NE OF (FORMER) MATHER AIR FORCE BASE.

Detailed Location:
MAPPED TO PROVIDED COORDINATES AND MAP.

Ecological:
HABITAT CONSISTED OF A VERNAL POOL ON RED BLUFF LOAM SOIL; DOMINANT PLANTS INCLUDE RANUNCULUS BONARIENSIS VAR. TRISEPALUS, ERYNGIUM VASEYI, LIMNANTHES ALBA, AND ELEOCHARIS MACROSTACHYA.

Threats:
SITE WAS OWNED BY GRAVEL MINING COMPANY. AERIALS SHOW THAT LAND WAS USED FOR AG, AND THEN WAS PAVED OVER IN 2011.

General:
1 EXUVIUM COLLECTED ON 3 APRIL 1995 AND DEPOSITED AT CAS (CASIZ #102871).

PLSS: T08N, R06E, Sec. 12 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4270325 E651241	Latitude/Longitude: 38.56852 / -121.26395	Elevation (feet): 125

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

FIE95F0002	FIELDS, W. (HYDROZOOLOGY) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1995-04-03
FIE95S0010	FIELDS, W. - CASIZ #102871, COLLECTED FROM "RMC LONESTAR PROPERTY, ABOUT 1000' W OF FOLSOM SOUTH CANAL ON MATHER AFB BOUNDARY." 1995-04-03
FIE95U0001	FIELDS, W. (HYDROZOOLOGY) - FORMAL LETTER TO DFG FOR VERNAL POOL CRUSTACEAN SURVEY ON RMC LONESTAR LAND - ATTACHED TO FIE95F0001 & FIE95F0002. 1995-05-30



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	31558	EO Index:	6893
Key Quad:	Sacramento East (3812154)	Element Code:	ICBRA03030
Occurrence Number:	32	Occurrence Last Updated:	2015-03-04

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	1995-02-08	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2011-03-16	Occurrence Rank:	None
Owner/Manager:	DOD	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
 ABOUT 0.3 MILES E OF THE INTERSECTION OF ELDER CREEK ROAD AND THE SOUTHERN PACIFIC TRACTION RR CROSSING, SAC ARMY DEPOT.

Detailed Location:
 DETECTIONS IN VICINITY OF ARMY RESERVE TRAINING CENTER RUNNING TRACK.

Ecological:
 SEASONAL WETLANDS, SHALLOW SWALES, TIRE TRACKS, PONDED AREAS IN RUNNING TRACK & BASEBALL DIAMOND, FIELD & ROADSIDE DRAINAGE DITCHES. LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI ALSO FOUND.

Threats:
 AERIALS SHOW THAT HABITAT HAS BEEN ELIMINATED BY DEVELOPMENT, INCLUDING INSTALLATION OF SOLAR PANELS OVER FIELDS.

General:
 TENS FOUND IN 3 OF 53 SITES BETWEEN 31 JAN & 8 FEB 1995. 11 ADULTS COLLECTED AND DEPOSITED IN CAS. NONE FOUND IN REMAINING HABITAT SURVEYED FEB-MAR 2011.

PLSS: T08N, R05E, Sec. 26 (M)	Accuracy: nonspecific area	Area (acres): 5
UTM: Zone-10 N4263773 E639762	Latitude/Longitude: 38.51137 / -121.39697	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

- Sources:**
- CRO95F0002 CROWE, D. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI (VERNAL POOL FAIRY SHRIMP) 1995-01-31
 - CRO95S0003 CROWE, D. - CASIZ #103095 & 103096, COLLECTED AT "T8N, R5E SECTION 26, POOL 44 INSIDE WEST HALF OF RUNNING TRACK IN SOUTHERN PORTION OF ARMY RESERVE CENTER." 1995-02-04
 - CRO95S0004 CROWE, D. - CASIZ #103097, COLLECTED AT "T8N R5E SECTION 26, POOL 50 OUTSIDE SW QUARTER OF RUNNING TRACK IN SOUTHERN PORTION OF ARMY RESERVE CENTER." 1995-02-08
 - CRO95S0005 CROWE, D. - CASIZ #103098, COLLECTED AT "T8N R5E SECTION 26, POOL 41 INSIDE SE QUARTER OF RUNNING TRACK IN SOUTHERN PORTION OF ARMY RESERVE CENTER." 1995-01-31
 - FOS95R0001 FOSTER WHEELER ENVIRONMENTAL CORP. - B.T. COLLINS ARMY RESERVE TRAINING CENTER 1994-95 VERNAL POOL CRUSTACEAN PRESENCE/ABSENCE SURVEY 60-DAY REPORT 1995-06-XX
 - WIT11U0002 WITHAM, C. - BT COLLINS ARMY RESERVE BRANCHIOPOD MONITORING, 90-DAY REPORT, RECOVERY PERMIT TE-799570-3, 2010-TA-0243 2011-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32441	EO Index: 2104
Key Quad: Carmichael (3812153)	Element Code: ICBRA03030
Occurrence Number: 33	Occurrence Last Updated: 2014-08-28

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2005-01-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-01-21	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:

VICINITY OF THE INTERSECTION OF EAGLES NEST ROAD AND HIGHWAY 16 (JACKSON ROAD), SOUTH OF MATHER AIR FORCE BASE.

Detailed Location:

1995 DETECTIONS IN POOLS JUST NW & SE OF CENTER, TRS SEC 31; GRECH PROPERTY. MAPPED TO TRS LOCATIONS GIVEN ON MUTH FIELD SURVEY FORMS FROM 1996, 1997 & 2000. 2005 DETECTIONS ON TRIANGLE ROCK GRECH PROPERTY; EXACT LOCATIONS NOT GIVEN.

Ecological:

1995-2000: HARDPAN VERNAL POOLS, SCRAPES, SWALES, DEPRESSIONS, AND STOCK PONDS; SURROUNDED BY GRAZED NON-NATIVE GRASSLAND. 2005: NATURAL AND CONSTRUCTED POOLS ON 88-ACRE MITIGATION PROPERTY; SURROUNDING AREAS USED FOR GRAVEL MINING.

Threats:

AGRICULTURAL USES (1995). GRAVEL MINING (1997). AERIALS SHOW MINING EXPANSION SINCE THE 90S REDUCED SUITABLE HABITAT.

General:

FOUND IN 9 POOLS, 1 FEB 1995; VOUCHERS SENT TO CAS. 10S-1000S FOUND IN 6 FEATURES, 1996. 10S-100S IN 3 FEATURES, 1997. OVER 10 FOUND IN MULTIPLE POOLS, 15 MAR 2000. FOUND IN 6 OF 12 REFERENCE POOLS AND 15 OF 19 CREATED POOLS, 21 JAN 2005.

PLSS: T08N, R07E, Sec. 31 (M)	Accuracy: nonspecific area	Area (acres): 445
UTM: Zone-10 N4263363 E652329	Latitude/Longitude: 38.50562 / -121.25298	Elevation (feet): 120

County Summary:

Sacramento

Quad Summary:

Sloughhouse (3812142), Elk Grove (3812143), Buffalo Creek (3812152), Carmichael (3812153)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

LSA06R0001	LSA ASSOCIATES, INC. - 2005 ANNUAL REPORT TO THE U.S. FISH AND WILDLIFE SERVICE FOR SECTION 10 (A) (R) (A) PERMIT NUMBER TE-797234-6 ISSUED TO LSA ASSOCIATES, INC. 2006-01-31
MUT00F0008	MUTH, D. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI (VERNAL POOL FAIRY SHRIMP) 2000-03-15
MUT96F0007	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1996-XX-XX
MUT96F0008	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1996-XX-XX
MUT96F0009	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1996-XX-XX
MUT96F0010	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1996-XX-XX
MUT96F0011	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1996-XX-XX
MUT96F0012	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1996-XX-XX
MUT97F0001	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1997-XX-XX
MUT97F0002	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1997-XX-XX
MUT97F0003	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1997-XX-XX
SUG95R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX
SUG95R0002	SUGNET & ASSOCIATES - CORRECTIONS TO ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT #PRT-795933, 1994-95. 1995-10-30



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93643	EO Index:	637
Key Quad:	Sacramento East (3812154)	Element Code:	ICBRA03030
Occurrence Number:	35	Occurrence Last Updated:	2014-09-02

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	1995-01-05	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1995-01-05	Occurrence Rank:	Unknown
Owner/Manager:	PVT-PIPE TRADES TRUST FUND	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ABOUT 0.5 MILES SW OF ELDER CREEK RD AT S WATT AVE, SE OF THE FORMER SACRAMENTO ARMY DEPOT.

Detailed Location:
 ELDER CREEK PROPERTY. MAPPED TO LOCATIONS GIVEN FOR POOLS #46 AND #51, 2 OF 90 SAMPLED WETLANDS.

Ecological:
 HARDPAN VERNAL POOL IN ANNUAL GRASSLAND.

Threats:
 RURAL AGRICULTURE; URBAN DEVELOPMENT OCCURING IN VICINITY.

General:
 TENS TO OVER 50 OBSERVED IN 2 OF 90 WETLANDS, 21 DEC 1994-5 JAN 1995. 3 SPECIMENS COLLECTED AND DEPOSITED IN CAS (CASIZ #103119).

PLSS: T08N, R05E, Sec. 36 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4263194 E641436	Latitude/Longitude: 38.50589 / -121.37789	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:

CAP95S0002	CAPELL, S. - CASIZ #103119, COLLECTED FROM "SE 1/4 OF SE 1/4 SECTION 36; T08N R0E." 1995-01-05
SUG95R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32447	EO Index: 1012	
Key Quad: Carmichael (3812153)	Element Code: ICBRA03030	
Occurrence Number: 39	Occurrence Last Updated: 2014-12-24	

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1995-02-05	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1995-02-05	Occurrence Rank: Unknown
Owner/Manager: PVT-GRANITE CONSTRUCTION CO	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.8 MILES W OF EXCELSIOR RD AT KIEFER BLVD AND 1.6 MILES NE OF BRADSHAW RD AT JACKSON RD, S OF MATHER AIRPORT.

Detailed Location:
GRANITE-TEICHERT PILOT PROJECT SITE (SW PARCEL).

Ecological:
PREVIOUSLY (1990S), CONSTRUCTED & HISTORIC HARDPAN VERNAL POOLS IN ANNUAL GRASSLAND; WETLAND COMPENSATION/MITIGATION PRESERVE. AERIALS FROM 2002-2012 SHOW A SIGNIFICANT CHANGE IN THE LANDSCAPE INCL. REDIRECTING MORRISON CREEK & MINING.

Threats:
HISTORICALLY USED FOR GRAZING. MORE RECENTLY THE AREA APPEARS TO HAVE BEEN MINED & LANDSCAPE RE-ENGINEERED.

General:
OVER 50 FOUND IN 6 OF 10 POOLS SAMPLED FEB 1995 (POOLS #1, 2, 4, 5, 6, & 7); 13 COLLECTED & DEPOSITED IN CAS (CASIZ#103108, 103112, 103115, 103123, & 103132).

PLSS: T08N, R06E, Sec. 22 (M)	Accuracy: specific area	Area (acres): 5
UTM: Zone-10 N4266606 E647513	Latitude/Longitude: 38.53565 / -121.30751	Elevation (feet): 70

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

BAL95S0004	BALFOUR, P. - CASIZ #103108, 103112, 103115, 103123, & 103132, COLLECTED FROM "SW1/4 OF NE1/4 SECTION 22; T08N R06E." 1995-02-24
SUG95R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX
SUG95R0002	SUGNET & ASSOCIATES - CORRECTIONS TO ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT #PRT-795933, 1994-95. 1995-10-30



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 53920	EO Index: 1745	
Key Quad: Carmichael (3812153)	Element Code: ICBRA03030	
Occurrence Number: 47	Occurrence Last Updated: 2014-12-29	

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2010-02-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-02-03	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SW END OF THE RUNWAY OF OLD MATHER AIR FORCE BASE, 1 MILE NE OF THE INTERSECTION OF BRADSHAW ROAD AND JACKSON ROAD.

Detailed Location:
LOCATION OF 1991 DETECTIONS GIVEN AS "...BORDERED BY JACKSON RD (S), KIEFER BLVD (N), BRADSHAW RD (W) & EXCELSIOR RD (W);" EXACT LOCATIONS UNKNOWN. MAPPED TO GRANITE I PRESERVE, LOCATION OF 1997-2002 DETECTIONS.

Ecological:
1991: POOLS IN GRAZED ANNUAL GRASSLAND. 1997-2002: 10-AC PRESERVE WITH 38 VERNAL POOLS. DOMINANT VEG PLAGIOBOTHRYIS STIPITATUS, LASTHENIA FREMONTII, DOWNINGIA BICORNUTA, ERYNGIUM VASEYI, NAVARRETIA LEUCOCEPHALA, & DESCHAMPSIA DANTHONIOIDES.

Threats:
GRAZING; GRAVEL PITS; PROPOSED AGGREGATE MINING (1991).

General:
FOUND FEB-MAR 1991; COLLECTION IN USNM (#1144049). FOUND IN 1 POOL, 5 MAR 1993 (SUGNET ID#73). 1000S IN 2 POOLS, 1997. 100S IN 8 POOLS, 1998. 100S IN 6 POOLS, 1999. 100S-1000S, 2000-02.

PLSS: T08N, R06E, Sec. 16 (M)	Accuracy: specific area	Area (acres): 44
UTM: Zone-10 N4267058 E646210	Latitude/Longitude: 38.53993 / -121.32235	Elevation (feet): 65

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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- Sources:**
- FAR02F0002 FARMER, M. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2002-03-15
 - HEL09U0006 HELM, B. - SOIL EXAMINATIONS FOR THE PRESENCE OF FEDERALLY LISTED LARGE BRANCHIOPODS AT THE SMUD EAST CAMPUS-OPERATIONS CENTER. 2009-11-XX
 - HUB91F0001 HUBER, A. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORMS FOR BRANCHINECTA LYNCHI (VERNAL POOL FAIRY SHRIMP) 1991-03-XX
 - HUB91S0001 HUBER, A. - USNM #1144049, COLLECTED FROM "VERNAL POOL GRASSLAND JUST SOUTH OF MATHER AIR FORCE BASE." 1991-03-27
 - SUG93U0001 SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX
 - WHI97F0001 WHITNEY, K. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI (VERNAL POOL FAIRY SHRIMP) 1997-01-24
 - WHI98F0001 WHITNEY, K. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI (VERNAL POOL FAIRY SHRIMP) 1998-01-XX
 - WHI99F0001 WHITNEY, K. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI (VERNAL POOL FAIRY SHRIMP) 1999-02-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 94697	EO Index: 2087	
Key Quad: Rio Linda (3812164)	Element Code: ICBRA03030	
Occurrence Number: 90	Occurrence Last Updated: 2014-12-16	

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1996-02-16	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1996-02-16	Occurrence Rank: Excellent
Owner/Manager: DOD-MCCLELLAN AFB	Trend: Unknown
Presence: Presumed Extant	

Location:
0.2 MILE SE OF INTERSECTION OF ASCOT AVE AND 20TH STREET, WEST SIDE OF MCCLELLAN AIRFIELD, SACRAMENTO.

Detailed Location:
MAPPED TO OCCUPIED POOL MCC95B (=M95B), PER PROVIDED MAPS AND COORDINATES.

Ecological:
VERNAL POOL WITH ALGAE AND GRASS BOTTOM. POOL ESTIMATED TO BE 25 FEET LONG AND 15 FEET WIDE WITH A MAXIMUM DEPTH OF 10 INCHES; SURROUNDED BY ANNUAL GRASSLAND. OSTRACODS, COPEPODS, AND LINDERIELLA OCCIDENTALIS ALSO PRESENT.

Threats:
EXPANSION OF BASE FACILITIES; MODIFICATION OF WATERSHED; AIRCRAFT REPAIR, DEVELOPMENT (1996).

General:
MANY OBSERVED ON 10 FEB AND 16 MAR 1995; 8 VOUCHERS COLLECTED, IN CAS (CASIZ #102856 AND 102858). HUNDREDS OBSERVED ON 22 JAN 1996, COLLECTED 16 FEB 1996 (CASIZ #106746).

PLSS: T09N, R05E, Sec. 03 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4280968 E637651	Latitude/Longitude: 38.66660 / -121.41778	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

LAC95F0001	LACY, T. (WESCO-RMI) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1995-03-15
LAC95R0001	LACY, T. (WESCO-RMI) - 1995 VERNAL POOL CRUSTACEAN SURVEY RESULTS - MCCLELLAN AFB AND LINCOLN & DAVIS COMMUNICATIONS FACILITIES; CONSERVATION PLAN INCLUDED. 1995-XX-XX
LAC95S0002	LACY, T. - CASIZ #102858, COLLECTED FROM "8 MILES NORTH OF SACRAMENTO, NATURAL AREA, WEST SIDE OF BASE, NORTH OF DON JULIO CREEK, WEST OF PATROL ROAD, POOL #MCC 95B." 1995-03-16
LAC96F0004	LACY, T. (RMI CONSULTING) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1996-01-22
LAC96S0002	LACY, T. - CASIZ #106746, COLLECTED "WEST OF PATROL RD, BETWEEN DON JULIO CREEK AND ASCOT AVE. QUAD RIO LINDA." 1996-02-16
LYN95S0001	LYNCH, S. - CASIZ #102856, COLLECTED AT "NATURAL AREA, WEST OF BASE, NORTH OF DON JULIO CREEK." 1995-02-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32550	EO Index: 1418	
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030	
Occurrence Number: 100	Occurrence Last Updated: 1997-08-27	

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1997-02-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-03-14	Occurrence Rank: Excellent
Owner/Manager: PVT-WINNCREST HOMES	Trend: Unknown
Presence: Presumed Extant	

Location:
0.5 MILE SOUTH OF CALVINE ROAD AND IMMEDIATELY WEST OF WATERMAN ROAD, 2 MILES NORTH OF ELK GROVE.

Detailed Location:
PERRY RANCH MITIGATION AREA IS A 37-ACRE PRESERVE, CONSISTING OF NORTHERN HARDPAN VERNAL POOLS (NATURAL AND CREATED), SEASONAL WETLANDS, WET SWALES, AND NON-NATIVE ANNUAL GRASSLANDS.

Ecological:
NORTHERN HARDPAN VERNAL POOL HABITAT WITH CONSTRUCTED AND NATURAL POOLS; DOMINANT UPLAND CONSISTING OF NON-NATIVE ANNUAL GRASSLAND. SOIL TYPES: CORNING-REDDING COMPLEX (8-30% SLOPES) AND REDDING GRAVELLY LOAM (0-8% SLOPES).

Threats:
WETLAND PRESERVE IS PROTECTED BY EXISTING PERIMETER FENCE AND NO DISTURBANCES NOTED.

General:
1995: 12/28-OBS IN 25 OF 26 CONSTRUCTED POOLS, 7 OF 10 REFERENCE POOLS. 2/2-OBS IN 2 OF 26 CONSTRUCTED POOLS, 1 OF 10 REFERENCE POOLS. 1996: OBS IN 25 OF 26 CONSTRUCTED POOLS, 3 OF 10 REFERENCE POOLS. 1997: UNKNOWN NUMBER OBS ON 1/8 & 2/11.

PLSS: T07N, R06E, Sec. 19 (M)	Accuracy: specific area	Area (acres): 29
UTM: Zone-10 N4256646 E643504	Latitude/Longitude: 38.44658 / -121.35553	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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- Sources:**
- GIB95R0004 GIBSON & SKORDAL, WETLAND CONSULTANTS - MITIGATION MONITORING REPORT - PERRY RANCH/FALLBROOK (THIRD GROWING SEASON). 1995-09-XX
 - GIB96F0004 GIBSON & SKORDAL, WETLAND CONSULTANTS - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI AT PERRY RANCH/FALLBROOK. 1996-01-08
 - GIB96F0005 GIBSON & SKORDAL, WETLAND CONSULTANTS - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI AT PERRY RANCH/FALLBROOK. 1996-02-07
 - GIB96F0006 GIBSON & SKORDAL, WETLAND CONSULTANTS - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI AT PERRY RANCH/FALLBROOK. 1996-03-13
 - GIB96R0004 GIBSON & SKORDAL, WETLAND CONSULTANTS - ANNUAL REPORTING OF VERNAL POOL CRUSTACEAN SURVEY DATA - PERRY RANCH/FALLBROOK PROJECT (FOURTH GROWING SEASON) 1996-08-XX
 - GIB97F0001 GIBSON & SKORDAL, WETLAND CONSULTANTS - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1997-01-08
 - GIB97F0002 GIBSON & SKORDAL, WETLAND CONSULTANTS - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1997-02-11
 - GIB97F0003 GIBSON & SKORDAL, WETLAND CONSULTANTS - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1997-03-14



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33380	EO Index: 28755
Key Quad: Sacramento East (3812154)	Element Code: ICBRA03030
Occurrence Number: 122	Occurrence Last Updated: 2014-09-24

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1996-03-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1996-03-10	Occurrence Rank: Poor
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG RAILROAD RIGHT-OF-WAY, AT NORTH END OF 83RD STREET, 0.1 MILE NORTH OF INTERSECTION WITH 24TH AVENUE, SACRAMENTO.

Detailed Location:
LOCATED IN A SERIES OF PONDED DEPRESSIONS ALONG THE RAILROAD RIGHT-OF-WAY. SPECIMEN LOCALITY GIVEN AS "PONDED DEPRESSION #63 AT PROCTER AND GAMBLE RR TRACK, RIGHT OF WAY."

Ecological:
HABITAT CONSISTS OF PONDED DEPRESSIONS. OTHER RARE SPECIES FOUND INCLUDE BRANCHINECTA MESOVALLENSIS AND LINDERIELLA OCCIDENTALIS.

Threats:
CONSTANT DISTURBANCE BY RAILROAD TRUCKS AND OTHERS DRIVING THROUGH POOLED AREAS. ALSO TIRES AND DEBRIS IN POOLED AREAS.

General:
MORE THAN 50 INDIVIDUALS OBSERVED IN FIVE OF 27 DEPRESSIONS SAMPLED DURING SURVEYS CONDUCTED FROM 6 FEBRUARY TO 10 MARCH 1996. COLLECTIONS IN CAS (CASIZ #105591, 105593, 105594, AND 105596).

PLSS: T08N, R05E, Sec. 23 (M)	Accuracy: specific area	Area (acres): 6
UTM: Zone-10 N4266068 E639528	Latitude/Longitude: 38.53209 / -121.39920	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

MAR96F0001	MARTIN, D. (BIOTA) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI & LINDERIELLA OCCIDENTALIS 1996-03-10
MAR96S0007	MARTIN, D. - CASIZ #105591, 105593, 105594, & 105596, COLLECTED FROM "PONDED DEPRESSION[S]... AT PROCTOR AND GAMBLE RR TRACK, RIGHT OF WAY." 1996-03-10



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34789	EO Index: 14402
Key Quad: Rio Linda (3812164)	Element Code: ICBRA03030
Occurrence Number: 130	Occurrence Last Updated: 1996-06-18

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1992-04-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-04-01	Occurrence Rank: Unknown
Owner/Manager: PVT-UNION PACIFIC RR	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG UNION PACIFIC RAILROAD (USED TO BE WESTERN PACIFIC RR?); 0.2 MILE SOUTH OF ELKHORN BLVD, RIO LINDA.

Detailed Location:

Ecological:

Threats:

General:

KOFORD OBSERVED B. LYNCHI DURING SURVEY IN SPRING OF 1992; LINDERIELLA OCCIDENTALIS ALSO OBSERVED.

PLSS: T10N, R05E, Sec. 31 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4282605 E632253	Latitude/Longitude: 38.68218 / -121.47949	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 94757	EO Index: 95863
Key Quad: Sacramento East (3812154)	Element Code: ICBRA03030
Occurrence Number: 131	Occurrence Last Updated: 2014-12-29

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1992-04-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-04-03	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
INTERSECTION OF ELDER CREEK ROAD AND SOUTHERN PACIFIC TRACTION RAILROAD.

Detailed Location:
LOCALITY GIVEN AS "RAILROAD DITCH AT CORNER OF 47TH [=ELDER CREEK RD] AND SPTRR," IN TRS SEC 35.

Ecological:
RAILROAD DITCH.

Threats:

General:
DETECTED IN 1 OF 1 FEATURES SAMPLED ON 3 APR 1992 (SUGNET ID #69).

PLSS: T08N, R05E, Sec. 35 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4263661 E639314	Latitude/Longitude: 38.51043 / -121.40213	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

KOF92U0001	KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34812	EO Index: 29267	
Key Quad: Florin (3812144)	Element Code: ICBRA03030	
Occurrence Number: 138	Occurrence Last Updated: 2014-07-31	

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1997-01-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-01-14	Occurrence Rank: Unknown
Owner/Manager: PVT-GRUPE DEVELOPMENT CO	Trend: Unknown
Presence: Presumed Extant	

Location:
BETWEEN WESTERN PACIFIC RAILROAD AND I-5, SOUTH OF ELK GROVE BLVD AND NORTH OF BILBY ROAD, ELK GROVE.

Detailed Location:
ELLIOTT RANCH & ELK GROVE BLVD EXTENSION/I-5 INTERCHANGE MITIGATION SITES. 1995: 23 WETLANDS SURVEYED. 1996: 74 WETLANDS SURVEYED. LINDERIELLA OCCIDENTALIS AND/OR MIDVALLEY SHRIMP (BRANCHINECTA SP) ALSO PRESENT. 1997: 52 WETLANDS SAMPLED.

Ecological:
NATURAL AND CONSTRUCTED HARDPAN VERNAL POOLS IN NON-NATIVE ANNUAL GRASSLAND. WETLAND COMPENSATION/MITIGATION PRESERVE.

Threats:
General:
1995: 50+ ADULTS OBS IN 3 POOLS (VP101, VP221 & VPG2), 3 COLLECTED & DEPOSITED IN CAS CASIZ#103133,103130, & 103111). 1996: 50+ ADULTS OBS IN 27 POOLS. 1997: OBS IN 43 OF 52 SAMPLED WETLANDS. 1998: BRANCHINECTA SP OBS IN 11 POOLS.

PLSS: T06N, R05E, Sec. 06 (M)	Accuracy: specific area	Area (acres): 570
UTM: Zone-10 N4250798 E633934	Latitude/Longitude: 38.39538 / -121.46627	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Florin (3812144)
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- Sources:**
- KWA95S0001 KWAN, K. - CASIZ #103111, COLLECTED FROM "NE1/4 OF SW 1/4 SECTION 7; T6N R5E." 1995-02-14
 - KWA95S0003 KWAN, K. - CASIZ #103130, COLLECTED FROM "SW 1/4 OF SW 1/4 SECTION 5; T6N R5E." 1995-02-14
 - KWA95S0004 KWAN, K. - CASIZ #103133, COLLECTED FROM "NE 1/4 OF NW 1/4 SECTION 7; T6N R5E." 1995-02-14
 - SUG95R0001 SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX
 - SUG95R0002 SUGNET & ASSOCIATES - CORRECTIONS TO ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT #PRT-795933, 1994-95. 1995-10-30
 - SUG96R0001 SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED BRANCHIOPODS CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933. 1996-XX-XX
 - SUG97R0001 SUGNET & ASSOCIATES - 1997 ANNUAL REPORT TO THE U.S. FISH & WILDLIFE SERVICE REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NO. PRT-795933 1997-XX-XX
 - SUG97R0002 SUGNET & ASSOCIATES - 90-DAY REPORT OF FINDINGS REGARDING FEDERALLY-LISTED CRUSTACEA AT THE ELLIOTT RANCH MITIGATION SITE WATERFOWL STUDY AREA, SACRAMENTO COUNTY, CALIFORNIA 1997-05-03
 - SUG98R0003 SUGNET & ASSOCIATES - 90-DAY REPORT OF FINDINGS REGARDING FEDERALLY-LISTED CRUSTACEA AT THE ELLIOT RANCH MITIGATION SITE WATERFOWL STUDY AREA, SACRAMENTO COUNTY, CALIFORNIA. 1998-10-08



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 28339	EO Index: 29428
Key Quad: Rio Linda (3812164)	Element Code: ICBRA03030
Occurrence Number: 145	Occurrence Last Updated: 2014-08-25

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1995-01-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1995-01-14	Occurrence Rank: Poor
Owner/Manager: PVT-WESTERN PACIFIC RR	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG NATOMAS EAST MAIN DRAINAGE CANAL, WEST OF WESTERN AVENUE, BETWEEN SOUTH AVENUE AND SILVER EAGLE ROAD, SACRAMENTO.

Detailed Location:
EAST SIDE OF LEVEE ROAD, WEST SIDE OF WESTERN PACIFIC RAILROAD TRACKS IN RIGHT-OF-WAY.

Ecological:
LONG POOL (14 FEET WIDE AND 275 FEET LONG, DEPTH=0.15 M) IN TIRE RUTS FROM VEHICLES. VERY TURBID WATER. FLAT, INUNDATED AREA DEVOID OF VEGETATION. SANDY CLAY LOAM SOIL.

Threats:
MAINTENANCE ROAD FOR WESTERN PACIFIC RAILROAD, AREA IMPACTED BY SACRAMENTO AREA FLOOD CONTROL AGENCY (1995).

General:
2 SITES IN SAME POOL SAMPLED 14 JAN 1995. AT SOUTH SITE FEWER THAN 50 ADULTS WERE OBSERVED, AT NORTH SITE MORE THAN 50 ADULTS WERE OBSERVED. VOUCHER SPECIMENS COLLECTED AND DEPOSITED IN CAS (CASIZ #106792).

PLSS: T09N, R05E, Sec. 03 (M)	Accuracy: specific area	Area (acres): 15
UTM: Zone-10 N4277052 E633139	Latitude/Longitude: 38.63202 / -121.47038	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

WAL95F0003	WALKER, R. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1995-01-14
WAL95F0004	WALKER, R. (EIP ASSOCIATES) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1995-01-14
WAL95S0019	WALKER, R. & D. WOLFF - CASIZ #106792, COLLECTED FROM "LONG NARROW POOL EAST OF NEMOC, WEST OF RAILROAD TRACKS, 200 FT. NORTH OF SILVER EAGLE RD. BRIDGE." 1995-01-14



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	28338	EO Index:	29427
Key Quad:	Rio Linda (3812164)	Element Code:	ICBRA03030
Occurrence Number:	146	Occurrence Last Updated:	1996-09-24

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	1995-02-22	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1995-02-22	Occurrence Rank:	Good
Owner/Manager:	CITY OF SACRAMENTO	Trend:	Unknown
Presence:	Presumed Extant		

Location:
APPROX. 1500 FEET NORTHEAST OF NATOMAS EAST MAIN DRAINAGE CANAL AT DRY CREEK; 700 FEET SE OF ASCOT AVE AT WEST 6TH ST.

Detailed Location:
Ecological:
SEASONAL POND (500 FEET LONG X 45 FEET WIDE), AVERAGE DEPTH=6 INCHES; MAX. DEPTH=20 INCHES; TEMP=21.5 DEGREES CELSIUS; TURBIDITY=98%; CONDUCTIVITY=98 MICROHMS/CM.

Threats:
CATTLE GRAZING AND CITY PLANS FOR GOLF COURSE DEVELOPMENT (HANSEN RANCH).

General:
<10 ADULTS OBSERVED IN POND, NO VOUCHER SPECIMENS TAKEN.

PLSS:	T09N, R05E, Sec. 05 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4281035 E632742	Latitude/Longitude:	38.66796 / -121.47418	Elevation (feet):	20

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
WAL95F0005 WALKER, R. (EIP ASSOCIATES) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1995-02-22



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30622	EO Index: 30615
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030
Occurrence Number: 160	Occurrence Last Updated: 2015-03-04

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1993-03-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-03-02	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
VICINITY OF GRANT LINE ROAD AT MOSHER RD INTERSECTION, ABOUT 1.25 MILES NE OF I-99 AT GRANT LINE, ELK GROVE.

Detailed Location:
1993: LOCATION GIVEN AS T6N R6E SEC 8 (MOST LIKELY NW QUARTER OF SEC 8 WEST OF GRANT LINE). 2005 DRY-SEASON SURVEY & 2006 WET-SEASON SURVEY OF PROPERTY IN THE NE 1/4 NW 1/4 SECTION 8 FOUND NO B. LYNCHI.

Ecological:
NATURAL SEASONAL WETLANDS. AERIAL PHOTOS SHOW DEVELOPMENT IN THE NW 1/4 OF SECTION 8 SINCE THE 1993 AND 2006 SURVEYS.

Threats:
General:
B. LYNCHI OBSERVED IN 1 OF 8 FEATURES INSPECTED ON 2 FEB & 2 MAR 1993 (SUGNET RECORD NUMBERS 46 & 47). NONE FOUND IN 2005 OR 2006.

PLSS: T06N, R06E, Sec. 08 (M)	Accuracy: 3/5 mile	Area (acres): 0
UTM: Zone-10 N4250327 E644472	Latitude/Longitude: 38.38950 / -121.34574	Elevation (feet): 50

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

HEL05U0008	HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE FIELDSTONE SOUTH PROPERTY. 2005-11-XX
HEL06U0010	HELM, B. - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE FIELDSTONE SOUTH PROPERTY. 2006-05-XX
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33873	EO Index: 30426	
Key Quad: Florin (3812144)	Element Code: ICBRA03030	
Occurrence Number: 161	Occurrence Last Updated: 2015-05-18	

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2013-01-16	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2013-01-16	Occurrence Rank: Fair
Owner/Manager: SRCSD-BUFFERLANDS, PG&E, PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG WESTERN PACIFIC RAILROAD TRACKS, FROM LAGUNA CREEK (UNION HOUSE CREEK) SOUTH TO SIMS RD, 2.25 MI ESE OF FREEPORT.

Detailed Location:
MAPPED TO LAT/LONG GIVEN FOR 2012-13 DETECTIONS AND SPECIMEN LOCALITIES "SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT, E OF PLANT, W OF [RR TRACKS]" (OR SIMILAR). 1999/2000 DETECTIONS IN SRWTP BUFFERLANDS PRESERVE, EXACT LOCATION UNKNOWN.

Ecological:
1999/2000: NATURAL VERNAL POOLS ON 732 ACRE PRESERVE. 2012/2013: GRASSY-BOTTOMED DEPRESSIONS ON BOTH SIDES OF RAILROAD TRACKS, 2-20 INCHES DEEP; SOME POOLS INVADDED BY WEEDS. LEPIDURUS PACKARDI & LINDERIELLA OCCIDENTALIS CO-OCCURRED.

Threats:
UTILITY AND RAILROAD MAINTENANCE, ORV TRAFFIC, WEEDS (2012).

General:
REPORTEDLY DETECTED PRIOR TO 1993. COLLECTED JAN 1995 (CASIZ #103316, 104239) & APR 1998 (#115430, 115431). DETECTED, 1999-2000. 600 FOUND IN 5 BASINS, DEC 2012-JAN 2013 (4 BASINS MAPPED HERE, SEE ALSO OCC#671); COLLECTED (CASIZ #192828).

PLSS: T07N, R05E, Sec. 20 (M)	Accuracy: nonspecific area	Area (acres): 33
UTM: Zone-10 N4256403 E634460	Latitude/Longitude: 38.44580 / -121.45917	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

LEA93F0010	LEACH, S. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1993-02-23
PET00F0001	PETRASH, S. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2000-XX-XX
PIM12F0001	PIMENTEL, E. (AECOM) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2012-12-28
PIM12S0001	PIMENTEL, E. - CASIZ #192828, COLLECTED FROM SACRAMENTO COUNTY, (35.4405114 [SIC], -121.45806). 2012-12-28
SLO98S0001	SLOAT, T. - CASIZ #115430 & 115431, COLLECTED AT "I-5 ON LAGUNA BLVD. ON FRANKLIN BLVD TO THE SACRAMENTO WASTE WATER TREATMENT PLANT." 1998-04-04
WAL95S0015	WALKER, R. & R. KOFORD - CASIZ #104239, COLLECTED "EAST OF SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT, WEST OF WESTERN UNION RAILROAD TRACKS, 400 FEET NORTH OF PLANT ENTRANCE." 1995-01-06
WAL95S0020	WALKER, R. & E. KOFORD - CASIZ #103316, COLLECTED FROM "SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT, EAST OF PLANT, WEST OF UNION PACIFIC RAILROAD TRACKS." 1995-01-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93676	EO Index: 30621
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030
Occurrence Number: 162	Occurrence Last Updated: 2014-09-04

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1993-02-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-02-12	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
BETWEEN GERBER ROAD AND FLORIN ROAD, WEST OF BRADSHAW ROAD, SE OF SACRAMENTO.

Detailed Location:
DETECTION LOCATION DESCRIBED ONLY AS T7N, R6E, SECTION 5. EXACT LOCATION NOT GIVEN.

Ecological:
HABITAT CHARACTERIZED AS "MANMADE OTHER."

Threats:
General:

OBSERVED IN THE 1 FEATURE SURVEYED IN SECTION 5 (SUGNET RECORD #60) ON 12 FEB 1993.

PLSS: T07N, R06E, Sec. 05 (M)	Accuracy: nonspecific area	Area (acres): 621
UTM: Zone-10 N4261347 E644423	Latitude/Longitude: 38.48877 / -121.34403	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
SUG93U0001 SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33687	EO Index: 30619
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030
Occurrence Number: 163	Occurrence Last Updated: 2015-03-03

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1993-02-06	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-02-06	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
EAST OF ELK GROVE-FLORIN ROAD, WEST OF EXCELSIOR RD, AND NORTH OF SHELDON RD, NNE OF ELK GROVE.

Detailed Location:
VERNAL POOLS LOCATED SOMEWHERE IN SECTIONS 17 & 19. A PORTION OF SEC 17 APPEARS TO BE PROTECTED (EO #343) AND A PORTION OF SEC 19 APPEARS TO BE PROTECTED (EO #100).

Ecological:
NATURAL VERNAL POOLS. AERIAL PHOTOS SHOW EXTENSIVE RESIDENTIAL DEVELOPMENT IN THE AREA SINCE THE TIME OF SURVEY. A PORTION OF SEC 17 APPEARS TO BE PROTECTED (EO #343) AND A PORTION OF SEC 19 APPEARS TO BE PROTECTED (EO #100).

Threats:
DEVELOPMENT MAY HAVE ELIMINATED HABITAT.

General:
OBSERVED IN 1 FEATURE INSPECTED IN SECTION 17 ON 23 JAN 1993, AND IN 1 FEATURE INSPECTED IN SECTION 19 ON 6 FEB 1993. SUGNET RECORD NUMBERS 62 & 64.

PLSS: T07N, R06E, Sec. 17 (M)	Accuracy: nonspecific area	Area (acres): 1,133
UTM: Zone-10 N4257557 E643865	Latitude/Longitude: 38.45473 / -121.35121	Elevation (feet): 65

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
SUG93U0001 SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33688	EO Index: 30617
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030
Occurrence Number: 164	Occurrence Last Updated: 1997-03-07

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1993-03-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-03-02	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH OF ELK GROVE BLVD, SOUTH OF BOND ROAD, EAST OF WATERMAN RD, AND WEST OF BRADSHAW ROAD, EAST OF ELK GROVE.

Detailed Location:
VERNAL POOLS AND SEASONAL WETLANDS LOCATED SOMEWHERE IN SECTION 32.

Ecological:
NATURAL VERNAL POOLS AND NATURAL SEASONAL WETLANDS.

Threats:
General:
B. LYNCHI OBSERVED IN 19 OF 24 INSPECTED VERNAL POOLS AND 2 OF 13 INSPECTED SEASONAL WETLANDS ON 2/2/93, AND IN 1 OF 23 INSPECTED VERNAL POOLS ON 3/2/93. SUGNET RECORD NUMBERS 65, 66, & 67.

PLSS: T07N, R06E, Sec. 32 (M)	Accuracy: 3/5 mile	Area (acres): 0
UTM: Zone-10 N4253310 E644573	Latitude/Longitude: 38.41635 / -121.34397	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
SUG93U0001 SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	33694	EO Index:	30606
Key Quad:	Rio Linda (3812164)	Element Code:	ICBRA03030
Occurrence Number:	167	Occurrence Last Updated:	1997-03-20

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	1992-04-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1992-04-01	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 SOUTH OF ELKHORN BLVD, WEST OF WEST 6TH ST, EAST OF NATOMAS EAST MAIN DRAINAGE CANAL, SOUTHWEST OF RIO LINDA.

Detailed Location:
 LOCATED SOMEWHERE IN SECTION 31.

Ecological:
 MANMADE ROADSIDE DITCH.

Threats:
General:
 UNKNOWN NUMBER OF B. LYNCHI OBSERVED IN THE ONE FEATURE INSPECTED. SUGNET RECORD #82. NO LEPIDURUS PACKARDI OBSERVED.

PLSS:	T10N, R05E, Sec. 31 (M)	Accuracy:	nonspecific area	Area (acres):	301
UTM:	Zone-10 N4282147 E632236	Latitude/Longitude:	38.67805 / -121.47978	Elevation (feet):	30

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
 SUG93U0001 SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	36116	EO Index:	31113
Key Quad:	Rio Linda (3812164)	Element Code:	ICBRA03030
Occurrence Number:	182	Occurrence Last Updated:	1997-07-15

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	1997-01-22	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1997-01-22	Occurrence Rank:	Good
Owner/Manager:	WESTERN AREA POWER ADMIN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
0.25 MILE SOUTH OF ELVERTA ROAD AND 0.4 MILE EAST OF SORENTO ROAD, WEST OF ELVERTA.

Detailed Location:

Ecological:
HABITAT CONSISTS OF A VERNAL POOL (12-14 IN DEEP); ASSOCIATED PLANT SPECIES INCLUDE CALLITRICHE MARGINATA, ELEOCHARIS MACROSTACHYA, LASTHENIA GLABRATA, LILEA SCILLOIDES, LIMNANTHES ALBA, AND OTHERS. LINDERIELLA OCCIDENTALIS ALSO PRESENT.

Threats:
POSSIBLY THREATENED BY CONTAMINATED RUNOFF FROM A CEMENT MIXING FACILITY SE OF THE SITE.

General:
30 ADULTS OBSERVED ON 22 JAN 1997.

PLSS: T10N, R05E, Sec. 19 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4285824 E632363	Latitude/Longitude: 38.71116 / -121.47762	Elevation (feet): 31

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
LEA97F0001 LEACH, S. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1997-01-22



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	36806	EO Index:	31803
Key Quad:	Carmichael (3812153)	Element Code:	ICBRA03030
Occurrence Number:	185	Occurrence Last Updated:	2015-04-30

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	1991-04-06	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1991-04-06	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
0.25 MILE EAST OF THE INTERSECTION OF EXCELSIOR ROAD AND JACKSON HIGHWAY, SOUTH OF (OLD) MATHER AIR FORCE BASE.

Detailed Location:
LOCATED ON THE NORTH SIDE OF JACKSON HIGHWAY.

Ecological:
HABITAT CONSISTS OF VERNAL POOLS.

Threats:
General:
UNKNOWN NUMBER COLLECTED BY CHRIS NAGANO AND JAMIE KING; SENT TO DENTON BELK (DB #990) FOR IDENTIFICATION.

PLSS: T08N, R06E, Sec. 26 (M)	Accuracy: 1/10 mile	Area (acres):	0
UTM: Zone-10 N4264728 E648763	Latitude/Longitude: 38.51852 / -121.29357	Elevation (feet):	115

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
BEL94U0001 BELK, D. - DENTON BELK'S COLLECTION CARDS FOR BRANCHINECTA LYNCHI, COLLECTED 1991-94 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 36807	EO Index: 31804
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030
Occurrence Number: 186	Occurrence Last Updated: 2014-12-18

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1991-04-06	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-04-06	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
GENE ANDAL PARK, 0.7 MILE ESE OF THE INTERSECTION OF EXCELSIOR ROAD AND FLORIN ROAD, SE OF SACRAMENTO.

Detailed Location:
1991 LOCALITY GIVEN AS "SOUTH OF MATHER AIR FORCE BASE, MULTI-CULTURE PARK (FORMERLY FLORIN PARK);" T7N R6E SEC 2; EXACT COLLECTION LOCATION UNKNOWN. MAPPED TO COORDINATES GIVEN FOR 2010 DETECTION.

Ecological:
2010: ISOLATED VERNAL POOL IN AREA PRESERVED AS A COUNTY PARK.

Threats:
General:
19 COLLECTED BY CHRIS NAGANO AND JAMIE KING ON 6 APRIL 1991; IDENTIFIED BY DENTON BELK (DB #991, USNM #1072678). ABOUT 10 DIP-NETTED ON 21 FEB 2010.

PLSS: T07N, R06E, Sec. 02 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4261914 E649565	Latitude/Longitude: 38.49304 / -121.28498	Elevation (feet): 100

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

BEL94U0001	BELK, D. - DENTON BELK'S COLLECTION CARDS FOR BRANCHINECTA LYNCHI, COLLECTED 1991-94 1994-XX-XX
CAL10F0002	CALDERARO, A. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2010-02-21
NAG91S0001	NAGANO, C. & J. KING - USNM #1072678, COLLECTED "SOUTH OF MATHER AIR FORCE BASE, MULTI-CULTURE PARK (FORMERLY FLORIN PARK)." 1991-04-06



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	36815	EO Index:	31812
Key Quad:	Florin (3812144)	Element Code:	ICBRA03030
Occurrence Number:	187	Occurrence Last Updated:	2014-07-31

Scientific Name:	<i>Branchinecta lynchi</i>		
Common Name:	vernal pool fairy shrimp		
Listing Status:	Federal:	Threatened	Rare Plant Rank:
	State:	None	Other Lists:
			IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global:	G3	
	State:	S2S3	

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	1993-02-04	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1993-02-04	Occurrence Rank:	None
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Extirpated		

Location:
UP TO 2 MILES EAST OF I-5, 4 MILES SOUTH OF SACRAMENTO.

Detailed Location:
TRS GIVEN FOR 1991 COLLECTIONS WAS SOUTH HALF OF T7N R5E SEC 31, BUT DESCRIBED AS "2 MILES EAST OF INTERSTATE 5" WHICH WOULD BE SEC 32 OR 33. 1993 DETECTION LOCATION GIVEN AS T7N R5E SEC 32.

Ecological:
Threats:
2008 AERIAL PHOTO SHOWS THAT THIS AREA HAS BEEN COMPLETELY DEVELOPED.

General:
AT LEAST 15 COLLECTED ON 13 MAR 1991 (DB #1019, 1021, 1022, 1024; USNM #1072653). FOUND IN 1 OF 4 POOLS IN SECTION 32, 4 FEB 1993 (SUGNET #57).

PLSS:	T07N, R05E, Sec. 32 (M)	Accuracy:	nonspecific area	Area (acres):	953
UTM:	Zone-10 N4252753 E634254	Latitude/Longitude:	38.41294 / -121.46223	Elevation (feet):	10

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

BEL94U0001	BELK, D. - DENTON BELK'S COLLECTION CARDS FOR BRANCHINECTA LYNCHI, COLLECTED 1991-94 1994-XX-XX
MUT91S0001	MUTH, D. - USNM #1072653, COLLECTED "4.0 MILES SOUTH OF SACRAMENTO, 2 MILES EAST OF INTERSTATE 5." 1991-03-13
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33693	EO Index: 42057
Key Quad: Carmichael (3812153)	Element Code: ICBRA03030
Occurrence Number: 228	Occurrence Last Updated: 2014-08-29

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2011-02-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-02-12	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO PRAIRIE VERNAL POOL PRESERVE & ARROYO SECO MITIGATION BANK; FROM 0.6-1.1 MI NE OF EXCELSIOR RD AT FLORIN RD.

Detailed Location:
1998 DETECTIONS ON COUNTY'S ARROYO SECO (OR FLORIN) MITIGATION BANK SITE (S HALF OF SECTION). 2005, 2008, 2011 DETECTIONS ON SACRAMENTO VALLEY CONSERVANCY'S KASSIS PARCEL, SACRAMENTO PRAIRIE VERNAL POOL PRESERVE (N HALF OF SECTION).

Ecological:
NATURAL VERNAL POOLS IN AREA CHARACTERIZED BY GENTLY ROLLING TOPOGRAPHY, GRAZED ANNUAL GRASSLAND. LINDERIELLA OCCIDENTALIS, CYZICUS CALIFORNICUS, & LEPIDURUS PACKARDI ALSO FOUND.

Threats:
THE GRASS GLYCERIA DECLINATA IS BECOMING PROBLEMATIC IN THE GENERAL AREA (2005).

General:
HUNDREDS OBSERVED IN MITIGATION BANK, SURVEYED 28 JAN 1998. FOUND IN 5 POOLS (2 MAPPED HERE), FEB 2005. FOUND IN LOW TO MEDIUM ABUNDANCE IN 13 POOLS IN 2008 AND 2011.

PLSS: T08N, R06E, Sec. 35 (M)	Accuracy: specific area	Area (acres): 70
UTM: Zone-10 N4263150 E649617	Latitude/Longitude: 38.50416 / -121.28412	Elevation (feet): 115

County Summary: Sacramento	Quad Summary: Elk Grove (3812143), Carmichael (3812153)
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Sources:

WHI98F0003	WHITNEY, K. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI (VERNAL POOL FAIRY SHRIMP) 1998-01-28
WIT05F0001	WITHAM, C. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI. ATTACHED TO REPORT, WIT05R01. 2005-02-20
WIT05R0001	WITHAM, C. - SACRAMENTO PRAIRIE VERNAL POOL PRESERVE, SPECIAL STATUS CRUSTACEAN LOCATIONS. 2005-05-17
WIT08F0006	WITHAM, C. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI & BRANCHINECTA MESOVALLENSIS & LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 2008-02-18
WIT11U0005	WITHAM, C. - KASSIS AND SYLVA PARCELS, BRANCHIOPOD MONITORING, 90-DAY REPORT, RECOVERY PERMITS TE-799570-3, 2010-TA-0243 2011-05-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	46122	EO Index:	46122
Key Quad:	Florin (3812144)	Element Code:	ICBRA03030
Occurrence Number:	312	Occurrence Last Updated:	2014-12-30

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	2001-03-11	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2001-03-11	Occurrence Rank:	None
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
 NW ELK GROVE; ABOUT 0.75 MILES SE OF HIGHWAY 99 AT SHELDON RD, ALONG SHORTLINE LN.

Detailed Location:
 EAST SIDE OF ROAD, VERNAL POOL 10.

Ecological:
 VERNAL POOLS AND SEASONAL WETLANDS ON DISKED FIELDS. PLANT SPECIES INCLUDED ANNUAL GRASSES, WITH CARTER'S BUTTERCUP, WINGED WATER-STARWORT, SLENDER POPCORN FLOWER IN POOLS. DEVELOPMENT

Threats:
 AERIAL PHOTOS SINCE 2001 SHOW DEVELOPMENT ON EAST SIDE OF ROAD (SHELDON ESTATES PROJECT).

General:
 FEWER THAN 100 INDIVIDUALS OBSERVED ON 11 MAR 2001, 8 COLLECTED (CASIZ #158787).

PLSS:	T07N, R05E, Sec. 25 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4255371 E640723	Latitude/Longitude:	38.43553 / -121.38764	Elevation (feet):	30

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

CAP01S0003	CAPELL, S. - CASIZ #158787, COLLECTED "BETWEEN STATE HIGHWAY 99 & ELK GROVE FLORIN RD. IN SOUTHERN SACRAMENTO CO." 2001-03-11
ECO01R0001	ECORP CONSULTING, INC. - ANNUAL REPORT OF FINDINGS REGARDING FEDERALLY-LISTED CRUSTACEA FOR SHELDON ESTATES II 2001-07-25
RAM01F0005	RAMONES, S. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2001-03-11



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	48381	EO Index:	48381
Key Quad:	Carmichael (3812153)	Element Code:	ICBRA03030
Occurrence Number:	321	Occurrence Last Updated:	2002-07-29

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	2002-01-12	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-01-31	Occurrence Rank:	Unknown
Owner/Manager:	SAC COUNTY-PARKS & REC	Trend:	Unknown
Presence:	Presumed Extant		

Location:
MATHER LAKE REGIONAL PARK, NE SIDE OF MATHER LAKE, SOUTH OF DOUGLAS ROAD AND WEST OF SUNRISE BLVD.

Detailed Location:
OBSERVED IN ALL OF THE SAMPLED WETLANDS (A, B, C, D, E, F AND G).

Ecological:
HABITAT CONSISTS OF ANNUAL GRASSLAND DOMINATED BY NON-NATIVE PLANTS WITH NATURALLY OCCURRING & POSSIBLY ARTIFICIAL SEASONAL WETLANDS, INCLUDING VERNAL POOLS. PLANTS WITHIN WETLANDS: CARTER'S BUTTERCUP, WINGED WATER-STARWORT, POPCORN FLOWER.

Threats:
General:
INDIVIDUALS OBSERVED ON 12 JAN 2002. VOUCHER SPECIMENS TO BE COLLECTED ON 31 JAN 2002, HOWEVER NO INDIVIDULAS WERE OBSERVED.

PLSS: T08N, R07E, Sec. 07 (M)	Accuracy: specific area	Area (acres): 16
UTM: Zone-10 N4269103 E652367	Latitude/Longitude: 38.55732 / -121.25130	Elevation (feet): 135

County Summary:	Quad Summary:
Sacramento	Buffalo Creek (3812152), Carmichael (3812153)

Sources:
ECO02R0002 ECORP CONSULTING, INC. - ANNUAL REPORT OF FINDINGS REGARDING FEDERALLY-LISTED BRANCHIOPODS FOR MATHER LAKE REGIONAL PARK, SACRAMENTO COUNTY, CALIFORNIA. 2002-04-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	46127	EO Index:	48530
Key Quad:	Elk Grove (3812143)	Element Code:	ICBRA03030
Occurrence Number:	343	Occurrence Last Updated:	2004-08-19

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	2002-01-21	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2004-XX-XX	Occurrence Rank:	Excellent
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 CHURCHILL DOWNS WETLAND PRESERVE, 4 MILES NNE OF ELK GROVE.

Detailed Location:
 1 MILE SOUTH GERBER ROAD, 0.5 MILE NORTH OF CALVINE RD AND EXTENDING 0.4 MILE WEST OF BRADSHAW RD. INDIVIDUALS DETECTED IN POOL NUMBERS 12 & 15 (NE 1/4 OF THE NE 1/4 OF SECTION 17).

Ecological:
 HABITAT CONSISTS OF A VERNAL POOL IN A GRASSLAND. LINDERIELLA OCCIDENTALIS AND LEPIDURUS PACKARDI ALSO IN VICINITY.

Threats:
General:
 10'S OBSERVED IN POOL 12 AND 1000'S OBSERVED IN POOL 15 ON 21 JAN 2002. NONE OBSERVED IN JAN AND MAR 2003 SURVEYS. SPECIES NOT OBSERVED IN 2004.

PLSS: T07N, R06E, Sec. 17 (M)	Accuracy: nonspecific area	Area (acres):	94
UTM: Zone-10 N4258529 E645058	Latitude/Longitude: 38.46329 / -121.33734	Elevation (feet):	65

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

ECO02F0003	ECORP CONSULTING, INC. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2002-01-21
ECO02F0004	ECORP CONSULTING, INC. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2002-01-21
ECO02R0008	ECORP CONSULTING, INC. - ANNUAL REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE. 2002-04-16
ECO03R0002	ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE 2003-06-06
ECO04R0001	ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE (SACRAMENTO COUNTY, CALIFORNIA) 2004-06-02



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 48534	EO Index: 48536
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030
Occurrence Number: 344	Occurrence Last Updated: 2004-08-19

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed: 2004-03-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-03-04	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
 CHURCHILL DOWNS WETLAND PRESERVE, 4.5 MILES NORTH OF ELK GROVE.

Detailed Location:
 0.5 MILE SOUTH OF GERBER RD, 1.2 MILES NORTH OF CALVINE RD AND 0.5 MILE EAST OF ELK GROVE FLORIN RD. INDIVIDUALS OBSERVED IN POOL NUMBER 9 (NE 1/4 OF THE SE 1/4 OF SECTION 7).

Ecological:
 HABITAT CONSISTS OF A VERNAL POOL WITHIN A GRASSLAND. LINDERIELLA OCCIDENTALIS AND LEPIDURUS PACKARDI ALSO IN VICINITY.

Threats:

General:

10'S OBSERVED IN POOL NUMBER 9 ON 21 JAN 2002. NONE OBSERVED IN JAN AND MAR 2003 SURVEYS. 10'S OBSERVED IN POOLS 4 AND 5 ON 4 MAR 2004.

PLSS: T07N, R06E, Sec. 07 (M)	Accuracy: nonspecific area	Area (acres): 55
UTM: Zone-10 N4259578 E643059	Latitude/Longitude: 38.47306 / -121.36003	Elevation (feet): 50

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

- Sources:**
- ECO02F0007 ECORP CONSULTING, INC. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2002-01-21
 - ECO02R0008 ECORP CONSULTING, INC. - ANNUAL REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE. 2002-04-16
 - ECO03R0002 ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE 2003-06-06
 - ECO04F0002 ECORP CONSULTING, INC. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI - POOL 5. 2004-03-04
 - ECO04F0003 ECORP CONSULTING, INC. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2004-03-04
 - ECO04R0001 ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE (SACRAMENTO COUNTY, CALIFORNIA) 2004-06-02



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64356	EO Index: 64435
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030
Occurrence Number: 414	Occurrence Last Updated: 2014-08-29

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2011-02-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-02-12	Occurrence Rank: Excellent
Owner/Manager: PVT-SACRAMENTO VLY CONSERVANCY	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO PRAIRIE VERNAL POOL PRESERVE; ABOUT 150' TO 0.5 MI NORTH OF FLORIN ROAD, 0.6 MI WEST OF EAGLES NEST RD.

Detailed Location:
MAPPED TO LOCATIONS OF OCCUPIED POOLS ON SYLVA PARCEL OF SACRAMENTO VALLEY CONSERVANCY'S SACRAMENTO PRAIRIE VERNAL POOL PRESERVE.

Ecological:
NATURAL VERNAL POOLS IN AREA CHARACTERIZED BY GENTLY ROLLING TOPOGRAPHY, GRAZED ANNUAL GRASSLAND. LINDERIELLA OCCIDENTALIS, CYZICUS CALIFORNICUS, & LEPIDURUS PACKARDI ALSO FOUND.

Threats:
THE GRASS GLYCERIA DECLINATA IS BECOMING PROBLEMATIC IN THE GENERAL AREA (2005).

General:
FOUND IN 5 POOLS (3 MAPPED HERE), FEB 2005. FOUND IN LOW TO MEDIUM ABUNDANCE IN 19 POOLS IN 2008 AND 2011.

PLSS: T08N, R06E, Sec. 36 (M)	Accuracy: specific area	Area (acres): 32
UTM: Zone-10 N4262659 E650574	Latitude/Longitude: 38.49957 / -121.27325	Elevation (feet): 120

County Summary: Sacramento	Quad Summary: Elk Grove (3812143), Carmichael (3812153)
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Sources:

WIT05F0001	WITHAM, C. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI. ATTACHED TO REPORT, WIT05R01. 2005-02-20
WIT05R0001	WITHAM, C. - SACRAMENTO PRAIRIE VERNAL POOL PRESERVE, SPECIAL STATUS CRUSTACEAN LOCATIONS. 2005-05-17
WIT08F0006	WITHAM, C. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI & BRANCHINECTA MESOVALLENSIS & LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 2008-02-18
WIT11U0005	WITHAM, C. - KASSIS AND SYLVA PARCELS, BRANCHIOPOD MONITORING, 90-DAY REPORT, RECOVERY PERMITS TE-799570-3, 2010-TA-0243 2011-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 66815	EO Index: 66972
Key Quad: Rio Linda (3812164)	Element Code: ICBRA03030
Occurrence Number: 420	Occurrence Last Updated: 2014-11-19

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2006-01-06	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-01-06	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.35 MILES WEST OF PALLADAY ROAD AND 0.58 MILES SOUTH OF BASE LINE ROAD.

Detailed Location:
MAPPED TO LOCATION OF 2006 DETECTION AT VP-29. POOL SW-57 IN WHICH CYSTS FOUND IN 2005 ABOUT 0.5 MILES TO SW (NOT MAPPED).

Ecological:
SITE CONSISTS OF ANNUAL GRASSLAND COMPRISED OF NATURALIZED MEDITERRANEAN GRASSES AND NUMEROUS ASSOCIATED VERNAL POOLS (OVER 200), SEASONAL WETLANDS, AND SEASONAL WETLAND SWALES.

Threats:
COMMERCIAL & RESIDENTIAL DEVELOPMENT. SITE IS DISTURBED BY DUMPED GARBAGE AND NUMEROUS TIRE TRACKS FROM ORV ACTIVITY.

General:
BRANCHINECTA CYSTS FOUND IN POOL SW-57 ON 11 OCT 2005 (NOT IDED TO SPECIES). ABOUT 10 ADULTS OBSERVED IN VP-29 ON 6 JAN 2006.

PLSS: T10N, R05E, Sec. 09 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4289428 E635107	Latitude/Longitude: 38.74321 / -121.44536	Elevation (feet): 63

County Summary: Placer	Quad Summary: Rio Linda (3812164)
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Sources:

BEC05F0002	BECCIO, M. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2005-10-11
BEC06F0007	BECCIO, M. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2006-01-06



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 66816	EO Index: 66973
Key Quad: Rio Linda (3812164)	Element Code: ICBRA03030
Occurrence Number: 421	Occurrence Last Updated: 2015-01-07

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2006-01-05	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-01-05	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST EAST OF LOCUST ROAD ABOUT 0.63 MILE SOUTH OF BASE LINE ROAD.

Detailed Location:
MAPPED TO SW-57, WHERE ADULTS WERE DETECTED IN 2006. LOCATION OF BASIN WHERE CYSTS WERE FOUND IN 2005 WAS TO THE SOUTHEAST (NOT MAPPED).

Ecological:
NON-NATIVE ANNUAL GRASSLAND WITH NUMEROUS ASSOCIATED VERNAL POOLS (OVER 200), SEASONAL WETLANDS, AND SEASONAL WETLAND SWALES. SITE APPEARS TO BE DISKED ANNUALLY FOR VEGETATION CONTROL.

Threats:
COMMERCIAL AND RESIDENTIAL DEVELOPMENT. DISTURBANCE FROM GARBAGE DUMPING AND ORV ACTIVITY.

General:
BRANCHINECTA CYSTS FOUND IN 1 BASIN ON 11 OCT 2005 (NOT IDED TO SPECIES). ABOUT 1000 ADULTS OBSERVED IN SW-281 AREA, 6 JAN 2006.

PLSS: T10N, R05E, Sec. 08 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4289432 E633579	Latitude/Longitude: 38.74347 / -121.46294	Elevation (feet): 48

County Summary:	Quad Summary:
Placer	Rio Linda (3812164)

Sources:

BEC05F0002	BECCIO, M. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2005-10-11
BEC06F0006	BECCIO, M. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2006-01-05



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 68132	EO Index: 68276	
Key Quad: Rio Linda (3812164)	Element Code: ICBRA03030	
Occurrence Number: 429	Occurrence Last Updated: 2014-08-26	

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2007-07-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-07-26	Occurrence Rank: Fair
Owner/Manager: PVT-MCCLELLAN PARK	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG THE RR TRACKS ON NW SIDE OF ROSEVILLE RD ABOUT 450' N OF THE I-80 OVERPASS, 0.6 MI S OF DUDLEY BLVD AT FORCUM AVE.

Detailed Location:
MCCLELLAN BUSINESS PARK. MAPPED TO GIVEN COORDINATES FOR POOLS #9 AND 32.

Ecological:
DISTURBED RR/ROADSIDE DITCHES SURROUNDED BY NON-NATIVE GRASSLAND IN AN INDUSTRIAL AREA OF FORMER MCCLELLAN AIR FORCE BASE. LINDERIELLA OCCIDENTALIS PRESENT. DISTURBANCE FROM TRASH, TRANSIENTS, & OIL NOTED.

Threats:
General:
ABOUT 200 ADULTS & 50 JUVENILES FOUND IN POOL #9 ON 8 JAN 2007; OF 10 VOUCHERS COLLECTED, 9 ARE IN CAS (CASIZ #174967). NONE FOUND IN POOL 32 DURING WET SURVEY, BUT 1000S OF CYSTS DETECTED ON 27 JUL 2007; 25 IDENTIFIED IN CAS (CASIZ#175318).

PLSS: T09N, R05E, Sec. 14 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4277878 E638745	Latitude/Longitude: 38.63860 / -121.40582	Elevation (feet): 59

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

MAR07F0002	MARTIN, D. (BIOTA) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2007-01-08
MAR07F0020	MARTIN, D. (BIOTA) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2007-07-27
MAR07S0006	MARTIN, D. - CASIZ #174967, COLLECTED FROM "RAILROAD SIDE DITCH, POOL #9." 2007-01-08
MAR07S0007	MARTIN, D. - CASIZ #175318, COLLECTED FROM "MCCLELLAN BUSINESS PARK, POOL #32." 2007-07-26



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 69255	EO Index: 70036
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030
Occurrence Number: 532	Occurrence Last Updated: 2015-01-09

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2013-03-29	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2013-03-29	Occurrence Rank: Excellent
Owner/Manager: ENVIRO STEWARDSHIP FOUNDATION	Trend: Unknown
Presence: Presumed Extant	

Location:
FROM ABOUT 0.1 TO 0.9 MILE NE OF EXCELSIOR RD AT SPIVA RD IN THE VICINITY OF LAGUNA CREEK, NORTH OF SHELDON.

Detailed Location:
N-MOST 5 POLYGONS ON KLOTZ PROPERTY PRESERVE; 2006, 2007, 2008, 2009, 2011, 2012, & 2013 DETECTIONS AT ABOUT 28 DIFFERENT POOLS. S-MOST 2 POLYGONS ON LAGUNA PARCEL, SITE OF 2008 & 2011 DETECTIONS.

Ecological:
319 AC KLOTZ PROPERTY A PRESERVE; LAGUNA PARCEL UNDER CONSERVATION EASMENT. CHARACTERIZED BY VERNAL POOLS IN GRAZED ANNUAL GRASSLAND SURROUNDED BY AG & GRAZING LAND. LEPIDURUS PACKARDI, LINDERIELLA OCCIDENTALIS, B. MESOVALLENSIS ALSO FOUND.

Threats:
General:
10S FOUND IN 3 OF 10 POOLS, 20 JAN 2006. 10S-100S FOUND IN 2 POOLS, FEB 2007. FOUND IN 12 LAGUNA POOLS (4 MAPPED HERE, SEE ALSO OCC #755) & 3 KLOTZ POOLS, FEB-MAR 2008. IN 5 LAGUNA & 5 KLOTZ POOLS, FEB 2011. IN 5 POOLS, 2012. IN 10, 2013.

PLSS: T07N, R06E, Sec. 11 (M)	Accuracy: specific area	Area (acres): 120
UTM: Zone-10 N4260107 E649284	Latitude/Longitude: 38.47681 / -121.28859	Elevation (feet): 95

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

BAR08R0001	BARTLEY, N. (ECORP CONSULTING, INC.) - 90-DAY REPORT OF FINDINGS REGARDING BRANCHIOPOD ASSESSMENT SURVEY KLOTZ PROPERTY OPEN SPACE PRESERVE 2008-02-01
ECO06R0008	ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING BRANCHIOPOD ASSESSMENT SURVEY, KLOTZ PROPERTY OPEN SPACE PRESERVE. 2006-03-27
ECO07F0002	ECORP CONSULTING, INC. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2007-02-27
ECO07F0003	ECORP CONSULTING, INC. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2007-02-27
ECO07R0001	ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING BRANCHIOPOD ASSESSMENT SURVEY, KLOTZ PROPERTY OPEN SPACE PRESERVE 2007-05-11
ECO09R0022	ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING FEDERALLY LISTED BRANCHIOPODS FOR KLOTZ PROPERTY OPEN SPACE PRESERVE SACRAMENTO COUNTY, CALIFORNIA 2009-04-23
PAP13D0001	PAPATHAKIS, C. (VOLLMAR CONSULTING) - SPECIAL STATUS SPECIES COMPILATION BY VOLLMAR NATURAL LANDS CONSULTING 2013-01-29
WIT08F0007	WITHAM, C. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI & LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 2008-03-22
WIT11U0004	WITHAM, C. - LAGUNA AND WERRE SOUTH PARCELS, BRANCHIOPOD MONITORING, 90-DAY REPORT, RECOVERY PERMITS TE-799570-3, SERVICE FILE NO. 1-1-04-F-096, 2010-TA-0243 2011-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 82002	EO Index: 82962
Key Quad: Bruceville (3812134)	Element Code: ICBRA03030
Occurrence Number: 632	Occurrence Last Updated: 2011-03-23

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2009-03-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-03-10	Occurrence Rank: Good
Owner/Manager: PVT, DWR	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST N OF HOOD FRANKLIN RD, 1 MI W OF I-5, 1 MI E OF HOOD PO.

Detailed Location:
BY STONE LAKES NATIONAL WILDLIFE REFUGE AND CATTLE GRAZING. POOL ID: 16, 22, 23, 27, 37, 56 & 65. MAPPED TO PROVIDED SHAPEFILE.

Ecological:
VERNAL POOL GRASSLAND DOMINATED BY HORDEUM MARINUM SSP. GUSSONEANUM, LOLIUM MULTIFLORUM, PLAGIOBOTHRYUS STIPITATUS & LASTHENIA GLABERRIMA. HISTORICAL GRADING CAUSED POOLS TO BE POORLY DEFINED & SHALLOW. DEEPEST POOLS OCCUR BY BERMS & ROADS.

Threats:
General:
ABOUT 100 BREEDING ADULTS OBSERVED AMONG 7 POOLS; ASSOCIATED MUSEUM RECORDS INCLUDE: CAS-IZ #180491-180495 ON 6 MAR, AND #18496 & 18497 ON 10 MAR 2009 COLLECTED BY E. PIMENTEL ET AL.

PLSS: T06N, R04E, Sec. 13 (M)	Accuracy: specific area	Area (acres): 71
UTM: Zone-10 N4248466 E631310	Latitude/Longitude: 38.37476 / -121.49674	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Bruceville (3812134), Courtland (3812135), Florin (3812144), Clarksburg (3812145)
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- Sources:**
- CAS09S0005 CALIFORNIA ACADEMY OF SCIENCES - CAS INVERTEBRATE SPECIMEN #180491 COLLECTED BY E. PIMENTEL AND T. WALKER 2009-03-06
 - CAS09S0006 CALIFORNIA ACADEMY OF SCIENCES - CAS INVERTEBRATE SPECIMEN #180492 COLLECTED BY E. PIMENTEL ET AL. 2009-03-06
 - CAS09S0007 CALIFORNIA ACADEMY OF SCIENCES - CAS INVERTEBRATE SPECIMEN #180493 COLLECTED BY E. PIMENTEL ET AL. 2009-03-06
 - CAS09S0008 CALIFORNIA ACADEMY OF SCIENCES - CAS INVERTEBRATE SPECIMEN #180494 COLLECTED BY E. PIMENTEL ET AL. 2009-03-06
 - CAS09S0009 CALIFORNIA ACADEMY OF SCIENCES - CAS INVERTEBRATE SPECIMEN #180495 COLLECTED BY E. PIMENTEL ET AL. 2009-03-06
 - CAS09S0010 CALIFORNIA ACADEMY OF SCIENCES - CAS INVERTEBRATE SPECIMEN #180496 COLLECTED BY E. PIMENTEL ET AL. 2009-03-10
 - CAS09S0011 CALIFORNIA ACADEMY OF SCIENCES - CAS INVERTEBRATE SPECIMEN #180497 COLLECTED BY E. PIMENTEL ET AL. 2009-03-10
 - DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29
 - PIM09F0002 PIMENTEL, E. (EDAW, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2009-03-06



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93331	EO Index: 94477
Key Quad: Florin (3812144)	Element Code: ICBRA03030
Occurrence Number: 671	Occurrence Last Updated: 2014-07-31

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2013-01-16	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2013-01-16	Occurrence Rank: Unknown
Owner/Manager: SRCSD-BUFFERLANDS, PG&E, PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
NW CORNER OF DWIGHT RD AND THE WESTERN PACIFIC RAILROAD TRACKS, 0.9 MILE NW OF LAGUNA BLVD AT FRANKLIN BLVD, ELK GROVE.

Detailed Location:
UNDATED SPECIMEN LOCALITY GIVEN AS "RAILROAD SIDE DITCH... NW CORNER OF DWIGHT ROAD AND WESTERN PACIFIC RAILROAD." 1993 DETECTION LOCATION GIVEN AS T7N R5E SEC 29. MAPPED TO LAT/LONG GIVEN FOR 2012/2013 DETECTION.

Ecological:
1993: NATURAL VERNAL POOLS. 2012/2013: GRASSY-BOTTOMED DEPRESSIONS ON BOTH SIDES OF RAILROAD TRACKS, 2-20 INCHES DEEP; SOME POOLS INVADDED BY WEEDS. LEPIDURUS PACKARDI AND LINDERIELLA OCCIDENTALIS CO-OCCURRED.

Threats:
UTILITY AND RAILROAD MAINTENANCE, ORV TRAFFIC, WEEDS (2012).

General:
FOUND IN 1 OF 1 POOL SURVEYED, 4 FEB 1993. 2 COLLECTED ON 29 MAR 1995 (CASIZ #103317). 600 DETECTED IN 5 BASINS, 28 DEC 2012 - 16 JAN 2013 (1 OF 5 MAPPED HERE, SEE ALSO OCCURRENCE #161).

PLSS: T07N, R05E, Sec. 29 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4255156 E634605	Latitude/Longitude: 38.43454 / -121.45776	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

PIM12F0001	PIMENTEL, E. (AECOM) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2012-12-28
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX
WAL95S0021	WALKER, R. & E. KOFORD - CASIZ #103317, COLLECTED AT "RAILROAD SIDE DITCH, WESTERN PACIFIC RAILROAD. NW CORNER OF DWIGHT ROAD AND WESTERN PACIFIC RAILROAD." 1995-03-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93281	EO Index:	94480
Key Quad:	Florin (3812144)	Element Code:	ICBRA03030
Occurrence Number:	672	Occurrence Last Updated:	2014-07-31

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	1995-01-31	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1995-01-31	Occurrence Rank:	Unknown
Owner/Manager:	SRCS-D STONE LAKES NWP	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 NORTH SIDE OF MORRISON CREEK, ABOUT 0.9 MILES NE OF THE I-5 CROSSING, 1.75 MILES SOUTH OF SACRAMENTO.

Detailed Location:
 MAPPED GENERALLY TO LOCALITY "INUNDATED WHEAT FIELD NORTH OF MORRISON CREEK LEVEE ROAD, 50 FEET EAST OF PUMPING STATION, 7/8 MILE EAST OF INTERSTATE 5."

Ecological:
 POOL DEPTH OF 0.07 METERS.

Threats:

General:
 1 COLLECTED ON 31 JAN 1995 (CASIZ #104243).

PLSS:	T07N, R04E, Sec. 24 (M)	Accuracy:	2/5 mile	Area (acres):	0
UTM:	Zone-10 N4256935 E632399	Latitude/Longitude:	38.45089 / -121.48269	Elevation (feet):	0

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 WAL95S0016 WALKER, R. & E. KOFORD - CASIZ #104243, COLLECTED FROM "INUNDATED WHEAT FIELD NORTH OF MORRISON CREEK LEVEE ROAD, 50 FEET EAST OF PUMPING STATION. 7/8 MILE EAST OF INTERSTATE 5." 1995-01-31



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93335	EO Index:	94482
Key Quad:	Florin (3812144)	Element Code:	ICBRA03030
Occurrence Number:	673	Occurrence Last Updated:	2014-08-13

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	1995-01-25	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1995-01-25	Occurrence Rank:	Unknown
Owner/Manager:	PVT-UNION PACIFIC RR	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG THE WESTERN PACIFIC (=UNION PACIFIC) RAILROAD TRACKS, ABOUT 0.4 MILE SOUTH OF FLORIN RD INTERSECTION, SACRAMENTO.

Detailed Location:
 MAPPED TO SPECIMEN LOCALITY: "S OF FLORIN RD, W OF UNION PACIFIC RAILROAD, E OF POCKET SUBSTATION IN A SEASONALLY PONDED DEPRESSION."

Ecological:
 POOL WITH DEPTH OF 1-6 INCHES.

Threats:
General:
 6 COLLECTED ON 25 JAN [YEAR LIKELY 1995] (CAS #94832).

PLSS: T07N, R05E, Sec. 06 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4261242 E633514	Latitude/Longitude: 38.48953 / -121.46909	Elevation (feet): 15

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 MAR95S0001 MARTIN, D. & J. MARTINI - CASIZ #94832, COLLECTED "S OF FLORIN RD, W OF UNION PACIFIC RAILROAD, E OF POCKET SUBSTATION IN A SEASONALLY PONDED DEPRESSION." 1995-01-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93357	EO Index: 94499
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030
Occurrence Number: 679	Occurrence Last Updated: 2014-08-01

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2008-02-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2008-02-08	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTHWEST CORNER OF WALMORT ROAD AND DAVIS ROAD, SOUTH OF WILTON.

Detailed Location:
MAPPED GENERALLY TO COORDINATES GIVEN FOR CENTER OF SURVEYED PROPERTY. EXACT DETECTION LOCATIONS UNKNOWN.

Ecological:
ANNUAL GRASSLAND AND VERNAL POOL FLORA, ADJACENT TO BADGER CREEK. LAND USED FOR GRAZING AND AGRICULTURE.

Threats:
General:
THOUSANDS OBSERVED ON 8 FEB 2008.

PLSS: T06N, R06E, Sec. 13 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4248977 E651511	Latitude/Longitude: 38.37617 / -121.26547	Elevation (feet): 65

County Summary: Sacramento	Quad Summary: Galt (3812133), Elk Grove (3812143)
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Sources:
FAR08F0001 FARMER, M. & B. BARKER - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2008-02-08



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93587	EO Index: 94719
Key Quad: Rio Linda (3812164)	Element Code: ICBRA03030
Occurrence Number: 739	Occurrence Last Updated: 2014-08-25

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2007-07-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-07-27	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
MCCLELLAN BUSINESS PARK, 0.2 MILE ESE OF THE INTERSECTION OF DUDLEY BLVD AND FORCUM AVENUE, SACRAMENTO.

Detailed Location:
MAPPED TO GIVEN COORDINATES.

Ecological:
DISTURBED VERNAL POOL IN NON-NATIVE GRASSLAND PERIODICALLY MECHANICALLY TREATED FOR WEEDS.

Threats:
SOILS IN THE AREA ARE KNOWN TO BE CONTAMINATED.

General:
BRANCHIOPOD CYSTS COLLECTED ON 27 JUL 2007 WERE IDENTIFIED AS BRANCHINECTA LYNCHI AND ACCESSIONED TO CAS (CASIZ #175319).

PLSS: T09N, R05E, Sec. 11 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4278716 E639045	Latitude/Longitude: 38.64610 / -121.40221	Elevation (feet): 65

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:

MAR07F0019	MARTIN, D. (BIOTA) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2007-07-27
MAR07S0008	MARTIN, D. - CASIZ #175319, COLLECTED FROM "MCCLELLAN BUSINESS PARK, POOL #17." 2007-07-27



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93588	EO Index: 94730
Key Quad: Rio Linda (3812164)	Element Code: ICBRA03030
Occurrence Number: 740	Occurrence Last Updated: 2014-11-19

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2010-02-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-02-11	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.5 MILE NNW OF INTERSECTION OF ELVERTA ROAD AND RIVERGREEN DR AND 0.6 MILE SSE OF KASSER RD AT 16TH ST, ELVERTA.

Detailed Location:
"D.R. STEPHENS CENTRAL PROPERTY" WITHIN THE ELVERTA SPECIFIC PLAN PROPERTIES. MAPPED TO LOCATION GIVEN FOR POOL SW3.

Ecological:
SEASONAL WETLAND IN GRAZED PROPERTY WITH SOME OHV DISTURBANCE.

Threats:
General:
RARE (ONLY 1 OR 2 DIPNETTED) IN SW3 ON 11 FEB 2010.

PLSS: T10N, R05E, Sec. 15 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4287061 E637023	Latitude/Longitude: 38.72159 / -121.42379	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
HEL10R0018 HELM BIOLOGICAL CONSULTING - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE ELVERTA SPECIFIC PLAN PROPERTIES (2009-2010) 2010-07-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93589	EO Index:	94732
Key Quad:	Rio Linda (3812164)	Element Code:	ICBRA03030
Occurrence Number:	741	Occurrence Last Updated:	2014-08-26

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	2010-02-12	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2010-02-12	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
0.2 TO 0.3 MILE NW AND NNW OF THE INTERSECTION OF ELVERTA ROAD AND 16TH STREET, ELVERTA.

Detailed Location:
2006: MAPPED TO OCCUPIED POOL 15 ON GRIMSMAN PROPERTY (NORTH END OF FEATURE). 2010: MAPPED TO OCCUPIED POOL SW5 ON "ELVERTA 59 1/2 PROPERTY" FROM ELVERTA SPECIFIC PLAN (SOUTH END OF FEATURE).

Ecological:
2006: BASIN 15 A LARGE VERNAL POOL, HABITAT QUALITY FAIR, CALIFORNIA CLAMP SHRIMP ALSO PRESENT. 2010: SEASONAL WETLAND ON PROPERTY WITH SOME DISTURBANCE FROM GRAZING AND OHV USE.

Threats:
General:
FEWER THAN 24 DETECTED JAN 2006, IN 1 OF 20 BASINS SAMPLED. PRESENT IN POOL SW5 ON 12 FEB 2010.

PLSS:	T10N, R05E, Sec. 16 (M)	Accuracy:	specific area	Area (acres):	17
UTM:	Zone-10 N4286636 E636335	Latitude/Longitude:	38.71787 / -121.43179	Elevation (feet):	70

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:

HEL06F0009	HELM, B. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2006-02-19
HEL06R0001	HELM, B. (HELM BIOLOGICAL CONSULTING) - WET SEASON SAMPLING FOR FEDERALLY-LISTED BRANCHIOPODS AT THE ELVERTA SPECIFIC PLAN, 2006 2006-07-26
HEL10R0018	HELM BIOLOGICAL CONSULTING - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE ELVERTA SPECIFIC PLAN PROPERTIES (2009-2010) 2010-07-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93590	EO Index:	94733
Key Quad:	Rio Linda (3812164)	Element Code:	ICBRA03030
Occurrence Number:	742	Occurrence Last Updated:	2014-08-26

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	2010-02-25	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2010-02-25	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 AT THE NORTHWEST CORNER OF PALLADAY ROAD AND ELVERTA ROAD IN ELVERTA.

Detailed Location:
 "ELVERTA PALLADAY PROPERTY" FROM ELVERTA SPECIFIC PLAN. MAPPED TO LOCATION GIVEN FOR OCCUPIED POOLS V21, POND, AND D2.

Ecological:
 A DITCH, A POND, AND A VERNAL POOL IN GRASSLAND WITH SOME OHV AND GRAZING DISTURBANCE.

Threats:
General:
 DETECTED IN 3 ADJACENT BASINS, 25 FEB 2008. 1S TO 10 DETECTED IN 3 ADJACENT BASINS, 29 JAN - 25 FEB 2010.

PLSS: T10N, R05E, Sec. 16 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4286297 E635210	Latitude/Longitude: 38.71499 / -121.44478	Elevation (feet): 50

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:

HEL07F0019	HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2007-12-11
HEL08R0017	HELM, B. & T. WOOD (HELM BIOLOGICAL CONSULTING) - WET SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE ELVERTA SPECIFIC PLAN PROPERTIES 2008-05-17
HEL10R0018	HELM BIOLOGICAL CONSULTING - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE ELVERTA SPECIFIC PLAN PROPERTIES (2009-2010) 2010-07-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93591	EO Index: 94741
Key Quad: Rio Linda (3812164)	Element Code: ICBRA03030
Occurrence Number: 743	Occurrence Last Updated: 2014-11-20

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2008-02-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2008-02-18	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
BETWEEN 16TH STREET AND PALLADAY ROAD, ABOUT 0.8 MILE NORTH OF ELVERTA ROAD, ELVERTA.

Detailed Location:
FROM W TO E: "TLC-ELVERTA 24", "MITIGATION AREA 1," & "SPORTS PARK" PARCELS FROM ELVERTA SPECIFIC PLAN PROPERTIES. MAPPED TO LOCATIONS GIVEN FOR OCCUPIED POOLS.

Ecological:
FOUND IN VERNAL POOLS. 2 OCCUPIED POOLS ON ELVERTA 24 PROPERTY PROBABLY CONNECT IN HIGH RAIN YEARS. MITIGATION AREA 1 PROPOSED AS MITIGATION BANK AS OF 2007. CALIFORNIA FAIRY SHRIMP AND CALIFORNIA CLAM SHRIMP ALSO FOUND.

Threats:
General:
BRANCHINECTA CYSTS FOUND IN 1 POOL ON TLC-ELVERTA PROPERTY, AUG 2005. FEWER THAN 24 FOUND IN 2 OF 53 WETLANDS SAMPLED ON ELVERTA 24 PROPERTY, JAN-FEB 2006. FOUND IN 14 BASINS IN "MITIGATION AREA 1" & "SPORTS PARK" PARCELS, 4 & 18 FEB 2008.

PLSS: T10N, R05E, Sec. 16 (M)	Accuracy: specific area	Area (acres): 37
UTM: Zone-10 N4287541 E635867	Latitude/Longitude: 38.72609 / -121.43699	Elevation (feet): 70

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

HEL05F0025	HELM, B. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2005-08-11
HEL06F0009	HELM, B. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2006-02-19
HEL06R0001	HELM, B. (HELM BIOLOGICAL CONSULTING) - WET SEASON SAMPLING FOR FEDERALLY-LISTED BRANCHIOPODS AT THE ELVERTA SPECIFIC PLAN, 2006 2006-07-26
HEL07F0019	HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2007-12-11
HEL08R0017	HELM, B. & T. WOOD (HELM BIOLOGICAL CONSULTING) - WET SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE ELVERTA SPECIFIC PLAN PROPERTIES 2008-05-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93634	EO Index:	94764
Key Quad:	Carmichael (3812153)	Element Code:	ICBRA03030
Occurrence Number:	750	Occurrence Last Updated:	2014-08-29

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:

ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.

Micro Habitat:

INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	1989-03-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1989-03-01	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:

VICINITY OF MATHER AIR FORCE BASE (NOW SACRAMENTO MATHER AIRPORT), SACRAMENTO.

Detailed Location:

MAPPED BY CNDDDB BASED ON THE VAGUE COLLECTION LOCALITY, "VERNAL POOLS OF MATHER AIR FORCE BASE." EXACT COLLECTION LOCATION UNKNOWN.

Ecological:**Threats:****General:**

6 COLLECTED ON 1 MAR 1989 (USNM #1072677).

PLSS: T08N, R06E, Sec. 10 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4269013 E648241	Latitude/Longitude: 38.55720 / -121.29864	Elevation (feet): 80

County Summary:

Sacramento

Quad Summary:

Carmichael (3812153)

Sources:

ANO89S0006 ANONYMOUS - USNM #1072677, COLLECTED FROM "VERNAL POOLS OF MATHER AIR FORCE BASE." 1989-03-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93639	EO Index: 94769
Key Quad: Carmichael (3812153)	Element Code: ICBRA03030
Occurrence Number: 751	Occurrence Last Updated: 2014-08-29

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2011-01-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-01-26	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
0.3 MILE NW OF INTERSECTION OF EXCELSIOR ROAD AND ELDER CREEK ROAD, SOUTH OF HIGHWAY 16, SE OF SACRAMENTO.

Detailed Location:
ASPEN VII SOUTH PROPERTY. MAPPED TO COORDINATES GIVEN FOR OCCUPIED POOL DSW4.

Ecological:
"CLASSIC VERNAL POOL" COVERING 3500 SQ FEET, 14 INCHES DEEP, IN FALLOW CATTLE PASTURAGE CHARACTERIZED BY NON-NATIVE ANNUAL GRASSLAND SPECIES. LINDERIELLA OCCIDENTALIS AND LEPIDURUS PACKARDI ALSO FOUND.

Threats:
General:
DETECTED IN HIGH ABUNDANCE IN 1 POOL ON 26 JAN 2011, OUT OF ABOUT 2.7 ACRES OF WETLANDS SURVEYED.

PLSS: T08N, R06E, Sec. 27 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4264044 E647950	Latitude/Longitude: 38.51249 / -121.30304	Elevation (feet): 80

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
GIB11R0001 GIBSON & SKORDAL, LLC - LISTED VERNAL POOL BRANCHIOPODS WET SEASON SURVEY 90-DAY REPORT ASPEN VII SOUTH, SACRAMENTO COUNTY, CALIFORNIA 2011-05-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93640	EO Index: 94770
Key Quad: Sacramento East (3812154)	Element Code: ICBRA03030
Occurrence Number: 752	Occurrence Last Updated: 2014-08-29

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2013-01-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2013-01-15	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
14TH AVENUE EXTENSION STE, 0.1 MILE NORTH OF BELVEDERE AVE, FROM 0.2 TO 0.5 MILE WEST OF FLORIN PERKINS RD, SACRAMENTO.

Detailed Location:
MAPPED TO LOCATIONS OF OCCUPIED POOLS.

Ecological:
VERNAL POOLS AND SEASONAL WETLANDS IN ANNUAL GRASSLAND SURROUNDED BY URBAN DEVELOPMENT. LINDERIELLA OCCIDENTALIS ALSO FOUND.

Threats:
ROAD CONSTRUCTION.

General:
DETECTED IN 5 VERNAL POOLS AND 1 SEASONAL WETLAND DURING SURVEYS BETWEEN 18 DEC 2012 AND 15 JAN 2013.

PLSS: T08N, R05E, Sec. 14 (M)	Accuracy: specific area	Area (acres): 15
UTM: Zone-10 N4266911 E639628	Latitude/Longitude: 38.53966 / -121.39788	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:
W0013R0004 WOOD, T. (ECORP CONSULTING, INC.) - 2012 - 2013 WET SEASON REPORT OF FINDINGS REGARDING FEDERALLY-LISTED LARGE BRANCHIOPODS FOR 14TH AVENUE EXTENSION SACRAMENTO COUNTY, CALIFORNIA 2013-06-13



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93641	EO Index:	94781
Key Quad:	Sacramento East (3812154)	Element Code:	ICBRA03030
Occurrence Number:	753	Occurrence Last Updated:	2014-09-05

Scientific Name:	<i>Branchinecta lynchi</i>	Common Name:	vernal pool fairy shrimp
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	1982-01-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1982-01-01	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
VICINITY OF SOUTHERN PACIFIC RAILROAD TRACKS SOUTH OF HIGHWAY 50, SACRAMENTO.

Detailed Location:
MAPPED AS BEST GUESS FOR 1982 LOCALITY "JOHN TAYLOR FERTILIZER POOL, SOUTH OF HIGHWAY 50 ALONG SOUTHERN PACIFIC TRANSPORTATION COMPANY RAILROAD TRACKS." DRY SEASON SAMPLES FROM 2005 TAKEN ALONG RAILROAD, FROM 0.1 TO 0.3 MI S OF HWY 50.

Ecological:
1982: SEASONALLY ASTATIC VERNAL POOL IN GRASSLAND. 2005: SEASONAL WETLANDS.

Threats:
General:
1 COLLECTED ON 1 JAN 1982 (BELK #404, USNM #1156051). BRANCHINECTA CYSTS FOUND IN SAMPLES FROM 5 SEASONAL WETLANDS TAKEN ALONG RAILROAD TRACKS 16 JUN 2005, CYSTS NOT HATCHED OR IDENTIFIED TO SPECIES.

PLSS: T08N, R05E, Sec. 15 (M)	Accuracy: 3/5 mile	Area (acres): 0
UTM: Zone-10 N4267670 E637740	Latitude/Longitude: 38.54679 / -121.41938	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:

BEL88D0001	BELK, D. - DELTON BELK'S DATABASE OF CRUSTACEAN COLLECTIONS 1988-09-XX
ENG82S0012	ENG, L. - USNM #1156051, COLLECTED AT "JOHN TAYLOR FERTILIZER POOL, SOUTH OF HWY 50 ALONG SOUTHERN PACIFIC TRANSPORTATION COMPANY TRACKS." 1982-01-01
HEL05F0011	HELM, B. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2005-06-16



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93647	EO Index:	94806
Key Quad:	Elk Grove (3812143)	Element Code:	ICBRA03030
Occurrence Number:	755	Occurrence Last Updated:	2014-09-03

Scientific Name:	<i>Branchinecta lynchi</i>		
Common Name:	vernal pool fairy shrimp		
Listing Status:	Federal:	Threatened	Rare Plant Rank:
	State:	None	Other Lists:
			IUCN_VU-Vulnerable
CNDDB Element Ranks:	Global:	G3	
	State:	S2S3	

General Habitat:	Micro Habitat:
ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Last Date Observed:	2011-02-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2011-02-XX	Occurrence Rank:	Unknown
Owner/Manager:	SACTO VALLEY CONSERVANCY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WERRE PARCEL, FROM ABOUT 0.5 MILE ESE TO 0.75 MILE SE OF EXCELSIOR ROAD AT DIERKS ROAD, NE OF ELK GROVE.

Detailed Location:
MAPPED TO LOCATIONS GIVEN FOR OCCUPIED POOLS.

Ecological:
VERNAL POOLS IN ANNUAL GRASSLAND ON GENTLY ROLLING TOPOGRAPHY. PRESERVE OWNED BY SACRAMENTO VALLEY CONSERVANCY.

Threats:
General:
FOUND IN LOW TO MEDIUM ABUNDANCE IN 12 POOLS (8 MAPPED HERE, SEE ALSO OCCURRENCE #532), FEB-MAR 2008. FOUND IN LOW ABUNDANCE IN 10 POOLS, FEB 2011.

PLSS:	T07N, R06E, Sec. 14 (M)	Accuracy:	specific area	Area (acres):	31
UTM:	Zone-10 N4258720 E649419	Latitude/Longitude:	38.46429 / -121.28733	Elevation (feet):	95

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

WIT08F0007	WITHAM, C. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI & LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 2008-03-22
WIT11U0004	WITHAM, C. - LAGUNA AND WERRE SOUTH PARCELS, BRANCHIOPOD MONITORING, 90-DAY REPORT, RECOVERY PERMITS TE-799570-3, SERVICE FILE NO. 1-1-04-F-096, 2010-TA-0243 2011-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93674	EO Index: 94819
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030
Occurrence Number: 762	Occurrence Last Updated: 2015-03-04

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2007-02-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-02-28	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.7 MILES NE OF BRADSHAW RD AT GERBER RD AND 1.6 MILES WSW OF EXCELSIOR RD AT FLORIN RD, SE OF SACRAMENTO.

Detailed Location:
DETECTED IN 1993 IN TRS SEC 4, EXACT LOCATION NOT GIVEN. MAPPED TO LOCATIONS GIVEN FOR VP-7 (OCCUPIED IN 2006), V16, & V5 (OCCUPIED IN 2007). NO B. LYNCHI WERE FOUND AT 4 OTHER PROPERTIES SURVEYED IN 2006 IN NW, NE, & SE QUARTER SECTIONS.

Ecological:
1993: NATURAL SEASONAL WETLANDS AND VERNAL POOLS. 2006: LARGE VERNAL POOL IN ANNUAL GRASSLAND.

Threats:
General:
FOUND IN 2 OF 51 FEATURES SURVEYED 21 FEB 1993 (SUGNET RECORDS #58 & 59). BRANCHINECTA CYSTS FOUND IN VP-7, 2005. 10+ ADULTS FOUND, 15 JAN-14 MAR 2006. BRANCHINECTA CYSTS FOUND IN 10 POOLS, 1 JUN 2006. 5 FOUND IN 2 BASINS, 28 FEB 2007.

PLSS: T07N, R06E, Sec. 04 (M)	Accuracy: specific area	Area (acres): 13
UTM: Zone-10 N4261301 E646043	Latitude/Longitude: 38.48809 / -121.32547	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

HEL05U0006	HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE TLC-NORTH VINEYARD/CASTALANO PROPERTY. 2005-12-XX
HEL06F0002	HELM, B. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2006-03-14
HEL06F0008	HELM, B. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2006-01-15
HEL06F0059	HELM, B. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2006-06-01
HEL06U0002	HELM, B. - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE ASTON PROPERTY. 2006-06-XX
HEL06U0003	HELM, B. - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE HAYNES PROPERTY. 2006-06-XX
HEL06U0004	HELM, B. - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE NORTH VINEYARD STATION 80 PROPERTY. 2006-06-XX
HEL06U0007	HELM, B. - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE NORTH VINEYARD STATION PROPERTY. 2006-06-XX
HEL07F0013	HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2007-02-28
HEL07R0026	HELM, B. (HELM BIOLOGICAL CONSULTING) - WET-SEASON SAMPLING FOR FEDERALLY-LISTED BRANCHIOPODS AT THE EBIG 40-REYEN PROPERTY 2007-04-XX
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93690	EO Index: 94820
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030
Occurrence Number: 763	Occurrence Last Updated: 2015-03-05

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2006-03-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-03-14	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH SIDE OF GERBER ROAD FROM 0.1 TO 0.3 MILE WEST OF THE BRADSHAW ROAD INTERSECTION, SOUTHERN SACRAMENTO.

Detailed Location:
BRADSHAW SOUTHWEST PROPERTY. 2005 DRY-SEASON SURVEY INTAYLOR-LOPEZ PROPERTY ON OPPOSITE SIDE OF BRADSHAW RD (NOT MAPPED). MAPPED TO DETECTION LOCATIONS FROM 2006 AT POOLS SW6 AND SW7.

Ecological:
SEASONAL WETLANDS ON 19.6-ACRE PARCEL. LINDERIELLA OCCIDENTALIS ALSO FOUND. NEW HOUSING DEVELOPMENT ACROSS THE STREET, AROUND 2009.

Threats:
General:
BRANCHINECTA CYSTS FOUND IN SOIL TAKEN FROM POOL VP2 ON 9 AUG, & FROM 1 POOL ON TAYLOR-LOPEZ SITE ON 17 SEP 2005 (NOT HATCHED/NOT IDED TO SPECIES). ADULTS DETECTED IN 2 POOLS AT CONCENTRATIONS OF 10/25L ON 26 JAN & IN 1 POOL ON 14 MAR 2006.

PLSS: T07N, R06E, Sec. 08 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4260520 E644991	Latitude/Longitude: 38.48124 / -121.33769	Elevation (feet): 55

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

HEL05F0013	HELM, B. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2005-08-09
HEL05U0018	HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE TAYLOR LOPEZ PROPERTY. 2005-09-XX
HEL06F0007	HELM, B. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2006-01-26
HEL06R0011	HELM, B. (HELM BIOLOGICAL CONSULTING) - WET-SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE BRADSHAW SW PROPERTY 2006-05-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 94759	EO Index: 95864	
Key Quad: Carmichael (3812153)	Element Code: ICBRA03030	
Occurrence Number: 886	Occurrence Last Updated: 2015-02-23	

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2010-02-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-02-03	Occurrence Rank: None
Owner/Manager: SMUD	Trend: Unknown
Presence: Extirpated	

Location:
SMUD EAST CAMPUS OPERATIONS CENTER, ON THE SE CORNER OF BRADSHAW & KIEFER, ROSEMONT, SACRAMENTO.

Detailed Location:
MAPPED TO LOCATION PROVIDED FOR POOL DP-4, FOUND OCCUPIED DURING WET-SEASON SURVEYS.

Ecological:
THE SE CORNER OF KIEFER & BRADSHAW HAS BEEN DISTURBED SINCE 1993, PRIMARILY AS A SURFACE MINING OPERATION. AROUND 2011 SMUD STARTING BUILDING A NEW FACILITY HERE. THERE APPEARS TO BE CONSTRUCTED VERNAL POOLS ADJACENT TO THE SE.

Threats:
AIR PHOTOS INDICATE THAT SITE HAS BEEN DEVELOPED BY SMUD SINCE THE TIME OF SURVEY.

General:
BRANCHINECTA CYSTS FOUND IN 2 POOLS, SEP 2009. 10S OF MATURE B. LYNCHI FOUND IN 1 POOL, 3 FEB 2010. NONE FOUND DURING DRY SAMPLING OF AN ADDITIONAL 23 BASINS IN JULY 2010.

PLSS: T08N, R06E, Sec. 16 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4267211 E645663	Latitude/Longitude: 38.54140 / -121.32860	Elevation (feet): 65

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

BUR10R0001	BURLESON CONSULTING, INC. - 90-DAY REPORT FOR FINDINGS REGARDING BRANCHIOPOD SURVEYS FOR SACRAMENTO MUNICIPAL UTILITY DISTRICT'S EAST CAMPUS-OPERATIONS CENTER, SACRAMENTO COUNTY, CALIFORNIA 2010-07-XX
HEL09R0008	HELM, B. (HELM BIOLOGICAL CONSULTING) - SOIL EXAMINATIONS FOR THE PRESENCE OF FEDERALLY LISTED LARGE BRANCHIOPODS AT THE SMUD EAST CAMPUS-OPERATIONS CENTER 2009-11-30
HEL09R0009	HELM, B. (HELM BIOLOGICAL CONSULTING) - ADDENDUM SOIL EXAMINATIONS FOR THE PRESENCE OF FEDERALLY LISTED LARGE BRANCHIOPODS AT THE SMUD EAST CAMPUS-OPERATIONS CENTER 2009-11-19
HEL10R0006	HELM, B. (HELM BIOLOGICAL CONSULTING) - SOIL EXAMINATIONS FOR THE PRESENCE OF FEDERALLY LISTED LARGE BRANCHIOPODS AT THE SMUD EAST CAMPUS-OPERATIONS CENTER (2010) 2010-08-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95340	EO Index: 96470	
Key Quad: Florin (3812144)	Element Code: ICBRA03030	
Occurrence Number: 891	Occurrence Last Updated: 2015-03-02	

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1998-04-30	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1998-04-30	Occurrence Rank: Fair
Owner/Manager: SRCSD	Trend: Unknown
Presence: Presumed Extant	

Location:
SACTO REGIONAL WASTEWATER TREATMENT PLANT, PARCEL BOUNDED BY LAGUNA STATION RD (E), S LANDFILL WAY (N), & SIMS RD (W).

Detailed Location:
MAPPED TO BOUNDARY OF SURVEYED SITE. PROVIDED MAP GAVE LOCATIONS OF WETLAND FEATURES, BUT DID NOT INDICATE WHICH WERE OCCUPIED.

Ecological:
ANNUAL GRASSLAND WITH VERNAL POOLS, SEASONAL WETLANDS & DRAINAGES. PSILOCARPUS PRESENT. SITE PROPOSED FOR A BIOSOLIDS DEWATERING FACILITY IN 1998, BUT AERIAL PHOTOS INDICATE THIS PARCEL HAD NOT BEEN DEVELOPED AS OF 2014.

Threats:
General:
10 CYSTS FOUND IN 2 OF 11 SITES EXAMINED IN APR 1998, COLLECTED AND DEPOSITED IN CAS (CASIZ #115430 & 115431).

PLSS: T07N, R05E, Sec. 19 (M)	Accuracy: nonspecific area	Area (acres): 27
UTM: Zone-10 N4256138 E633802	Latitude/Longitude: 38.44351 / -121.46676	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
MAR98F0003 MARTINE, A. & T. SLOAT - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI (VERNAL POOL FAIRY SHRIMP) 1998-04-30



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95363	EO Index: 96493
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030
Occurrence Number: 893	Occurrence Last Updated: 2015-03-03

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1993-03-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-03-02	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
NORTH SIDE OF CALVINE ROAD BETWEEN EXCELSIOR RD AND VINEYARD RD, NE OF ELK GROVE.

Detailed Location:
LOCATION GIVEN ONLY TO TRS SECTION; T7N R6E SEC 15. MOST LIKELY LOCATION BASED ON 1993 AERIALS IS AREA ALONG WEST SIDE OF EXCELSIOR RD.

Ecological:
NATURAL VERNAL POOL. AERIAL PHOTOS SHOW EXTENSIVE RESIDENTIAL DEVELOPMENT IN THE AREA SINCE THE TIME OF SURVEY. IT APPEARS THAT SOME HABITAT MAY EXIST. UNKNOWN WHAT AFFECT EXTENSIVE DEVELOPMENT ACROSS REST OF SECTION MAY HAVE.

Threats:
DEVELOPMENT MAY HAVE ELIMINATED HABITAT.

General:
OBSERVED IN 4 OF 49 FEATURES INSPECTED IN SECTION 15 ON 2 MAR 1993 (SUGNET RECORD #61). NEEDS RESEARCH.

PLSS: T07N, R06E, Sec. 15 (M)	Accuracy: nonspecific area	Area (acres): 689
UTM: Zone-10 N4258238 E647714	Latitude/Longitude: 38.46023 / -121.30697	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
SUG93U0001 SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95365	EO Index: 96496	
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03030	
Occurrence Number: 894	Occurrence Last Updated: 2015-03-03	

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2014-10-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-10-08	Occurrence Rank: Unknown
Owner/Manager: SOUTHGATE RPD	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.1 MILE SW OF WILDHAWK W DR AT WINGED FOOT DR, 0.6 MILES SE OF BRADSHAW RD AT DARON LN, NE OF ELK GROVE.

Detailed Location:
MAPPED TO PROVIDED COORDINATES.

Ecological:
SEASONAL WETLAND AT THE BOTTOM OF A SMALL RETENTION BASIN IN A VACANT LOT, DOMINATED BY ELEOCHARIS MACROSTACHYA. VISIBLE DISTURBANCE FROM OHV TRACKS NOTED.

Threats:
DEVELOPMENT.

General:
10 CYSTS FOUND THROUH DRY-SAMPLING 8 OCT 2014 WERE IDENTIFIED AS BRANCHINECTA LYNCHI THROUGH GENETIC ANALYSIS.

PLSS: T07N, R06E, Sec. 09 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4259108 E646110	Latitude/Longitude: 38.46833 / -121.32516	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
HEL14F0012 HELM, B. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2014-10-08



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 43418	EO Index: 43418
Key Quad: Carmichael (3812153)	Element Code: ICBRA03150
Occurrence Number: 1	Occurrence Last Updated: 2014-11-25

Scientific Name: <i>Branchinecta mesovallensis</i>	Common Name: midvalley fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat:	Micro Habitat:
VERNAL POOLS IN THE CENTRAL VALLEY.	□

Last Date Observed: 2011-02-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-02-XX	Occurrence Rank: Excellent
Owner/Manager: PVT, SACTO VALLEY CONSERVANCY	Trend: Unknown
Presence: Presumed Extant	

Location:
 ABOUT 0.2 MILE WEST OF EAGLES NEST ROAD AND SOUTH OF JACKSON ROAD, 1.2 MILES SOUTH OF MATHER REGIONAL PARK.

Detailed Location:
 NE POLYGON: MAPPED TO 2000 DETECTION LOCATION, GIVEN AS T8N, R6E, W 1/2 OF NE 1/4 OF SECTION 36. SW POLYGON: SYLVA PARCEL OF SACRAMENTO PRAIRIE VERNAL POOL PRESERVE, MAPPED TO LOCATION GIVEN FOR POOL OCCUPIED IN 2008 AND 2011.

Ecological:
 2000: A SHALLOW POOL IN NON-NATIVE GRASSLAND WITH VERNAL POOLS. 2008 & 2011: VERNAL POOLS IN ANNUAL GRASSLAND ON GENTLY ROLLING TOPOGRAPHY; AREA PROTECTED AS A PRESERVE.

Threats:

General:
 SEVERAL FOUND IN 1 POOL DURING SURVEYS ON 24 FEB AND 15 MAR 2000. DETECTED IN HIGH ABUNDANCE IN 1 POOL, 18 FEB 2008; SPECIMENS COLLECTED FOR USFWS. DETECTED IN HIGH ABUNDANCE IN 1 POOL, FEB 2011.

PLSS: T08N, R06E, Sec. 36 (M)	Accuracy: nonspecific area	Area (acres): 99
UTM: Zone-10 N4263415 E650935	Latitude/Longitude: 38.50633 / -121.26894	Elevation (feet): 125

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143), Carmichael (3812153)

Sources:

MUT00F0009	MUTH, D. - FIELD SURVEY FORM FOR BRANCHINECTA MESOVALLENSIS (MIDVALLEY FAIRY SHRIMP) 2000-03-15
WIT08F0006	WITHAM, C. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI & BRANCHINECTA MESOVALLENSIS & LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 2008-02-18
WIT11U0005	WITHAM, C. - KASSIS AND SYLVA PARCELS, BRANCHIOPOD MONITORING, 90-DAY REPORT, RECOVERY PERMITS TE-799570-3, 2010-TA-0243 2011-05-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 46082	EO Index: 46082
Key Quad: Florin (3812144)	Element Code: ICBRA03150
Occurrence Number: 18	Occurrence Last Updated: 2014-07-21

Scientific Name: <i>Branchinecta mesovallensis</i>	Common Name: midvalley fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat:	Micro Habitat:
VERNAL POOLS IN THE CENTRAL VALLEY.	□

Last Date Observed: 2007-03-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-03-08	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
NEAR WHITE PEACOCK COURT, NORTH OF LAGUNA CREEK, ELK GROVE.

Detailed Location:
2 BASINS REPRESENTED. NORTH BASIN, "VERNAL POOL #5," WAS SITE OF 2001 DETECTION AND IS MAPPED TO LOCATION GIVEN ON VICINITY MAP. SOUTH BASIN, SITE OF 2006 & 2007 DETECTIONS, IS MAPPED TO GIVEN COORDINATES.

Ecological:
DISKED FIELDS INTERSPERSED WITH VERNAL POOLS AND SEASONAL WETLANDS, MANY DISKED BUT STILL EVIDENT (2001). AERIAL PHOTOS INDICATE THAT SINCE 2001, THE NORTHERN POOL HAS BEEN DEVELOPED. THE SOUTH POOL WAS 195 SQUARE M, 8 CM DEEP IN 2006.

Threats:
THREATENED BY DEVELOPMENT.

General:
MORE THAN 100 FOUND IN VERNAL POOL #5, 11 MAR 2001. 100S OBSERVED ON 25 JAN 2006. 100S OBSERVED ON 8 MAR 2007.

PLSS: T07N, R05E, Sec. 25 (M)	Accuracy: specific area	Area (acres): 8
UTM: Zone-10 N4254814 E640785	Latitude/Longitude: 38.43050 / -121.38704	Elevation (feet): 30

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

BAL06F0003	BALLARD, A. & S. ROPER - FIELD SURVEY FORM FOR BRANCHINECTA MESOVALLENSIS 2006-01-25
BAL07F0005	BALLARD, A. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA MESOVALLENSIS 2007-03-08
ECO01R0001	ECORP CONSULTING, INC. - ANNUAL REPORT OF FINDINGS REGARDING FEDERALLY-LISTED CRUSTACEA FOR SHELDON ESTATES II 2001-07-25
RAM01F0004	RAMONES, S. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR BRANCHINECTA MESOVALLENSIS 2001-03-11



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	34812	EO Index:	48247
Key Quad:	Florin (3812144)	Element Code:	ICBRA03150
Occurrence Number:	26	Occurrence Last Updated:	2014-07-24

Scientific Name:	<i>Branchinecta mesovallensis</i>	Common Name:	midvalley fairy shrimp
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2 State: S2	Other Lists:	

General Habitat:	Micro Habitat:
VERNAL POOLS IN THE CENTRAL VALLEY.	□

Last Date Observed:	1997-03-06	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1997-03-06	Occurrence Rank:	Unknown
Owner/Manager:	PVT-GRUPE DEVELOPMENT CO	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 BETWEEN WESTERN PACIFIC RAILROAD AND I-5, SOUTH OF ELK GROVE BLVD AND NORTH OF BILBY ROAD, ELK GROVE.

Detailed Location:
 MAPPED TO SURVEYED AREA AT ELLIOTT RANCH MITIGATION SITE; DETECTED AT POOLS VP201, VP202 AND SW235 IN 1997. SPECIMEN WITH LOCALITY "5.0 MILES SOUTH OF SACRAMENTO ALONG I-5," ALSO ATTRIBUTED HERE.

Ecological:
 NATURAL & CONSTRUCTED HARDPAN VERNAL POOLS, SEASONAL MARSHES & WETLANDS WITHIN NON-NATIVE ANNUAL GRASSLAND.

Threats:
General:
 3 COLLECTED ON 13 MAR 1991 (BELK #1018, USNM #1084032). FOUND IN UNKNOWN # OUT OF 21 SAMPLED POOLS, FEB 1995. IN 70 POOLS, FEB-MAR 1996. FOUND IN 3 OF 52 POOLS ON 10, 14 JAN & 6 MAR 1997. BRANCHINECTA SP OBS IN 11 POOLS 25 JAN-22 FEB 1998.

PLSS: T06N, R05E, Sec. 06 (M)	Accuracy: specific area	Area (acres): 570
UTM: Zone-10 N4250798 E633934	Latitude/Longitude: 38.39538 / -121.46627	Elevation (feet): 15

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

BEL00A0001 BELK, D. & M. FUGATE - TWO NEW BRANCHINECTA (CRUSTACEA: ANOSTRACA) FROM THE SOUTHWESTERN UNITED STATES. THE SOUTHWESTERN NATURALIST 45(2):111-117. 2000-06-XX

MUT91S0002 MUTH, D. - USNM #1084032, COLLECTED "5.0 MILES SOUTH OF SACRAMENTO ALONG I-5." 1991-03-13

SUG95R0002 SUGNET & ASSOCIATES - CORRECTIONS TO ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT #PRT-795933, 1994-95. 1995-10-30

SUG96R0001 SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED BRANCHIOPODS CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933. 1996-XX-XX

SUG97R0001 SUGNET & ASSOCIATES - 1997 ANNUAL REPORT TO THE U.S. FISH & WILDLIFE SERVICE REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NO. PRT-795933 1997-XX-XX

SUG97R0002 SUGNET & ASSOCIATES - 90-DAY REPORT OF FINDINGS REGARDING FEDERALLY-LISTED CRUSTACEA AT THE ELLIOTT RANCH MITIGATION SITE WATERFOWL STUDY AREA, SACRAMENTO COUNTY, CALIFORNIA 1997-05-03

SUG98R0003 SUGNET & ASSOCIATES - 90-DAY REPORT OF FINDINGS REGARDING FEDERALLY-LISTED CRUSTACEA AT THE ELLIOT RANCH MITIGATION SITE WATERFOWL STUDY AREA, SACRAMENTO COUNTY, CALIFORNIA. 1998-10-08



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 48248	EO Index: 48248
Key Quad: Florin (3812144)	Element Code: ICBRA03150
Occurrence Number: 27	Occurrence Last Updated: 2014-07-22

Scientific Name: <i>Branchinecta mesovallensis</i>	Common Name: midvalley fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS IN THE CENTRAL VALLEY.	Micro Habitat: □
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Last Date Observed: 1991-03-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-03-13	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Extirpated	

Location:
ABOUT 4 MILES SOUTH OF SACRAMENTO AND 2 MILES EAST OF I-5.

Detailed Location:
MAPPED TO LOCATION FROM ROGERS MAPS AND SPECIMEN LOCALITY, "4.0 MILES SOUTH OF SACRAMENTO, 2 MILES EAST OF INTERSTATE 5."

Ecological:
VERNAL POOL. 2008 AERIAL PHOTO SHOWS THAT THIS AREA HAS BEEN COMPLETELY DEVELOPED.

Threats:
DEVELOPMENT.

General:
10 COLLECTED ON 13 MAR 1991 (BELK #1021, USNM #1144062).

PLSS: T07N, R05E, Sec. 32 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4252377 E635652	Latitude/Longitude: 38.40934 / -121.44630	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

BEL00A0001	BELK, D. & M. FUGATE - TWO NEW BRANCHINECTA (CRUSTACEA: ANOSTRACA) FROM THE SOUTHWESTERN UNITED STATES. THE SOUTHWESTERN NATURALIST 45(2):111-117. 2000-06-XX
MUT91S0003	MUTH, D. - USNM #1144062, COLLECTED "4.0 MILES SOUTH OF SACRAMENTO, 2 MILES EAST OF INTERSTATE 5." 1991-03-13
ROG01M0001	ROGERS, D. (ECOANALYSTS, INC.) - MAPS WITH LOCATION INFORMATION FOR BRANCHINECTA MESOVALLENSIS. DATES FOR LOCATIONS UNKNOWN. 2001-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 48317	EO Index: 48317
Key Quad: Carmichael (3812153)	Element Code: ICBRA03150
Occurrence Number: 28	Occurrence Last Updated: 2014-11-26

Scientific Name: <i>Branchinecta mesovallensis</i>	Common Name: midvalley fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat:	Micro Habitat:
VERNAL POOLS IN THE CENTRAL VALLEY.	□

Last Date Observed: 1991-03-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-03-28	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
 NE OF JACKSON RD AT EXCELSIOR RD AND S OF SACRAMENTO RACEWAY PARK, BOUT 2-2.5 MILES S OF MATHER AIRPORT, RANCHO CORDOVA.

Detailed Location:
 SOME MAPPED LOCATION INFORMATION FROM D. ROGERS BASED ON VARIOUS SOURCES.

Ecological:
 VERNAL POOL COMPLEX IN GRASSLAND.

Threats:

General:
 3 COLLECTED 1 APR 1989 (BELK #895, USNM #1144020). 10 COLLECTED MAR 1991 (BELK #1006 & 1010-1013; USNM #1144050, 1144054-1144057). UNKNOWN # OBSERVED/COLLECTED AT SITES #001, 002 & 027 ON UNKNOWN DATE (D. ROGERS); INFO FROM VARIOUS SOURCES.

PLSS: T08N, R06E, Sec. 26 (M)	Accuracy: nonspecific area	Area (acres): 234
UTM: Zone-10 N4264954 E649000	Latitude/Longitude: 38.52052 / -121.29081	Elevation (feet): 100

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

ANO89S0008	ANONYMOUS - USNM #1144020, COLLECTED FROM "VERNAL POOLS SOUTH OF MATHER AIR FORCE BASE." 1989-04-01
BEL00A0001	BELK, D. & M. FUGATE - TWO NEW BRANCHINECTA (CRUSTACEA: ANOSTRACA) FROM THE SOUTHWESTERN UNITED STATES. THE SOUTHWESTERN NATURALIST 45(2):111-117. 2000-06-XX
HUB91S0002	HUBER, A. - USNM #1144050, COLLECTED FROM "VERNAL POOL GRASSLAND JUST SOUTH OF MATHER AIR FORCE BASE." 1991-03-27
HUB91S0003	HUBER, A. - USNM #1144054 & 1144055, COLLECTED AT "GRANITE I AREA SOUTH OF MATHER AIR FORCE BASE." 1991-03-28
HUB91S0004	HUBER, A. - USNM #1144056, COLLECTED SOUTH OF MATHER AIR FORCE BASE. 1991-03-14
HUB91S0005	HUBER, A. - USNM #1144057, COLLECTED FROM "GRANITE AREA SOUTH OF MATHER AIR FORCE BASE." 1991-03-28
ROG01M0001	ROGERS, D. (ECOANALYSTS, INC.) - MAPS WITH LOCATION INFORMATION FOR BRANCHINECTA MESOVALLENSIS. DATES FOR LOCATIONS UNKNOWN. 2001-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 48318	EO Index: 48318
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03150
Occurrence Number: 29	Occurrence Last Updated: 2014-11-26

Scientific Name: <i>Branchinecta mesovallensis</i>	Common Name: midvalley fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS IN THE CENTRAL VALLEY.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 1991-03-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-03-19	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST NW OF CALVINE ROAD AT BRADSHAW ROAD, ELK GROVE.

Detailed Location:
SITE NOTED AS BELMONT ESTATES (OGDEN RANCH). JUST SOUTH OF BRADSHAW CHRISTIAN SCHOOL (DEVELOPED ABOUT 1998) AND 0.5 MILES EAST OF SHELDON HIGH SCHOOL (DEVELOPED MID 1990S).

Ecological:
VERNAL POOLS. SITE APPEARS TO BE REGULARLY DISCED IN AERIALS FROM 1993-2014. ADDITIONAL SITES NEARBY MAY HARBOR REFUGE.

Threats:
General:

2 COLLECTED 19 MAR 1991 BY BRENT HELM (BELK #1014, USNM #1084031). UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITE #003 (D. ROGERS) ON AN UNKNOWN DATE; ROGERS' LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES.

PLSS: T07N, R06E, Sec. 17 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4257435 E645221	Latitude/Longitude: 38.45341 / -121.33570	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

BEL00A0001	BELK, D. & M. FUGATE - TWO NEW BRANCHINECTA (CRUSTACEA: ANOSTRACA) FROM THE SOUTHWESTERN UNITED STATES. THE SOUTHWESTERN NATURALIST 45(2):111-117. 2000-06-XX
HEL91S0002	HELM, B. - USNM #1084031, COLLECTED FROM "BELMONT ESTATES (OGDEN RANCH) VERNAL POOL, NORTHWEST OF INTERSECTION OF BRADSHAW ROAD AND CALVINE ROAD." 1991-03-19
ROG01M0001	ROGERS, D. (ECOANALYSTS, INC.) - MAPS WITH LOCATION INFORMATION FOR BRANCHINECTA MESOVALLENSIS. DATES FOR LOCATIONS UNKNOWN. 2001-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 48348	EO Index: 48348
Key Quad: Florin (3812144)	Element Code: ICBRA03150
Occurrence Number: 40	Occurrence Last Updated: 2009-06-08

Scientific Name: <i>Branchinecta mesovallensis</i>	Common Name: midvalley fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS IN THE CENTRAL VALLEY.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: XXXX-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: XXXX-XX-XX	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Extirpated	

Location:
5.2 MILES WEST OF ELK GROVE, 200 FT NORTH OF ELK GROVE BLVD, 0.45 MILE WEST OF FRANKLIN BLVD.

Detailed Location:

Ecological:
2008 AERIAL PHOTO SHOWS THAT THIS AREA HAS BEEN COMPLETELY DEVELOPED.

Threats:
General:
UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITE #015. DATE OF COLLECTION UNKNOWN. LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES.

PLSS: T07N, R05E, Sec. 32 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4252358 E634611	Latitude/Longitude: 38.40933 / -121.45822	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
ROG01M0001 ROGERS, D. (ECOANALYSTS, INC.) - MAPS WITH LOCATION INFORMATION FOR BRANCHINECTA MESOVALLENSIS. DATES FOR LOCATIONS UNKNOWN. 2001-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 48349	EO Index: 48349
Key Quad: Florin (3812144)	Element Code: ICBRA03150
Occurrence Number: 41	Occurrence Last Updated: 2002-07-24

Scientific Name: <i>Branchinecta mesovallensis</i>	Common Name: midvalley fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS IN THE CENTRAL VALLEY.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: XXXX-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: XXXX-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
4.5 MILES WEST OF ELK GROVE, 1.1 MILES NORTH OF ELK GROVE BLVD ALONG FRANKLIN BLVD AND 400 FT TO THE EAST.

Detailed Location:

Ecological:

Threats:

General:

UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITE #005. DATE OF COLLECTION UNKNOWN. LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES.

PLSS: T07N, R05E, Sec. 29 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4254026 E635629	Latitude/Longitude: 38.42421 / -121.44625	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
ROG01M0001 ROGERS, D. (ECOANALYSTS, INC.) - MAPS WITH LOCATION INFORMATION FOR BRANCHINECTA MESOVALLENSIS. DATES FOR LOCATIONS UNKNOWN. 2001-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 48362	EO Index: 48362
Key Quad: Carmichael (3812153)	Element Code: ICBRA03150
Occurrence Number: 45	Occurrence Last Updated: 2002-07-29

Scientific Name: <i>Branchinecta mesovallensis</i>	Common Name: midvalley fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat:	Micro Habitat:
VERNAL POOLS IN THE CENTRAL VALLEY.	<input type="checkbox"/>

Last Date Observed: XXXX-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: XXXX-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SSE OF MATHER REGIONAL PARK, 0.3 MILE NORTH OF KIEFER BLVD AND 0.25 MILE WEST OF EAGLES NEST RD.

Detailed Location:

Ecological:

Threats:

General:

UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITE #017. DATE OF OBSERVATION/COLLECTION UNKNOWN. LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES. ONE COLLECTION BY P. BALFOUR SAYS ONLY "MATHER AIR FORCE BASE."

PLSS: T08N, R06E, Sec. 24 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4266418 E651162	Latitude/Longitude: 38.53334 / -121.26570	Elevation (feet): 140

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

ROG01M0001 ROGERS, D. (ECOANALYSTS, INC.) - MAPS WITH LOCATION INFORMATION FOR BRANCHINECTA MESOVALLENSIS. DATES FOR LOCATIONS UNKNOWN. 2001-XX-XX

ROG04U0002 ROGERS, D. - EMAIL WITH LOCALITY RECORDS FOR LEPIDURUS PACKARDI, BRANCHINECTA CONSERVATIO, B. LONGIANTENNA, B. LYNCHI, B. MESOVALLENSIS, B. SANDIEGONENSIS AND STREPTOCEPHALUS WOOTTONI 2004-10-08



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 51354	EO Index: 51354
Key Quad: Buffalo Creek (3812152)	Element Code: ICBRA03150
Occurrence Number: 55	Occurrence Last Updated: 2014-12-15

Scientific Name: <i>Branchinecta mesovallensis</i>	Common Name: midvalley fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat:	Micro Habitat:
VERNAL POOLS IN THE CENTRAL VALLEY.	□

Last Date Observed: 2005-01-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-01-21	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
 SW OF JACKSON ROAD AT FOLSOM SOUTH CANAL/SUNRISE BLVD, & E OF EAGLES NEST ROAD, ABOUT 4.5 MILES SE OF MATHER AIRPORT.

Detailed Location:
 TRIANGLE ROCK GRECH PROPERTY.

Ecological:
 HARDPAN VERNAL POOLS AND SEASONAL WETLANDS WITHIN NON-NATIVE ANNUAL GRASSLAND. FROM AERIALS, MINING BEGAN AT THE SITE AROUND 1998 AND EXPANDED BY 2005 AND AGAIN BY 2009, THOUGH IT APPEARS SOME POOLS PRESERVED NEAR LAGUNA CREEK.

Threats:
 SURFACING MINING HAS VISIBLY MODIFIED A LARGE AREA; PARTS OF SITE ARE LIKELY EXTIRPATED, BUT SOME PROBABLY PRESERVED.

General:
 SPECIES OBSERVED IN UNKNOWN NUMBER OF 80 SAMPLED POOLS DURING FEB - MAY 1995. DETECTED IN UP TO 21 OF 31 POOLS, 21 JAN 2005.

PLSS: T08N, R07E, Sec. 31 (M)	Accuracy: nonspecific area	Area (acres): 177
UTM: Zone-10 N4262928 E652750	Latitude/Longitude: 38.50163 / -121.24825	Elevation (feet): 110

County Summary:	Quad Summary:
Sacramento	Sloughouse (3812142), Elk Grove (3812143), Buffalo Creek (3812152), Carmichael (3812153)

Sources:

LSA06R0001	LSA ASSOCIATES, INC. - 2005 ANNUAL REPORT TO THE U.S. FISH AND WILDLIFE SERVICE FOR SECTION 10 (A) (R) (A) PERMIT NUMBER TE-797234-6 ISSUED TO LSA ASSOCIATES, INC. 2006-01-31
SUG95R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX
SUG95R0002	SUGNET & ASSOCIATES - CORRECTIONS TO ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT #PRT-795933, 1994-95. 1995-10-30



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	32447	EO Index:	51363
Key Quad:	Carmichael (3812153)	Element Code:	ICBRA03150
Occurrence Number:	56	Occurrence Last Updated:	2014-11-26

Scientific Name:	<i>Branchinecta mesovallensis</i>	Common Name:	midvalley fairy shrimp
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2 State: S2	Other Lists:	

General Habitat:	Micro Habitat:
VERNAL POOLS IN THE CENTRAL VALLEY.	□

Last Date Observed:	1995-02-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1995-02-XX	Occurrence Rank:	Unknown
Owner/Manager:	PVT-GRANITE CONSTRUCTION CO	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 1.3 KM W OF KIEFER BLVD AND MATHER PARKWAY, SOUTH OF FORMER MATHER AFB.

Detailed Location:
 1993: LOCALITY GIVEN AS "JUST SOUTH OF KIEFER ROAD, 1 MILE WEST OF EXCELSIOR ROAD," EXACT COLLECTION LOCATION UNKNOWN, ATTRIBUTED HERE. 1995: EXACT DETECTION LOCATIONS NOT GIVEN; MAPPED TO GRANITE-TEICHERT PILOT PROJECT SITE (PART).

Ecological:
 HABITAT CONSISTS OF HARDPAN VERNAL POOLS WITHIN A NON-NATIVE GRASSLAND.

Threats:
General:
 4 COLLECTED FROM VICINITY ON 3 MAR 1993 (BELK #1298, USNM #1084043). SPECIES OBSERVED IN UNKNOWN NUMBER OF 10 SAMPLED POOLS BETWEEN THIS SITE AND A SITE TO THE NE (OCC #57), FEB 1995.

PLSS: T08N, R06E, Sec. 22 (M)	Accuracy: specific area	Area (acres): 5
UTM: Zone-10 N4266606 E647513	Latitude/Longitude: 38.53565 / -121.30751	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

BAL93S0001	BALFOUR, P. - USNM #1084043, COLLECTED "JUST SOUTH OF KIEFER ROAD, 1 MILE WEST OF EXCELSIOR ROAD." 1993-03-03
SUG95R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX
SUG95R0002	SUGNET & ASSOCIATES - CORRECTIONS TO ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT #PRT-795933, 1994-95. 1995-10-30



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	32455	EO Index:	51364
Key Quad:	Carmichael (3812153)	Element Code:	ICBRA03150
Occurrence Number:	57	Occurrence Last Updated:	2003-05-21

Scientific Name:	<i>Branchinecta mesovallensis</i>	Common Name:	midvalley fairy shrimp
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2 State: S2	Other Lists:	

General Habitat:	Micro Habitat:
VERNAL POOLS IN THE CENTRAL VALLEY.	<input type="checkbox"/>

Last Date Observed:	1995-02-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1995-02-XX	Occurrence Rank:	Unknown
Owner/Manager:	PVT-GRANITE CONSTRUCTION CO	Trend:	Unknown
Presence:	Presumed Extant		

Location:
ALONG NORTH EDGE OF KIEFER BLVD, 0.7 KM WNW OF KEIFER BLVD AND MATHER PARKWAY.

Detailed Location:
GRANITE-TEICHERT PILOT PROJECT SITE (PART).

Ecological:
HABITAT CONSISTS OF HARDPAN VERNAL POOLS WITHIN A NON-NATIVE GRASSLAND.

Threats:
General:
SPECIES OBSERVED IN UNKNOWN NUMBER OF 10 SAMPLED POOLS BETWEEN THIS SITE AND A SITE TO THE SW (OCC #56). SAMPLING OCCURRED DURING FEB 1995.

PLSS: T08N, R06E, Sec. 22 (M)	Accuracy: specific area	Area (acres): 2
UTM: Zone-10 N4266913 E648056	Latitude/Longitude: 38.53832 / -121.30122	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

SUG95R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX
SUG95R0002	SUGNET & ASSOCIATES - CORRECTIONS TO ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT #PRT-795933, 1994-95. 1995-10-30



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 60907
Key Quad: Florin (3812144)
Occurrence Number: 65

EO Index: 60943
Element Code: ICBRA03150
Occurrence Last Updated: 2005-04-11

Scientific Name: *Branchinecta mesovallensis*

Common Name: midvalley fairy shrimp

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2
 State: S2

Rare Plant Rank:
Other Lists:

General Habitat:
 VERNAL POOLS IN THE CENTRAL VALLEY.

Micro Habitat:

Last Date Observed: 2004-03-12
Last Survey Date: 2004-03-12
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 NORTHWEST CORNER OF INTERSECTION OF BRUCEVILLE RD AND JACINTO RD.

Detailed Location:

Ecological:

SITE IS COMPOSED OF NON-NATIVE ANNUAL GRASSLAND AND APPEARS TO BE DISKED AT LEAST ANNUALLY FOR WEED CONTROL AND FIRE PREVENTION.

Threats:

POTENTIAL DEVELOPMENT.

General:

6 SEASONAL WETLAND FEATURES SAMPLED BETWEEN 2 JAN & 12 MAR 2004. 1 MALE FAIRY SHRIMP OBSERVED IN VP-01 ON 12 MAR 2004.

PLSS: T07N, R05E, Sec. 22 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4256729 E637915	Latitude/Longitude: 38.44821 / -121.41953	Elevation (feet): 25

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

ECO04R0008 ECORP CONSULTING, INC. - ANNUAL REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED CRUSTACEANS FOR BRUCEVILLE ROAD NORTH (SACRAMENTO COUNTY, CALIFORNIA). 2004-06-22



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 94540	EO Index: 95656
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03150
Occurrence Number: 111	Occurrence Last Updated: 2014-11-25

Scientific Name: <i>Branchinecta mesovallensis</i>	Common Name: midvalley fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS IN THE CENTRAL VALLEY.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 2011-02-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-02-XX	Occurrence Rank: Unknown
Owner/Manager: SACTO VALLEY CONSERVANCY	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO PRAIRIE VERNAL POOL PRESERVE; ABOUT 0.7MI SE OF EXCELSIOR & DIERKS RDS, 0.9MI NW OF GRANT LINE & CALVINE RDS.

Detailed Location:
WERRE PARCEL. MAPPED TO LOCATION GIVEN FOR POOL #31.

Ecological:
VERNAL POOLS IN MATRIX OF CALIFORNIA ANNUAL GRASSLAND ON GENTLY ROLLING TOPOGRAPHY. AREA IS PROTECTED AS A PRESERVE.

Threats:
General:
NOT DETECTED DURING 2005 SURVEYS. POOL DRY DURING 2008 SURVEYS. DETECTED IN LOW ABUNDANCE DURING 2011 SURVEYS.

PLSS: T07N, R06E, Sec. 14 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4258599 E649516	Latitude/Longitude: 38.46318 / -121.28625	Elevation (feet): 90

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
WIT11U0004 WITHAM, C. - LAGUNA AND WERRE SOUTH PARCELS, BRANCHIOPOD MONITORING, 90-DAY REPORT, RECOVERY PERMITS TE-799570-3, SERVICE FILE NO. 1-1-04-F-096, 2010-TA-0243 2011-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 94541	EO Index: 95659
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03150
Occurrence Number: 112	Occurrence Last Updated: 2014-12-15

Scientific Name: <i>Branchinecta mesovallensis</i>	Common Name: midvalley fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS IN THE CENTRAL VALLEY.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 2011-02-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-02-XX	Occurrence Rank: Good
Owner/Manager: SACTO VALLEY CONSERVANCY	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO PRAIRIE VERNAL POOL PRESERVE; ON THE E SIDE OF EXCELSIOR RD ABOUT 0.6 MI SSE OF THE GERBER RD INTERSECTION.

Detailed Location:
LAGUNA PARCEL ALONG LAGUNA CREEK. MAPPED TO LOCATIONS GIVEN FOR OCCUPIED POOLS #159, 163, 164, & 168.

Ecological:
VERNAL POOLS IN MATRIX OF CALIFORNIA ANNUAL GRASSLAND ON GENTLY ROLLING TOPOGRAPHY. AREA IS PROTECTED AS A PRESERVE.

Threats:
General:
NOT DETECTED DURING SURVEYS IN 2005 OR 2008; POOLS #163 & 168 DRY DURING 2008 SURVEYS. DETECTED IN HIGH TO VERY HIGH ABUNDANCE DURING 2011 SURVEYS.

PLSS: T07N, R06E, Sec. 11 (M)	Accuracy: specific area	Area (acres): 12
UTM: Zone-10 N4259704 E648679	Latitude/Longitude: 38.47327 / -121.29560	Elevation (feet): 95

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
WIT11U0004 WITHAM, C. - LAGUNA AND WERRE SOUTH PARCELS, BRANCHIOPOD MONITORING, 90-DAY REPORT, RECOVERY PERMITS TE-799570-3, SERVICE FILE NO. 1-1-04-F-096, 2010-TA-0243 2011-05-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	94542	EO Index:	95660
Key Quad:	Elk Grove (3812143)	Element Code:	ICBRA03150
Occurrence Number:	113	Occurrence Last Updated:	2014-11-25

Scientific Name:	<i>Branchinecta mesovallensis</i>	Common Name:	midvalley fairy shrimp
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2 State: S2	Other Lists:	

General Habitat:	Micro Habitat:
VERNAL POOLS IN THE CENTRAL VALLEY.	<input type="checkbox"/>

Last Date Observed:	2008-02-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2008-02-01	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
KLOTZ PROPERTY OPEN SPACE PRESERVE, ABOUT 1.0MI NE OF EXCELSIOR & GERBER RDS, 1.3MI NW OF GRANT LINE & EAGLES NEST RDS.

Detailed Location:
MAPPED TO LOCATION GIVEN FOR OCCUPIED POOL #130.

Ecological:
NATURAL VERNAL POOLS ON 320-ACRE PRESERVE TRAVERSED BY LAGUNA CREEK.

Threats:
General:
DETECTED IN 1 OF 21 POOLS SAMPLED ON 1 FEB 2008.

PLSS:	T07N, R06E, Sec. 11 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4259944 E650033	Latitude/Longitude:	38.47521 / -121.28003	Elevation (feet):	90

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
BAR08R0001 BARTLEY, N. (ECORP CONSULTING, INC.) - 90-DAY REPORT OF FINDINGS REGARDING BRANCHIOPOD ASSESSMENT SURVEY
KLOTZ PROPERTY OPEN SPACE PRESERVE 2008-02-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 94549	EO Index: 95665
Key Quad: Elk Grove (3812143)	Element Code: ICBRA03150
Occurrence Number: 114	Occurrence Last Updated: 2014-12-15

Scientific Name: <i>Branchinecta mesovallensis</i>	Common Name: midvalley fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS IN THE CENTRAL VALLEY.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 1994-03-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-03-03	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
ABOUT 0.6 MILES NE OF VINTAGE PARK DR AT WATERMAN RD AND 1.1 MILES NW OF BRADSHAW ROAD AT CALVINE ROAD, VINEYARD.

Detailed Location:
MAPPED GENERALLY TO GIVEN LOCALITY, "1 MILE NORTH OF CALVINE ROAD, 1/2 MILE WEST OF BRADSHAW ROAD." NOW IN THE VICINITY OF BOTHWELL DRIVE.

Ecological:
AIR PHOTOS SHOW THAT DEVELOPMENT STARTED OCCURRING IN THIS AREA IN 1993 AND BY 2002 HALF OF THE SITE WAS DEVELOPED AS HOUSES. SMALL PARCELS TO THE NORTH APPEAR TO HAVE POSSIBLE SUITABLE HABITAT IN 2014 AERIALS.

Threats:
General:
5 COLLECTED ON 3 MAR 1994 (BELK #1291, USNM #1084037)

PLSS: T07N, R06E, Sec. 17 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4258926 E644487	Latitude/Longitude: 38.46696 / -121.34380	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
FIE94S0001 FIELDS - USNM #1084037, COLLECTED "1 MILE NORTH OF CALVINE ROAD, ONE-HALF MILE WEST OF BRADSHAW ROAD." 1994-03-03



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	94556	EO Index:	95672
Key Quad:	Elk Grove (3812143)	Element Code:	ICBRA03150
Occurrence Number:	115	Occurrence Last Updated:	2014-11-25

Scientific Name:	<i>Branchinecta mesovallensis</i>	Common Name:	midvalley fairy shrimp
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2 State: S2	Other Lists:	

General Habitat:	Micro Habitat:
VERNAL POOLS IN THE CENTRAL VALLEY.	<input type="checkbox"/>

Last Date Observed:	2008-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2008-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 NEWLAND HANSEN PROPERTY ALONG LAGUNA CREEK, ON THE NORTHWEST CORNER OF SHELDON ROAD AT WATERMAN ROAD, ELK GROVE.

Detailed Location:
 MAPPED TO PROPERTY BOUNDARIES; 2004 & 2008 WET SEASON DETECTION LOCATIONS UNKNOWN; CYSTS SUCCESSFULLY CULTURED INTO B. MESOVALLENSIS WERE COLLECTED FROM POOL VP8.

Ecological:
Threats:

General:
 DETECTED DURING WET-SEASON SURVEYS IN 2004 AND 2008. B. MESOVALLENSIS WAS CULTURED FROM CYSTS COLLECTED DURING DRY-SEASON SURVEY IN 2008.

PLSS: T07N, R06E, Sec. 20 (M)	Accuracy: nonspecific area	Area (acres): 115
UTM: Zone-10 N4256019 E644213	Latitude/Longitude: 38.44081 / -121.34753	Elevation (feet): 55

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
 HELM08R0019 HELM, B. & T. WOOD (HELM BIOLOGICAL CONSULTING) - HATCHING OF LARGE BANCHIOPOD CYSTS COLLECTED FROM THE NEWLAND HANSEN PROPERTY 2008-12-02



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24533	EO Index: 1788	
Key Quad: Florin (3812144)	Element Code: ICBRA06010	
Occurrence Number: 27	Occurrence Last Updated: 2014-07-31	

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 2013-01-29	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2013-01-29	Occurrence Rank: Fair
Owner/Manager: SRCSD, PVT-WESTERN PACIFIC RR	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG RAILROAD TRACKS FROM JUST E OF SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT, S TO DWIGHT RD, S OF SACRAMENTO.

Detailed Location:
FOUND ALONG BOTH SIDES OF THE WESTERN PACIFIC RR TRACKS. 1995 SPECIMEN TAKEN "E OF SRWTP, W OF RR TRACKS" ATTRIBUTED HERE. N-MOST POLYGON REPRESENTS 1992-1993 DETECTIONS; REST OF POLYGONS MAPPED TO LAT/LONG GIVEN FOR 2012/13 DETECTIONS.

Ecological:
WEEDY, WATER-FILLED DEPRESSIONS WITHIN RAILROAD ROW; SLIGHTLY TURBID WATER; DOMINANT PLANTS WERE JUNCUS BUFONIUS, PLAGIOBOTHRYUS STIPITATUS VAR. MICRANTHUS, GRATIOLA EBRACTEATA, LYTHRUM HYSSOPIFOLIA (1993). LEPIDURUS PACKARDI ALSO FOUND.

Threats:
MOSQUITO ABATEMENT, VEGETATION CONTROL (1993); UTILITY & RAILROAD MAINTENANCE; (1993/2013), WEEDS (2013).

General:
DETECTED ON 2 APR 1992. DETECTED AND COLLECTED ON 11 FEB; OVER 100 DETECTED ON 23 FEB 1993. 1 COLLECTED ON 6 JAN 1995 (CASIZ #104241). 60,000 DETECTED IN 17 BASINS BETWEEN 10 DEC 2012 AND 29 JAN 2013.

PLSS: T07N, R05E, Sec. 20 (M)	Accuracy: specific area	Area (acres): 49
UTM: Zone-10 N4256132 E634483	Latitude/Longitude: 38.44335 / -121.45897	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Florin (3812144)
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- Sources:**
- KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX
 - LEA93F0010 LEACH, S. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1993-02-23
 - PIM13F0003 PIMENTEL, E. (AECOM) - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2013-01-29
 - WAL95S0017 WALKER, R. & R. KOFORD - CASIZ #104241, COLLECTED "EAST OF SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT... 400 FEET NORTH OF PLANT ENTRANCE." 1995-01-06
 - YOR93F0007 YORK, R. & M. SAZAKI - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 1993-02-11



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	31558	EO Index:	22317
Key Quad:	Sacramento East (3812154)	Element Code:	ICBRA06010
Occurrence Number:	49	Occurrence Last Updated:	1995-10-02

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	1995-02-14	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1995-04-21	Occurrence Rank:	Fair
Owner/Manager:	DOD-BT COLLINS RESERVE TR CNTR	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 FORMER SACRAMENTO ARMY DEPOT, B.T. COLLINS ARMY RESERVE TRAINING CENTER.

Detailed Location:
 FOUND ONLY IN SEASONAL WETLAND INSIDE THE OVAL OF AND ADJACENT TO THE RUNNING TRACK. PROBABLY EXTIRPATED; SEE EO FOR B. LYNCHI AT SAME LOCATION (EONDx 6893).

Ecological:
 53 PONDED WATER AREAS SAMPLED EVERY 2 WEEKS BETWEEN 12/19/94 & 4/21/95. AREA SURVEYED INCLUDED SEASONAL WETLANDS, SHALLOW SWALES, TIRE TRACKS, PONDED AREAS IN RUNNING TRACK & BASEBALL DIAMOND, & FIELD & ROADSIDE DRAINAGE DITCHES.

Threats:
General:
 LINDERIELLA OCCIDENTALIS WAS FOUND IN 6 OF THE 53 SITES FROM 1/31/95 TO 2/14/95; 31 ADULTS COLLECTED AND DEPOSITED IN CAS. 3 OF THE 6 POOLS ALSO HAD BRACHINECTA LYNCHI; MORE POOL INFO IN REPORT.

PLSS: T08N, R05E, Sec. 26 (M)	Accuracy: nonspecific area	Area (acres): 5
UTM: Zone-10 N4263773 E639762	Latitude/Longitude: 38.51137 / -121.39697	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:

CRO95F0003	CROWE, D. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 1995-01-31
FOS95R0001	FOSTER WHEELER ENVIRONMENTAL CORP. - B.T. COLLINS ARMY RESERVE TRAINING CENTER 1994-95 VERNAL POOL CRUSTACEAN PRESENCE/ABSENCE SURVEY 60-DAY REPORT 1995-06-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	32459	EO Index:	6484
Key Quad:	Carmichael (3812153)	Element Code:	ICBRA06010
Occurrence Number:	50	Occurrence Last Updated:	1997-03-27

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	1996-03-21	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1996-03-21	Occurrence Rank:	Excellent
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 SW OF MATHER AFB; BETWEEN KIEFER BLVD, BRADSHAW ROAD, JACKSON ROAD, AND EXCELSIOR ROAD.

Detailed Location:
 1992: GRANITE CONSTRUCTION COMPANY AND TEICHERT MINING COMPANY; OVERALL SITE QUALITY MAY BE QUESTIONABLE. 1995 AND 1996: GRANITE-TEICHERT PILOT PROJECT SITE, MID-VALLEY FAIRY SHRIMP (BRANCHINECTA SP.) OBSERVED IN POOL #8 IN 1995.

Ecological:
 CONSTRUCTED AND NATURAL VERNAL POOLS WITHIN ANNUAL GRASSLAND.

Threats:
 GRAZING; GRAVEL PITS IN NORTHERN PORTIONS OF SITE; PROPOSED AGGREGATE MINING.

General:
 1992: MANY INDIVIDUALS OBS BY A. HUBER FROM 2/22-3/31. 4/2-KOFORD OBS ALONG EXCELSIOR RD 0.6 & 1.1 MI N OF JACKSON HWY. 1995: SUGNET & ASSOC. OBS <50 ADULTS IN POOL #8. 1996: SUGNET & ASSOC. OBS 50+ ADULTS IN ALL 10 POOLS SURVEYED.

PLSS: T08N, R06E, Sec. 21 (M)	Accuracy: nonspecific area	Area (acres):	1,493
UTM: Zone-10 N4266114 E646979	Latitude/Longitude: 38.53130 / -121.31374	Elevation (feet):	70

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

HUB91F0002	HUBER, A. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORMS FOR LINDERIELLA OCCIDENTALIS (FEB-MAR) 1991-03-XX
KOF92U0001	KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX
SUG95R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX
SUG96R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED BRANCHIOPODS CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933. 1996-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95401	EO Index: 2088	
Key Quad: Rio Linda (3812164)	Element Code: ICBRA06010	
Occurrence Number: 57	Occurrence Last Updated: 2015-03-06	

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1995-03-16	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1995-03-16	Occurrence Rank: Excellent
Owner/Manager: DOD-MCCLELLAN AFB	Trend: Unknown
Presence: Presumed Extant	

Location:
MCCLELLAN AFB; FROM ABOUT 0.1 TO 0.5 MILES SW OF ASCOT AVE AT PATROL RD.

Detailed Location:
MAPPED TO LOCATIONS GIVEN FOR OCCUPIED POOLS, #111, M052, M073, M076, M95A (=MCC95A), M95B (=MCC95B), & M131.

Ecological:
VERNAL POOLS WITH ALGAE, GRASS, OR MUD BOTTOMS, 2 TO 40 INCHES IN MAXIMUM DEPTH; IN ANNUAL GRASSLAND. OSTRACODS, COPEPODS, TREE FROG TADPOLES ALSO FOUND; B. LYNCHI CO-OCCURRED IN 1 POOL.

Threats:
EXPANSION OF BASE FACILITIES; MODIFICATION OF WATERSHED; AIRCRAFT REPAIR; LIGHT INDUSTRIAL; RESIDENTIAL; COMMERCIAL.

General:
FOUND IN 7 POOLS DURING SURVEYS FEB-MAR 1995.

PLSS: T09N, R05E, Sec. 03 (M)	Accuracy: specific area	Area (acres): 25
UTM: Zone-10 N4280822 E637489	Latitude/Longitude: 38.66531 / -121.41967	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

LAC95F0001	LACY, T. (WESCO-RMI) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 1995-03-15
LAC95R0001	LACY, T. (WESCO-RMI) - 1995 VERNAL POOL CRUSTACEAN SURVEY RESULTS - MCCLELLAN AFB AND LINCOLN & DAVIS COMMUNICATIONS FACILITIES; CONSERVATION PLAN INCLUDED. 1995-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	32513	EO Index:	2085
Key Quad:	Rio Linda (3812164)	Element Code:	ICBRA06010
Occurrence Number:	62	Occurrence Last Updated:	1995-11-21

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	1995-03-16	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1995-03-16	Occurrence Rank:	Unknown
Owner/Manager:	DOD-MCCLELLAN AFB	Trend:	Unknown
Presence:	Presumed Extant		

Location:
MCCLELLAN AFB; CREEKS AREA; 0.8 KM NE OF MAIN AVENUE AND RALEY BLVD.

Detailed Location:

Ecological:

3 VERNAL POOLS WITH ALGAE OR GRASS BOTTOMS IN ANNUAL GRASSLAND. POOL SIZES: 25 FT X 10 FT, 50 X 15 FT & 150 X 50 FT WITH MAX DEPTHS OF 4, 6 & 12 INCHES. OSTRACODS, COPEPODS, FLATWORMS, BEETLES, & INSECT LARVAE ALSO FOUND IN POOLS.

Threats:

DEVELOPMENT; MILITARY USES; COMMERCIAL AND LIGHT INDUSTRIAL; RESIDENTIAL.

General:

POOL M025: LINDERIELLA OBSERVED ON 2/10 & 3/2/95, BUT NOT ON 3/16. TOAD TADPOLES OBSERVED ON 3/2; POOL M148: LINDERIELLA OBSERVED ON 2/10, 3/2, & 3/16/95. POOL M157: LINDERIELLA OBSERVED 2/10 BUT NOT 3/2 OR 3/16/95.

PLSS:	T09N, R05E, Sec. 19 (M)	Accuracy:	nonspecific area	Area (acres):	4
UTM:	Zone-10 N4280141 E637294	Latitude/Longitude:	38.65921 / -121.42205	Elevation (feet):	50

County Summary:

Sacramento

Quad Summary:

Rio Linda (3812164)

Sources:

LAC95R0001 LACY, T. (WESCO-RMI) - 1995 VERNAL POOL CRUSTACEAN SURVEY RESULTS - MCCLELLAN AFB AND LINCOLN & DAVIS COMMUNICATIONS FACILITIES; CONSERVATION PLAN INCLUDED. 1995-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	32518	EO Index:	2094
Key Quad:	Citrus Heights (3812163)	Element Code:	ICBRA06010
Occurrence Number:	64	Occurrence Last Updated:	2009-05-15

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	1996-03-06	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1996-05-27	Occurrence Rank:	Unknown
Owner/Manager:	PVT-STOCK RANCH	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 STOCK RANCH; 0.8 KM SW OF AUBURN ROAD X SYLVAN ROAD.

Detailed Location:
 1995-18 SEASONAL WETLAND/VERNAL POOL HABITATS SURVEYED; POOLS RANGED IN SIZE FROM 65 TO 9,920 SQ. FT; LINDERIELLA WAS FOUND IN SW-4. 1996-9 SEASONAL WETLAND/VERNAL POOL HABITAT SURVEYED; LINDERIELLA ONLY OBSERVED IN SW-4.

Ecological:
 SEASONAL WETLAND/VERNAL POOL HABITAT IN NON-NATIVE GRASSLAND, ORCHARDS, OAK WOODLAND & PORTIONS OF SAN JUAN & ARCADE CREEKS W/ ASSOCIATED DRAINAGES; PLANT SPECIES: AVENA SP., BROMUS RIGIDUS, B. MOLLIS, PERENNIAL RYE, ERODIUM & VICIA SPP.

Threats:
 PREDATION BY Hyla TADPOLES; COMPETITION PRESSURE FROM AQUATIC INSECTS; HEAVY VEHICLE USE ON SITE.

General:
 POOL #SW-4: LINDERIELLA OBSERVED IN 1995 (1/13, 1/27 & 2/9) AND 1996 (2/7, 2/21 & 3/6); SEVERAL GENERATIONS OF SHRIMP OBSERVED, WITH LACK OF ADULTS IN LAST GENERATION, POSSIBLY DUE TO PREDATION FROM Hyla TADPOLES.

PLSS:	T10N, R06E, Sec. 26 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4283651 E648098	Latitude/Longitude:	38.68909 / -121.29718	Elevation (feet):	125

County Summary:	Quad Summary:
Sacramento	Citrus Heights (3812163)

Sources:

GIB95R0002	GIBSON & SKORDAL, WETLAND CONSULTANTS - VERNAL POOL CRUSTACEAN SURVEY - STOCK RANCH (CALIFORNIA LINDERIELLA). 1995-07-XX
GIB96R0001	GIBSON & SKORDAL, WETLAND CONSULTANTS - FINAL VERNAL POOL CRUSTACEAN SURVEY REPORT - STOCK RANCH, SACRAMENTO COUNTY. 1996-06-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 26042	EO Index: 2090	
Key Quad: Rio Linda (3812164)	Element Code: ICBRA06010	
Occurrence Number: 72	Occurrence Last Updated: 1995-10-02	

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1993-02-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-02-12	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
600 FEET WEST OF EAST LEVEE ROAD; IMMEDIATELY SOUTH OF 2 TRANSMISSION-LINE TOWERS; 1.0 MI N OF ELKHORN BLVD.

Detailed Location:

Ecological:

NORTHERN HARDPAN VERNAL POOL; DOMINANT PLANTS: PLAGIOBOTHRYUS STIPITATUS VAR. MIRCANTHUS; P. GRENEI; PSILOCARPUS OREGANUS; P. BREVISSIMUS; GRATIOLA EBRACTEATA; LYTHRUM HYSSOPIFOLIA; POLYGONUM AVICULARE AND DOWNINGIA PUSILLA.

Threats:

ADJACENT LANDOWNERS WANT LEVEL LAND FOR AGRICULTURE AND SELL SURFACE MATERIAL FOR SACRAMENTO METRO AIRPORT DEVELOPMENT.

General:

>500 ADULTS OBSERVED, 1 COLLECTED FOR PERSONAL COLLECTION.

PLSS: T10N, R04E, Sec. 25 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4284528 E631498	Latitude/Longitude: 38.69961 / -121.48781	Elevation (feet): 30

County Summary:

Sacramento

Quad Summary:

Rio Linda (3812164)

Sources:

LEA93F0008 LEACH, S. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 1993-02-12



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	26043	EO Index:	2091
Key Quad:	Rio Linda (3812164)	Element Code:	ICBRA06010
Occurrence Number:	73	Occurrence Last Updated:	1995-10-02

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	1993-02-12	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1993-02-12	Occurrence Rank:	Fair
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
ON SOUTH SIDE OF GRAVEL ROAD; 220 FT W OF EAST LEVEE ROAD; 0.6 MI S OF ELVERTA ROAD X EAST LEVEE ROAD.

Detailed Location:

Ecological:

NORTHERN HARDPAN VERNAL POOL ON SAN JOAQUIN SERIES SOIL; DOMINANT PLANTS: PLAGIOBOTHRYDS, ERYNGIUM, GRATIOLA, LASTHERIA, RANUNCULUS, AND LIMNANTHUS. WATER WAS 6-10 INCHES DEEP IN FEBRUARY 1993. SITE CONTAINED WATER UNTIL LATE APRIL 1993.

Threats:
FARMING ON SITE; POSSIBILITY THAT OWNER WILL GRADE SITE TO FACILITATE IRRIGATION FOR GROWING MORE INTENSIVE CROPS (HAY).

General:
>500 ADULTS AND JUVENILES OBSERVED; 1 ADULT COLLECTED FOR PERSONAL COLLECTION; THIS POOL HAD MOST DIVERSE COMPOSITION OF ALL POOLS SURVEYED ALONG EAST LEVEE ROAD; RARE PLANT DOWNING PUSILLA OBSERVED.

PLSS: T10N, R04E, Sec. 24 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4285236 E631603	Latitude/Longitude: 38.70598 / -121.48647	Elevation (feet): 28

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
LEA93F0007 LEACH, S. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 1993-02-12



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	32524	EO Index:	2068
Key Quad:	Rio Linda (3812164)	Element Code:	ICBRA06010
Occurrence Number:	74	Occurrence Last Updated:	1995-10-02

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed:	1993-02-12	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1993-02-12	Occurrence Rank:	Fair
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
700 FEET WEST OF EAST LEVEE ROAD X ELKHORN BLVD, ON SOUTH SIDE OF ELKHORN BLVD.

Detailed Location:

Ecological:

HEAVILY GRAZED NORTHERN HARDPAN VERNAL POOL; SOIL IS MAPPED AS SAN JOAQUIN SERIES WITH HARDPAN UNDERNEATH; HYDROLOGY IS CONTROLLED BY ~10 ACRE DRAINAGE AREA; PLANTS: RANUNCULUS, PHYLLOCLADUS, LIAEA, AND PLAGIOBOTHRYS.

Threats:

GRAZING; POTENTIAL WIDENING OF ELKHORN BLVD OR REMOVAL OF SOIL FOR FILL OR AGRICULTURAL DEVELOPMENT.

General:

>200 ADULTS OBSERVED; 1 COLLECTED FOR PERSONAL COLLECTION.

PLSS: T10N, R04E, Sec. 36 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4282880 E631526	Latitude/Longitude: 38.68476 / -121.48780	Elevation (feet): 20

County Summary:

Sacramento

Quad Summary:

Rio Linda (3812164)

Sources:

LEA93F0006 LEACH, S. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 1993-02-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32525	EO Index: 2006	
Key Quad: Rio Linda (3812164)	Element Code: ICBRA06010	
Occurrence Number: 75	Occurrence Last Updated: 1995-10-02	

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1993-02-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-02-12	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
TOE OF FILL ON WEST SIDE OF EAST LEVEE ROAD; 0.7 KM S OF ELKHORN BLVD.

Detailed Location:

Ecological:
SEASONALLY INUNDATED DEPRESSION NEXT TO FLOOD CONTROL LEVEE; DOMINATED BY FACULTATIVE UPLAND GRASSES AND HERBS; SOIL MAPPED AS SAN JOAQUIN SERIES UNDERLAIN BY CARBONATE-CEMENTED HARDPAN; HYDROLOGY MAY BE DUE TO FILL FOR EAST LEVEE.

Threats:
ILLEGAL DUMPING; FUTURE EXPANSION OF EAST LEVEE.

General:
>500 ADULTS AND JUVENILES OBSERVED; 1 ADULT COLLECTED FOR PERSONAL COLLECTION; AGE STRUCTURE 90% ADULTS AND 10% JUVENILES.

PLSS: T10N, R04E, Sec. 36 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4282267 E631710	Latitude/Longitude: 38.67921 / -121.48580	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
LEA93F0005 LEACH, S. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 1993-02-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32730	EO Index: 1141	
Key Quad: Buffalo Creek (3812152)	Element Code: ICBRA06010	
Occurrence Number: 109	Occurrence Last Updated: 1996-01-05	

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1993-02-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-02-02	Occurrence Rank: Fair
Owner/Manager: BLM	Trend: Unknown
Presence: Presumed Extant	

Location:
FORMER MATHER AIR FORCE BASE; WESTERN PORTION OF TRIANGLE FORMED BY DOUGLAS RD, SUNRISE BOULEVARD & FOLSOM SOUTH CANAL.

Detailed Location:
LAND TO THE NORTH AND EAST IS PRIVATELY-OWNED FOR INDUSTRIAL/BUSINESS; EAST PARCEL IS UNDEVELOPED; THE FORMER MATHER AFB IS TO THE SOUTH AND WEST.

Ecological:
GRASSLAND.

Threats:
IDENTIFIED FOR EXCHANGE.

General:
MANY INDIVIDUALS FROM BOTH SPECIES, LINDERIELLA OCCIDENTALIS AND LEPIDURUS PACKARDI, OBSERVED; UNKNOWN NUMBERS COLLECTED.

PLSS: T08N, R07E, Sec. 07 (M)	Accuracy: specific area	Area (acres): 20
UTM: Zone-10 N4269191 E652586	Latitude/Longitude: 38.55807 / -121.24877	Elevation (feet): 140

County Summary: Sacramento	Quad Summary: Buffalo Creek (3812152), Carmichael (3812153)
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Sources:
CRA93F0002 CRANSTON, P. (U.S. BUREAU OF LAND MANAGEMENT) - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1993-02-02



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32443	EO Index: 636
Key Quad: Sacramento East (3812154)	Element Code: ICBRA06010
Occurrence Number: 118	Occurrence Last Updated: 1996-03-06

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1995-03-31	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1995-03-31	Occurrence Rank: Unknown
Owner/Manager: PVT-PIPE TRADES TRUST FUND	Trend: Unknown
Presence: Presumed Extant	

Location:
1.2 KM ESE OF ELDER CREEK ROAD AT FLORIN PERKINS ROAD; SE OF THE FORMER SACRAMENTO ARMY DEPOT.

Detailed Location:
ELDER CREEK PROPERTY. LINDERIELLA OCCIDENTALIS WERE FOUND IN 2 OF 90 SAMPLED WETLANDS.

Ecological:
HARDPAN VERNAL POOLS IN ANNUAL GRASSLAND.

Threats:
RURAL AGRICULTURE; URBAN DEVELOPMENT OCCURRING IN VICINITY.

General:
POOLS #46 & 50: 2/21/95: >50 ADULTS OBSERVED. POOL #50: 3/31/95: <50 ADULTS OBSERVED.

PLSS: T08N, R05E, Sec. 36 (M)	Accuracy: nonspecific area	Area (acres): 16
UTM: Zone-10 N4263165 E641409	Latitude/Longitude: 38.50564 / -121.37821	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Carmichael (3812153), Sacramento East (3812154)
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Sources:
SUG95R0001 SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34789	EO Index: 14384
Key Quad: Rio Linda (3812164)	Element Code: ICBRA06010
Occurrence Number: 122	Occurrence Last Updated: 1996-06-18

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1992-04-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-04-01	Occurrence Rank: Unknown
Owner/Manager: PVT-UNION PACIFIC RR	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG UNION PACIFIC RAILROAD, 0.2 MILES SOUTH OF ELKHORN BLVD, RIO LINDA.

Detailed Location:

Ecological:

Threats:

General:

KOFORD OBSERVED LINDERIELLAS DURING SURVEY IN SPRING OF 1992; BRANCHINECTA LYNCHI ALSO OBSERVED.

PLSS: T10N, R05E, Sec. 31 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4282605 E632253	Latitude/Longitude: 38.68218 / -121.47949	Elevation (feet): 40

County Summary:

Sacramento

Quad Summary:

Rio Linda (3812164)

Sources:

KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34790	EO Index: 14415
Key Quad: Rio Linda (3812164)	Element Code: ICBRA06010
Occurrence Number: 123	Occurrence Last Updated: 1996-08-02

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1992-04-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-04-01	Occurrence Rank: Unknown
Owner/Manager: PVT-UNION PACIFIC RR	Trend: Unknown
Presence: Presumed Extant	

Location:
CORNER OF ELVERTA ROAD AND UNION PACIFIC RAILROAD AT EAST MAIN DRAINAGE CANAL, RIO LINDA.

Detailed Location:

Ecological:

Threats:

General:

KOFORD OBSERVED LINDERIELLA DURING SURVEY IN SPRING OF 1992.

PLSS: T10N, R04E, Sec. 13 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4286193 E631659	Latitude/Longitude: 38.71459 / -121.48564	Elevation (feet): 35

County Summary:

Sacramento

Quad Summary:

Rio Linda (3812164)

Sources:

KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34791	EO Index: 12939
Key Quad: Sacramento East (3812154)	Element Code: ICBRA06010
Occurrence Number: 124	Occurrence Last Updated: 1996-08-05

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1992-04-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-04-03	Occurrence Rank: Unknown
Owner/Manager: PVT-SPRR	Trend: Unknown
Presence: Presumed Extant	

Location:
RAILROAD DITCH AT 47TH AVENUE (ELDER CREEK RD) & SPTRR, NEAR POWER INN ROAD; NEAR SW CORNER OF SACRAMENTO ARMY DEPOT.

Detailed Location:
SPTRR IS SOUTHERN PACIFIC TRACTION RAILROAD, WHICH RUNS SE FROM THE CORNER OF 65TH ST AND HIGHWAY 50.

Ecological:
RAILROAD DITCH.

Threats:

General:
KOFORD OBSERVED LINDERIELLA DURING SURVEY IN SPRING OF 1992; BRANCHINECTA LYNCHI AND LEPIDURUS PACKARDI ALSO OBSERVED.

PLSS: T08N, R05E, Sec. 26 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4263677 E639309	Latitude/Longitude: 38.51058 / -121.40219	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:
KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	95291	EO Index:	13153
Key Quad:	Sacramento East (3812154)	Element Code:	ICBRA06010
Occurrence Number:	125	Occurrence Last Updated:	2015-02-25

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	1992-04-02	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1992-04-02	Occurrence Rank:	Unknown
Owner/Manager:	PVT-SPRR	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 AT RAILROAD TRACKS NEAR FRUITRIDGE ROAD AT POWER INN ROAD; NEAR NORTHWEST CORNER OF SACRAMENTO ARMY DEPOT.

Detailed Location:
 THE RAILROAD TRACKS ARE PART OF SOUTHERN PACIFIC TRACTION RAILROAD, WHICH RUNS SE FROM CORNER OF 65TH STREET AND HIGHWAY 50.

Ecological:
 TURBID POOL. IN AERIAL PHOTOS IT APPEARS THAT POOLS FORM ALONG EITHER SIDE OF THE RAILROAD TRACKS FROM FRUITRIDGE SOUTH TO THE MORRISON CREEK CANAL.

Threats:
General:
 LINDERIELLA OBSERVED BY E.J. KOFORD DURING SURVEY IN SPRING OF 1992; LEPIDURUS PACKARDI ALSO PRESENT.

PLSS: T08N, R05E, Sec. 26 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4265266 E638840	Latitude/Longitude: 38.52497 / -121.40724	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:
 KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	34793	EO Index:	12914
Key Quad:	Sacramento East (3812154)	Element Code:	ICBRA06010
Occurrence Number:	126	Occurrence Last Updated:	1996-08-05

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	1992-04-02	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1992-04-02	Occurrence Rank:	Unknown
Owner/Manager:	PVT-CENTRAL CALIFORNIA TRR	Trend:	Unknown
Presence:	Presumed Extant		

Location:
FRUITRIDGE ROAD AT CENTRAL CALIFORNIA TRACTION RR, NEAR FLORIN-PERKINS ROAD, NEAR NE CORNER OF SACRAMENTO ARMY DEPOT.

Detailed Location:
Ecological:
CLEAR POOL WITH DETRITUS.

Threats:
General:
LINDERIELLA OBSERVED BY KOFORD DURING SURVEY IN SPRING OF 1992.

PLSS: T08N, R05E, Sec. 25 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4265320 E640782	Latitude/Longitude: 38.52515 / -121.38497	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:
KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34794	EO Index: 12558	
Key Quad: Florin (3812144)	Element Code: ICBRA06010	
Occurrence Number: 127	Occurrence Last Updated: 1996-06-19	

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1992-04-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-04-02	Occurrence Rank: Unknown
Owner/Manager: PVT-UNION PACIFIC RR	Trend: Unknown
Presence: Presumed Extant	

Location:
CORNER OF FLORIN ROAD AND UNION PACIFIC (WESTERN PACFIC) RAILROAD, WEST OF HIGHWAY 99.

Detailed Location:

Ecological:

Threats:

General:

LINDERIELLA OBSERVED BY KOFORD DURING SURVEY IN SPRING OF 1992. LEPIDURUS PACKARDI ALSO PRESENT.

PLSS: T07N, R05E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4261937 E633350	Latitude/Longitude: 38.49582 / -121.47084	Elevation (feet): 15

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	34797	EO Index:	12595
Key Quad:	Carmichael (3812153)	Element Code:	ICBRA06010
Occurrence Number:	128	Occurrence Last Updated:	1996-06-20

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed:	1992-04-02	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1992-04-02	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
ROADSIDE DITCH NEAR FRUITRIDGE ROAD AND MAYHEW ROAD, SOUTHWEST OF MATHER AIR FORCE BASE.

Detailed Location:

Ecological:

Threats:

General:

KOFORD OBSERVED LINDERIELLA DURING SURVEY IN SPRING OF 1992.

PLSS: T08N, R06E, Sec. 29 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4265406 E644335	Latitude/Longitude: 38.52536 / -121.34421	Elevation (feet): 56

County Summary:

Sacramento

Quad Summary:

Carmichael (3812153)

Sources:

KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34798	EO Index: 12597
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 129	Occurrence Last Updated: 1999-05-11

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status: Federal: None State: None	Rare Plant Rank:
CNDDB Element Ranks: Global: G2G3 State: S2S3	Other Lists: IUCN_NT-Near Threatened

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1992-04-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-04-02	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
CORNER OF KIEFER BLVD AND EAGLES NEST ROAD, SOUTHEAST OF MATHER AIR FORCE BASE.

Detailed Location:

Ecological:
VERNAL POOL WITH VEGETATION.

Threats:

General:
KOFORD OBSERVED LINDERIELLA DURING SURVEY IN SPRING OF 1992.

PLSS: T08N, R07E, Sec. 19 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4265847 E651591	Latitude/Longitude: 38.52812 / -121.26090	Elevation (feet): 147

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34799	EO Index: 12583
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 130	Occurrence Last Updated: 1996-08-06

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1992-04-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-04-03	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ROADSIDE DITCH AT ELDER CREEK AND EXCELSIOR ROAD, SOUTH OF MATHER AIR FORCE BASE.

Detailed Location:

Ecological:
CLEAR ROADSIDE DITCH WITH VEGETATION.

Threats:

General:
KOFORD OBSERVED LINDERIELLA DURING SURVEY IN SPRING OF 1992.

PLSS: T08N, R06E, Sec. 27 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4263868 E648407	Latitude/Longitude: 38.51083 / -121.29784	Elevation (feet): 111

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34800	EO Index: 12050
Key Quad: Elk Grove (3812143)	Element Code: ICBRA06010
Occurrence Number: 131	Occurrence Last Updated: 1996-08-06

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1992-04-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-04-02	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
0.1 MILE WEST OF HEDGE AVENUE AND SOUTH OF FLORIN ROAD, SACRAMENTO.

Detailed Location:
Ecological:
IN A 35 FOOT LONG PUDDLE.

Threats:
General:
KOFORD OBSERVED LINDERIELLA IN PUDDLE DURING SURVEY IN SPRING OF 1992.

PLSS: T07N, R06E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4262122 E642630	Latitude/Longitude: 38.49605 / -121.36443	Elevation (feet): 48

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	34801	EO Index:	11973
Key Quad:	Elk Grove (3812143)	Element Code:	ICBRA06010
Occurrence Number:	132	Occurrence Last Updated:	1996-08-06

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed:	1992-04-02	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1992-04-02	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
ROADSIDE DITCHES NEAR FLORIN ROAD AND BRADSHAW ROAD, BESIDE FLORIN ROAD, SACRAMENTO.

Detailed Location:
TWO SITES, 0.6 MILES APART.

Ecological:
ROADSIDE DITCHES.

Threats:

General:
KOFORD OBSERVED LINDERIELLA IN DITCHES DURING SURVEY IN SPRING OF 1992.

PLSS:	T07N, R06E, Sec. 05 (M)	Accuracy:	4/5 mile	Area (acres):	0
UTM:	Zone-10 N4262194 E645205	Latitude/Longitude:	38.49628 / -121.33490	Elevation (feet):	64

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143), Carmichael (3812153)

Sources:
KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 34812
Key Quad: Florin (3812144)
Occurrence Number: 140

EO Index: 29268
Element Code: ICBRA06010
Occurrence Last Updated: 2014-07-28

Scientific Name: *Linderiella occidentalis*

Common Name: California linderiella

Listing Status: **Federal:** None
 State: None
CNDDB Element Ranks: **Global:** G2G3
 State: S2S3

Rare Plant Rank:
Other Lists: IUCN_NT-Near Threatened

General Habitat:

SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.

Micro Habitat:

WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed: 2003-02-17
Last Survey Date: 2003-02-17
Owner/Manager: PVT-GRUPE DEVELOPMENT CO
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Excellent
Trend: Unknown

Location:

BETWEEN WESTERN PACIFIC RAILROAD AND I-5, SOUTH OF ELK GROVE BLVD AND NORTH OF HOOD FRANKLIN ROAD, ELK GROVE.

Detailed Location:

ELLIOTT RANCH & ELK GROVE BLVD EXTENSION/I-5 INTERCHANGE MITIGATION SITES. 1991 LOCALITY "5.0 MILES SOUTH OF SACRAMENTO ALONG I-5," MAPPED HERE. 1995: 23 WETLANDS SAMPLED. 1996: 74 WETLANDS SAMPLED. 1997: 52 WETLANDS SAMPLED.

Ecological:

NATURAL AND CONSTRUCTED HARDPAN VERNAL POOLS, SEASONAL MARSHES AND WETLANDS WITHIN NON-NATIVE ANNUAL GRASSLAND. WETLAND COMPENSATION/MITIGATION PRESERVE.

Threats:

General:

52 COLLECTED IN 1991 (USNM #1144050 & 1144061). MORE THAN 50 L. OCCIDENTALIS AND/OR MIDVALLEY FAIRY SHRIMP FOUND IN 12 POOLS IN 1995, AND IN 43 POOLS IN 1996. FOUND IN 23 POOLS, 1997. 100S TO 1000S IN 11 POOLS, 1998. 100S FOUND IN 2003.

PLSS: T06N, R05E, Sec. 06 (M)	Accuracy: specific area	Area (acres): 570
UTM: Zone-10 N4250798 E633934	Latitude/Longitude: 38.39538 / -121.46627	Elevation (feet): 15

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

FAR03F0021 FARMER, M. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2003-02-17

MUT91S0006 MUTH, D. - USNM #1144061 & 1144064, COLLECTED "5.0 MILES SOUTH OF SACRAMENTO ALONG INTERSTATE 5." 1991-03-13

SUG95R0001 SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX

SUG96R0001 SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED BRANCHIOPODS CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933. 1996-XX-XX

SUG97R0001 SUGNET & ASSOCIATES - 1997 ANNUAL REPORT TO THE U.S. FISH & WILDLIFE SERVICE REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NO. PRT-795933 1997-XX-XX

SUG97R0002 SUGNET & ASSOCIATES - 90-DAY REPORT OF FINDINGS REGARDING FEDERALLY-LISTED CRUSTACEA AT THE ELLIOTT RANCH MITIGATION SITE WATERFOWL STUDY AREA, SACRAMENTO COUNTY, CALIFORNIA 1997-05-03

SUG98R0003 SUGNET & ASSOCIATES - 90-DAY REPORT OF FINDINGS REGARDING FEDERALLY-LISTED CRUSTACEA AT THE ELLIOTT RANCH MITIGATION SITE WATERFOWL STUDY AREA, SACRAMENTO COUNTY, CALIFORNIA. 1998-10-08



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	32455	EO Index:	8929
Key Quad:	Carmichael (3812153)	Element Code:	ICBRA06010
Occurrence Number:	144	Occurrence Last Updated:	1997-03-27

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed:	1996-03-21	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1996-03-21	Occurrence Rank:	Unknown
Owner/Manager:	PVT-GRANITE CONSTRUCTION CO	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG NORTH EDGE OF KIEFER BLVD, 0.7 KM WNW OF KIEFER BLVD AND MATHER PARKWAY, SACRAMENTO.

Detailed Location:
 GRANITE-TEICHERT PILOT PROJECT SITE (PART). 1996: 10 TOTAL POOLS SURVEYED.

Ecological:
 CONSTRUCTED AND NATURAL HARDPAN VERNAL POOLS IN ANNUAL NON-NATIVE GRASSLAND. WETLAND COMPENSATION/MITIGATION PRESERVE.

Threats:
General:
 50+ ADULTS OBSERVED IN ALL TEN POOLS SAMPLED.

PLSS: T08N, R06E, Sec. 22 (M)	Accuracy: specific area	Area (acres): 2
UTM: Zone-10 N4266913 E648056	Latitude/Longitude: 38.53832 / -121.30122	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
 SUG96R0001 SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED BRANCHIOPODS CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933. 1996-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 28182	EO Index: 29286
Key Quad: Sacramento East (3812154)	Element Code: ICBRA06010
Occurrence Number: 149	Occurrence Last Updated: 1996-08-05

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1996-03-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1996-03-10	Occurrence Rank: Poor
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG THE CENTRAL CALIFORNIA TRACTION RAILROAD RIGHT-OF-WAY, FROM NORTH END OF 83RD ST TO FLORIN PERKINS RD, SACRAMENTO.

Detailed Location:
LOCATED IN A SERIES OF PONDED DEPRESSIONS ALONG THE RAILROAD RIGHT-OF-WAY. LINDERIELLA FOUND IN 12 OF 27 SAMPLED DEPRESSIONS.

Ecological:
HABITAT CONSISTS OF PONDED DEPRESSIONS. BRANCHINECTA MESOVALLENSIS (UNDESCRIBED) AND B. LYNCHI ALSO FOUND IN THIS AREA.

Threats:
CONSTANT DISTURBANCE FROM RAILROAD TRUCKS & OTHERS DRIVING THROUGH POOLED AREAS. ALSO TIRES & DEBRIS IN POOLED AREAS.

General:
SURVEYS CONDUCTED FROM 6 FEBRUARY TO 10 MARCH 1996.

PLSS: T08N, R05E, Sec. 23 (M)	Accuracy: specific area	Area (acres): 39
UTM: Zone-10 N4266013 E639863	Latitude/Longitude: 38.53154 / -121.39537	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:
MAR96F0001 MARTIN, D. (BIOTA) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI & LINDERIELLA OCCIDENTALIS 1996-03-10



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 41021	EO Index: 41021
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 160	Occurrence Last Updated: 1999-05-04

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed: 1997-01-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-01-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
1 MILE SOUTH FROM JCT OLD PLACERVILLE AND ROUTIER ROADS, NORTH OF WEST END OF SACRAMENTO MATHER AIRPORT RUNWAYS.

Detailed Location:
CALIFORNIA LINDERIELLA IN POOLS NUMBERED 1278-79, 1284-85, 1287-88, 1290-91, 1293-95, 1359, 1361-68.

Ecological:
FOUND IN 20 VERNAL POOLS AT THE OLD MATHER AIR FORCE BASE.

Threats:
DEVELOPMENT.

General:
OBSERVED IN 1993 AND 1996-97.

PLSS: T08N, R06E, Sec. 16 (M)	Accuracy: specific area	Area (acres): 29
UTM: Zone-10 N4267705 E646496	Latitude/Longitude: 38.54571 / -121.31895	Elevation (feet): 75

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

JSA93R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS PLANT AND WILDLIFE SURVEY RESULTS FOR THE MATHER REDEVELOPMENT PLAN AREA, SACRAMENTO COUNTY. PREPARED FOR: SAC HOUSING & REDEVELOPMENT AGENCY 1993-08-03
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41022	EO Index: 41022
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 161	Occurrence Last Updated: 1999-05-04

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1997-01-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-01-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
0.7 MILES SE FROM JCT OLD PLACERVILLE AND ROUTIER ROADS, NW CENTER OF SACRAMENTO MATHER AIRPORT RUNWAYS.

Detailed Location:
CALIFORNIA LINDERIELLA IN POOLS NUMBERED 1402-06 IN OPEN AREA BETWEEN TAXI AND RUNWAYS.

Ecological:
FOUND IN 5 VERNAL POOLS AT THE OLD MATHER AIR FORCE BASE.

Threats:
DEVELOPMENT.

General:
OBSERVED IN 1996-97.

PLSS: T08N, R06E, Sec. 15 (M)	Accuracy: specific area	Area (acres): 2
UTM: Zone-10 N4268568 E647339	Latitude/Longitude: 38.55335 / -121.30909	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

JSA93R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS PLANT AND WILDLIFE SURVEY RESULTS FOR THE MATHER REDEVELOPMENT PLAN AREA, SACRAMENTO COUNTY. PREPARED FOR: SAC HOUSING & REDEVELOPMENT AGENCY 1993-08-03
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41009	EO Index: 41023
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 162	Occurrence Last Updated: 2011-07-05

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 2006-05-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-05-04	Occurrence Rank: Good
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
MATHER FIELD VERNAL POOL PRESERVE, S OF OLD MATHER AIRPORT RUNWAY AND E OF THE WATER TREATMENT PONDS, N OF KIEFER BLVD.

Detailed Location:
1993: EXACT LOCATIONS NOT PROVIDED - FOUND IN 6 POOLS AT THE MATHER REDEVELOPMENT PLAN AREA. 1996-96: FOUND IN 79 POOLS TOTAL FOR THE MATHER FIELD SPECIFIC PLAN SURVEY. 2006: FOUND AT MATHER FIELD VERNAL POOLS, BUT EXACT LOCATIONS UNKNOWN.

Ecological:
FOUND IN VERNAL POOLS, VERNAL SWALES, SEASONAL WETLANDS, AND FRESHWATER MARSH.

Threats:
DEVELOPMENT.

General:
OBSERVED DURING SURVEYS CONDUCTED APR AND JUL 1993, FEB - MAR 1996, AND JAN 1997. OBSERVED IN 15 OF 19 SAMPLED POOLS BETWEEN 14 FEB AND 4 MAY 2006.

PLSS: T08N, R06E, Sec. 14 (M)	Accuracy: specific area	Area (acres): 84
UTM: Zone-10 N4267843 E648624	Latitude/Longitude: 38.54660 / -121.29451	Elevation (feet): 80

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

JSA93R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS PLANT AND WILDLIFE SURVEY RESULTS FOR THE MATHER REDEVELOPMENT PLAN AREA, SACRAMENTO COUNTY. PREPARED FOR: SAC HOUSING & REDEVELOPMENT AGENCY 1993-08-03
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX
WIT06F0003	WITHAM, C. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2006-04-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41025	EO Index: 41033
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 163	Occurrence Last Updated: 1999-05-10

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1997-01-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-01-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
0.4 MILE NNW OF JUNCTION OF KIEFER BLVD AND EAGLES NEST ROAD, MATHER REGIONAL PARK, SE OF SACRAMENTO.

Detailed Location:
7 VERNAL POOLS IN THIS PORTION OF THE COMPLEX CONTAIN CALIFORNIA LINDERIELLA. THIS IS PART OF THE OLD MATHER AIR FORCE BASE.

Ecological:
VERNAL POOLS, AND DISTURBED VERNAL POOLS.

Threats:
IMPACTED BY HUMANS.

General:
OBSERVED IN 1993 AND 1996-97. LEPIDURUS PACKARDI ALSO OBSERVED.

PLSS: T08N, R06E, Sec. 24 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4266445 E651135	Latitude/Longitude: 38.53359 / -121.26601	Elevation (feet): 140

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

JSA93R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS PLANT AND WILDLIFE SURVEY RESULTS FOR THE MATHER REDEVELOPMENT PLAN AREA, SACRAMENTO COUNTY. PREPARED FOR: SAC HOUSING & REDEVELOPMENT AGENCY 1993-08-03
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41034	EO Index: 41034
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 164	Occurrence Last Updated: 1999-05-10

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1997-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-XX-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
0.3 MILE NORTH OF INTERSECTION OF G AVE AND DOUGLAS RD, NW MATHER REGIONAL PARK, OLD MATHER AIR FORCE BASE.

Detailed Location:
2 VERNAL POOLS IN THIS PORTION OF THE COMPLEX CONTAIN CALIFORNIA LINDERIELLA.

Ecological:
VERNAL SWALE-VERNAL POOLS, AND DISTURBED SEASONAL WETLAND.

Threats:
DEVELOPMENT, IMPACTED BY HUMANS.

General:
OBSERVED IN 1993 AND 1997 SURVEYS.

PLSS: T08N, R06E, Sec. 12 (M)	Accuracy: specific area	Area (acres): 4
UTM: Zone-10 N4269806 E650856	Latitude/Longitude: 38.56391 / -121.26848	Elevation (feet): 120

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

JSA93R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS PLANT AND WILDLIFE SURVEY RESULTS FOR THE MATHER REDEVELOPMENT PLAN AREA, SACRAMENTO COUNTY. PREPARED FOR: SAC HOUSING & REDEVELOPMENT AGENCY 1993-08-03
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 41024	EO Index: 41038
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 165	Occurrence Last Updated: 1999-05-11

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed: 1997-01-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-01-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
0.1 MILE EAST OF JUNCTION OF KIEFER BLVD AND EAGLES NEST ROAD, MATHER REGIONAL PARK (6 FEATURES, ALONG KIEFER BLVD).

Detailed Location:
MORRISON CREEK DRAINAGE AREA, IN THE OLD MATHER AIR FORCE BASE.

Ecological:
6 FEATURES THAT ARE EITHER VERNAL POOLS, VERNAL SWALES, OR A BRANCH OF MORRISON CREEK.

Threats:
IMPACTED BY HUMANS.

General:
OBSERVED IN 1993 AND 1996-97 IN 5 OF THE 6 FEATURES MAPPED. ALSO LEPIDURUS PACKARDI OBSERVED.

PLSS: T08N, R07E, Sec. 19 (M)	Accuracy: specific area	Area (acres): 11
UTM: Zone-10 N4265728 E652010	Latitude/Longitude: 38.52698 / -121.25613	Elevation (feet): 125

County Summary:	Quad Summary:
Sacramento	Buffalo Creek (3812152), Carmichael (3812153)

Sources:

JSA93R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS PLANT AND WILDLIFE SURVEY RESULTS FOR THE MATHER REDEVELOPMENT PLAN AREA, SACRAMENTO COUNTY. PREPARED FOR: SAC HOUSING & REDEVELOPMENT AGENCY 1993-08-03
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41040	EO Index: 41040
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 167	Occurrence Last Updated: 2008-04-30

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1997-01-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-01-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
0.7 MILE WNW OF JUNCTION OF KIEFER BLVD AND EAGLES NEST ROAD, MATHER REGIONAL PARK, SE OF SACRAMENTO.

Detailed Location:
2 VERNAL POOLS IN THIS PORTION OF THE COMPLEX CONTAIN CALIFORNIA LINDERIELLA. PART OF THE OLD MATHER AIR FORCE BASE.

Ecological:
VERNAL POOLS.

Threats:

General:
OBSERVED IN 1996-97.

PLSS: T08N, R06E, Sec. 24 (M)	Accuracy: specific area	Area (acres): 2
UTM: Zone-10 N4266396 E650452	Latitude/Longitude: 38.53326 / -121.27385	Elevation (feet): 115

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
JSA97R0002 JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	42552	EO Index:	42552
Key Quad:	Florin (3812144)	Element Code:	ICBRA06010
Occurrence Number:	178	Occurrence Last Updated:	2000-03-15

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed:	1998-10-15	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1998-10-15	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
EAST SIDE OF HIGHWAY 99, BETWEEN WHITEHOUSE CREEK AND SHELDON ROAD, SOUTH OF SACRAMENTO.

Detailed Location:

Ecological:

Threats:

General:

OBSERVED DURING DRY-SEASON SAMPLING OF SEASONAL WETLANDS ON 15 OCT 1998.

PLSS: T07N, R05E, Sec. 26 (M)	Accuracy: specific area	Area (acres): 8
UTM: Zone-10 N4255421 E639718	Latitude/Longitude: 38.43614 / -121.39915	Elevation (feet): 30

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

HEL98F0014 HELM, B. (MAY AND ASSOCIATES, INC.) - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 1998-10-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 37071	EO Index: 42553	
Key Quad: Florin (3812144)	Element Code: ICBRA06010	
Occurrence Number: 179	Occurrence Last Updated: 2000-03-15	

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1998-04-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1998-04-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
INTERSECTION OF COSUMNES RIVER COLLEGE BOULEVARD AND HIGHWAY 99, SOUTH OF SACRAMENTO.

Detailed Location:
Ecological:
HABITAT CONSISTS OF BOTH NATURAL AND MAN-MADE VERNAL POOLS.

Threats:
General:
DRY/WET SEASON SAMPLING CONDUCTED JAN-APR 1998 OF A CREATED VERNAL POOL AND A CONTROL SITE; UNKNOWN NUMBER OF INDIVIDUALS FOUND.

PLSS: T07N, R05E, Sec. 15 (M)	Accuracy: nonspecific area	Area (acres): 162
UTM: Zone-10 N4257618 E638447	Latitude/Longitude: 38.45613 / -121.41327	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
HEL98F0016 HELM, B. (MAY AND ASSOCIATES, INC.) - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 1998-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 42726	EO Index: 42726
Key Quad: Elk Grove (3812143)	Element Code: ICBRA06010
Occurrence Number: 182	Occurrence Last Updated: 2000-04-11

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed: 1993-03-31	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-03-31	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG CENTRAL CALIFORNIA TRACTION RAILROAD, NORTH OF CALVINE RD, SOUTH OF FLORIN RD, AND WEST OF VINEYARD RD.

Detailed Location:
LONG NARROW RAIN FILLED DEPRESSIONS IN RAILROAD RIGHT-OF-WAY. LAND USE IS GRAZING AND RAILROAD RIGHT-OF-WAY. SOME ADJACENT PASTURES HAD REALLY NICE LOOKING VERNAL POOLS.

Ecological:
UNDULATING TOPOGRAPHY, RED CLAY SOILS. POOLS 5 X 10 TO 15 METERS.

Threats:
RAILROAD MAINTENANCE, CONVERSION TO RESIDENTIAL, INTENSIVE AGRICULTURE, GRAZING, DUMPING.

General:
NUMEROUS TO FEW ADULTS OBSERVED, HIGHER NUMBERS IN THE MIDDLE SECTION OF MAPPED AREA. ALSO OBSERVED LEPIDURUS SP, CLAM SHRIMP, RED COPEPODS.

PLSS: T07N, R06E, Sec. 08 (M)	Accuracy: nonspecific area	Area (acres): 157
UTM: Zone-10 N4260046 E644736	Latitude/Longitude: 38.47701 / -121.34071	Elevation (feet): 60

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

KIR93F0008	KIRPATRICK, G. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS (CALIFORNIA LINDERIELLA) 1993-03-07
KIR93F0009	KIRPATRICK, G. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS (CALIFORNIA LINDERIELLA) 1993-03-07
KIR93F0010	KIRPATRICK, G. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS (CALIFORNIA LINDERIELLA) 1993-03-31
KIR93F0011	KIRPATRICK, G. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS (CALIFORNIA LINDERIELLA) 1993-03-07



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	42727	EO Index:	42727
Key Quad:	Elk Grove (3812143)	Element Code:	ICBRA06010
Occurrence Number:	183	Occurrence Last Updated:	2000-04-11

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	1993-04-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1993-04-01	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG CENTRAL CALIFORNIA TRACTION RAILROAD, BETWEEN HEDGE AVE AND FLORIN ROAD, SACRAMENTO.

Detailed Location:
 NARROW RAIN-FILLED DEPRESSION IN RIGHT-OF-WAY ABOUT 5 METERS IN WIDTH AND 15 METERS IN LENGTH. UNDULATING TOPOGRAPHY ON RED CLAY SOILS.

Ecological:
 CLEAR, CLAY BOTTOMED POOL WITH SOME EMERGENT VEGETATION, POOL IS ADJACENT TO SAND LOADER USED FOR RAIL BED MAINTENANCE.

Threats:
 RAILROAD MAINTENANCE AND GRADING OF RAILROAD.

General:
 MODERATE DENSITY OF REPRODUCTIVE ADULTS OBSERVED; ALSO OBSERVED WESTERN TOAD TADPOLES, 1993.

PLSS:	T08N, R06E, Sec. 31 (M)	Accuracy:	nonspecific area	Area (acres):	27
UTM:	Zone-10 N4262378 E642992	Latitude/Longitude:	38.49830 / -121.36023	Elevation (feet):	40

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143), Carmichael (3812153)

Sources:
 KIR93F0012 KIRPATRICK, G. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS (CALIFORNIA LINDERIELLA) 1993-04-01



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 48380	EO Index: 48380
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 197	Occurrence Last Updated: 2002-11-20

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed: 2001-03-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2001-03-28	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
 GRANITE VINEYARD SITE, 0.4 MILE SE OF THE INTERSECTION OF HEDGE AVE AND FRUTRIDGE ROAD, SACRAMENTO.

Detailed Location:
 WETLAND #6.

Ecological:
 HABITAT ON SITE CONSISTS PRIMARILY OF NON-NATIVE GRASSLAND WITH SEASONALLY FLOODED/INUNDATED AREAS, A RIPARIAN CORRIDOR WITH FLOWING WATER 9 MONTHS OF THE YEAR AND AN IRRIGATION POND.

Threats:
General:
 L. OCCIDENTALIS CYSTS (AND BRANCHINECTA SP. CYSTS) IDENTIFIED IN DRY SEASON SOIL SAMPLE TAKEN ON 21 SEP 2000. SITE SURVEYED 8 TIMES FROM 14 FEB 2001 TO 7 MAY 2001. INDIVIDUALS OBSERVED ON 13 MAR 2001 AND 28 MAR 2001.

PLSS: T08N, R06E, Sec. 30 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4264896 E643159	Latitude/Longitude: 38.52095 / -121.35780	Elevation (feet): 50

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

BAL01R0001	BALFOUR, P. (ECORP CONSULTING, INC.) - ANNUAL REPORT OF FINDINGS REGARDING DRY SEASON (CYST) SURVEY AT THE GRANITE VINEYARD SITE, SACRAMENTO COUNTY, CALIFORNIA. 2001-02-09
ECO01R0004	ECORP CONSULTING, INC. - ANNUAL REPORT OF FINDINGS REGARDING FEDERALLY-LISTED CRUSTACEANS AT GRANITE VINEYARD SITE, SACRAMENTO, CALIFORNIA. 2001-06-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 48381	EO Index: 48383
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 198	Occurrence Last Updated: 2002-07-29

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 2002-01-31	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-01-31	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Unknown
Presence: Presumed Extant	

Location:
MATHER LAKE REGIONAL PARK, NE SIDE OF MATHER LAKE, SOUTH OF DOUGLAS ROAD AND WEST OF SUNRISE BLVD, SE OF SACRAMENTO.

Detailed Location:
31 JAN 2002: OBSERVED IN 5 OF 7 SAMPLED WETLANDS (A, B, C, E, AND F). OBSERVED IN 6 OF 7 WETLANDS ON 12 JAN 2002.

Ecological:
HABITAT CONSISTS OF ANNUAL GRASSLAND DOMINATED BY NON-NATIVE PLANTS WITH NATURALLY OCCURRING & POSSIBLY ARTIFICIAL SEASONAL WETLANDS, INCLUDING VERNAL POOLS. PLANTS WITHIN WETLANDS: CARTER'S BUTTERCUP, WINGED WATER-STARWORT, POPCORN FLOWER.

Threats:
General:
100'S OBSERVED IN WETLANDS A & B AND 1000'S OBSERVED IN WETLANDS C, E AND F ON 31 JAN 2002.

PLSS: T08N, R07E, Sec. 07 (M)	Accuracy: specific area	Area (acres): 16
UTM: Zone-10 N4269103 E652367	Latitude/Longitude: 38.55732 / -121.25130	Elevation (feet): 135

County Summary: Sacramento	Quad Summary: Buffalo Creek (3812152), Carmichael (3812153)
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Sources:
ECO02R0002 ECORP CONSULTING, INC. - ANNUAL REPORT OF FINDINGS REGARDING FEDERALLY-LISTED BRANCHIOPODS FOR MATHER LAKE REGIONAL PARK, SACRAMENTO COUNTY, CALIFORNIA. 2002-04-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 48534	EO Index: 51506
Key Quad: Elk Grove (3812143)	Element Code: ICBRA06010
Occurrence Number: 214	Occurrence Last Updated: 2004-08-19

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 2004-01-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-01-15	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
CHURCHILL DOWNS WETLAND PRESERVE (IN PART), 4.5 MILES NORTH OF ELK GROVE.

Detailed Location:
0.5 MILE SOUTH OF GERBER ROAD, 1.2 MILES NORTH OF CALVINE, AND 0.5 MILE EAST OF FLORIN ROAD.

Ecological:
HABITAT CONSISTS OF NATURAL AND CREATED VERNAL POOLS WITHIN A GRASSLAND.

Threats:

General:

10'S TO 1,000'S OBSERVED IN 16 OF 35 NATURAL VERNAL POOLS (DIVIDED BETWEEN THIS SITE & OCC 215) 21 JAN, 7 MAR 2003. ALSO OBSERVED IN 2002. NO OTHER BRANCHIOPOD SPECIES OBS IN 2003. 10'S OBS IN 2 POOLS, 1000'S OBS IN 2 POOLS ON 15 JAN 2004.

PLSS: T07N, R06E, Sec. 07 (M)	Accuracy: nonspecific area	Area (acres): 55
UTM: Zone-10 N4259578 E643059	Latitude/Longitude: 38.47306 / -121.36003	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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- Sources:**
- ECO02R0008 ECORP CONSULTING, INC. - ANNUAL REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE. 2002-04-16
 - ECO03R0002 ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE 2003-06-06
 - ECO04R0001 ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE (SACRAMENTO COUNTY, CALIFORNIA) 2004-06-02



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 46127	EO Index: 51507
Key Quad: Elk Grove (3812143)	Element Code: ICBRA06010
Occurrence Number: 215	Occurrence Last Updated: 2004-08-19

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 2004-01-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-01-15	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
CHURCHILL DOWNS WETLAND PRESERVE (IN PART); 4 MILES NNE OF ELK GROVE.

Detailed Location:
1 MILE SOUTH OF GERBER ROAD TO 0.5 MILE NORTH OF CALVINE ROAD, EXTENDING 0.4 MILE WEST OF BRADSHAW ROAD.

Ecological:
SITE IS VERNAL POOL PRESERVE - GRASSLAND. SURROUNDING LAND CONSISTS OF HOMES.

Threats:

General:

10'S TO 1,000'S OBSERVED IN 16 OF 35 NATURAL VERNAL POOLS (DIVIDED BETWEEN THIS SITE & OCC 214) 21 JAN AND 7 MAR 2003. ALSO OBSERVED IN 2002. NO OTHER BRANCHIOPOD SPECIES OBS IN 2003. 10'S OBS IN 1 POOL, 100'S OBS IN 3 POOLS ON 15 JAN 2004.

PLSS: T07N, R06E, Sec. 17 (M)	Accuracy: nonspecific area	Area (acres): 94
UTM: Zone-10 N4258529 E645058	Latitude/Longitude: 38.46329 / -121.33734	Elevation (feet): 65

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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- Sources:**
- ECO02R0008 ECORP CONSULTING, INC. - ANNUAL REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE. 2002-04-16
 - ECO03R0002 ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE 2003-06-06
 - ECO04R0001 ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE (SACRAMENTO COUNTY, CALIFORNIA) 2004-06-02



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 53920	EO Index: 53920
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 220	Occurrence Last Updated: 2004-01-13

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 2002-03-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-03-15	Occurrence Rank: Excellent
Owner/Manager: PVT-GRANITE CONSTRUCTION CO	Trend: Unknown
Presence: Presumed Extant	

Location:
SW END OF THE RUNWAY OF OLD MATHER AIR FORCE BASE, 1 MILE NE OF THE INTERSECTION OF BRADSHAW ROAD AND JACKSON ROAD.

Detailed Location:
VERNAL POOL PRESERVE CONSISTS OF 38 VERNAL POOLS ON 10.04 ACRES.

Ecological:
HABITAT CONSISTS OF A VERNAL POOL PRESERVE, DOMINATED BY PLAGIOBOTHRYUS STIPITATUS, LASTHENIA FREMONTII, DOWNINGIA BICORNUTA, ERYNGIUM VASEYI, NAVARRETIA LEUCOCEPHALA, AND DESCHAMPSIA DANTHONIODES.

Threats:

General:
POOLS HAVE BEEN MONITORED EACH YEAR IN EARLY SPRING SINCE 1998. EVERY YEAR, 1998-2002, LINDERIELLA HAS BEEN FOUND, VARYING FROM 10'S TO 1000'S IN MANY POOLS AT THIS SITE.

PLSS: T08N, R06E, Sec. 16 (M)	Accuracy: specific area	Area (acres): 44
UTM: Zone-10 N4267058 E646210	Latitude/Longitude: 38.53993 / -121.32235	Elevation (feet): 65

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
FAR02F0001 FARMER, M. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2002-03-15



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	59076	EO Index:	59112
Key Quad:	Florin (3812144)	Element Code:	ICBRA06010
Occurrence Number:	238	Occurrence Last Updated:	2005-01-03

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed:	2002-02-04	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-02-04	Occurrence Rank:	Fair
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ABOUT 1.2 MILES NORTH OF FRANKLIN, ON WEST SIDE OF WESTERN PACIFIC RAILROAD TRACKS.

Detailed Location:
 FOUND IN A SHALLOW TOPOGRAPHIC DEPRESSION IN RAILROAD RIGHT-OF-WAY.

Ecological:
 HERBACEOUS AND GRASSY SUBSTRATE.

Threats:
General:
 5-10 ADULTS OBSERVED VISUALLY ON 4 FEB 2002, NO AQUATIC SAMPLING.

PLSS:	T06N, R05E, Sec. 05 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4250791 E635069	Latitude/Longitude:	38.39514 / -121.45328	Elevation (feet):	20

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 HUD02F0009 HUDDLESTON, R. (CH2M HILL) - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2002-02-04



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 61563	EO Index: 61599
Key Quad: Rio Linda (3812164)	Element Code: ICBRA06010
Occurrence Number: 245	Occurrence Last Updated: 2005-06-13

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 2005-01-30	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-01-30	Occurrence Rank: Unknown
Owner/Manager: CITY OF SACRAMENTO-GRANT HS	Trend: Unknown
Presence: Presumed Extant	

Location:
0.7 MILE SOUTH OF ELKHORN BOULEVARD AND 0.4 MILE WEST OF SORENTO ROAD, 2 MILES SW OF RIO LINDA.

Detailed Location:
POTENTIAL SITE FOR THE NEW GRANT HIGH SCHOOL.

Ecological:
HABITAT CONSISTS OF ANNUAL GRASSLAND ON A LEVEL TO GENTLY-SLOPING SLOPE. SOIL PROFILE INCLUDES HARDPAN.

Threats:
THREATENED BY DEVELOPMENT AS A HIGH SCHOOL.

General:
500+ ADULTS OBSERVED ON 30 JAN 2005.

PLSS: T10N, R04E, Sec. 36 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4281822 E631280	Latitude/Longitude: 38.67526 / -121.49082	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
THO05F0002 THOMAS, J. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2005-01-30



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64334	EO Index: 64413
Key Quad: Rio Linda (3812164)	Element Code: ICBRA06010
Occurrence Number: 252	Occurrence Last Updated: 2006-06-20

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 2004-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH OF DYER LANE, ABOUT 0.75 TO 1.5 MILES WEST OF CENTER POINT ROAD, WEST OF ROSEVILLE.

Detailed Location:

Ecological:

Threats:

General:

50+ CYSTS FOUND IN DRY SEASON SAMPLING IN BASIN #D-5.

PLSS: T10N, R05E, Sec. 10 (M)	Accuracy: nonspecific area	Area (acres): 239
UTM: Zone-10 N4289091 E637887	Latitude/Longitude: 38.73974 / -121.41345	Elevation (feet): 90

County Summary:

Placer

Quad Summary:

Rio Linda (3812164)

Sources:

HEL04R0001 HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE DYER LANE 240 PROPERTY, SACRAMENTO COUNTY, CALIFORNIA. 2004-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 64335	EO Index: 64414
Key Quad: Rio Linda (3812164)	Element Code: ICBRA06010
Occurrence Number: 253	Occurrence Last Updated: 2006-06-20

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed: 2004-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH OF I-80, BETWEEN DRY CREEK ROAD TO THE EAST AND RIO LINDA BLVD TO THE WEST, AT TERMINUS OF JESSIE RD, SACRAMENTO.

Detailed Location:

Ecological:

Threats:

General:

UNKNOWN NUMBER OF CYSTS FOUND IN DRY SEASON SAMPLING IN BASINS SW3 AND SW4.

PLSS: T09N, R05E, Sec. 09 (M)	Accuracy: nonspecific area	Area (acres): 35
UTM: Zone-10 N4278372 E635601	Latitude/Longitude: 38.64354 / -121.44184	Elevation (feet): 35

County Summary:

Sacramento

Quad Summary:

Rio Linda (3812164)

Sources:

HEL04R0002 HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE JESSIE AVENUE PROPERTY, SACRAMENTO COUNTY, CALIFORNIA 2004-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	64336	EO Index:	64415
Key Quad:	Rio Linda (3812164)	Element Code:	ICBRA06010
Occurrence Number:	254	Occurrence Last Updated:	2006-06-20

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed:	2004-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2004-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 BETWEEN DRY CREEK AND PFE ROAD, EAST OF WATT AVENUE AND WEST OF WALERBI ROAD, WEST OF ROSEVILLE.

Detailed Location:

Ecological:

Threats:

General:

UNKNOWN NUMBER OF CYSTS FOUND DURING DRY SEASON SAMPLING IN BASINS SW-1 AT RIOLO 1 SITE, AND SW-1 AT RIOLO 2 SITE.

PLSS: T10N, R05E, Sec. 12 (M)	Accuracy: nonspecific area	Area (acres): 127
UTM: Zone-10 N4288436 E641077	Latitude/Longitude: 38.73334 / -121.37689	Elevation (feet): 110

County Summary:

Placer

Quad Summary:

Citrus Heights (3812163), Rio Linda (3812164)

Sources:

HEL04R0004	HELM BIOLOGICAL CONSULTING - DRY-SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE PFE PROPERTY. 2004-11-01
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Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64338	EO Index: 64417
Key Quad: Elk Grove (3812143)	Element Code: ICBRA06010
Occurrence Number: 255	Occurrence Last Updated: 2006-06-20

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 2004-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG GRANTLINE ROAD, WEST OF INTERSECTION WITH BRADSHAW ROAD, SE OF ELK GROVE.

Detailed Location:
AREA MAPPED IS THE STUDY AREA AS THE LOCATION OF "BIG SWALE" WAS NOT SPECIFICALLY IDENTIFIED.

Ecological:

Threats:

General:

UNKNOWN NUMBER OF CYSTS FOUND DURING DRY SEASON SAMPLING OF "BIG SWALE" SITE AT "FAT PROPERTY."

PLSS: T06N, R06E, Sec. 05 (M)	Accuracy: nonspecific area	Area (acres): 102
UTM: Zone-10 N4251402 E644963	Latitude/Longitude: 38.39910 / -121.33990	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

HEL04R0003 HELM BIOLOGICAL CONSULTING - DRY-SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE FAT PROPERTY, SACRAMENTO COUNTY, CALIFORNIA. 2004-11-01



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	64350	EO Index:	64429
Key Quad:	Carmichael (3812153)	Element Code:	ICBRA06010
Occurrence Number:	258	Occurrence Last Updated:	2006-03-27

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	2002-02-20	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-02-20	Occurrence Rank:	Excellent
Owner/Manager:	PVT-SACRAMENTO VLY CONSERVANCY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
SACRAMENTO PRAIRIE VERNAL POOL PRESERVE, SE OF SACRAMENTO.

Detailed Location:
0.8 MILE SOUTH OF INTERSECTION OF JACKSON ROAD AND EXCELSIOR ROAD, JUST EAST OF EXCELSIOR ROAD.

Ecological:
VERNAL POOLS WITHIN A CALIFORNIA ANNUAL GRASSLAND MATRIX. CYZICUS CALIFORNICUS ALSO PRESENT.

Threats:
THE GRASS GLYCERIA DECLINATA IS BECOMING PROBLEMATIC IN THE AREA.

General:
"LOTS" OF INDIVIDUALS SEEN.

PLSS: T08N, R06E, Sec. 35 (M)	Accuracy: specific area	Area (acres): 2
UTM: Zone-10 N4263411 E648591	Latitude/Longitude: 38.50669 / -121.29582	Elevation (feet): 120

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

WIT05F0003	WITHAM, C. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2005-02-20
WIT05R0001	WITHAM, C. - SACRAMENTO PRAIRIE VERNAL POOL PRESERVE, SPECIAL STATUS CRUSTACEAN LOCATIONS. 2005-05-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	64351	EO Index:	64430
Key Quad:	Carmichael (3812153)	Element Code:	ICBRA06010
Occurrence Number:	259	Occurrence Last Updated:	2006-03-27

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed:	2005-02-20	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2005-02-20	Occurrence Rank:	Excellent
Owner/Manager:	PVT-SACRAMENTO VLY CONSERVANCY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
SACRAMENTO PRAIRIE VERNAL POOL PRESERVE, SE OF SACRAMENTO.

Detailed Location:
ABOUT 1.3 MILES SOUTHEAST OF INTERSECTION OF JACKSON ROAD AND EXCELSIOR ROAD, IN THE SE 1/4 OF THE NE 1/4 OF SECTION 35.

Ecological:
VERNAL POOLS.

Threats:
THE GRASS GLYCERIA DECLINATA IS BECOMING PROBLEMATIC IN THE GENERAL AREA.

General:
"LOTS" OF INDIVIDUALS OBSERVED. FOUND IN TWO POOLS; BRACHINECTA LYNCHI WAS ALSO FOUND IN ONE POOL, AND LEPIDURUS PACKARDI WAS FOUND IN THE OTHER.

PLSS: T08N, R06E, Sec. 35 (M)	Accuracy: specific area	Area (acres): 9
UTM: Zone-10 N4263279 E649975	Latitude/Longitude: 38.50526 / -121.27999	Elevation (feet): 120

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

WIT05F0003	WITHAM, C. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2005-02-20
WIT05R0001	WITHAM, C. - SACRAMENTO PRAIRIE VERNAL POOL PRESERVE, SPECIAL STATUS CRUSTACEAN LOCATIONS. 2005-05-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	64352	EO Index:	64431
Key Quad:	Elk Grove (3812143)	Element Code:	ICBRA06010
Occurrence Number:	260	Occurrence Last Updated:	2007-12-12

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	2005-02-28	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2005-02-28	Occurrence Rank:	Excellent
Owner/Manager:	PVT-SACRAMENTO VLY CONSERVANCY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
SACRAMENTO PRAIRIE VERNAL POOL PRESERVE, SE OF SACRAMENTO.

Detailed Location:
JUST NORTH OF FLORIN ROAD, 0.6 MILE WEST OF EAGLES NEST ROAD, APPROXIMATELY 8 MILES NE OF ELK GROVE.

Ecological:
VERNAL POOLS.

Threats:
THE GRASS GLYCERIA DECLINATA IS BECOMING PROBLEMATIC IN THE GENERAL AREA.

General:
"LOTS" OF INDIVIDUALS OBSERVED. FOUND IN 8 POOLS; LEPIDURUS PACKARDI WAS ALSO FOUND IN 5 OF THE POOLS.

PLSS: T08N, R06E, Sec. 36 (M)	Accuracy: specific area	Area (acres):	7
UTM: Zone-10 N4262505 E650611	Latitude/Longitude: 38.49819 / -121.27286	Elevation (feet):	120

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

WIT05F0003	WITHAM, C. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2005-02-20
WIT05R0001	WITHAM, C. - SACRAMENTO PRAIRIE VERNAL POOL PRESERVE, SPECIAL STATUS CRUSTACEAN LOCATIONS. 2005-05-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 64358	EO Index: 64437
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 261	Occurrence Last Updated: 2006-06-20

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed: 2005-04-07	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-04-07	Occurrence Rank: Good
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Unknown
Presence: Presumed Extant	

Location:

VICINITY OF INTERSECTION OF EAGLES NEST ROAD AND WOODRING ROAD, MATHER FIELD, SE OF SACRAMENTO.

Detailed Location:

JUST NORTH OF WOODRING WAY, AT T-JUNCTION WITH MCROBERTS WAY, 0.55 MILES WEST OF INTERSECTION OF WOODRING WAY AND EAGLES NEST ROAD.

Ecological:

VERNAL POOL IN CALIFORNIA GRASSLAND MATRIX.

Threats:**General:**

"LOTS" OF INDIVIDUALS FOUND, BUT FIELD SURVEY FORM REFERS TO THREE SEPARATELY MAPPED POOLS.

PLSS: T08N, R06E, Sec. 13 (M)	Accuracy: specific area	Area (acres): 1
UTM: Zone-10 N4268408 E651397	Latitude/Longitude: 38.55122 / -121.26257	Elevation (feet): 120

County Summary:

Sacramento

Quad Summary:

Carmichael (3812153)

Sources:

WIT05F0004	WITHAM, C. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS. 2005-XX-XX
WIT05R0002	WITHAM, C. - MATHER FIELD VERNAL POOLS, SPECIAL STATUS CRUSTACEAN LOCATIONS. 2005-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64901	EO Index: 64980
Key Quad: Carmichael (3812153)	Element Code: ICBRA06010
Occurrence Number: 262	Occurrence Last Updated: 2006-06-20

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 2005-04-07	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-04-07	Occurrence Rank: Good
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST SOUTHWEST OF INTERSECTION OF EAGLES NEST ROAD AND WOODRING ROAD, MATHER FIELD, SE OF SACRAMENTO.

Detailed Location:

Ecological:
VERNAL POOL IN CALIFORNIA GRASSLAND MATRIX.

Threats:

General:
"LOTS" OF INDIVIDUALS FOUND, BUT FIELD SURVEY FORM REFERS TO THREE SEPARATELY MAPPED POOLS.

PLSS: T08N, R06E, Sec. 13 (M)	Accuracy: specific area	Area (acres): 1
UTM: Zone-10 N4267775 E651432	Latitude/Longitude: 38.54551 / -121.26231	Elevation (feet): 120

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

WIT05F0006	WITHAM, C. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS. ATTACHED TO REPORT, WIT05R0002 2005-XX-XX
WIT05R0002	WITHAM, C. - MATHER FIELD VERNAL POOLS, SPECIAL STATUS CRUSTACEAN LOCATIONS. 2005-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64902	EO Index: 64981
Key Quad: Buffalo Creek (3812152)	Element Code: ICBRA06010
Occurrence Number: 263	Occurrence Last Updated: 2011-06-27

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 2005-04-07	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-04-07	Occurrence Rank: Good
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Unknown
Presence: Presumed Extant	

Location:
1 MI NE OF JCT OF EAGLES NEST RD & KEIFER BLVD ND 0.4 MI W OF SUNRISE BLVD, S OF MATHER GOLF COURSE, SE OF SACRAMENTO.

Detailed Location:
POOL AT THE NE END OF UNNAMED LOOP ROAD, JUST EAST OF MATHER VERNAL POOL PRESERVE. MAPPED TO PROVIDED MAP.

Ecological:
VERNAL POOL IN CALIFORNIA GRASSLAND MATRIX.

Threats:

General:
"LOTS" OF INDIVIDUALS FOUND 24 FEB - 7 APR 2005, BUT SURVEY FORM REFERS TO THREE SEPARATELY MAPPED POOLS.

PLSS: T08N, R07E, Sec. 18 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4267216 E652451	Latitude/Longitude: 38.54030 / -121.25074	Elevation (feet): 160

County Summary:	Quad Summary:
Sacramento	Buffalo Creek (3812152), Carmichael (3812153)

Sources:

WIT05F0007	WITHAM, C. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS. ATTACHED TO REPORT, WIT05R0002 2005-XX-XX
WIT05R0002	WITHAM, C. - MATHER FIELD VERNAL POOLS, SPECIAL STATUS CRUSTACEAN LOCATIONS. 2005-05-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 65888
Key Quad: Florin (3812144)
Occurrence Number: 265

EO Index: 65967
Element Code: ICBRA06010
Occurrence Last Updated: 2014-07-28

Scientific Name: *Linderiella occidentalis*

Common Name: California linderiella

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2G3
 State: S2S3

Rare Plant Rank:
Other Lists: IUCN_NT-Near Threatened

General Habitat:
 SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.

Micro Habitat:
 WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed: 2007-03-08
Last Survey Date: 2007-03-08
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Fair
Trend: Unknown

Location:
 FROM 0.4 TO 0.7 MILE NE OF HWY 99 AT LAGUNA BLVD, 0.4 TO 0.75 MILE S OF SHELDON RD AT POWER INN RD, ELK GROVE.

Detailed Location:
 MAPPED TO COORDINATES GIVEN FOR POOLS VP21, VP11, AND SW14 FROM FIELD SURVEY FORMS. COORDINATES NOT GIVEN FOR ADDITIONAL DETECTIONS IN 2006 AT VP6, VP14, VP22, SW2, & SW3; BUT THESE POOLS WERE WITHIN 600' OF VP21.

Ecological:
 VERNAL POOLS AND SEASONAL WETLANDS IN ANNUAL GRASSLAND. SURFACE AREA OF POOLS RANGED FROM 489 TO 9849 SQ M; AVG DEPTH 7-30 CM; WATER TEMPERATURE 15-25 DEGREES C. SURROUNDING LAND USE RESIDENTIAL AND COMMERCIAL.

Threats:
 A SMALL AMOUNT OF GARBAGE NOTED WITHIN SOUTHERN POOL IN 2007.

General:
 100S OF INDIVIDUALS OBSERVED IN 7 BASINS DURING SURVEYS ON 25 JAN, 8 FEB, AND 5 APR 2006. 100S OBSERVED IN 2 BASINS ON 8 MAR 2007.

PLSS: T07N, R05E, Sec. 26 (M)	Accuracy: specific area	Area (acres): 14
UTM: Zone-10 N4254915 E640436	Latitude/Longitude: 38.43147 / -121.39101	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Florin (3812144)
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- Sources:**
- BAL06F0004 BALLARD, A. & S. ROPER - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2006-04-05
 - BAL07F0006 BALLARD, A. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2007-03-08
 - BAL07F0007 BALLARD, A. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2007-03-08



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	82079	EO Index:	83068
Key Quad:	Florin (3812144)	Element Code:	ICBRA06010
Occurrence Number:	387	Occurrence Last Updated:	2011-03-23

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed:	2009-03-11	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2009-03-11	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
1 MI W OF HOOD FRANKLIN RD AT I-5, 1 MI NE HOOD PO.

Detailed Location:
JUST S OF NORTH STONE LAKE. POOL ID: 16, 20-23, 26-28, 30, 32, 37, 56-58, 63, 65-67, 80 & 84. MAPPED TO PROVIDED SHAPEFILE.

Ecological:
MAXIMUM DEPTH OF POOLS RANGED FROM 6 IN TO 24 IN; WATER TEMPERATURE RANGED FROM 13 TO 21 DEGREES CELSIUS.

Threats:
MOSQUITOFISH (GAMBUSIA AFFINIS) ARE KNOWN PREDATORS OF FAIRY SHRIMP AND WERE FOUND IN SOME PONDS.

General:
10S OF CALIFORNIA LINDERIELLA OBSERVED AT 13 DIFFERENT POOLS AND 2 DITCHES; 100S OBSERVED AT 5 DIFFERENT POOLS DURING WET-SEASON FIELD SURVEYS BETWEEN 6-11 MAR 2009.

PLSS: T06N, R04E, Sec. 13 (M)	Accuracy: specific area	Area (acres): 234
UTM: Zone-10 N4248918 E631007	Latitude/Longitude: 38.37888 / -121.50013	Elevation (feet): 10

County Summary:	Quad Summary:
Sacramento	Bruceville (3812134), Courtland (3812135), Florin (3812144), Clarksburg (3812145)

Sources:
DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	83330	EO Index:	84336
Key Quad:	Carmichael (3812153)	Element Code:	ICBRA06010
Occurrence Number:	391	Occurrence Last Updated:	2011-07-05

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed:	1997-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1997-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	SAC COUNTY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
MATHER FIELD, ABOUT 1 MILE WEST OF DOUGLAS ROAD AND MATHER BLVD INTERSECTION, RANCHO CORDOVA.

Detailed Location:
SOUTH OF THE NORTH END OF THE AIRPORT RUNWAY.

Ecological:
FOUND IN VERNAL POOLS.

Threats:
General:

OBSERVED IN 2 POOLS DURING SURVEYS CONDUCTED FEB - MAR 1996, AND JAN 1997.

PLSS:	T08N, R06E, Sec. 11 (M)	Accuracy:	specific area	Area (acres):	3
UTM:	Zone-10 N4268967 E649538	Latitude/Longitude:	38.55658 / -121.28378	Elevation (feet):	93

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
JSA97R0002 JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93229	EO Index:	94369
Key Quad:	Florin (3812144)	Element Code:	ICBRA06010
Occurrence Number:	394	Occurrence Last Updated:	2014-07-18

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	2008-05-02	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2008-05-02	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ABOUT 0.9 MILE WNW OF HIGHWAY 99 AT GRANT LINE ROAD & 1.1 MILES NE OF KAMMERER RD AT MCMILLAN ROAD, SOUTH OF ELK GROVE.

Detailed Location:
 "STERLING MEADOWS PROPERTY." MAPPED TO LOCATIONS GIVEN IN 2008 REPORT.

Ecological:
 200-ACRE PROPERTY. BRANCHINECTA CYSTS ALSO FOUND.

Threats:
General:
 LINDERIELLA OCCIDENTALIS CYSTS WERE FOUND IN 8 OUT OF 15 BASINS DRY-SAMPLED ON 2 MAY 2008.

PLSS: T06N, R05E, Sec. 12 (M)	Accuracy: specific area	Area (acres):	28
UTM: Zone-10 N4249234 E641654	Latitude/Longitude: 38.38010 / -121.37821	Elevation (feet):	35

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 HEL08R0003 HELM, B. (HELM BIOLOGICAL CONSULTING) - WET SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE STERLING MEADOWS PROPERTY, 2008. 2008-05-12



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93281	EO Index:	94417
Key Quad:	Florin (3812144)	Element Code:	ICBRA06010
Occurrence Number:	404	Occurrence Last Updated:	2014-07-24

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	1995-01-31	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1995-01-31	Occurrence Rank:	Unknown
Owner/Manager:	SRCS-D STONE LAKES NWP	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 NORTH SIDE OF MORRISON CREEK, ABOUT 0.9 MILES NE OF THE I-5 CROSSING, 1.75 MILES SOUTH OF SACRAMENTO.

Detailed Location:
 MAPPED GENERALLY TO LOCALITY "INUNDATED WHEAT FIELD NORTH OF MORRISON CREEK LEVEE ROAD, 50 FEET EAST OF PUMPING STATION, 7/8 MILE EAST OF INTERSTATE 5."

Ecological:
 POOL DEPTH OF 0.07 METERS.

Threats:
General:

3 COLLECTED ON 31 JAN 1995 (CASIZ #104242).

PLSS: T07N, R04E, Sec. 24 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4256935 E632399	Latitude/Longitude: 38.45089 / -121.48269	Elevation (feet): 0

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 WAL95S0018 WALKER, R. & E. KOFORD - CASIZ #104242, COLLECTED "NORTH OF MORRISON CREEK LEVEE ROAD... 7/8 MILE EAST OF INTERSTATE 5." 1995-01-31



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93293	EO Index:	94427
Key Quad:	Florin (3812144)	Element Code:	ICBRA06010
Occurrence Number:	408	Occurrence Last Updated:	2014-07-28

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	Micro Habitat:
SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Last Date Observed:	2007-10-03	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-10-03	Occurrence Rank:	Fair
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
EAST SIDE OF THE SOUTHERN PACIFIC RAILROAD TRACKS FROM CASELMAN ROAD TO CORD WAY, SACRAMENTO.

Detailed Location:
MAPPED TO LOCATIONS GIVEN FOR OCCUPIED SITES (P1, P2, & P3; BASIN 3; DITCH 1 & DITCH 2; HBC 13 & 21) ON DEANE-VINTAGE I / CARLISLE VILLAGE PROPERTY.

Ecological:
34 BASINS INCLUDING PONDS AND DITCHES SURVEYED ON PROPERTY.

Threats:
General:
UNKNOWN # DETECTED IN 4 BASINS IN JAN 2006. CYSTS DETECTED IN 5 OF 34 BASINS DRY-SAMPLED 15 OCT 2005, 1 AUG 2006, & 3 OCT 2007.

PLSS: T07N, R05E, Sec. 12 (M)	Accuracy: specific area	Area (acres): 28
UTM: Zone-10 N4259237 E640781	Latitude/Longitude: 38.47035 / -121.38620	Elevation (feet): 35

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

HEL06F0025	HELM, B. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2006-01-16
HEL07F0015	HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2007-10-03
HEL07R0014	HELM, B. (HELM BIOLOGICAL CONSULTING) - DRY-SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE DEANE-VINTAGE PROPERTIES 2007-10-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93294	EO Index:	94428
Key Quad:	Florin (3812144)	Element Code:	ICBRA06010
Occurrence Number:	409	Occurrence Last Updated:	2014-07-29

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	2006-05-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2006-05-01	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 NORTH SIDE OF BILBY ROAD ABOUT 0.5 MILE EAST OF THE INTERSECTION WITH BRUCEVILLE ROAD, ELK GROVE.

Detailed Location:
 MAPPED TO LOCATION GIVEN FOR OCCUPIED POOL SW-2; MAPPED NON-SPECIFICALLY SINCE COORDINATES AND MAP DO NOT APPEAR TO BE HIGHLY ACCURATE.

Ecological:
 LARGE, EXCAVATED SEASONAL WETLAND IN DISTURBED ANNUAL GRASSLAND.

Threats:
General:
 DETECTED AT A DENSITY OF 50/25L ON 22 JAN 2006; OVER 100 OBSERVED BETWEEN 22 JAN & 1 MAY 2006.

PLSS: T06N, R05E, Sec. 10 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4249178 E639001	Latitude/Longitude: 38.38001 / -121.40858	Elevation (feet): 30

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

HEL06F0026	HELM, B. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2006-05-01
HEL06F0027	HELM, B. - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2006-01-22
HEL06R0005	HELM, B. (HELM BIOLOGICAL CONSULTING) - WET SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE LAGUNA RIDGE PHASE II SPECIFIC PLAN, 2006. 2006-06-30



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 48248	EO Index: 94430	
Key Quad: Florin (3812144)	Element Code: ICBRA06010	
Occurrence Number: 410	Occurrence Last Updated: 2014-08-21	

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 1991-03-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-03-13	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Extirpated	

Location:
ABOUT 4 MILES SOUTH OF SACRAMENTO AND 2 MILES EAST OF I-5.

Detailed Location:
MAPPED TO SPECIMEN LOCALITY, "4.0 MILES SOUTH OF SACRAMENTO, 2 MILES EAST OF INTERSTATE 5."

Ecological:
VERNAL POOL. 2008 AERIAL PHOTO SHOWS THAT THIS AREA HAS BEEN COMPLETELY DEVELOPED. BRANCHINECTA MESOVALLENSIS COLLECTED AT THIS LOCALITY ON SAME DATE.

Threats:
DEVELOPMENT.

General:
19 COLLECTED ON 13 MAR 1991 (BELK #1019 & 1022; USNM #1144059 & 1144063).

PLSS: T07N, R05E, Sec. 32 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4252377 E635652	Latitude/Longitude: 38.40934 / -121.44630	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
MUT91S0005 MUTH, D. - USNM #1144059 & 1144063, COLLECTED "4.0 MILES SOUTH OF SACRAMENTO, 2 MILES EAST OF INTERSTATE 5." 1991-03-13



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93299	EO Index:	94434
Key Quad:	Florin (3812144)	Element Code:	ICBRA06010
Occurrence Number:	411	Occurrence Last Updated:	2014-07-29

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	2008-03-18	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2008-03-18	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 NORTHWEST CORNER OF INTERSECTION OF FRENCH ROAD AND GERBER ROAD, EAST OF SOUTHERN PACIFIC RAILROAD TRACKS, SACRAMENTO.

Detailed Location:
 MAPPED TO LOCATIONS GIVEN FOR OCCUPIED POOLS SW1, SW2, SW3, RD1, DD1A, DD1B, DD1C, AND RD1 (2008). "FEENSTRA UNIT 6A" PROPERTY.

Ecological:
 OBSERVED WITHIN MOST OF THE SURVEYED FEATURES, WHICH INCLUDED SEASONAL WETLANDS, DRAINAGE AND ROADSIDE DITCHES, AND DISTURBANCE-CREATED POOLS. IN MOSTLY NON-NATIVE, ANNUAL GRASSLAND. LEPIDURUS PACKARDI ALSO FOUND.

Threats:
General:
 DETECTED AT LOW TO HIGH ABUNDANCE IN 7 OUT OF 9 BASINS SAMPLED, FROM 6 FEB TO 18 MAR 2008.

PLSS: T07N, R05E, Sec. 02 (M)	Accuracy: specific area	Area (acres): 27
UTM: Zone-10 N4260698 E640311	Latitude/Longitude: 38.48359 / -121.39129	Elevation (feet): 35

County Summary:	Quad Summary:
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Sacramento	Florin (3812144)
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Sources:
 HIR08D0001 HIRKALA, M. (GIBSON & SKORDAL, LLC) - LISTED VERNAL POOL BRANCHIOPOD WET SEASON SURVEY 90-DAY REPORT, FEENSTRA UNIT 6A PROPERTY, SACRAMENTO COUNTY, CALIFORNIA, JUNE 2008. 2008-06-24



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93310	EO Index: 94445
Key Quad: Verona (3812175)	Element Code: ICBRA06010
Occurrence Number: 412	Occurrence Last Updated: 2014-07-30

Scientific Name: <i>Linderiella occidentalis</i>	Common Name: California linderiella
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_NT-Near Threatened
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed: 2006-11-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-11-18	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
W RIEGO ROAD AT POWERLINE ROAD, ABOUT 3 MILES NORTH OF SACRAMENTO INTERNATIONAL AIRPORT, NORTH OF SACRAMENTO.

Detailed Location:
MAPPED TO LOCATIONS OF POOLS OW217 & OW219 FROM 2007 REPORT. PART OF 1,800-ACRE LINEAR SURVEY AREA FOR PGE LINE 123 EXTENSION/LINE 407 (PHASE 1)/METRO AIR PARK DISTRIBUTION FEEDER PROJECT.

Ecological:
EPHEMERAL, ROADSIDE WATER FEATURES JOINED BY A CULVERT.

Threats:
ENERGY INFRASTRUCTURE MAINTENANCE/CONSTRUCTION.

General:
2 CYSTS FOUND IN SOIL SAMPLES TAKEN FROM 2 BASINS IN NOV 2006.

PLSS: T11N, R04E, Sec. 31 (M)	Accuracy: specific area	Area (acres): 17
UTM: Zone-10 N4290030 E623682	Latitude/Longitude: 38.75031 / -121.57668	Elevation (feet): 25

County Summary: Sutter	Quad Summary: Taylor Monument (3812165), Verona (3812175)
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Sources:
HEL07R0029 HELM, B. (HELM BIOLOGICAL CONSULTING) - DRY-SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE PG&E LINE 123 EXTENSION/LINE 407 (PHASE 1)/METRO AIR PARK DISTRIBUTION FEEDER MAIN PROJECT 2007-05-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93328	EO Index:	94474
Key Quad:	Florin (3812144)	Element Code:	ICBRA06010
Occurrence Number:	423	Occurrence Last Updated:	2014-07-30

Scientific Name:	<i>Linderiella occidentalis</i>	Common Name:	California linderiella
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S2S3	Other Lists:	IUCN_NT-Near Threatened

General Habitat:	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.	Micro Habitat:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.
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Last Date Observed:	2003-02-17	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2003-02-17	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
LAGUNA STONELAKE PRESERVE, ON WEST SIDE OF FRANKLIN BLVD ABOUT 0.5 MILE SSW OF THE WHITELOCK PKWY JUNCTION, ELK GROVE.

Detailed Location:
MAPPED TO LOCATION GIVEN FOR POOL 21 ON 2003 FIELD SURVEY FORM.

Ecological:
PRESERVE WITH 49 VERNAL POOLS CONSTRUCTED IN 1999. SOME EVIDENCE OF ORV USE WAS NOTED IN 2003, BUT THERE WAS NO EVIDENCE OF EFFECT TO THE POOLS. LEPIDURUS PACKARDI ALSO FOUND.

Threats:
General:
DETECTED IN ONE POOL ON 17 FEB 2003.

PLSS: T06N, R05E, Sec. 08 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4249829 E634927	Latitude/Longitude: 38.38649 / -121.45508	Elevation (feet): 17

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
FAR03F0019 FARMER, M. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2003-02-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33179	EO Index: 2805
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 5	Occurrence Last Updated: 1996-07-08

Scientific Name: <i>Lepidurus packardi</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1995-02-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1995-02-28	Occurrence Rank: Good
Owner/Manager: PVT-RMC LONESTAR	Trend: Unknown
Presence: Presumed Extant	

Location:
0.6 MILE NNW OF THE INTERSECTION OF EAGLES NEST ROAD AND DOUGLAS ROAD, NE OF (FORMER) MATHER AIR FORCE BASE.

Detailed Location:
Ecological:
HABITAT CONSISTS OF A VERNAL POOL ON RED BLUFF LOAM SOIL. DOMINANT PLANTS INCLUDE RANUNCULUS BONARIENSIS VAR. TRISEPALUS, ERYNGIUM VASEYI, LIMNANTHES ALBA, AND ELEOCHARIS MACROSTACHYA.

Threats:
POSSIBLE THREAT OF GRAVEL MINING - SITE IS OWNED BY A GRAVEL MINING COMPANY, CURRENTLY MINING NORTH AND WEST OF SITE.

General:
1 EXUVIUM COLLECTED ON 28 FEBRUARY 1995 AND DEPOSITED AT CAS.

PLSS: T08N, R06E, Sec. 12 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4270325 E651241	Latitude/Longitude: 38.56852 / -121.26395	Elevation (feet): 125

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

FIE95F0001	FIELDS, W. (HYDROZOOLOGY) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1995-02-28
FIE95U0001	FIELDS, W. (HYDROZOOLOGY) - FORMAL LETTER TO DFG FOR VERNAL POOL CRUSTACEAN SURVEY ON RMC LONESTAR LAND - ATTACHED TO FIE95F0001 & FIE95F0002. 1995-05-30



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 82551	EO Index: 2105	
Key Quad: Buffalo Creek (3812152)	Element Code: ICBRA10010	
Occurrence Number: 12	Occurrence Last Updated: 2015-01-09	

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2005-01-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-01-21	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:

NORTHWEST OF THE JUNCTION OF FLORIN RD & SUNRISE BLVD, ON NORTH & SOUTH SIDES OF JACKSON RD (HWY 16).

Detailed Location:

GRECH/TRIANGLE GRECH PROPERTY. 1995 DETECTIONS IN POOLS #42, 41, 44, 70B, 72, 83C, & 200. 1996 DETECTIONS IN E 1/2 OF SE 1/4 & NW 1/4 OF NE 1/4 SEC 31. 2005 DETECTION LOCATIONS UNKNOWN; SOMEWHERE WITHIN PROPERTY.

Ecological:

HARDPAN VERNAL POOLS, SEASONAL WETLANDS, CUTOFF DRAINAGE CHANNEL, AND STOCKPOND IN NON-NATIVE GRASSLAND USED FOR GRAZING. AERIAL IMAGERY SINCE TIME OF ORIGINAL SURVEYS SHOWS HABITAT MODIFICATION FROM EXPANDED MINING OPERATIONS.

Threats:

RURAL AGRICULTURAL USES AND GRAVEL MINING.

General:

10S OBSERVED IN 7 POOLS, FEB 1995; 6 COLLECTED & DEPOSITED AT CAS (CATALOG # UNKNOWN). 10S TO 100 IN 5 FEATURES, "SPRING" 1996. BRANCHIOPODS INCLUDING L. PACKARDI FOUND IN 6 OF 12 REFERENCE POOLS & 15 OF 19 CREATED POOLS, 21 JAN 2005.

PLSS: T08N, R07E, Sec. 31 (M)	Accuracy: nonspecific area	Area (acres): 196
UTM: Zone-10 N4263033 E652768	Latitude/Longitude: 38.50257 / -121.24802	Elevation (feet): 120

County Summary:

Sacramento

Quad Summary:

Sloughouse (3812142), Buffalo Creek (3812152), Carmichael (3812153)

Sources:

LSA06R0001	LSA ASSOCIATES, INC. - 2005 ANNUAL REPORT TO THE U.S. FISH AND WILDLIFE SERVICE FOR SECTION 10 (A) (R) (A) PERMIT NUMBER TE-797234-6 ISSUED TO LSA ASSOCIATES, INC. 2006-01-31
MUT96F0004	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1996-XX-XX
MUT96F0005	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1996-XX-XX
MUT96F0006	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1996-XX-XX
SUG95R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX
SUG95R0002	SUGNET & ASSOCIATES - CORRECTIONS TO ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT #PRT-795933, 1994-95. 1995-10-30



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 32443	EO Index: 638
Key Quad: Sacramento East (3812154)	Element Code: ICBRA10010
Occurrence Number: 14	Occurrence Last Updated: 2015-01-14

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat:	Micro Habitat:
INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Last Date Observed: 1995-03-31	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1995-03-31	Occurrence Rank: Unknown
Owner/Manager: PVT-PIPE TRADES TRUST FUND	Trend: Unknown
Presence: Presumed Extant	

Location:
1.2 KM ESE OF ELDER CREEK ROAD X FLORIN PERKINS ROAD; SE OF THE FORMER SACRAMENTO ARMY DEPOT.

Detailed Location:
ELDER CREEK PROPERTY. MAPPED TO LOCATIONS GIVEN IN 1995 REPORT FOR OCCUPIED POOLS (#21, 38, 41, 43, 44, 45, 46, 50, 53, 86).

Ecological:
HARDPAN VERNAL POOLS IN ANNUAL GRASSLAND. BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS, TREE FROG ALSO PRESENT.

Threats:
RURAL AGRICULTURE; URBAN DEVELOPMENT OCCURRING IN VICINITY.

General:
FEWER THAN 50 FOUND IN 4 POOLS, MORE THAN 50 IN 6 OF 90 POOLS SAMPLED 21 FEB 1995. FEWER THAN 50 IN 1 POOL ON 31 MAR 1995. 4 COLLECTED AND DEPOSITED IN CAS (CASIZ #103118, 103120, 103121 & 103124).

PLSS: T08N, R05E, Sec. 36 (M)	Accuracy: nonspecific area	Area (acres): 16
UTM: Zone-10 N4263165 E641409	Latitude/Longitude: 38.50564 / -121.37821	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153), Sacramento East (3812154)

Sources:

BAL95S0015	BALFOUR, P. - CASIZ #103118, 103120, & 103121, COLLECTED FROM "SW1/4 OF NE 1/4 SECTION 36; T08N R05E." 1995-02-21
BAL95S0016	BALFOUR, P. - CASIZ #103124, COLLECTED FROM "NW1/4 OF NE1/4 SECTION 36; T08N R05E." 1995-02-21
SUG95R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 82507	EO Index: 1011
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 21	Occurrence Last Updated: 2015-05-04

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat:	Micro Habitat:
INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Last Date Observed: 1996-03-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-07-07	Occurrence Rank: Unknown
Owner/Manager: PVT-GRANITE CONSTRUCTION CO	Trend: Unknown
Presence: Presumed Extant	

Location:
 GRANITE-TEICHERT PILOT PROJECT, SW OF MATHER AFB; S OF KIEFER BLVD, E OF BRADSHAW RD, N JACKSON RD, & W OF EXCELSIOR RD.

Detailed Location:
 1989: "S OF MATHER AFB." 1991: SOMEWHERE IN T8N, R6E, SEC 21 & 22. 1993: TRS SEC 22. 1995-1996 DETECTIONS IN 4.9-AC "WETLAND COMPENSATION/MITIGATION PRESERVE" CENTERED AT (38.5356, -121.3075). 2010: S1/2 SW1/4 SEC 16; NOW DEVELOPED.

Ecological:
 NATURAL & CREATED VERNAL POOLS IN GRAZED ANNUAL GRASSLAND USED FOR AGGREGATE MINING. AERIAL PHOTOS SINCE THE TIME OF SURVEY SHOW HABITAT DESTRUCTION FROM EXPANSION OF ROADS & MINING; AND THAT THE "PRESERVE" PARCEL WAS PLOWED OR DISKED.

Threats:
 ROAD BUILDING, GRAVEL MINING, PLOWING/DISKING.

General:
 COLLECTED MAR 1989 (USNM #1144021). MANY FOUND APR 1991. FOUND IN 1 POOL, 5 MAR 1993 (SUGNET ID #149). 50+ IN 2 OF 10 POOLS (2 COLLECTED, CASIZ #103114 & 103109), 5 FEB 1995. 10S IN 1 OF 10 POOLS, 21 MAR 1996. 0 FOUND IN DRY SURVEYS 2009-10.

PLSS: T08N, R06E, Sec. 22 (M)	Accuracy: nonspecific area	Area (acres): 1,421
UTM: Zone-10 N4266264 E646754	Latitude/Longitude: 38.53268 / -121.31628	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

ANO89S0007	ANONYMOUS - USNM #1144021, COLLECTED FROM "VERNAL POOLS SOUTH OF MATHER AIR FORCE BASE." 1989-03-01
BAL95S0011	BALFOUR, P. - CASIZ #103109 & 103114, COLLECTED FROM "SW 1/4 OF NE 1/4 SECTION 22; T08N R06E." 1995-02-05
HEL09R0008	HELM, B. (HELM BIOLOGICAL CONSULTING) - SOIL EXAMINATIONS FOR THE PRESENCE OF FEDERALLY LISTED LARGE BRANCHIOPODS AT THE SMUD EAST CAMPUS-OPERATIONS CENTER 2009-11-30
HEL09R0009	HELM, B. (HELM BIOLOGICAL CONSULTING) - ADDENDUM SOIL EXAMINATIONS FOR THE PRESENCE OF FEDERALLY LISTED LARGE BRANCHIOPODS AT THE SMUD EAST CAMPUS-OPERATIONS CENTER 2009-11-19
HEL10R0006	HELM, B. (HELM BIOLOGICAL CONSULTING) - SOIL EXAMINATIONS FOR THE PRESENCE OF FEDERALLY LISTED LARGE BRANCHIOPODS AT THE SMUD EAST CAMPUS-OPERATIONS CENTER (2010) 2010-08-XX
HUB91F0003	HUBER, A. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1991-04-XX
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX
SUG95R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX
SUG95R0002	SUGNET & ASSOCIATES - CORRECTIONS TO ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT #PRT-795933, 1994-95. 1995-10-30
SUG96R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED BRANCHIOPODS CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933. 1996-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32455	EO Index: 8883	
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010	
Occurrence Number: 22	Occurrence Last Updated: 2015-01-13	

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1996-03-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1996-03-21	Occurrence Rank: Unknown
Owner/Manager: PVT-GRANITE CONSTRUCTION CO	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG NORTH EDGE OF KIEFER BLVD, 0.7 KM WNW OF KIEFER BLVD AT MATHER PARKWAY.

Detailed Location:
GRANITE-TEICHERT PILOT PROJECT SITE (PART). 1995: 10 TOTAL WATERBODIES SURVEYED, DISCREPANCY BETWEEN MAP AND FIELD SURVEY FORM; MAPPED ACCORDING TO MAP NOT SURVEY FORM. 1996: 10 TOTAL WATERBODIES SURVEYED.

Ecological:
BOTH CONSTRUCTED & HISTORIC HARDPAN VERNAL POOLS IN ANNUAL GRASSLAND; WETLAND COMPENSATION/MITIGATION PRESERVE. LINDERIELLA OCCIDENTALIS ALSO PRESENT.

Threats:
General:
50+ OBSERVED IN POOL #10, 5 FEB, & IN POOLS #9 & 10 ON 21 FEB 1995; 2 COLLECTED AND DEPOSITED IN CAS (CASIZ #103113 & 103122). FEWER THAN 50 ADULTS OBSERVED IN POOLS #7, 9 & 10, 21 MAR 1996.

PLSS: T08N, R06E, Sec. 22 (M)	Accuracy: specific area	Area (acres): 2
UTM: Zone-10 N4266913 E648056	Latitude/Longitude: 38.53832 / -121.30122	Elevation (feet): 70

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

BAL95S0012	BALFOUR, P. - CASIZ #103113 & 103122, COLLECTED FROM "NE 1/4 OF NE 1/4 SECTION 22; T08N R06E." 1995-02-21
SUG95R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX
SUG95R0002	SUGNET & ASSOCIATES - CORRECTIONS TO ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT #PRT-795933, 1994-95. 1995-10-30
SUG96R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED BRANCHIOPODS CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933. 1996-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93185	EO Index: 1787	
Key Quad: Florin (3812144)	Element Code: ICBRA10010	
Occurrence Number: 32	Occurrence Last Updated: 2015-01-29	

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2013-01-29	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2013-01-29	Occurrence Rank: Poor
Owner/Manager: SRCSD, PVT-WESTERN PACIFIC RR	Trend: Unknown
Presence: Presumed Extant	

Location:
SRWTP BUFFERLANDS, FROM BEACON CREEK SOUTH TO DWIGHT RD AND FROM FRANKLIN BLVD WEST TO RAILROAD TRACKS, SACRAMENTO.

Detailed Location:
1992-93 & 2012-13 DETECTIONS MAINLY ALONG RR TRACKS NEAR WATER TREATMENT PLANT. MAPPED TO INCLUDE ENTIRE BUFFERLANDS PRESERVE AS DESCRIBED IN 2000 FIELD SURVEY FORM; SPECIFIC LOCATIONS NOT GIVEN FOR DETECTIONS IN POOLS THROUGHOUT PRESERVE.

Ecological:
1992-93: SLIGHTLY TURBID PONDED DEPRESSIONS IN RR ROW & ROADSIDE DITCHES. BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS ALSO FOUND. 2012-13: 2-20" DEEP DEPRESSIONS ON BOTH SIDES OF RR TRACKS.

Threats:
VEHICLE ENCROACHMENT DURING RAILROAD MAINTENANCE & TREATMENT PLANT ACTIVITIES (1993). ORVS, WEEDS (2012).

General:
DETECTED, 2 APR 1992. OVER 100 ADULTS OBSERVED, 23 FEB 1993; 1 COLLECTED. DETECTED IN SEC 29, 12 MAR 1993 (SUGNET #134). COLLECTED IN 1995. FOUND IN 19 AC OF POOLS OVER 732 AC IN 2000. 100S DETECTED IN MULTIPLE BASINS, DEC 2012 & JAN 2013.

PLSS: T07N, R05E, Sec. 20 (M)	Accuracy: nonspecific area	Area (acres): 1,120
UTM: Zone-10 N4256457 E635064	Latitude/Longitude: 38.44619 / -121.45225	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

KOF92U0001	KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX
LEA93F0010	LEACH, S. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1993-02-23
PET00F0002	PETRASH, S. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2000-XX-XX
PIM12F0001	PIMENTEL, E. (AECOM) - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2012-12-28
PIM13F0001	PIMENTEL, E. (AECOM) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2013-01-29
PIM13F0003	PIMENTEL, E. (AECOM) - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS 2013-01-29
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX
WAL95S0022	WALKER, R. & E. KOFORD - CASIZ #103315, COLLECTED "200' SOUTHWEST OF SACRAMENTO MUNICIPAL UTILITY DISTRICT SWITCHYARD, 75 FEET WEST OF UNION PACIFIC RAILROAD TRACKS." 1995-02-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32730	EO Index: 1142	
Key Quad: Buffalo Creek (3812152)	Element Code: ICBRA10010	
Occurrence Number: 54	Occurrence Last Updated: 1996-01-05	

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1993-02-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-02-02	Occurrence Rank: Fair
Owner/Manager: BLM	Trend: Unknown
Presence: Presumed Extant	

Location:
FORMER MATHER AIR FORCE BASE; WESTERN PORTION OF TRIANGLE FORMED BY DOUGLAS RD, SUNRISE BOULEVARD & FOLSOM SOUTH CANAL.

Detailed Location:
LAND TO THE NORTH AND EAST IS PRIVATELY-OWNED FOR INDUSTRIAL/BUSINESS; THE FORMER MATHER AFB IS TO THE SOUTH AND WEST; EAST PARCEL IS UNDEVELOPED.

Ecological:
GRASSLANDS.

Threats:
IDENTIFIED FOR EXCHANGE.

General:
MANY INDIVIDUALS OF BOTH SPECIES, LEPIDURUS PACKARDI AND LINDERIELLA OCCIDENTALIS, OBSERVED; COLLECTION MADE.

PLSS: T08N, R07E, Sec. 07 (M)	Accuracy: specific area	Area (acres): 20
UTM: Zone-10 N4269191 E652586	Latitude/Longitude: 38.55807 / -121.24877	Elevation (feet): 140

County Summary: Sacramento	Quad Summary: Buffalo Creek (3812152), Carmichael (3812153)
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Sources:
CRA93F0002 CRANSTON, P. (U.S. BUREAU OF LAND MANAGEMENT) - FIELD SURVEY FORM FOR LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1993-02-02



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 94757	EO Index: 13036
Key Quad: Sacramento East (3812154)	Element Code: ICBRA10010
Occurrence Number: 66	Occurrence Last Updated: 2015-05-05

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1992-04-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-04-03	Occurrence Rank: Poor
Owner/Manager: PVT-SPRR	Trend: Unknown
Presence: Presumed Extant	

Location:
RAILROAD DITCH AT 47TH AVENUE (ELDER CREEK RD) & SPTRR, NEAR POWER INN ROAD; NEAR SW CORNER OF SACRAMENTO ARMY DEPOT.

Detailed Location:
SPTRR = SOUTHERN PACIFIC TRACTION RAILROAD. MAPPED TO LOCATION DESCRIBED BY KOFORD. SUGNET LOCATION GIVEN ONLY AS TRS SEC 26, ATTRIBUTED HERE. 2011: POOL ON N SIDE OF ELDER CK RD, ABOUT 0.4 MI E OF RR CROSSING, (BT COLLINS SITE) SURVEYED.

Ecological:
RAILROAD DITCH ("ROADSIDE DITCH" IN SUGNET RECORDS). BRANCHINECTA LYNCHI AND LINDERIELLA OCCIDENTALIS ALSO OBSERVED. SURROUNDING AREA IS HIGHLY URBANIZED.

Threats:
General:
KOFORD OBSERVED TADPOLE SHRIMP DURING SURVEY IN SPRING OF 1992 (SUGNET ID #145, FROM SAME DATE, IS PROBABLY ANOTHER RECORD OF THIS DETECTION). NOT FOUND IN NEARBY POOL DURING 2011 SURVEY.

PLSS: T08N, R05E, Sec. 35 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4263661 E639314	Latitude/Longitude: 38.51043 / -121.40213	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

KOF92U0001	KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX
WIT11U0002	WITHAM, C. - BT COLLINS ARMY RESERVE BRANCHIOPOD MONITORING, 90-DAY REPORT, RECOVERY PERMIT TE-799570-3, 2010-TA-0243 2011-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95291	EO Index: 13094	
Key Quad: Sacramento East (3812154)	Element Code: ICBRA10010	
Occurrence Number: 67	Occurrence Last Updated: 2015-05-05	

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1992-04-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-04-02	Occurrence Rank: Poor
Owner/Manager: PVT-SPRR	Trend: Unknown
Presence: Presumed Extant	

Location:
AT RAILROAD TRACKS NEAR FRUITRIDGE ROAD AT POWER INN ROAD; NEAR NORTHWEST CORNER OF SACRAMENTO ARMY DEPOT.

Detailed Location:
THE RAILROAD TRACKS ARE PART OF SOUTHERN PACIFIC TRACTION RAILROAD, WHICH RUNS SE FROM CORNER OF 65TH STREET AND HIGHWAY 50.

Ecological:
TURBID POOL. IN AERIAL PHOTOS IT APPEARS THAT POOLS FORM ALONG EITHER SIDE OF THE RAILROAD TRACKS FROM FRUITRIDGE SOUTH TO THE MORRISON CREEK CANAL.

Threats:
AREA HEAVILY DEVELOPED.

General:
TADPOLE SHRIMP OBSERVED BY E.J. KOFORD DURING SURVEY IN SPRING OF 1992; LINDERIELLA OCCIDENTALIS ALSO PRESENT.

PLSS: T08N, R05E, Sec. 26 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4265266 E638840	Latitude/Longitude: 38.52497 / -121.40724	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:
KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93180	EO Index: 12533
Key Quad: Florin (3812144)	Element Code: ICBRA10010
Occurrence Number: 68	Occurrence Last Updated: 2015-01-29

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1995-01-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1995-01-25	Occurrence Rank: Poor
Owner/Manager: PVT-UNION PACIFIC RR, SMUD	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG WESTERN PACIFIC RAILROAD, FROM FLORIN RD TO ABOUT 0.4 MILES SOUTH, WEST OF FRANKLIN BLVD, SACRAMENTO.

Detailed Location:
N POLYGON MAPPED TO 1992 DETECTION; 1995 SPECIMEN FROM EAST OF RAILROAD, WEST OF HIGH SCHOOL MAPPED HERE. S POLY MAPPED TO 1995 SPECIMEN LOCALITY "S OF FLORIN RD, W OF [RR], NE OF POCKET SUBSTATION." 1993 LOC GIVEN ONLY TO TRS (SEC 6).

Ecological:
1992: ROADSIDE DITCHES. 1993: MANMADE VERNAL POOL & DITCHES; CALIF & VERNAL POOL FAIRY SHRIMP ALSO FOUND. 2015: RE-SURVEY OF AREA INDICATED OCCURRENCE MAY STILL PERSIST, THOUGH HABITAT WAS FILLED/DEVELOPED IN 1990S & MITIGATED OFFSITE.

Threats:
DEVELOPMENT.

General:
DETECTED 2 APR 1992. DETECTED ON 3 & 12 MAR 1993. COLLECTED 25 JAN 1995 (CASIZ #94830, 94831).

PLSS: T07N, R05E, Sec. 06 (M)	Accuracy: nonspecific area	Area (acres): 16
UTM: Zone-10 N4261935 E633354	Latitude/Longitude: 38.49580 / -121.47079	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

KOF15U0001	KOFORD, E. (PG&E) - EMAIL CORRESPONDENCE REGARDING VERNAL POOL TADPOLE SHRIMP OCCURRENCES IN THE VICINITY OF GARDENDALE ROAD. 2015-01-26
KOF92U0001	KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX
MAR95S0013	MARTIN, D. & J. MARTINI - CASIZ #94830, COLLECTED "S OF FLORIN RD, W OF UNION PACIFIC RAILROAD, NE OF POCKET SUBSTATION." 1995-01-25
MAR95S0014	MARTIN, D. & J. MARTINI - CASIZ #94831, COLLECTED "S OF FLORIN RD, E OF UNION PACIFIC RAILROAD, W OF LUTHER BURBANK HIGH SCHOOL." 1995-01-25
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	34795	EO Index:	12473
Key Quad:	Florin (3812144)	Element Code:	ICBRA10010
Occurrence Number:	69	Occurrence Last Updated:	2015-05-05

Scientific Name:	<i>Lepidurus packardii</i>	Common Name:	vernal pool tadpole shrimp
Listing Status:	Federal: Endangered	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_EN-Endangered
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Last Date Observed:	1992-04-02	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1992-04-02	Occurrence Rank:	Poor
Owner/Manager:	PVT-SPRR	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 CORNER OF FLORIN ROAD AND SOUTHERN PACIFIC TRACTION RAILROAD, IN FLORIN.

Detailed Location:
 MAPPED TO LOCATION DESCRIBED BY KOFORD. SUGNET LOCATION GIVEN ONLY AS TRS SECTION 35, ATTRIBUTED HERE.

Ecological:
 RAILROAD DITCH ("ROADSIDE DITCH" IN SUGNET RECORDS). SURROUNDING AREA IS HIGHLY URBANIZED.

Threats:
 AREA IS HEAVILY DEVELOPED.

General:
 TADPOLE SHRIMP OBSERVED BY KOFORD DURING SURVEY IN SPRING OF 1992 (SUGNET ID #143, FROM SAME DATE, IS PROBABLY ANOTHER RECORD OF THIS DETECTION).

PLSS: T07N, R05E, Sec. 02 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4262053 E639822	Latitude/Longitude: 38.49587 / -121.39662	Elevation (feet): 35

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

KOF92U0001	KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34796
Key Quad: Florin (3812144)
Occurrence Number: 70

EO Index: 12535
Element Code: ICBRA10010
Occurrence Last Updated: 1996-06-20

Scientific Name: *Lepidurus packardii*

Common Name: vernal pool tadpole shrimp

Listing Status:
Federal: Endangered
State: None
CNDDB Element Ranks:
Global: G3
State: S2S3

Rare Plant Rank:
Other Lists: IUCN_EN-Endangered

General Habitat:

INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.

Micro Habitat:

POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Last Date Observed: 1992-04-02
Last Survey Date: 1992-04-02
Owner/Manager: PVT-UNION PACIFIC RR
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 ALONG UNION PACIFIC RAILROAD AND MEADOWVIEW ROAD, WEST OF HIGHWAY 99.

Detailed Location:

Ecological:
 TURBID POOL.

Threats:

General:
 KOFORD OBSERVED TADPOLE SHRIMP DURING SURVEY IN SPRING OF 1992.

PLSS: T07N, R05E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4260349 E633762	Latitude/Longitude: 38.48145 / -121.46642	Elevation (feet): 21

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

KOF92U0001 KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34802	EO Index: 11938
Key Quad: Elk Grove (3812143)	Element Code: ICBRA10010
Occurrence Number: 71	Occurrence Last Updated: 2011-06-29

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1992-04-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-04-02	Occurrence Rank: Unknown
Owner/Manager: PVT-SACRAMENTO VLY CONSERVANCY	Trend: Unknown
Presence: Presumed Extant	

Location:
PART OF ARROYO SECO (FLORIN MITIGATION BANK), NE CORNER OF EXCELSIOR ROAD & FLORIN ROAD, 4.1 MI E OF FLORIN PO, SAC CO.

Detailed Location:
LOCATION STATED AS "VERNAL POOL NEAR NORTHEAST CORNER OF EXCELSIOR AND FLORIN." MAPPED ACCORDING TO STATED LOCATION. 1993 SUGNET REPORT: VERNAL POOL SOMEWHERE IN SECTION 35.

Ecological:
VERNAL POOL.

Threats:
General:
KOFORD OBSERVED TADPOLE SHRIMP HERE DURING SURVEY ON 2 APRIL 1992. UNKNOWN NUMBER OF LEPIDURUS PACKARDI OBS 2 APR 1992 IN VERNAL POOL SOMEWHERE IN SECTION 35, (SUGNET #150) - POSSIBLY SAME SIGHTING AS KOFORD.

PLSS: T08N, R06E, Sec. 35 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4262458 E648688	Latitude/Longitude: 38.49808 / -121.29492	Elevation (feet): 110

County Summary: Sacramento	Quad Summary: Elk Grove (3812143), Carmichael (3812153)
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Sources:

KOF92U0001	KOFORD, E. (EBASCO) - LETTER TO USFWS REGARDING ADDITIONAL LOCALITIES OF FAIRY SHRIMP IN SACRAMENTO: BRANCHINECTA LYNCHI, LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 1992-04-XX
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34812	EO Index: 29269	
Key Quad: Florin (3812144)	Element Code: ICBRA10010	
Occurrence Number: 76	Occurrence Last Updated: 2014-07-16	

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2003-02-17	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-02-17	Occurrence Rank: Unknown
Owner/Manager: PVT-GRUPE DEVELOPMENT CO	Trend: Unknown
Presence: Presumed Extant	

Location:
BETWEEN WESTERN PACIFIC RAILROAD AND I-5, SOUTH OF ELK GROVE BLVD AND NORTH OF BILBY ROAD, ELK GROVE.

Detailed Location:
ELLIOTT RANCH, ELK GROVE BLVD EXTENSION / I-5 INTERCHANGE MITIGATION SITES. 1995: 23 WETLANDS SAMPLED. 1996: 74 WETLANDS SAMPLED. 1997: 52 WETLANDS SAMPLED. LINDERIELLA OCCIDENTALIS AND/OR MIDVALLEY FAIRY SHRIMP (BRANCHINECTA SP) ALSO OBS.

Ecological:
NATURAL AND CONSTRUCTED HARDPAN VERNAL POOLS IN NON-NATIVE ANNUAL GRASSLAND. WETLAND COMPENSATION/MITIGATION PRESERVE.

Threats:
General:
1993: 3 OBS. 1995: <50 TO 50+ OBS IN 4 POOLS; SPECIMENS IN CAS (#103131 & 103136). 1996: 50+ OBS IN 25 POOLS, <50 IN 1 POOL. 1997: 10S TO 100S OBS IN 17 POOLS. 1998: 10S OBS IN 9 POOLS, 100S OBS IN 1 POOL. 2002: 1 OBS. 2003: 1000S OBS.

PLSS: T06N, R05E, Sec. 06 (M)	Accuracy: specific area	Area (acres): 570
UTM: Zone-10 N4250798 E633934	Latitude/Longitude: 38.39538 / -121.46627	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

FAR03F0019	FARMER, M. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2003-02-17
HUD02F0008	HUDDLESTON, R. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2002-02-04
KWA95S0006	KWAN, K. - CASIZ #103131, COLLECTED AT "NE 1/4 OF SE 1/4 SECTION 7; T6N R5E." 1995-02-14
KWA95S0007	KWAN, K. - CASIZ #103136, COLLECTED FROM "NE 1/4 OF SW 1/4 SECTION 7; T6N R5E." 1995-02-14
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX
SUG95R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933 1995-06-XX
SUG95R0002	SUGNET & ASSOCIATES - CORRECTIONS TO ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT #PRT-795933, 1994-95. 1995-10-30
SUG96R0001	SUGNET & ASSOCIATES - ANNUAL REPORT TO THE USFWS REGARDING SURVEYS FOR LISTED BRANCHIOPODS CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NUMBER PRT-795933. 1996-XX-XX
SUG97R0001	SUGNET & ASSOCIATES - 1997 ANNUAL REPORT TO THE U.S. FISH & WILDLIFE SERVICE REGARDING SURVEYS FOR LISTED CRUSTACEA CONDUCTED UNDER FEDERAL FISH AND WILDLIFE PERMIT NO. PRT-795933 1997-XX-XX
SUG97R0002	SUGNET & ASSOCIATES - 90-DAY REPORT OF FINDINGS REGARDING FEDERALLY-LISTED CRUSTACEA AT THE ELLIOTT RANCH MITIGATION SITE WATERFOWL STUDY AREA, SACRAMENTO COUNTY, CALIFORNIA 1997-05-03
SUG98F0002	SUGNET & ASSOCIATES - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-01-25
SUG98F0003	SUGNET & ASSOCIATES - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-01-25
SUG98F0004	SUGNET & ASSOCIATES - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-01-25
SUG98F0005	SUGNET & ASSOCIATES - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-02-08
SUG98F0006	SUGNET & ASSOCIATES - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-02-08
SUG98F0007	SUGNET & ASSOCIATES - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-01-25
SUG98F0008	SUGNET & ASSOCIATES - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-01-25
SUG98F0009	SUGNET & ASSOCIATES - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-01-25
SUG98F0010	SUGNET & ASSOCIATES - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-02-08
SUG98F0011	SUGNET & ASSOCIATES - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-02-08
SUG98R0003	SUGNET & ASSOCIATES - 90-DAY REPORT OF FINDINGS REGARDING FEDERALLY-LISTED CRUSTACEA AT THE ELLIOT RANCH MITIGATION SITE WATERFOWL STUDY AREA, SACRAMENTO COUNTY, CALIFORNIA. 1998-10-08



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 36381	EO Index: 31378
Key Quad: Elk Grove (3812143)	Element Code: ICBRA10010
Occurrence Number: 85	Occurrence Last Updated: 2015-05-22

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1997-02-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-02-12	Occurrence Rank: Fair
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH OF LAGUNA CREEK, 0.5 MILE WEST OF VINEYARD BLVD, 4 MILES NE OF ELK GROVE.

Detailed Location:
1993: DETECTION SOMEWHERE IN TRS SECTION 16. 1997: MAPPED TO GIVEN SITE, LOCATED NORTH OF A LARGE SUBDIVISION BETWEEN VINEYARD LANE AND CENTRAL CALIFORNIA TRACTION RAILROAD TRACKS.

Ecological:
1993: AIR PHOTOS SHOW THAT SE PORTION OF SECTION 16 WAS ALREADY BEING GRADED AROUND THE TIME OF SURVEY. 1997: FOUND IN GRAZED SEASONAL WETLAND FORMED BY EARTH EXCAVATION; SOME VERNAL POOL INDICATOR PLANTS PRESENT BUT MOSTLY NON-NATIVES.

Threats:
DEVELOPMENT.

General:
FOUND IN 1 FEATURE INSPECTED IN SECTION 16 IN 1993 (SUGNET RECORD #141). 7 ADULTS OBSERVED (6 DEAD, 1 ALIVE) ON 12 FEB 1997.

PLSS: T07N, R06E, Sec. 16 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4258716 E646185	Latitude/Longitude: 38.46479 / -121.32439	Elevation (feet): 65

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX
WOL97F0001	WOLFF, D. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1997-02-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30622	EO Index: 30614
Key Quad: Elk Grove (3812143)	Element Code: ICBRA10010
Occurrence Number: 86	Occurrence Last Updated: 2015-01-29

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1993-03-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-03-12	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
VICINITY OF GRANT LINE ROAD AT MOSHER RD INTERSECTION, ABOUT 1.25 MILES NE OF I-99 AT GRANT LINE, ELK GROVE.

Detailed Location:
1993: DETECTION LOCATION GIVEN ONLY AS TRS SECTION 8 (MOST LIKELY NW QUARTER OF SEC 8 WEST OF GRANT LINE). 2005 & 2006: SURVEYS OF 28-ACRE FIELDSTONE SOUTH PROPERTY IN NE 1/4 SEC 8 & SE 1/4 SEC 5.

Ecological:
MANMADE ROADSIDE DITCH.

Threats:
AIR PHOTOS TAKEN SINCE THE 1993 DETECTION SHOW RESIDENTIAL DEVELOPMENT.

General:
FOUND IN THE 1 FEATURE INSPECTED, 12 MAR 1993 (SUGNET RECORD #129). NOT FOUND IN DRY-SEASON SURVEY IN 2005 OR WET-SEASON SURVEY IN 2006.

PLSS: T06N, R06E, Sec. 08 (M)	Accuracy: 3/5 mile	Area (acres): 0
UTM: Zone-10 N4250327 E644472	Latitude/Longitude: 38.38950 / -121.34574	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

HEL05U0008	HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE FIELDSTONE SOUTH PROPERTY. 2005-11-XX
HEL06U0010	HELM, B. - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE FIELDSTONE SOUTH PROPERTY. 2006-05-XX
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33681	EO Index: 30428
Key Quad: Florin (3812144)	Element Code: ICBRA10010
Occurrence Number: 88	Occurrence Last Updated: 2014-07-15

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1992-04-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-04-02	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTHWEST OF THE INTERSECTION OF MACK RD AND THE WESTERN PACIFIC (=UNION PACIFIC) RAILROAD IN SOUTH SACRAMENTO.

Detailed Location:
1992 DETECTIONS IN TRS SECTION 8; EXACT LOCATION UNKNOWN. 2007 SURVEY ON "FRANKLIN POINT PROJECT" PROPERTY, 5.5 ACRES AT THE SW CORNER OF FRANKLIN BLVD AND MACK RD.

Ecological:
DETECTED IN MANMADE ROADSIDE DITCHES IN URBANIZED AREA. WET SEASON SURVEYS IN 2007 AT FRANKLIN POINT PROJECT PROPERTY FOUND NO BRANCHIOPODS; BUT POOLS DID NOT POND LONG ENOUGH FOR A SUCCESSFUL HATCH THAT SEASON.

Threats:
General:
OBSERVED IN 2 OF 3 ROADSIDE DITCHES SAMPLED IN TRS SECTION 8, 2 APR 1992 (SUGNET RECORD #131).

PLSS: T07N, R05E, Sec. 08 (M)	Accuracy: nonspecific area	Area (acres): 639
UTM: Zone-10 N4259515 E634747	Latitude/Longitude: 38.47379 / -121.45529	Elevation (feet): 15

County Summary:	Quad Summary:
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Sacramento	Florin (3812144)
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Sources:

ROZ07R0001	ROZUMOWICZ, B. (AREA WEST ENVIRONMENTAL, INC.) - WET-SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE FRANKLIN POINT PROJECT 2007-09-XX
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33683	EO Index: 30429
Key Quad: Florin (3812144)	Element Code: ICBRA10010
Occurrence Number: 89	Occurrence Last Updated: 2014-07-15

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2008-07-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2008-07-14	Occurrence Rank: Poor
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
EAST SIDE OF SOUTHERN PACIFIC RAILROAD, AT THE NW CORNER OF FRENCH ROAD AND GERBER ROAD, SACRAMENTO.

Detailed Location:
1992 DETECTION IN MANMADE ROADSIDE DITCH SOMEWHERE IN SECTION 2; EXACT LOCATION UNKNOWN. MAPPED TO LOCATIONS OF OCCUPIED BASINS SAMPLED IN 2008 ON "FEENSTRA UNIT 6A" PROPERTY.

Ecological:
MOST OF THIS SECTION URBANIZED. DETECTIONS FROM DITCHES ALONGSIDE ROAD, RAILROAD TRACKS. SURROUNDING LAND AGRICULTURAL, FALLOW, AND URBANIZED.

Threats:
General:
DETECTED IN 1992 (SUGNET RECORD #130). ABUNDANCE HIGH IN DITCH DD1B, MEDIUM IN DD1C, FEB-MAR 2008. CYSTS FOUND IN 3 OF 9 BASINS (DD1A, DD1B, DD1C), 14 JUL 2008.

PLSS: T07N, R05E, Sec. 02 (M)	Accuracy: specific area	Area (acres): 18
UTM: Zone-10 N4260675 E640264	Latitude/Longitude: 38.48338 / -121.39184	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

HEL08F0014	HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2008-07-14
HIR08D0001	HIRKALA, M. (GIBSON & SKORDAL, LLC) - LISTED VERNAL POOL BRANCHIOPOD WET SEASON SURVEY 90-DAY REPORT, FEENSTRA UNIT 6A PROPERTY, SACRAMENTO COUNTY, CALIFORNIA, JUNE 2008. 2008-06-24
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX
WOO08R0001	WOOD, T. (HELM BIOLOGICAL CONSULTING) - DRY-SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE FEENSTRA UNIT 6A PROPERTY 2008-07-14



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33686	EO Index: 30620
Key Quad: Elk Grove (3812143)	Element Code: ICBRA10010
Occurrence Number: 90	Occurrence Last Updated: 2015-01-29

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2007-02-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-02-27	Occurrence Rank: Fair
Owner/Manager: PVT, UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH OF GERBER ROAD, SOUTH OF FLORIN ROAD, EAST OF ELK GROVE-FLORIN ROAD, ABOUT 5 MILES NORTH OF ELK GROVE.

Detailed Location:
1993: LOCATIONS GIVEN ONLY AS TRS SECS 4, 5 & 6. 2005: 6 PARCELS IN SE1/4 & NW1/4 SEC 4 SURVEYED. 2006: FOUND IN SE1/4 NW1/4 SEC 4 (& NOT FOUND IN 4 OTHER PARCELS IN NW1/4, SE1/4, & NE1/4 SEC 4). 2007: FOUND AT (38.49234, -121.36466).

Ecological:
1993: NATURAL SEASONAL WETLANDS, NATURAL VERNAL POOLS AND MANMADE ROADSIDE DITCHES. 2007: LINDERIELLA CYSTS, MATURE CYZICUS ALSO FOUND.

Threats:
DEVELOPMENT.

General:
FOUND IN 5 OF 51 FEATURES SURVEYED IN SEC 4; IN 3 OF 21, SEC 5; & 1 OF 3, SEC 6; 1993 (SUGNET #S 136, 137, 138 & 139). NOT FOUND IN DRY-SEASON SURVEYS & 1 WET-SEASON SURVEY, 2005. FOUND IN 10 POOLS (DRY), 2006. FOUND IN 1 POOL (WET), 2007.

PLSS: T07N, R06E, Sec. 05 (M)	Accuracy: nonspecific area	Area (acres): 1,920
UTM: Zone-10 N4261365 E644417	Latitude/Longitude: 38.48894 / -121.34410	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

HEL05U0001	HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE NORTH VINEYARD STATION PROPERTY. 2005-12-XX
HEL05U0006	HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE TLC-NORTH VINEYARD/CASTALANO PROPERTY. 2005-12-XX
HEL05U0010	HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE ASTON & HAYNES PROPERTIES. 2005-11-XX
HEL05U0011	HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE GARCIA/LINGAFELDT-RIVERA PROPERTY. 2005-11-XX
HEL05U0027	HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE BRADSHAW PROPERTY. 2005-08-XX
HEL05U0036	HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE NORTH VINEYARD STATION 40 PROPERTY. 2005-09-XX
HEL06F0006	HELM, B. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2006-06-01
HEL06R0013	HELM, B. (HELM BIOLOGICAL CONSULTING) - DRY-SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE EBIG 40-REYNEN PROPERTY 2006-09-XX
HEL06U0002	HELM, B. - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE ASTON PROPERTY. 2006-06-XX
HEL06U0003	HELM, B. - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE HAYNES PROPERTY. 2006-06-XX
HEL06U0004	HELM, B. - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE NORTH VINEYARD STATION 80 PROPERTY. 2006-06-XX
HEL06U0006	HELM, B. - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE TAYLOR PINO-HARMON PROPERTY. 2006-06-XX
HEL06U0007	HELM, B. - WET-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE NORTH VINEYARD STATION PROPERTY. 2006-06-XX
HEL07F0016	HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2007-02-27
HEL07R0013	HELM, B. (HELM BIOLOGICAL CONSULTING) - FEDERALLY-LISTED LARGE BRANCHIOPODS SAMPLING AT KWAN-ELDER CREEK ESTATES 2007-06-XX
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95363	EO Index: 30618	
Key Quad: Elk Grove (3812143)	Element Code: ICBRA10010	
Occurrence Number: 91	Occurrence Last Updated: 2015-05-06	

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1993-03-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-03-02	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
EAST OF BRADSHAW RD, WEST OF EXCELSIOR RD, NORTH OF CALVINE RD, NNE OF ELK GROVE.

Detailed Location:
1993: LOCATION GIVEN ONLY AS TRS SECTIONS 15. 2005: SMALL PARCELS IN SW 1/4 & NE 1/4 SEC 16 SURVEYED.

Ecological:
1993: NATURAL VERNAL POOLS; AIR PHOTOS SHOW EXTANT DEVELOPMENT IN SW 1/4 OF SECTION; SINCE TIME OF SURVEY DEVELOPMENT HAS SPREAD ACROSS MOST OF SECTION. 2005: SURVEYS ON PRIVATE PROPERTIES LIKELY BEING CONSIDERED FOR DEVELOPMENT.

Threats:
DEVELOPMENT.

General:
FOUND IN 29 OF 49 FEATURES INSPECTED IN SEC 15 IN 1993 (SUGNET RECORD NUMBER 140). NOT FOUND DURING DRY-SEASON SURVEYS IN 2005 IN SECTION 16 TO THE WEST.

PLSS: T07N, R06E, Sec. 15 (M)	Accuracy: nonspecific area	Area (acres): 689
UTM: Zone-10 N4258238 E647714	Latitude/Longitude: 38.46023 / -121.30697	Elevation (feet): 65

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

HEL05U0005	HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE GRAMMERCY PARK PROJECT. 2005-12-XX
HEL05U0026	HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE WILDHAWK SOUTH PROPERTY. 2005-09-XX
HEL05U0034	HELM, B. - DRY-SEASON SAMPLING FOR FEDERALLY LISTED LARGE BRANCHIOPODS AT THE GARFOOT GREENS PROPERTY. 2005-10-XX
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 82532	EO Index: 30611
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 94	Occurrence Last Updated: 2011-05-10

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1998-01-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1998-01-28	Occurrence Rank: Excellent
Owner/Manager: PVT-CONSERVATION RESOURCES	Trend: Unknown
Presence: Presumed Extant	

Location:
ARROYO SECO SITE, AREA 0.8 MILES ENE OF FLORIN ROAD AT EXCELSIOR ROAD, SACRAMENTO COUNTY.

Detailed Location:
ARROYO SECO MITIGATION BANK SITE. NORTH OF FLORIN ROAD AND SOUTH OF ROLLING MEADOWS DR. MAPPED TO MAP PROVIDED (WHI98F0006). SUGNET REPORT: VERNAL POOL SOMEWHERE IN SECTION 35.

Ecological:
NATURAL VERNAL POOL COMMUNITY.

Threats:
General:
LEPIDURUS PACKARDI OBSERVED ON 2 APR 1992 IN A NATURAL VERNAL POOL (SUGNET #150). 100'S OBS IN 7 LOCATIONS DURING 28 JAN 1998 SURVEY.

PLSS: T08N, R06E, Sec. 35 (M)	Accuracy: nonspecific area	Area (acres): 27
UTM: Zone-10 N4262694 E649653	Latitude/Longitude: 38.50005 / -121.28380	Elevation (feet): 120

County Summary: Sacramento	Quad Summary: Elk Grove (3812143), Carmichael (3812153)
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Sources:

SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX
WHI98F0006	WHITNEY, K. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-01-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 82549	EO Index: 31890
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 113	Occurrence Last Updated: 2015-01-09

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2005-01-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-01-21	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTHWEST CORNER OF EAGLES NEST RD & JACKSON RD (HWY 16), INTERSECTED BY FRYE CREEK, SOUTH OF MATHER AFB.

Detailed Location:
1996: EAST 1/2 OF NE 1/4 SECTION 36. 2000: WEST 1/2 OF NE 1/4 SECTION 36. 2005 DETECTION LOCATIONS UNKNOWN; SOMEWHERE WITHIN PROPERTY.

Ecological:
NORTHERN HARDPAN VERNAL POOLS SURROUNDED BY NON-NATIVE GRASSLAND. LINDERIELLA OCCIDENTALIS & BRANCHINECTA LYNCHI WERE ALSO OBSERVED IN POOLS HERE. AERIAL IMAGERY SINCE TIME OF ORIGINAL SURVEYS SHOWS MINE EXPANSION.

Threats:
THREATENED BY GRAVEL MINING.

General:
10-50+ ADULTS OBSERVED IN 5 POOLS DURING SURVEYS IN SPRING 1996. 20+ ADULTS OBSERVED IN POOLS DURING SURVEYS 24 FEB & 15 MAR 2000. BRANCHIOPODS INCLUDING L. PACKARDI FOUND IN 6 OF 12 REFERENCE POOLS & 15 OF 19 CREATED POOLS, 21 JAN 2005.

PLSS: T08N, R06E, Sec. 36 (M)	Accuracy: nonspecific area	Area (acres): 158
UTM: Zone-10 N4263557 E651209	Latitude/Longitude: 38.50756 / -121.26578	Elevation (feet): 125

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

LSA06R0001	LSA ASSOCIATES, INC. - 2005 ANNUAL REPORT TO THE U.S. FISH AND WILDLIFE SERVICE FOR SECTION 10 (A) (R) (A) PERMIT NUMBER TE-797234-6 ISSUED TO LSA ASSOCIATES, INC. 2006-01-31
MUT00F0007	MUTH, D. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2000-03-15
MUT00F0019	MUTH, D. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2000-03-15
MUT96F0001	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1996-XX-XX
MUT96F0002	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1996-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 37071
Key Quad: Florin (3812144)
Occurrence Number: 114

EO Index: 32068
Element Code: ICBRA10010
Occurrence Last Updated: 2000-03-15

Scientific Name: *Lepidurus packardii*

Common Name: vernal pool tadpole shrimp

Listing Status:
Federal: Endangered
State: None
CNDDB Element Ranks:
Global: G3
State: S2S3

Rare Plant Rank:
Other Lists: IUCN_EN-Endangered

General Habitat:

INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.

Micro Habitat:

POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Last Date Observed: 1998-04-XX
Last Survey Date: 1998-04-XX
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:

INTERSECTION OF COSUMNES RIVER COLLEGE BOULEVARD AND HIGHWAY 99, SOUTH OF SACRAMENTO.

Detailed Location:

Ecological:

HABITAT CONSISTS OF BOTH NATURAL AND MAN-MADE VERNAL POOLS.

Threats:

General:

ONE POND SURVEYED. LEPIDURUS PACKARDI DETECTED ON 10 FEB 1993. DRY/WET SEASON SAMPLING CONDUCTED JAN-APR 1998 OF A CREATED VERNAL POOL AND A CONTROL SITE; 4 INDIVIDUALS FOUND.

PLSS: T07N, R05E, Sec. 15 (M)	Accuracy: nonspecific area	Area (acres): 162
UTM: Zone-10 N4257618 E638447	Latitude/Longitude: 38.45613 / -121.41327	Elevation (feet): 25

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

HEL98F0015	HELM, B. (MAY AND ASSOCIATES, INC.) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-XX-XX
JSA96U0001	JONES & STOKES ASSOCIATES, INC. - COMPILATION OF VERNAL POOL INVESTIGATIONS MADE BY JONES AND STOKES BIOLOGISTS 1996-08-08



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41009	EO Index: 41009
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 131	Occurrence Last Updated: 2011-07-06

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2006-05-05	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-05-05	Occurrence Rank: Good
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
MATHER FIELD VERNAL POOL PRESERVE, S OF OLD MATHER AIRPORT RUNWAY AND E OF THE WATER TREATMENT PONDS, N OF KIEFER BLVD.

Detailed Location:
1993: EXACT LOCATIONS NOT PROVIDED - FOUND IN 9 POOLS AT THE MATHER REDEVELOPMENT PLAN AREA. 1996-96: FOUND IN 49 POOLS TOTAL FOR THE MATHER FIELD SPECIFIC PLAN SURVEY.

Ecological:
FOUND IN VERNAL POOLS, VERNAL SWALES, SEASONAL WETLANDS, AND FRESHWATER MARSH. LINDERIELLA OCCIDENTALIS ALSO OBSERVED.

Threats:
DEVELOPMENT.

General:
OBSERVED DURING SURVEYS CONDUCTED APR AND JUL 1993, FEB - MAR 1996, AND JAN 1997. OBSERVED IN 4 OF 19 SAMPLED POOLS BETWEEN 14 FEB AND 5 MAY 2006.

PLSS: T08N, R06E, Sec. 14 (M)	Accuracy: specific area	Area (acres): 84
UTM: Zone-10 N4267843 E648624	Latitude/Longitude: 38.54660 / -121.29451	Elevation (feet): 80

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

JSA93R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS PLANT AND WILDLIFE SURVEY RESULTS FOR THE MATHER REDEVELOPMENT PLAN AREA, SACRAMENTO COUNTY. PREPARED FOR: SAC HOUSING & REDEVELOPMENT AGENCY 1993-08-03
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX
WIT06F0003	WITHAM, C. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2006-04-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41018	EO Index: 41018
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 132	Occurrence Last Updated: 1999-05-04

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1997-01-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-01-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
0.75 MILE S OF INTERSECTION OF OLD PLACERVILLE AND ROUTIER ROADS, N OF WEST END OF SACRAMENTO MATHER AIRPORT RUNWAYS.

Detailed Location:
IN POOLS NUMBERED 1291 AND 1291.1.

Ecological:
FOUND IN TWO VERNAL POOLS, AT THE OLD MATHER AIR FORCE BASE.

Threats:
DEVELOPMENT.

General:
OBSERVED IN 1993 AND 1996-97. ALSO LINDERIELLA OCCIDENTALIS OBSERVED.

PLSS: T08N, R06E, Sec. 16 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4268173 E646586	Latitude/Longitude: 38.54991 / -121.31781	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

JSA93R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS PLANT AND WILDLIFE SURVEY RESULTS FOR THE MATHER REDEVELOPMENT PLAN AREA, SACRAMENTO COUNTY. PREPARED FOR: SAC HOUSING & REDEVELOPMENT AGENCY 1993-08-03
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41024	EO Index: 41024
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 133	Occurrence Last Updated: 1999-05-11

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat:

INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.

Micro Habitat:

POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Last Date Observed: 1997-01-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-01-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:

0.1 MILE EAST OF JUNCTION OF KIEFER BLVD AND EAGLES NEST ROAD, MATHER REGIONAL PARK (6 FEATURES, ALONG KIEFER BLVD).

Detailed Location:

PART OF THE MORRISON CREEK DRAINAGE, IN THE OLD MATHER AIR FORCE BASE.

Ecological:

6 FEATURES THAT ARE EITHER, VERNAL POOLS, VERNAL SWALES, OR A BRANCH OF MORRISON CREEK.

Threats:

IMPACTED BY HUMANS.

General:

OBSERVED IN 1993 AND 1996-97 IN 5 OF THE 6 FEATURES MAPPED. LINDERIELLA OCCIDENTALIS ALSO OBSERVED.

PLSS: T08N, R07E, Sec. 19 (M)	Accuracy: specific area	Area (acres): 11
UTM: Zone-10 N4265728 E652010	Latitude/Longitude: 38.52698 / -121.25613	Elevation (feet): 125

County Summary:

Sacramento

Quad Summary:

Buffalo Creek (3812152), Carmichael (3812153)

Sources:

JSA93R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS PLANT AND WILDLIFE SURVEY RESULTS FOR THE MATHER REDEVELOPMENT PLAN AREA, SACRAMENTO COUNTY. PREPARED FOR: SAC HOUSING & REDEVELOPMENT AGENCY 1993-08-03
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41025	EO Index: 41025
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 134	Occurrence Last Updated: 1999-05-10

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1997-01-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-01-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
0.4 MILE NNW OF JUNCTION OF KIEFER BLVD AND EAGLES NEST ROAD, MATHER REGIONAL PARK.

Detailed Location:
8 VERNAL POOLS IN THIS PORTION OF THE COMPLEX CONTAIN VERNAL POOL TADPOLE SHRIMP (VPTS). PART OF THE OLD MATHER AIR FORCE BASE.

Ecological:
VERNAL POOLS, AND DISTURBED VERNAL POOLS.

Threats:
IMPACTED BY HUMANS.

General:
OBSERVED IN 1993 AND 1996-97. LINDERIELLA OCCIDENTALIS ALSO OBSERVED.

PLSS: T08N, R06E, Sec. 24 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4266445 E651135	Latitude/Longitude: 38.53359 / -121.26601	Elevation (feet): 140

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

JSA93R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS PLANT AND WILDLIFE SURVEY RESULTS FOR THE MATHER REDEVELOPMENT PLAN AREA, SACRAMENTO COUNTY. PREPARED FOR: SAC HOUSING & REDEVELOPMENT AGENCY 1993-08-03
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41041	EO Index: 41041	
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010	
Occurrence Number: 137	Occurrence Last Updated: 1999-05-11	

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1997-01-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-01-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
0.6 MILE EAST OF JUNCTION OF KIEFER BLVD AND EXCELSIOR ROAD, MATHER REGIONAL PARK, RANCHO CORDOVA.

Detailed Location:
1 VERNAL POOL IN THIS PORTION OF THE COMPLEX, WITH VERNAL POOL TADPOLE SHRIMP (VPTS). PART OF THE OLD MATHER AIR FORCE BASE.

Ecological:
VERNAL POOL.

Threats:

General:
OBSERVED IN 1996-97.

PLSS: T08N, R06E, Sec. 23 (M)	Accuracy: specific area	Area (acres): 1
UTM: Zone-10 N4266540 E649650	Latitude/Longitude: 38.53469 / -121.28301	Elevation (feet): 110

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
JSA97R0002 JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 41142	EO Index: 41142
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 138	Occurrence Last Updated: 1999-06-02

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1999-02-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1999-02-27	Occurrence Rank: Good
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Unknown
Presence: Presumed Extant	

Location:
0.6 MILE SW OF MATHER LAKE, (FORMER) MATHER AIR FORCE BASE, RANCHO CORDOVA.

Detailed Location:

Ecological:
HABITAT CONSISTS OF A LARGE VERNAL POOL WITH A GRASSY SUBSTRATE.

Threats:
THREATENED BY DEVELOPMENT AND INVASION BY NON-NATIVE SPECIES.

General:
15 TADPOLE SHRIMP OBSERVED ON 27 FEB 1999, ESTIMATED ONE TADPOLE SHRIMP CAPTURED WITH EACH DIP OF THE NET.

PLSS: T08N, R06E, Sec. 13 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4268233 E650956	Latitude/Longitude: 38.54972 / -121.26767	Elevation (feet): 125

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
HUB99F0001 HUBER, A. (JONES AND STOKES ASSOCIATES) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1999-02-27



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11427	EO Index: 42235
Key Quad: Rio Linda (3812164)	Element Code: ICBRA10010
Occurrence Number: 147	Occurrence Last Updated: 2000-01-20

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 1998-07-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1998-07-10	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST OF MCCLELLAN AIR FORCE BASE BETWEEN MAGPIE CREEK & ASCOT AVE, DEL PASO, NORTH OF SACRAMENTO.

Detailed Location:
SEASONAL WETLANDS, INNUNDATED APPROXIMATELY >30 DAYS DURING WINTER 1998. LOCATION GIVEN ONLY AS T9N, R5E, SECTION 19. SNAPPED TO EXISTING MAPPED VERNAL POOLS.

Ecological:
SURROUNDING LAND USE: AGRICULTURE AND FALLOW FIELDS.

Threats:
DISKING, DEVELOPMENT.

General:
10 CYSTS WERE FOUND IN THE SURVEYS IN JUNE AND JULY, 1998.

PLSS: T09N, R05E, Sec. 19 (M)	Accuracy: specific area	Area (acres): 321
UTM: Zone-10 N4280626 E637266	Latitude/Longitude: 38.66358 / -121.42228	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:
WAL98F0003 WALKER, R. & B. HELM - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-07-10
WAL98F0004 WALKER, R. & B. HELM - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-07-10



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 46127	EO Index: 46127	
Key Quad: Elk Grove (3812143)	Element Code: ICBRA10010	
Occurrence Number: 165	Occurrence Last Updated: 2004-08-19	

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2004-02-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-02-12	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
CHURCHILL DOWNS WETLAND PRESERVE (PART); 4 MILES NNE OF ELK GROVE.

Detailed Location:
1 MILE SOUTH GERBER RD, 0.5 MILE NORTH CALVINE RD & EXTENDING FROM 0.4 MILE WEST BRADSHAW RD. 2001 SURVEY: SE 1/4 OF NE 1/4, SECTION 17. 2002 SURVEY: INDIVIDUALS OBSERVED IN POOL NUMBER CVP1 (NW 1/4 OF THE NE 1/4 OF SECTION 17).

Ecological:
SITE IS VERNAL POOL PRESERVE - GRASSLAND. OTHER SPECIES: LINDERIELLA OCCIDENTALIS AND BRANCHINECTA LYNCHI ALSO IN VICINITY. SURROUNDING LAND CONSISTS OF HOMES.

Threats:
General:
16 MAR 2001: 100'S OF ADULTS OBSERVED. 5 APR 2001: 10'S OF EXOSKELETONS OBSERVED IN POOL - NO LIVE SHRIMP FOUND. 100'S OBS IN 1 POOL ON 21 JAN 2002. NONE OBS IN JAN & MAR 2003 SURVEYS. 10'S OBS IN 1 POOL ON 12 FEB 2004.

PLSS: T07N, R06E, Sec. 17 (M)	Accuracy: nonspecific area	Area (acres): 94
UTM: Zone-10 N4258529 E645058	Latitude/Longitude: 38.46329 / -121.33734	Elevation (feet): 65

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

CAP01F0002	CAPPELL, S. ET AL. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2001-03-16
CAP01F0003	CAPPELL, S. ET AL. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2001-04-05
ECO02F0002	ECORP CONSULTING, INC. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2002-01-21
ECO02R0008	ECORP CONSULTING, INC. - ANNUAL REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE. 2002-04-16
ECO03R0002	ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE 2003-06-06
ECO04F0001	ECORP CONSULTING, INC. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2004-02-12
ECO04R0001	ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE (SACRAMENTO COUNTY, CALIFORNIA) 2004-06-02



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 48534	EO Index: 48534
Key Quad: Elk Grove (3812143)	Element Code: ICBRA10010
Occurrence Number: 173	Occurrence Last Updated: 2014-07-23

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat:	Micro Habitat:
INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Last Date Observed: 2002-01-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-XX-XX	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
 CHURCHILL DOWNS WETLAND PRESERVE (PART); 4.5 MILES NORTH OF ELK GROVE.

Detailed Location:
 0.5 MILE SOUTH OF GERBER RD, 1.2 MILES NORTH OF CALVINE AND 0.5 MILE EAST OF FLORIN RD. INDIVIDUALS OBSERVED IN POOL NUMBERS 8 AND 34 (NE 1/4 OF THE SE 1/4 OF SECTION 7).

Ecological:
 HABITAT CONSISTS OF VERNAL POOLS WITHIN A GRASSLAND. LINDERIELLA OCCIDENTALIS AND BRANCHINECTA LYNCHI ALSO IN VICINITY.

Threats:
General:
 THOUSANDS OF INDIVIDUALS OBSERVED IN POOL 8 AND TENS OBSERVED IN POOL 34 ON 21 JAN 2002. NONE OBSERVED IN JAN AND MARCH 2003 SURVEYS. SPECIES NOT FOUND DURING 2004.

PLSS: T07N, R06E, Sec. 07 (M)	Accuracy: nonspecific area	Area (acres): 55
UTM: Zone-10 N4259578 E643059	Latitude/Longitude: 38.47306 / -121.36003	Elevation (feet): 50

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

ECO02F0005	ECORP CONSULTING, INC. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2002-01-21
ECO02F0006	ECORP CONSULTING, INC. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2002-01-21
ECO02R0008	ECORP CONSULTING, INC. - ANNUAL REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE. 2002-04-16
ECO03R0002	ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE 2003-06-06
ECO04R0001	ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING WET SEASON SURVEYS FOR FEDERALLY-LISTED BRANCHIOPODS AT THE CHURCHILL DOWNS WETLAND PRESERVE (SACRAMENTO COUNTY, CALIFORNIA) 2004-06-02



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 53920	EO Index: 53923
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 178	Occurrence Last Updated: 2015-01-16

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2010-03-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-03-03	Occurrence Rank: Good
Owner/Manager: PVT-GRANITE CONSTRUCTION CO	Trend: Unknown
Presence: Presumed Extant	

Location:
GRANITE I PRESERVE, JUST S OF KIEFER BLVD AT HAPPY LN, SW END OF OLD MATHER AFB.

Detailed Location:
MAPPED TO BOUNDARY OF PRESERVE WITHIN GRANITE-TEICHERT PROJECT SITE. 1997-1999 DETECTIONS SCATTERED THROUGHOUT SITE; EXACT LOCATIONS NOT GIVEN FOR 2002 DETECTIONS. FOUND IN POOLS #97-18 & 99-1 DURING SURVEY OF ADJACENT SMUD YARD IN 2010.

Ecological:
38 CONSTRUCTED VERNAL POOLS ON 10.04 ACRES OF NON-NATIVE GRASSLAND, SURROUNDED BY AGGREGATE MINING OPERATIONS. AERIAL PHOTOS SINCE 2002 SHOW NEW ROADS BUILT THROUGH POOLS ON THE PRESERVE & EXPANSION OF MINING ACROSS THE PRESERVE BOUNDARY.

Threats:
ROAD BUILDING, EXPANSION OF MINING OPERATIONS.

General:
1000S FOUND ON 24 JAN 1997, UNKNOWN # COLLECTED & DEPOSITED AT CAS. 100S FOUND, JAN 1998. 1000S FOUND ON 23 FEB 1999. 1000S FOUND ON 15 MAR 2002. INCIDENTALLY DETECTED IN 2 POOLS ON 3 MAR 2010.

PLSS: T08N, R06E, Sec. 16 (M)	Accuracy: specific area	Area (acres): 44
UTM: Zone-10 N4267058 E646210	Latitude/Longitude: 38.53993 / -121.32235	Elevation (feet): 65

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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- Sources:**
- BUR10R0001 BURLESON CONSULTING, INC. - 90-DAY REPORT FOR FINDINGS REGARDING BRANCHIOPOD SURVEYS FOR SACRAMENTO MUNICIPAL UTILITY DISTRICT'S EAST CAMPUS-OPERATIONS CENTER, SACRAMENTO COUNTY, CALIFORNIA 2010-07-XX
 - FAR02F0003 FARMER, M. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2002-03-15
 - WHI97F0004 WHITNEY, K. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1997-01-24
 - WHI98F0007 WHITNEY, K. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1998-01-XX
 - WHI99F0004 WHITNEY, K. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 1999-02-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 82470	EO Index: 64432
Key Quad: Elk Grove (3812143)	Element Code: ICBRA10010
Occurrence Number: 238	Occurrence Last Updated: 2011-05-04

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2008-02-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2008-02-18	Occurrence Rank: Excellent
Owner/Manager: PVT-SACRAMENTO VLY CONSERVANCY	Trend: Unknown
Presence: Presumed Extant	

Location:
SYLVA PARCEL, JUST N OF FLORIN RD, W OF EAGLES NEST RD AND S OF JACKSON HWY (SR 16), ABOUT 4 MILES SOUTH OF MATHER AFB.

Detailed Location:
WEST OF FRYE CREEK; PART OF SACRAMENTO PRAIRIE VERNAL POOL PRESERVE. LOCATED IN THE SW 1/4 OF SECTION 36. MAPPED TO PROVIDED MAPS.

Ecological:
VERNAL POOLS WITHIN A CALIFORNIA ANNUAL GRASSLAND MATRIX. MOST POOLS DID NOT FULLY POND AND WERE AT ABOUT 1/2 OF NORMAL CAPACITY IN 2008. LINDERIELLA OCCIDENTALIS, BRANCHINECTA LYNCHI, AND B. MESOVALLENSIS ALSO OBSERVED HERE.

Threats:
THE GRASS GLYCERIA DECLINATA IS BECOMING PROBLEMATIC IN THE GENERAL AREA (2005).

General:
"LOTS" OF INDIVIDUALS FOUND IN 8 POOLS ON 20 FEB 2005, W/AN UNKNOWN NUMBER COLLECTED FOR SACRAMENTO FISH & WILDLIFE OFFICE. LOW ABUNDANCE OF ADULTS (<1 PER STANDARD DIP NET SWEEP) OBSERVED IN 21 POOLS DURING 18 FEB 2008 SURVEYS.

PLSS: T08N, R06E, Sec. 36 (M)	Accuracy: nonspecific area	Area (acres): 43
UTM: Zone-10 N4262627 E650622	Latitude/Longitude: 38.49927 / -121.27271	Elevation (feet): 120

County Summary: Sacramento	Quad Summary: Elk Grove (3812143), Carmichael (3812153)
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Sources:

WIT05F0002	WITHAM, C. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2005-02-20
WIT05R0001	WITHAM, C. - SACRAMENTO PRAIRIE VERNAL POOL PRESERVE, SPECIAL STATUS CRUSTACEAN LOCATIONS. 2005-05-17
WIT08F0006	WITHAM, C. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI & BRANCHINECTA MESOVALLENSIS & LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 2008-02-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64351	EO Index: 64433
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 239	Occurrence Last Updated: 2015-01-13

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2011-02-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-02-XX	Occurrence Rank: Excellent
Owner/Manager: PVT-SACRAMENTO VLY CONSERVANCY	Trend: Unknown
Presence: Presumed Extant	

Location:
EAST END OF KASSIS PARCEL, AT THE END OF ROLLING MEADOW DR, 1.2 MI NW OF FLORIN RD AT EAGLES NEST RD, SACRAMENTO COUNTY.

Detailed Location:
SACRAMENTO PRAIRIE VERNAL POOL PRESERVE. MAPPED TO MAPS PROVIDED.

Ecological:
VERNAL POOLS WITHIN A CALIFORNIA ANNUAL GRASSLAND MATRIX. MOST POOLS DID NOT FULLY POND AND WERE AT ABOUT 1/2 OF NORMAL CAPACITY IN 2008. BRANCHINECTA LYNCHI, LINDERIALLA OCCIDENTALIS ALSO OBS IN AREA. SURROUNDING LAND USE: CATTLE GRAZING.

Threats:
THE GRASS GLYCERIA DECLINATA IS BECOMING PROBLEMATIC IN THE GENERAL AREA (2005).

General:
"LOTS" OF INDIVIDUALS OBSERVED ON 20 FEB 2005; UNKNOWN # COLLECTED FOR SACRAMENTO FISH & WILDLIFE OFFICE. LOW ABUNDANCE OF ADULTS (<1 PER STANDARD DIP NET SWEEP) OBSERVED IN TWO POOLS ON 18 FEB 2008, AND IN FEB 2011.

PLSS: T08N, R06E, Sec. 35 (M)	Accuracy: specific area	Area (acres): 9
UTM: Zone-10 N4263279 E649975	Latitude/Longitude: 38.50526 / -121.27999	Elevation (feet): 120

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

WIT05F0002	WITHAM, C. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2005-02-20
WIT05R0001	WITHAM, C. - SACRAMENTO PRAIRIE VERNAL POOL PRESERVE, SPECIAL STATUS CRUSTACEAN LOCATIONS. 2005-05-17
WIT08F0006	WITHAM, C. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI & BRANCHINECTA MESOVALLENSIS & LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 2008-02-18
WIT11U0005	WITHAM, C. - KASSIS AND SYLVA PARCELS, BRANCHIOPOD MONITORING, 90-DAY REPORT, RECOVERY PERMITS TE-799570-3, 2010-TA-0243 2011-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64902	EO Index: 64438
Key Quad: Buffalo Creek (3812152)	Element Code: ICBRA10010
Occurrence Number: 240	Occurrence Last Updated: 2011-06-27

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2006-05-05	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-05-05	Occurrence Rank: Good
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
1 MI NE OF JCT OF EAGLES NEST RD & KEIFER BLVD ND 0.4 MI W OF SUNRISE BLVD, S OF MATHER GOLF COURSE.

Detailed Location:
POOL AT THE NE END OF UNNAMED LOOP ROAD, JUST EAST OF MATHER VERNAL POOL PRESERVE. MAPPED TO PROVIDED MAP.

Ecological:
VERNAL POOLS IN CALIFORNIA GRASSLAND MATRIX, SURROUNDED BY UNGRAZED PASTURES. LIGHT RECREATION IN AREA.

Threats:
General:
FOUND IN LOW NUMBERS (NO-TO-FEW INDIVIDUALS PER DIP NET SWEEP) DURING SURVEYS BETWEEN 24 FEB AND 14 APR 2005. OBSERVED IN LOW ABUNDANCE IN POOL DURING SURVEYS CONDUCTED BETWEEN 28 FEB AND 5 MAY 2006.

PLSS: T08N, R07E, Sec. 18 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4267216 E652451	Latitude/Longitude: 38.54030 / -121.25074	Elevation (feet): 158

County Summary: Sacramento	Quad Summary: Buffalo Creek (3812152), Carmichael (3812153)
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Sources:

WIT05F0005	WITHAM, C. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2005-XX-XX
WIT05R0002	WITHAM, C. - MATHER FIELD VERNAL POOLS, SPECIAL STATUS CRUSTACEAN LOCATIONS. 2005-05-17
WIT06F0003	WITHAM, C. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2006-04-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 69256	EO Index: 70035
Key Quad: Elk Grove (3812143)	Element Code: ICBRA10010
Occurrence Number: 247	Occurrence Last Updated: 2015-06-08

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2013-01-29	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2013-01-29	Occurrence Rank: Excellent
Owner/Manager: PVT, SACTO VALLEY CONSERVANCY	Trend: Unknown
Presence: Presumed Extant	

Location:
EAST SIDE OF EXCELSIOR RD, FROM ABOUT 0 TO 1.0 MILES EAST OF EXCELSIOR RD BETWEEN GERBER RD AND SPIVA RD.

Detailed Location:
MAPPED TO LOCATIONS GIVEN FOR OCCUPIED POOLS. LAGUNA PARCEL AT SW END OF OCCURRENCE. KLOTZ PROPERTY OPEN SPACE PRESERVE ENCOMPASSES N TO NE PORTION OF OCCURRENCE.

Ecological:
KLOTZ PROPERTY A 320-ACRE PRESERVE WITH VERNAL POOLS, VERNAL SWALES, AND GRAZED GRASSLAND. LAGUNA PARCEL PROTECTED BY A CONSERVATION EASEMENT. BRANCHINECTA LYNCHI AND LINDERIELLA OCCIDENTALIS ALSO FOUND.

Threats:
General:
10S OF JUVENILES FOUND IN KLOTZ VP 121, 2007. FOUND ON KLOTZ IN 4 POOLS, 2006; 27 POOLS, 2008; & 9 POOLS, 2009 (ECORP). FOUND ON LAGUNA IN 4 POOLS, 2005; 10 POOLS, 2008; & 8 POOLS, 2011 (WITHAM). FOUND IN 19 POOLS, 2011 & 2013 (VOLLMAR).

PLSS: T07N, R06E, Sec. 11 (M)	Accuracy: specific area	Area (acres): 226
UTM: Zone-10 N4260202 E649025	Latitude/Longitude: 38.47770 / -121.29153	Elevation (feet): 95

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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- Sources:**
- BAR08R0001 BARTLEY, N. (ECORP CONSULTING, INC.) - 90-DAY REPORT OF FINDINGS REGARDING BRANCHIOPOD ASSESSMENT SURVEY KLOTZ PROPERTY OPEN SPACE PRESERVE 2008-02-01
 - ECO06R0008 ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING BRANCHIOPOD ASSESSMENT SURVEY, KLOTZ PROPERTY OPEN SPACE PRESERVE. 2006-03-27
 - ECO07F0001 ECORP CONSULTING, INC. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2007-02-27
 - ECO07R0001 ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING BRANCHIOPOD ASSESSMENT SURVEY, KLOTZ PROPERTY OPEN SPACE PRESERVE 2007-05-11
 - ECO09R0022 ECORP CONSULTING, INC. - 90-DAY REPORT OF FINDINGS REGARDING FEDERALLY LISTED BRANCHIOPODS FOR KLOTZ PROPERTY OPEN SPACE PRESERVE SACRAMENTO COUNTY, CALIFORNIA 2009-04-23
 - PAP13D0001 PAPATHAKIS, C. (VOLLMAR CONSULTING) - SPECIAL STATUS SPECIES COMPILATION BY VOLLMAR NATURAL LANDS CONSULTING 2013-01-29
 - WIT08F0007 WITHAM, C. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI & LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 2008-03-22
 - WIT11U0004 WITHAM, C. - LAGUNA AND WERRE SOUTH PARCELS, BRANCHIOPOD MONITORING, 90-DAY REPORT, RECOVERY PERMITS TE-799570-3, SERVICE FILE NO. 1-1-04-F-096, 2010-TA-0243 2011-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 82005	EO Index: 82981
Key Quad: Florin (3812144)	Element Code: ICBRA10010
Occurrence Number: 272	Occurrence Last Updated: 2011-03-22

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2009-03-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-03-11	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
1.25 MI WNW HOOD FRANKLIN RD AT I-5, 1.3 MI NE HOOD PO.

Detailed Location:
BY STONE LAKES NATIONAL WILDLIFE REFUGE. LAND USED FOR CATTLE GRAZING. POOL ID: 30, 32, 37 & 65. MAPPED TO PROVIDED SHAPEFILE.

Ecological:
VERNAL POOL GRASSLAND DOMINATED BY HORDEUM MARINUM SSP. GUSSONEANUM, LOLIUM MULTIFLORUM, PLAGIOBOTHRYUS STIPITATUS & LASTHENIA GLABERRIMA. HISTORICAL GRADING CAUSED POOLS TO BE POORLY DEFINED & SHALLOW. DEEPEST POOLS OCCUR BY BERMS & ROADS.

Threats:

General:
10S OF BREEDING ADULTS OBSERVED AT 4 POOLS ON 6 AND 10 MAR 2009; 1 SPECIMEN COLLECTED BY E. PIMENTEL ET AL. (CAS-IZ #184098) ON 10 MAR 2009.

PLSS: T06N, R04E, Sec. 12 (M)	Accuracy: specific area	Area (acres): 63
UTM: Zone-10 N4248973 E631264	Latitude/Longitude: 38.37933 / -121.49717	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Bruceville (3812134), Florin (3812144), Clarksburg (3812145)
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Sources:

CAS09S0012	CALIFORNIA ACADEMY OF SCIENCES - CAS INVERTEBRATE SPECIMEN #180498 COLLECTED BY E. PIMENTEL ET AL. 2009-03-10
DWR10D0001	CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29
PIM09F0003	PIMENTEL, E. (EDAW, INC.) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2009-03-06



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 82006	EO Index: 82983
Key Quad: Florin (3812144)	Element Code: ICBRA10010
Occurrence Number: 273	Occurrence Last Updated: 2011-03-22

Scientific Name: <i>Lepidurus packardi</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2009-03-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-03-11	Occurrence Rank: Good
Owner/Manager: DPR	Trend: Unknown
Presence: Presumed Extant	

Location:
0.75 MI SSW ELK GROVE BLVD AT I-5, 2.7 MI NE HOOD PO.

Detailed Location:
BY STONE LAKES NATIONAL WILDLIFE REFUGE. LAND USED FOR CATTLE GRAZING. POOL ID: 33 & 75. MAPPED TO PROVIDED SHAPEFILE.

Ecological:
VERNAL POOL GRASSLAND DOMINATED BY HORDEUM MARINUM SSP. GUSSONEANUM, LOLIUM MULTIFLORUM, PLAGIOBOTHRYUS STIPITATUS & LASTHENIA GLABERRIMA. HISTORICAL GRADING CAUSED POOLS TO BE POORLY DEFINED & SHALLOW. DEEPEST POOLS OCCUR BY BERMS & ROADS.

Threats:
General:
10S OF BREEDING ADULTS OBSERVED AT 2 POOLS; 1 SPECIMEN COLLECTED BY E. PIMENTEL ET AL. (CAS-IZ #180499) ON 11 MAR 2009.

PLSS: T06N, R04E, Sec. 01 (M)	Accuracy: specific area	Area (acres): 14
UTM: Zone-10 N4251023 E632092	Latitude/Longitude: 38.39768 / -121.48731	Elevation (feet): 10

County Summary:	Quad Summary:
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Sacramento	Florin (3812144)
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Sources:

CAS09S0013	CALIFORNIA ACADEMY OF SCIENCES - CAS INVERTEBRATE SPECIMEN #180499 COLLECTED BY E. PIMENTEL ET AL. 2009-03-11
DWR10D0001	CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29
PIM09F0003	PIMENTEL, E. (EDAW, INC.) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2009-03-06



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 82856	EO Index: 83856
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 277	Occurrence Last Updated: 2011-06-09

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat:	Micro Habitat:
INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Last Date Observed: 2005-04-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-04-14	Occurrence Rank: Good
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
MATHER FIELD VERNAL POOL PRESERVE, 0.6 MI NNW OF KIEFER BLVD AT EAGLES NEST ROAD, SSW OF MATHER GOLF COURSE, MATHER.

Detailed Location:
IN GRASSSLAND ABOUT 0.85 MI SE OF MATHER HEIGHTS ELEMENTARY SCHOOL. MAPPED TO PROVIDED MAP.

Ecological:
VERNAL POOLS IN CALIFORNIA GRASSLAND MATRIX, SURROUNDED BY UNGRAZED PASTURES. LIGHT RECREATION IN AREA.

Threats:

General:
OBSERVED IN LOW ABUNDANCE IN POOL DURING SURVEYS CONDUCTED BETWEEN 24 FEB AND 14 APR 2006.

PLSS: T08N, R06E, Sec. 24 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4266783 E651202	Latitude/Longitude: 38.53662 / -121.26516	Elevation (feet): 140

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

WIT05F0005	WITHAM, C. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2005-XX-XX
WIT05R0002	WITHAM, C. - MATHER FIELD VERNAL POOLS, SPECIAL STATUS CRUSTACEAN LOCATIONS. 2005-05-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	82476	EO Index:	83495
Key Quad:	Carmichael (3812153)	Element Code:	ICBRA10010
Occurrence Number:	280	Occurrence Last Updated:	2011-06-08

Scientific Name:	<i>Lepidurus packardii</i>	Common Name:	vernal pool tadpole shrimp
Listing Status:	Federal: Endangered	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_EN-Endangered
CNDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Last Date Observed:	2008-07-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2008-07-01	Occurrence Rank:	Fair
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
HEDGE SUBSTATION, 0.5 MILE FROM ELDER CREEK RD AT HEDGE AVE, 2 MILES SE THE SACRAMENTO ARMY DEPOT, SACRAMENTO CO.

Detailed Location:
PARCEL B OF SMUD HEDGE SUBSTATION PROJECT SITE. 2008: L. PACKARDI OBS IN SW1, SW2, SW3, SW4, SW8, SW9 & OW1 BASINS.

Ecological:
SEASONAL WETLANDS AND SWALES. BRANCHINECTA SP. AND LINDERIELLA OCCIDENTALIS OBSERVED IN AREA. NO LEPIDURUS FOUND IN "PARCEL A" LOCATED JUST TO THE NW DURING 2008 SURVEYS.

Threats:
General:
OBSERVED IN 5 POOLS DURING WET-SEASON SAMPLING CONDUCTED BETWEEN 20 DEC 2007 AND 9 APR 2008. LEPIDURUS CYSTS OBSERVED IN 7 POOLS DURING DRY SEASON SAMPLING CONDUCTED ON 1 JUL 2008.

PLSS: T08N, R06E, Sec. 31 (M)	Accuracy: nonspecific area	Area (acres): 6
UTM: Zone-10 N4263181 E643333	Latitude/Longitude: 38.50547 / -121.35615	Elevation (feet): 55

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

HEL08F0018	HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2008-01-17
HEL09R0001	HELM, B. & T. WOOD (HELM BIOLOGICAL CONSULTING) - DRY-SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE SMUD HEDGE TRAINING FACILITY 2009-03-25
ROZ08R0001	ROZUMOWICZ, B. & B. HELM (HELM BIOLOGICAL CONSULTING) - WET SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE SMUD HEDGE SUBSTATION TRAINING FACILITY 2008-07-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 82536	EO Index: 83547
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 281	Occurrence Last Updated: 2015-01-13

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2011-02-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-02-XX	Occurrence Rank: Excellent
Owner/Manager: PVT-SACRAMENTO VLY CONSERVANCY	Trend: Unknown
Presence: Presumed Extant	

Location:
KASSIS PARCEL, N & S OF ROLLING MEADOWS DR, 0.9 MI NNE OF FLORIN RD AT EXCELSIOR RD, 3 MI S OF OLD MATHER AFB, SAC CO.

Detailed Location:
KASSIS PARCEL IS PART OF THE SACRAMENTO VERNAL POOL PRESERVE AREA. ABOUT 0.9 MI WSW OF TWELVEMILE HOUSE (HISTORICAL) ALONG JACKSON RD (SR 16). MAPPED ACCORDING TO PROVIDED MAP. 1993 SUGNET REPORT: VERNAL POOL SOMEWHERE IN SEC 35.

Ecological:
VERNAL POOLS IN A MATRIX OF CALIFORNIA ANNUAL GRASSLAND. MOST POOLS DID NOT FULLY POND AND WERE AT ABOUT 1/2 OF NORMAL CAPACITY IN 2008. SURROUNDING LAND USE: CATTLE GRAZING. BRANCHINECTA LYNCHI & LINDERIELLA OCCIDENTALIS ALSO ON PARCEL.

Threats:
General:
OBSERVED 2 APR 1992 IN VERNAL POOL, SUGNET RECORD #150. INDIVIDUALS FOUND IN LOW ABUNDANCE IN 6 POOLS DURING SURVEYS CONDUCTED 5 & 18 FEB 2008 AND JAN-FEB 2011.

PLSS: T08N, R06E, Sec. 35 (M)	Accuracy: specific area	Area (acres): 30
UTM: Zone-10 N4263451 E649046	Latitude/Longitude: 38.50697 / -121.29060	Elevation (feet): 120

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX
WIT08F0006	WITHAM, C. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI & BRANCHINECTA MESOVALLENSIS & LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 2008-02-18
WIT11U0005	WITHAM, C. - KASSIS AND SYLVA PARCELS, BRANCHIOPOD MONITORING, 90-DAY REPORT, RECOVERY PERMITS TE-799570-3, 2010-TA-0243 2011-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 82859	EO Index: 83860
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 282	Occurrence Last Updated: 2011-06-27

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2006-05-05	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-05-05	Occurrence Rank: Good
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
MATHER FIELD VERNAL POOL PRESERVE, 0.5 MI NE OF KIEFER BLVD AT EXCELSIOR ROAD, S END OF DECOMMISSIONED MATHER AFB.

Detailed Location:
MAPPED TO PROVIDED MAP.

Ecological:
VERNAL POOLS IN CALIFORNIA ANNUAL GRASSLAND MATRIX, SURROUNDED BY UNGRAZED PASTURES.

Threats:
General:
BREEDING ADULTS OBSERVED IN POOL DURING SURVEYS CONDUCTED BETWEEN 14 FEB & 5 MAY 2006.

PLSS: T08N, R06E, Sec. 14 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4267118 E649467	Latitude/Longitude: 38.53993 / -121.28499	Elevation (feet): 95

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
WIT06F0003 WITHAM, C. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2006-04-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 83344
Key Quad: Florin (3812144)
Occurrence Number: 290

EO Index: 84353
Element Code: ICBRA10010
Occurrence Last Updated: 2011-07-08

Scientific Name: *Lepidurus packardii*

Common Name: vernal pool tadpole shrimp

Listing Status:
Federal: Endangered
State: None
CNDDB Element Ranks:
Global: G3
State: S2S3

Rare Plant Rank:
Other Lists: IUCN_EN-Endangered

General Habitat:

INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.

Micro Habitat:

POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Last Date Observed: 2003-02-17

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2003-02-17

Occurrence Rank: Excellent

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

LAGUNA STONELAKE PRESERVE, 1 MI NORTHEAST INTERSECTION OF I-5 AND HOOD-FRANKLIN RD, 0.7 MI NORTHWEST OF FRANKLIN (TOWN).

Detailed Location:

Ecological:

HABITAT AT PRESERVE CONSISTS OF SEASONAL WETLANDS AND CONSTRUCTED/EXISTING VERNAL POOLS. SITE IS A WETLAND PRESERVATION AND COMPENSATION AREA. DISTURBANCE DUE TO ATV USE THROUGHOUT PRESERVE, BUT NO EVIDENCE OF EFFECT TO VERNAL POOLS.

Threats:

General:

UNKNOWN NUMBER OBSERVED IN A COMPENSATION POOL ON 17 FEB 2003; 1,000'S OBSERVED IN A TOTAL OF 6 POOLS AT ENTIRE PRESERVE SITE.

PLSS: T06N, R05E, Sec. 07 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4249756 E634136

Latitude/Longitude: 38.38596 / -121.46416

Elevation (feet): 17

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

FAR03F0019 FARMER, M. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2003-02-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 83345	EO Index: 84354
Key Quad: Florin (3812144)	Element Code: ICBRA10010
Occurrence Number: 291	Occurrence Last Updated: 2011-07-08

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2003-02-17	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-02-17	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
LAGUNA STONELAKE PRESERVE, JUST WEST OF FRANKLIN BLVD AND 0.4 MILE NORTH OF BILBY ROAD AND THE TOWN OF FRANKLIN.

Detailed Location:

Ecological:
HABITAT AT PRESERVE CONSISTS OF SEASONAL WETLANDS AND CONSTRUCTED/EXISTING VERNAL POOLS. SITE IS A WETLAND PRESERVATION AND COMPENSATION AREA. DISTURBANCE DUE TO ATV USE THROUGHOUT PRESERVE, BUT NO EVIDENCE OF EFFECT TO VERNAL POOLS.

Threats:

General:
UNKNOWN NUMBER OF SHRIMP OBSERVED IN 3 COMPENSATION POOLS ON 17 FEB 2003; 1,000'S OBSERVED IN A TOTAL OF 6 POOLS AT ENTIRE PRESERVE SITE.

PLSS: T06N, R05E, Sec. 08 (M)	Accuracy: specific area	Area (acres): 21
UTM: Zone-10 N4249727 E634834	Latitude/Longitude: 38.38559 / -121.45617	Elevation (feet): 17

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
FAR03F0019 FARMER, M. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2003-02-17



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	93188	EO Index:	94328
Key Quad:	Florin (3812144)	Element Code:	ICBRA10010
Occurrence Number:	299	Occurrence Last Updated:	2014-08-06

Scientific Name:	<i>Lepidurus packardii</i>	Common Name:	vernal pool tadpole shrimp
Listing Status:	Federal: Endangered	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_EN-Endangered
CNDDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Last Date Observed:	2002-02-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-02-01	Occurrence Rank:	Fair
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WEST SIDE OF WESTERN PACIFIC (UNION PACIFIC) RAILROAD TRACKS, 0.3 MILE NW OF FRANKLIN BLVD AT ELK GROVE BLVD, ELK GROVE.

Detailed Location:
1993 DETECTION LOCATION GIVEN ONLY AS TRS T7N R5E SEC 32. MAPPED TO POOL LOCATION GIVEN ON 2002 FIELD SURVEY FORM.

Ecological:
2002: SHALLOW (5" DEEP), LINEAR, GRASS-BOTTOMED DEPRESSION ADJACENT TO RAILROAD TRACKS. COPEPODS AND WATER FLEAS PRESENT.

Threats:
General:
FOUND IN 1 OF 4 VERNAL POOLS SAMPLED 4 FEB 1993. 1 ADULT OBSERVED ON 1 FEB 2002; NO AQUATIC SAMPLING CONDUCTED.

PLSS: T07N, R05E, Sec. 32 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4252625 E634880	Latitude/Longitude: 38.41169 / -121.45510	Elevation (feet): 20

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

HUD02F0007	HUDDLESTON, R. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2002-02-01
SUG93U0001	SUGNET & ASSOCIATES - PRINTOUT OF LOCATION (T-R-S) OF FAIRY SHRIMP SAMPLING. (OBTAINED FROM THE U.S. FISH AND WILDLIFE SERVICE) 1993-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93191	EO Index: 94331
Key Quad: Florin (3812144)	Element Code: ICBRA10010
Occurrence Number: 300	Occurrence Last Updated: 2014-07-31

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2007-10-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2007-10-03	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
FROM THE WEST END OF CASELMAN RD, DUE WEST TO THE WESTERN PACIFIC (=UNION PACIFIC) RAILROAD TRACKS, SACRAMENTO.

Detailed Location:
MAPPED TO BASINS "DITCH 1" AND "HBC 13" ON DEANE-VINTAGE CREEK I PROPERTY.

Ecological:
BRANCHINECTA SP. & LINDERIELLA OCCIDENTALIS CYSTS ALSO FOUND HERE.

Threats:
General:
LEPIDURUS PACKARDI CYSTS FOUND IN DRY SAMPLES TAKEN 3 OCT 2007.

PLSS: T07N, R05E, Sec. 12 (M)	Accuracy: specific area	Area (acres): 17
UTM: Zone-10 N4259482 E640757	Latitude/Longitude: 38.47256 / -121.38642	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

HEL07F0022	HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2007-10-03
HEL07R0014	HELM, B. (HELM BIOLOGICAL CONSULTING) - DRY-SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE DEANE-VINTAGE PROPERTIES 2007-10-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93192
Key Quad: Florin (3812144)
Occurrence Number: 301

EO Index: 94332
Element Code: ICBRA10010
Occurrence Last Updated: 2014-07-16

Scientific Name: *Lepidurus packardii*

Common Name: vernal pool tadpole shrimp

Listing Status:
Federal: Endangered
State: None
CNDDB Element Ranks:
Global: G3
State: S2S3

Rare Plant Rank:
Other Lists: IUCN_EN-Endangered

General Habitat:

INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.

Micro Habitat:

POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Last Date Observed: 2005-10-15
Last Survey Date: 2005-10-15
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 EAST SIDE OF WESTERN PACIFIC (UNION PACIFIC) RAILROAD TRACKS, 0.25 MILE SW OF CARLISLE AVE AT SUNNYSIDE WAY, SACRAMENTO.

Detailed Location:
 MAPPED TO BASIN "POND 1,2,3" ON DEANE-VINTAGE CREEK I PROPERTY.

Ecological:
 BRANCHINECTA SP. CYSTS ALSO FOUND.

Threats:
General:
 LEPIDURUS PACKARDI CYSTS FOUND IN DRY SAMPLE TAKEN 15 OCT 2005.

PLSS: T07N, R05E, Sec. 12 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4258887 E640849	Latitude/Longitude: 38.46719 / -121.38549	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

HEL05F0010	HELM, B. (HELM BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2005-10-15
HEL07R0014	HELM, B. (HELM BIOLOGICAL CONSULTING) - DRY-SEASON SAMPLING FOR FEDERALLY-LISTED LARGE BRANCHIOPODS AT THE DEANE-VINTAGE PROPERTIES 2007-10-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 93639	EO Index: 95967
Key Quad: Carmichael (3812153)	Element Code: ICBRA10010
Occurrence Number: 333	Occurrence Last Updated: 2015-01-13

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2011-02-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-02-01	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ASPEN VII SOUTH SITE, ABOUT 0.3 MILES NW OF ELDER CREEK RD AT EXCELSIOR RD, 2.1 MILES SE OF BRADSHAW RD AT JACKSON RD.

Detailed Location:
MAPPED TO COORDINATES GIVEN FOR OCCUPIED POOL DSW4.

Ecological:
"CLASSIC VERNAL POOL" COVERING 3500 SQ FEET, 14 INCHES DEEP, IN FALLOW CATTLE PASTURAGE CHARACTERIZED BY NON-NATIVE ANNUAL GRASSLAND SPECIES. LINDERIELLA OCCIDENTALIS AND BRANCHINECTA LYNCHI CO-OCCURRED IN THE POOL.

Threats:
General:
DETECTED IN LOW ABUNDANCE IN 1 OF 13 FEATURES SURVEYED ON 1 FEB 2011.

PLSS: T08N, R06E, Sec. 27 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4264044 E647950	Latitude/Longitude: 38.51249 / -121.30304	Elevation (feet): 80

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
GIB11R0001 GIBSON & SKORDAL, LLC - LISTED VERNAL POOL BRANCHIOPODS WET SEASON SURVEY 90-DAY REPORT ASPEN VII SOUTH, SACRAMENTO COUNTY, CALIFORNIA 2011-05-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	95051	EO Index:	96178
Key Quad:	Elk Grove (3812143)	Element Code:	ICBRA10010
Occurrence Number:	334	Occurrence Last Updated:	2015-01-28

Scientific Name:	<i>Lepidurus packardii</i>	Common Name:	vernal pool tadpole shrimp
Listing Status:	Federal: Endangered	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_EN-Endangered
CNDDDB Element Ranks:	Global: G3		
	State: S2S3		

General Habitat:	Micro Habitat:
INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Last Date Observed:	2013-01-15	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2013-01-15	Occurrence Rank:	Good
Owner/Manager:	PVT, SACTO VALLEY CONSERVANCY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 NW CORNER OF GRANT LINE RD AT CALVINE RD, FROM ABOUT 200' TO 1.0 MI N OF CALVINE RD AND 0.4 TO 1.8 MI E OF EXCELSIOR RD.

Detailed Location:
 MAPPED TO LOCATIONS PROVIDED FOR OCCUPIED POOLS. INCLUDES CHESTER DRIVE PARCEL TOWARDS MIDDLE OF OCCURRENCE, AND WERRE SOUTH PARCEL AT WEST SIDE OF OCCURRENCE.

Ecological:
 WERRE SOUTH PARCEL PRESERVED BY SACRAMENTO VALLEY CONSERVANCY. CHESTER DRIVE PARCEL PROPOSED FOR MITIGATION BANK AS OF 2013. GRAZED ANNUAL GRASSLAND, VERNAL POOLS, DISTURBED SEASONAL WETLANDS. ORCUTTIA TENUIS NEARBY.

Threats:
 NON-NATIVE INVASIVE VEGETATION, ILLEGAL DUMPING (2013).

General:
 FOUND ON WERRE PARCEL IN 12 POOLS, 2005; IN 17 POOLS, 2008; & IN 27 POOLS, 2011 (WITHAM). FOUND IN 60 POOLS, JAN 2011 (MUTH). 1000S OBSERVED ON CHESTER DR PARCEL IN 2001, 2011, & 2013 (HIRKALA).

PLSS:	T07N, R06E, Sec. 13 (M)	Accuracy:	specific area	Area (acres):	212
UTM:	Zone-10 N4258920 E650340	Latitude/Longitude:	38.46594 / -121.27673	Elevation (feet):	90

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

HIR11R0001	HIRKALA, M. (GIBSON & SKORDAL, LLC) - BRANCHIOPOD SURVEY RESULTS FOR CHESTER DRIVE PARCEL, SACRAMENTO COUNTY, CALIFORNIA 2011-05-16
HIR13F0002	HIRKALA, M. (GIBSON & SKORDAL, LLC) - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2013-01-15
MUT13U0001	MUTH, D. (LSA ASSOCIATES, INC.) - SCIENTIFIC COLLECTING REPORT OF SPECIMENS CAPTURED OR SALVAGED [SC-001944] 2013-02-06
WIT08F0007	WITHAM, C. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI & LINDERIELLA OCCIDENTALIS & LEPIDURUS PACKARDI 2008-03-22
WIT11U0004	WITHAM, C. - LAGUNA AND WERRE SOUTH PARCELS, BRANCHIOPOD MONITORING, 90-DAY REPORT, RECOVERY PERMITS TE-799570-3, SERVICE FILE NO. 1-1-04-F-096, 2010-TA-0243 2011-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95369	EO Index: 96504
Key Quad: Elk Grove (3812143)	Element Code: ICBRA10010
Occurrence Number: 360	Occurrence Last Updated: 2015-03-04

Scientific Name: <i>Lepidurus packardii</i>	Common Name: vernal pool tadpole shrimp
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: IUCN_EN-Endangered
CNDDB Element Ranks:	
Global: G3	
State: S2S3	

General Habitat: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.	Micro Habitat: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.
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Last Date Observed: 2014-01-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-01-03	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.5 MILES SW OF VINEYARD RD AT GERBER RD, 0.8 MILES NE OF BRADSHAW RD AT ROGERS RD; NNE OF ELK GROVE.

Detailed Location:
MAPPED TO PROVIDED COORDINATES.

Ecological:
LARGE REMNANT VERNAL POOL AND ISOLATED SEASONAL POND IN FIELD WITH RECENT HISTORY OF ROUTINE DISKING. SURROUNDED BY HAY FIELDS, ANNUAL GRASSLAND, VACANT LOTS, AND RESIDENTIAL DEVELOPMENT.

Threats:
AGRICULTURE, DISKING, DEVELOPMENT.

General:
CYSTS COLLECTED FROM 2 FEATURES WERE CULTURED AND BEGAN TO HATCH 8 DAYS AFTER SOIL SAMPLE INUNDATION; INSTARS IDENTIFIED AS LEPIDURUS PACKARDI.

PLSS: T07N, R06E, Sec. 09 (M)	Accuracy: specific area	Area (acres): 6
UTM: Zone-10 N4259852 E646446	Latitude/Longitude: 38.47498 / -121.32116	Elevation (feet): 70

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
HEL14F0010 HELM, B. - FIELD SURVEY FORM FOR LEPIDURUS PACKARDI 2014-01-03



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 59599	EO Index: 59635
Key Quad: Carmichael (3812153)	Element Code: ICBRA23010
Occurrence Number: 1	Occurrence Last Updated: 2005-01-26

Scientific Name: <i>Dumontia oregonensis</i>	Common Name: hairy water flea
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	
Global: G1G3	
State: S1	

General Habitat: VERNAL POOLS. IN CALIFORNIA, KNOWN ONLY FROM MATHER FIELD.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 2004-04-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-04-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
MATHER FIELD.

Detailed Location:

Ecological:

Threats:

General:

SPECIES KNOWN ONLY FROM ONE LOCALITY IN OREGON WHEN DESCRIBED. NO ADDITIONAL COLLECTING DATA GIVEN.

PLSS: T08N, R06E, Sec. 13 (M)	Accuracy: nonspecific area	Area (acres): 6,011
UTM: Zone-10 N4268528 E649927	Latitude/Longitude: 38.55255 / -121.27941	Elevation (feet): 130

County Summary: Sacramento	Quad Summary: Buffalo Creek (3812152), Carmichael (3812153)
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Sources:

ROG04U0003	ROGERS, D.C. - EMAIL WITH CALIFORNIA LOCALITY RECORD FOR DUMONTIA OREGONENSIS. 2004-10-22
ROG05U0001	ROGERS, D.C. - EMAIL WITH DATA FOR VARIOUS CRUSTACEAN SPECIES. 2005-01-26
SAN03A0001	SANTOS-FLORES, C.J. & S.I. DODSON - DUMONTIA OREGONENSIS N. FAM., N. GEN., N. SP., A CLADOCERAN REPRESENTING A NEW FAMILY OF "WATER FLEAS" (CRUSTACEA, ANOMOPODA) FROM USA, W/ NOTES ON CLASSIF. OF THE ORDER ANOMOPODA. 2003-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	87165	EO Index:	88125
Key Quad:	Sacramento West (3812155)	Element Code:	IICOL02106
Occurrence Number:	10	Occurrence Last Updated:	2012-11-06

Scientific Name:	<i>Cicindela hirticollis abrupta</i>	Common Name:	Sacramento Valley tiger beetle
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5TH State: SH	Other Lists:	

General Habitat:	Micro Habitat:
SANDY FLOODPLAIN HABITAT IN THE SACRAMENTO VALLEY. NO BEETLES LOCATED DURING INTENSIVE 2001-2004 SURVEYS.	REQUIRES FINE TO MEDIUM SAND, TERRACED FLOODPLAINS OR LOW SANDY WATER EDGE FLATS.

Last Date Observed:	1955-08-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1955-08-01	Occurrence Rank:	None
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Extirpated		

Location:
SANDY BANKS ALONG THE SACRAMENTO RIVER BETWEEN SACRAMENTO AND WEST SACRAMENTO.

Detailed Location:
EXACT LOCATION UNKNOWN; COLLECTED FROM "SACRAMENTO" (1918, 1950, 1955) AND "SACRAMENTO WEST" (1944). COLLECTION SITES MAY HAVE BEEN NEAR THE CONFLUENCE OF THE SACRAMENTO AND AMERICAN RIVERS.

Ecological:
LITTLE SUITABLE HABITAT REMAINS, AND THE POTENTIAL HABITAT THAT REMAINS, SANDY BEACHES NEAR DISCOVERY PARK, ARE HIGHLY IMPACTED BY RECREATION.

Threats:
General:
SACRAMENTO IS THE TYPE LOCALITY. COLLECTED 27 MAY 1918, 5 JUL 1944, 1950, AND 1 AUG 1955. NONE FOUND DURING ANNUAL SURVEYS FROM 2001-2004.

PLSS: T09N, R04E, Sec. 35 (M)	Accuracy: nonspecific area	Area (acres): 404
UTM: Zone-10 N4272471 E629958	Latitude/Longitude: 38.59122 / -121.50776	Elevation (feet): 2

County Summary:	Quad Summary:
Sacramento, Yolo	Sacramento West (3812155)

Sources:

KNI04R0002	KNISLEY, C.B. (RANDOLPH-MACON COLLEGE) - BIOLOGY AND CONSERVATION OF THE SACRAMENTO VALLEY TIGER BEETLE, CICINDELA HIRTICOLLIS ABRUPTA. REPORT TO USFWS SACRAMENTO FIELD OFFICE. 2004-11-10
KNI05A0001	KNISLEY, C.B. & M.S. FENSTER (RANDOLPH-MACON COLLEGE) - APPARENT EXTINCTION OF THE TIGER BEETLE, CICINDELA HIRTICOLLIS ABRUPTA (COLEOPTERA: CARABIDAE: CICINDELINAE). THE COLEOPTERISTS BULLETIN, 59(4):451-458. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11640	EO Index: 14459
Key Quad: Carmichael (3812153)	Element Code: IICOL48011
Occurrence Number: 1	Occurrence Last Updated: 2015-03-06

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	Micro Habitat: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.
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Last Date Observed: 2013-05-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-06-25	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY, DPR	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG THE AMERICAN RIVER, VICINITY OF RIVERBEND PARK & ANCIL HOFFMAN PARK, 2.1 MI W OF HWY 50 & SUNRISE BLVD JCT.

Detailed Location:
SITE DESCRIBED AS ONE OF THE EARLIEST KNOWN POPULATIONS OF VELB IN 1970-80'S. GOETHE PARK REFERENCED AS BEING CRITICAL HABITAT. MAPPED TO GOETHE PARK (RIVER BEND PARK) & ANCIL HOFFMAN PARK. AREA REQUIRES FURTHER SURVEYING.

Ecological:
NUMEROUS ELDERBERRY TRANSPLANTS, ELDERBERRY SEEDLINGS, AND OTHER NATIVE TREES AND SHRUBS. GRASS AND FLOWER VEGETATION LARGELY NON-NATIVE.

Threats:
POSSIBLE THREAT DUE TO FIRE AND RECREATION.

General:
1 MALE COLLECTED ON 20 APR 1976; SEVERAL EXIT HOLES OBSERVED. COLLECTED "IN RECENT YEARS" 1984. 4 ADULTS OBS IN 1985. 2 FEMALES OBS ON 18 APR 2008. 1 ADULT OBS ON 15 MAY 2013. 0 OBS AT 2 MITIGATION SITES NEAR S EDGE FROM 2009-2014.

PLSS: T09N, R06E, Sec. 27 (M)	Accuracy: nonspecific area	Area (acres): 715
UTM: Zone-10 N4274788 E647371	Latitude/Longitude: 38.60937 / -121.30741	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Carmichael (3812153), Citrus Heights (3812163)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

AGU13F0001	AGUILERA, A. (U.S. FISH AND WILDLIFE SERVICE) - FIELD SURVEY FORM FOR DESMOCERUS CALIFORNICUS DIMORPHUS 2013-05-15
ARN85U0001	ARNOLD, R.A. (ENTOMOLOGICAL CONSULTING SERVICES) - LETTER TO JACK PARNELL, DIRECTOR, DFG PROVIDING COLLECTION DATA FOR VELB. 1985-09-18
EYA76R0001	EYA, B.K. - REPORT ON THE DISTRIBUTION & STATUS OF A LONGHORN BEETLE, DESMOCERUS CALIFORNICUS DIMORPHUS (COLEOPTERA: CERAMBYCIDAE). OBTAINED THROUGH DR. LARRY ENG. 1976-XX-XX
FED78R0001	FEDERAL REGISTER - VOL. 43 NO. 155 PAGE 35643. 1978-08-10
FWS84R0002	U.S. FISH & WILDLIFE SERVICE - RECOVERY PLAN FOR THE VALLEY ELDERBERRY LONGHORN BEETLE. 1984-XX-XX
MAR11R0001	MARET, M. (SACRAMENTO COUNTY PARKS) - 2011 ANNUAL REPORT (YEAR 1 OF 10) VALLEY ELDERBERRY LONGHORN BEETLE MITIGATION FOR THE WATT AVENUE BRIDGE WIDENING PROJECT 2011-12-XX
MAR12R0002	MARET, M. (SACRAMENTO COUNTY PARKS) - 2012 ANNUAL REPORT (YEAR 2 OF 10) VALLEY ELDERBERRY LONGHORN BEETLE MITIGATION FOR THE WATT AVENUE BRIDGE WIDENING PROJECT (1-1-97-F-52) DECEMBER 2012 2012-12-XX
MAR13R0001	MARET, M. (SACRAMENTO COUNTY PARKS) - 2013 ANNUAL REPORT (YEAR 3 OF 10). VALLEY ELDERBERRY LONGHORN BEETLE MITIGATION FOR THE WATT AVENUE BRIDGE WIDENING PROJECT (1-1-97-F-52) 2013-12-XX
MAR14R0001	MARET, M. - 2014 ANNUAL REPORT (YEAR 4 OF 10) VALLEY ELDERBERRY LONGHORN BEETLE, MITIGATION FOR THE WATT AVENUE BRIDGE WIDENING PROJECT (1-1-97-F-52), DECEMBER 2014 2014-12-XX
RIC08F0052	RICKABAUGH, S. (U.S. FISH AND WILDLIFE SERVICE) - FIELD SURVEY FORM FOR DESMOCERUS CALIFORNICUS DIMORPHUS 2008-04-18
SCO09R0001	SCOTT, S. (SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT BUFFERLANDS) - YEAR ONE MONITORING REPORT FOR THE ARDEN PARALLEL FORCE MAIN PROJECT VALLEY ELDERBERRY LONGHORN BEETLE MITIGATION SITE AT RIVERBEND PARK, SAC. CA 2009 USFWS FILE #1-1-03-F-0023 2009-12-28
SCO14R0001	SCOTT, S. (SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT BUFFERLANDS) - YEAR FIVE MONITORING REPORT FOR THE ARDEN PARALLEL FORCE MAIN PROJECT VALLEY ELDERBERRY LONGHORN BEETLE MITIGATION SITE AT RIVERBEND PARK, SACRAMENTO, CA 2014-01-XX
SCO15R0001	SCOTT, S. (SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT BUFFERLANDS) - YEAR SIX MONITORING REPORT FOR THE ARDEN PARRALLEL FORCE MAIN PROJECT VALLEY ELDERBERRY LONGHORN BEETLE MITIGATION SITE AT RIVERBEND PARK, SACRAMENTO, CA 2015-02-17
SHA80U0001	SHAPIRO, A. (UNIVERSITY OF CALIFORNIA, DAVIS) - PHONE CONVERSATION WITH BLAIR CSUTI (CNDDDB). 1980-05-19



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11337	EO Index: 22744
Key Quad: Sacramento East (3812154)	Element Code: IICOL48011
Occurrence Number: 6	Occurrence Last Updated: 1998-09-08

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	Micro Habitat: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.
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Last Date Observed: 1984-06-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1984-06-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Decreasing
Presence: Presumed Extant	

Location:
JUST SOUTH OF HIGHWAY 160 AT DEL PASO BLVD, JOHNSON INDUSTRIAL PARK.

Detailed Location:
SACRAMENTO ZONE - JOHNSON INDUSTRIAL PARK CRITICAL HABITAT.

Ecological:
LARVAE ARE BORERS; ADULTS FEED ON FOLIAGE.

Threats:

General:
ADULTS OBSERVED BY ARNOLD IN 1984.

PLSS: T09N, R05E, Sec. 30 (M)	Accuracy: specific area	Area (acres): 27
UTM: Zone-10 N4273301 E633403	Latitude/Longitude: 38.59819 / -121.46807	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

ARN84R0001	ARNOLD, R. - DISTRIBUTIONAL AND ECOLOGICAL STUDIES OF FIVE ENDANGERED INSECTS 1984-07-27
ARN84U0002	ARNOLD, R.A. - REPORT FOR ENDANGERED INSECT CONTRACT WITH R. A. ARNOLD, 1984 - ECOLOGICAL STUDIES OF THE VALLEY ELDERBERRY LONGHORN BEETLE. 1984-04-XX
EYA76R0001	EYA, B.K. - REPORT ON THE DISTRIBUTION & STATUS OF A LONGHORN BEETLE, DESMOCERUS CALIFORNICUS DIMORPHUS (COLEOPTERA: CERAMBYCIDAE). OBTAINED THROUGH DR. LARRY ENG. 1976-XX-XX
FWS84R0002	U.S. FISH & WILDLIFE SERVICE - RECOVERY PLAN FOR THE VALLEY ELDERBERRY LONGHORN BEETLE. 1984-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11410	EO Index:	22742
Key Quad:	Sacramento East (3812154)	Element Code:	IICOL48011
Occurrence Number:	7	Occurrence Last Updated:	2015-05-07

Scientific Name:	<i>Desmocerus californicus dimorphus</i>	Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3T2		
	State: S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	2009-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2009-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	SAC AREA FLOOD CONTROL AGENCY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 S BANK AMERICAN RIVER, ~0.4 MI N OF ELVAS AVE AT C ST, 0.9 MI ESE OF I-80 BRIDGE, VICINITY OF SANDBURG DR, SACRAMENTO.

Detailed Location:
 MAPPED TO PROVIDED MAPS. 1983 CAPTURE WAS HELD FOR TWO DAYS, IN WHICH TIME IT FORAGED ON ELDERBERRY LEAVES AND LAID 10 EGGS, BEFORE BEING RELEASED. 1984 SURVEYS CONDUCTED BY R. ARNOLD; LOCATION DESCRIBED AS GLENN HALL PARK, RIVER MILE 7.

Ecological:
 SITE SERVES AS AN ON-SITE MITIGATION AREA FOR THE SACRAMENTO RIVER BANK PROTECTION PROJECT. HABITAT COMPOSED OF COTTONWOOD, ALDER, BOX ELDER, ROSE, ARROYO & SANDBAR WILLOW. ELDERBERRY SHRUB HEALTH ASSESSED IN 2010, VELB NOT SURVEYED.

Threats:
General:
 FEMALE COLLECTED ON 10 MAY 1983. 11 BEETLES & 3 FRESH EXIT HOLES OBSERVED DURING 15 APR-15 JUN 1984 SURVEYS. NO VELB OR EXIT HOLES OBS IN 2001, 2004, 2005, 2006, & 2007. UNKNOWN NUMBER OF EXIT HOLES IN 2008 & 2009.

PLSS: T08N, R05E, Sec. 04 (M)	Accuracy: nonspecific area	Area (acres): 112
UTM: Zone-10 N4271387 E636513	Latitude/Longitude: 38.58047 / -121.43274	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

ARN84R0001	ARNOLD, R. - DISTRIBUTIONAL AND ECOLOGICAL STUDIES OF FIVE ENDANGERED INSECTS 1984-07-27
ARN84R0003	ARNOLD, R.A. - REPORTS: THE FINDINGS OF MY RECENT FIELD STUDIES OF THE ENDANGERED VALLEY ELDERBERRY LONGHORN BEETLE; LETTERS FROM: DOWNEY, BRAND, SEYMORE & ROHWER; USFWS; UC BERKELEY. 1984-06-21
ARN84U0002	ARNOLD, R.A. - REPORT FOR ENDANGERED INSECT CONTRACT WITH R. A. ARNOLD, 1984 - ECOLOGICAL STUDIES OF THE VALLEY ELDERBERRY LONGHORN BEETLE. 1984-04-XX
BUC01R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - STATUS OF HABITAT MITIGATION AND MONITORING FOR LOWER AMERICAN RIVER PROJECT: SITES 1, 2, 3, AND 4 2001-12-21
BUC04R0001	BUCK, P. - LOWER AMERICAN RIVER PROJECT (YEAR 5) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2004-12-XX
BUC05R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - LOWER AMERICAN RIVER PROJECT (YEAR 6) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2005-12-XX
BUC06R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 7 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2006-12-XX
BUC08R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-04-XX
CRO10R0001	CROSBIE, L. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT, LOWER AMERICAN RIVER SITES YEAR 11 MITIGATION MONITORING REPORT 2010-12-XX
ENG83F0001	ENG, L.L. - FIELD SURVEY FORM FOR DESMOCERUS CALIFORNICUS DIMORPHUS 1983-XX-XX
SAC08R0001	SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-09-30
SAC09R0001	SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 10 MITIGATION MONITORING REPORT 2009-12-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11398

EO Index: 22739

Key Quad: Sacramento East (3812154)

Element Code: IICOL48011

Occurrence Number: 8

Occurrence Last Updated: 1998-07-15

Scientific Name: *Desmocerus californicus dimorphus*

Common Name: valley elderberry longhorn beetle

Listing Status: **Federal:** Threatened

Rare Plant Rank:

State: None

Other Lists:

CNDDDB Element Ranks: **Global:** G3T2

State: S2

General Habitat:

OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).

Micro Habitat:

PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed: XXXX-XX-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1984-06-XX

Occurrence Rank: Unknown

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

BUSHY LAKE, NEAR CAL EXPO.

Detailed Location:

Ecological:

LARVAE ARE ELDERBERRY STEM BORERS AND ADULTS FEED ON ELDERBERRY FOLIAGE.

Threats:

General:

COLLECTIONS KNOWN FROM THIS AREA. NO ADULTS OR FRESH EXIT HOLES OBSERVED IN 1984.

PLSS: T09N, R05E, Sec. 33 (M)

Accuracy: 1/5 mile

Area (acres): 0

UTM: Zone-10 N4272184 E636307

Latitude/Longitude: 38.58768 / -121.43495

Elevation (feet): 20

County Summary:

Sacramento

Quad Summary:

Sacramento East (3812154)

Sources:

ARN84R0001 ARNOLD, R. - DISTRIBUTIONAL AND ECOLOGICAL STUDIES OF FIVE ENDANGERED INSECTS 1984-07-27

FWS84R0002 U.S. FISH & WILDLIFE SERVICE - RECOVERY PLAN FOR THE VALLEY ELDERBERRY LONGHORN BEETLE. 1984-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11343	EO Index: 22740
Key Quad: Sacramento East (3812154)	Element Code: IICOL48011
Occurrence Number: 9	Occurrence Last Updated: 1998-07-14

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	Micro Habitat: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.
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Last Date Observed: 1984-06-00	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1984-06-00	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
AMERICAN RIVER FLOODPLAIN 22 ACRE PARCEL BETWEEN RAILROAD TRACK OVERPASSES (BTWN I-80 & HWY 160).

Detailed Location:
ADULTS OBSERVED ON "STRESSED" ELDERBERRIES IN RIPARIAN VEGETATION ALONG THE AMERICAN RIVER.

Ecological:

Threats:

General:

NORTH SACRAMENTO LAND COMPANY PROPERTY.

PLSS: T09N, R05E, Sec. 32 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4272354 E633690	Latitude/Longitude: 38.58961 / -121.46495	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

ARN84R0001 ARNOLD, R. - DISTRIBUTIONAL AND ECOLOGICAL STUDIES OF FIVE ENDANGERED INSECTS 1984-07-27

ARN84R0003 ARNOLD, R.A. - REPORTS: THE FINDINGS OF MY RECENT FIELD STUDIES OF THE ENDANGERED VALLEY ELDERBERRY LONGHORN BEETLE; LETTERS FROM: DOWNEY, BRAND, SEYMORE & ROHWER; USFWS; UC BERKELEY. 1984-06-21

ARN84U0002 ARNOLD, R.A. - REPORT FOR ENDANGERED INSECT CONTRACT WITH R. A. ARNOLD, 1984 - ECOLOGICAL STUDIES OF THE VALLEY ELDERBERRY LONGHORN BEETLE. 1984-04-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11431	EO Index:	22741
Key Quad:	Sacramento East (3812154)	Element Code:	IICOL48011
Occurrence Number:	10	Occurrence Last Updated:	1998-07-14

Scientific Name:	<i>Desmocerus californicus dimorphus</i>	Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3T2		
	State: S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	1984-06-00	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1984-06-00	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 BETWEEN MILEAGE MARKERS 6 & 7 ON AMERICAN RIVER PARKWAY BIKE TRAIL.

Detailed Location:
 ADULTS OBSERVED BY ARNOLD ON "STRESSED" ELDERBERRIES IN RIPARIAN VEGETATION ALONG THE AMERICAN RIVER.

Ecological:
Threats:

General:

PLSS: T08N, R05E, Sec. 03 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4271467 E637721	Latitude/Longitude: 38.58101 / -121.41885	Elevation (feet): 10

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:

ARN84R0001	ARNOLD, R. - DISTRIBUTIONAL AND ECOLOGICAL STUDIES OF FIVE ENDANGERED INSECTS 1984-07-27
ARN84R0003	ARNOLD, R.A. - REPORTS: THE FINDINGS OF MY RECENT FIELD STUDIES OF THE ENDANGERED VALLEY ELDERBERRY LONGHORN BEETLE; LETTERS FROM: DOWNEY, BRAND, SEYMORE & ROHWER; USFWS; UC BERKELEY. 1984-06-21
ARN84U0002	ARNOLD, R.A. - REPORT FOR ENDANGERED INSECT CONTRACT WITH R. A. ARNOLD, 1984 - ECOLOGICAL STUDIES OF THE VALLEY ELDERBERRY LONGHORN BEETLE. 1984-04-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11316	EO Index: 12887
Key Quad: Sacramento East (3812154)	Element Code: IICOL48011
Occurrence Number: 11	Occurrence Last Updated: 1998-07-14

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	Micro Habitat: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.
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Last Date Observed: 1984-06-00	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1984-06-00	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUNCTION OF GARDEN HIGHWAY AND NORTHGATE BLVD.

Detailed Location:
10 ACRE PARCEL, REFERRED TO AS THE NORTHGATE TRIANGLE.

Ecological:
MOST BEETLES FOUND ON "STRESSED" ELDERBERRIES.

Threats:

General:
ADULTS OBSERVED BY ARNOLD.

PLSS: T09N, R05E, Sec. 30 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4274002 E632670	Latitude/Longitude: 38.60461 / -121.47634	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

ARN84R0001 ARNOLD, R. - DISTRIBUTIONAL AND ECOLOGICAL STUDIES OF FIVE ENDANGERED INSECTS 1984-07-27

ARN84R0003 ARNOLD, R.A. - REPORTS: THE FINDINGS OF MY RECENT FIELD STUDIES OF THE ENDANGERED VALLEY ELDERBERRY LONGHORN BEETLE; LETTERS FROM: DOWNEY, BRAND, SEYMORE & ROHWER; USFWS; UC BERKELEY. 1984-06-21

ARN84U0002 ARNOLD, R.A. - REPORT FOR ENDANGERED INSECT CONTRACT WITH R. A. ARNOLD, 1984 - ECOLOGICAL STUDIES OF THE VALLEY ELDERBERRY LONGHORN BEETLE. 1984-04-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11171	EO Index: 22733
Key Quad: Sacramento West (3812155)	Element Code: IICOL48011
Occurrence Number: 18	Occurrence Last Updated: 1989-08-11

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed: XXXX-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1985-04-24	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER MI 62.5 W AT I-80.

Detailed Location:

Ecological:
HABITAT IS A NEARLY-PURE ELDERBERRY STAND LOCATED ALONG THE RAILROAD TRACKS, WITH A HIGH DENSITY (50%) OF EXIT HOLES.

Threats:

General:
NO BEETLES OBSERVED; SITE VISITED TOO LATE IN THE DAY.

PLSS: T09N, R04E, Sec. 28 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4272946 E626445	Latitude/Longitude: 38.59601 / -121.54801	Elevation (feet): 20

County Summary:	Quad Summary:
Sacramento, Yolo	Sacramento West (3812155)

Sources:
JON85R0001 JONES & STOKES ASSOCIATES, INC. - SURVEY OF HABITAT AND POPULATIONS OF THE VALLEY ELDERBERRY LONGHORN BEETLE ALONG THE SACRAMENTO RIVER - RFP NO. FWSI- 84-79 (NR). PROGRESS REPORT TO USFWS. 1985-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11131	EO Index: 22734
Key Quad: Taylor Monument (3812165)	Element Code: IICOL48011
Occurrence Number: 19	Occurrence Last Updated: 1989-08-11

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed: XXXX-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1985-02-06	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER MI 65.5W.

Detailed Location:

Ecological:

Threats:

General:

GOOD HABITAT, BUT ONLY TWO OLD EXIT HOLES WERE OBSERVED. NO SURVEY WAS MADE DURING THE FLIGHT PERIOD.

PLSS: T09N, R04E, Sec. 17 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4277791 E624796	Latitude/Longitude: 38.63989 / -121.56607	Elevation (feet): 20

County Summary:	Quad Summary:
Sacramento, Yolo	Taylor Monument (3812165)

Sources:
JON85R0001 JONES & STOKES ASSOCIATES, INC. - SURVEY OF HABITAT AND POPULATIONS OF THE VALLEY ELDERBERRY LONGHORN BEETLE ALONG THE SACRAMENTO RIVER - RFP NO. FWSI- 84-79 (NR). PROGRESS REPORT TO USFWS. 1985-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11252	EO Index:	22723
Key Quad:	Sacramento West (3812155)	Element Code:	IICOL48011
Occurrence Number:	28	Occurrence Last Updated:	1989-08-11

Scientific Name:	<i>Desmocerus californicus dimorphus</i>	Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3T2		
	State: S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	1985-09-04	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1985-09-04	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 SACRAMENTO RIVER, OPPOSITE MOUTH OF AMERICAN RIVER, AT RIVER MI 60.3, W BANK.

Detailed Location:

Ecological:
 HABITAT CONSISTS OF ELDERBERRY SAVANNAH AND ELDERBERRY TREES IN A COTTONWOOD RIPARIAN WOODLAND.

Threats:
 THREAT OF DEVELOPMENT INTO LIGHTHOUSE MARINA PROJECT.

General:
 EXIT HOLES FOUND.

PLSS:	T09N, R04E, Sec. 26 (M)	Accuracy:	1/5 mile	Area (acres):	0
UTM:	Zone-10 N4273153 E629684	Latitude/Longitude:	38.59740 / -121.51079	Elevation (feet):	30

County Summary:	Quad Summary:
Sacramento, Yolo	Sacramento West (3812155)

Sources:

SCH85F0025	SCHONHOLTZ, R. - FIELD SURVEY FORM FOR DESMOCERUS CALIFORNICUS DIMORPHUS 1985-09-04
SEE86R0001	LARRY SEEMAN & ASSOCIATES ET AL. FOR EDAW, INC. - DEIR-EIS FOR LIGHTHOUSE MARINA PROJECT 1986-03-XX
SEE86R0002	LARRY SEEMAN & ASSOCIATES, INC. - BIOLOGICAL SURVEY OF LIGHTHOUSE MARINA PROJECT, FOR VALLEY ELDERBERRY LONGHORN BEETLE (PART OF DEIR). 1986-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11259	EO Index: 22724
Key Quad: Sacramento West (3812155)	Element Code: IICOL48011
Occurrence Number: 29	Occurrence Last Updated: 1989-08-11

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed: 1985-09-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1985-09-04	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, OPPOSITE MOUTH OF AMERICAN RIVER, RIVER MI 59.8, W BANK.

Detailed Location:
Ecological:
HABITAT CONSISTS OF ELDERBERRY SAVANNAH AND ELDERBERRY TREES IN A COTTONWOOD RIPARIAN WOODLAND.

Threats:
THREAT OF DEVELOPMENT INTO THE LIGHTHOUSE MARINA PROJECT.

General:
EXIT HOLES FOUND.

PLSS: T09N, R04E, Sec. 35 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4272507 E629839	Latitude/Longitude: 38.59156 / -121.50913	Elevation (feet):

County Summary:	Quad Summary:
Sacramento, Yolo	Sacramento West (3812155)

Sources:

SCH85F0025	SCHONHOLTZ, R. - FIELD SURVEY FORM FOR DESMOCERUS CALIFORNICUS DIMORPHUS 1985-09-04
SEE86R0001	LARRY SEEMAN & ASSOCIATES ET AL. FOR EDAW, INC. - DEIR-EIS FOR LIGHTHOUSE MARINA PROJECT 1986-03-XX
SEE86R0002	LARRY SEEMAN & ASSOCIATES, INC. - BIOLOGICAL SURVEY OF LIGHTHOUSE MARINA PROJECT, FOR VALLEY ELDERBERRY LONGHORN BEETLE (PART OF DEIR). 1986-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 11236	EO Index: 22712
Key Quad: Sacramento West (3812155)	Element Code: IICOL48011
Occurrence Number: 56	Occurrence Last Updated: 1989-08-11

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed: 1985-09-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1985-09-04	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO RIVER, OPPOSITE JCT WITH NATOMAS, MAIN DRAINAGE CANAL, RIVER MILE 61.

Detailed Location:

Ecological:
HABITAT CONSISTS OF ELDERBERRY AND SAVANNAH/ELDERBERRY TREES IN A COTTONWOOD RIPARIAN WOODLAND.

Threats:
THREAT OF DEVELOPMENT.

General:
YELLOW WARBLER AND SWAINSON'S HAWK ALSO OBSERVED AT THE SITE.

PLSS: T09N, R04E, Sec. 27 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4273753 E628707	Latitude/Longitude: 38.60295 / -121.52189	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento, Yolo	Sacramento West (3812155)

Sources:
SCH85F0025 SCHONHOLTZ, R. - FIELD SURVEY FORM FOR DESMOCERUS CALIFORNICUS DIMORPHUS 1985-09-04



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	39509	EO Index:	34511
Key Quad:	Elk Grove (3812143)	Element Code:	IICOL48011
Occurrence Number:	163	Occurrence Last Updated:	1998-08-24

Scientific Name:	<i>Desmocerus californicus dimorphus</i>	Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3T2		
	State: S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	1984-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1984-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
ALONG COSUMNES RIVER, NEAR WILTON.

Detailed Location:
STREAM MAPPED, FOR ~4 RIVER MILES AROUND WILTON.

Ecological:
Threats:

General:
EXIT HOLES OBSERVED DURING MAY AND JUNE SURVEYS, 1984, NO ADULTS OBSERVED.

PLSS: T07N, R06E, Sec. 36 (M)	Accuracy: nonspecific area	Area (acres): 404
UTM: Zone-10 N4253483 E650815	Latitude/Longitude: 38.41688 / -121.27246	Elevation (feet): 60

County Summary:	Quad Summary:
Sacramento	Sloughouse (3812142), Elk Grove (3812143)

Sources:
ARN84R0001 ARNOLD, R. - DISTRIBUTIONAL AND ECOLOGICAL STUDIES OF FIVE ENDANGERED INSECTS 1984-07-27



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	61585	EO Index:	61621
Key Quad:	Sacramento West (3812155)	Element Code:	IICOL48011
Occurrence Number:	208	Occurrence Last Updated:	2005-06-14

Scientific Name:	<i>Desmocerus californicus dimorphus</i>	Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3T2		
	State: S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	2005-05-13	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2005-05-13	Occurrence Rank:	Fair
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
0.3 MILE NORTH OF THE INTERSECTION OF SOUTH RIVER ROAD AND BURROWS AVENUE, ON THE WEST SIDE OF THE SACRAMENTO RIVER.

Detailed Location:
SITE IS ADJACENT TO RIVER-MILE 52 ON THE RIVER.

Ecological:
RIPARIAN GROWING ALONG STEEP BANKS OF AGRICULTURAL CANAL; DOMINATED BY BLUE ELDERBERRY, HIMALAYAN BLACKBERRY, BULL THISTLE, HORSETAIL, MUSTARD, POISON OAK, WILLOWS, OAK TREES. NEW STEMS IN TEMPORARY CONSTRUCTION EASEMENT SLATED FOR REMOVAL.

Threats:
THREATENED BY AGRICULTURE-RELATED PESTICIDE DRIFT, HERBICIDE USE NEAR ELDERBERRIES AND SEWER CONSTRUCTION.

General:
1 ADULT MALE VELB OBSERVED ON A NEWLY-SPROUTED ELDERBERRY STEM, THEN TAKING FLIGHT, ON 13 MAY 2005.

PLSS:	T08N, R04E, Sec. 29 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4263790 E625717	Latitude/Longitude:	38.51362 / -121.55801	Elevation (feet):	16

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
ASB05F0001 ASBELL, A. (JONES AND STOKES ASSOCIATES) - FIELD SURVEY FORM FOR DESMOCERUS CALIFORNICUS DIMORPHUS 2005-05-13



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	64758	EO Index:	64837
Key Quad:	Sacramento West (3812155)	Element Code:	IICOL48011
Occurrence Number:	209	Occurrence Last Updated:	2006-05-30

Scientific Name:	<i>Desmocerus californicus dimorphus</i>	Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3T2		
	State: S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	2006-05-17	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2006-05-17	Occurrence Rank:	Fair
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
0.6 MILE NNE OF THE INTERSECTION OF DAVIS ROAD & HARMON AVENUE, WEST SACRAMENTO.

Detailed Location:
ELDERBERRY BUSH WAS GROWING IMMEDIATELY ADJACENT TO A PERMANENT ACCESS ROAD FOR THE RAILROAD AND SRCSD PIPELINE, BETWEEN THE ACCESS ROAD AND THE RAILROAD TRACKS, AND 20' FROM THE RD-900 CANAL.

Ecological:
HABITAT CONSISTS OF A SINGLE ELDERBERRY BUSH GROWING WITH WILLOWS AND HIMALAYAN BLACKBERRY.

Threats:
THREATENED BY HERBICIDE SPRAYING BY THE RAILROAD COMPANY & PROPOSED DEVELOPMENT ON THE EAST SIDE OF THE RD-900 CANAL.

General:
ON 17 MAY 2006, A MALE AND FEMALE PAIR OBSERVED MATING ON LEAVES LOCATED AT THE 5'6" HEIGHT; A SECOND FEMALE WAS OBSERVED EATING LEAVES ~1.5 FROM THE MATING PAIR, AND SHE WAS LATER SEEN LAYING EGGS.

PLSS: T08N, R04E, Sec. 16 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4266720 E627239	Latitude/Longitude: 38.53980 / -121.54003	Elevation (feet): 13

County Summary:	Quad Summary:
Yolo	Sacramento West (3812155)

Sources:
TWE06F0001 TWEEDY, C. & P. STONE (JONES AND STOKES ASSOCIATES) - FIELD SURVEY FORM FOR DESMOCERUS CALIFORNICUS DIMORPHUS 2006-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 94702	EO Index: 95816
Key Quad: Buffalo Creek (3812152)	Element Code: IICOL48011
Occurrence Number: 223	Occurrence Last Updated: 2014-12-15

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	Micro Habitat: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.
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Last Date Observed: 2000-08-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2000-08-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
GENERAL AREA BETWEEN WHITE ROCK RD & DOUGLAS RD, APPROXIMATELY 0.1-3.0 MILES E OF SUNRISE BLVD, E OF RANCHO CORDOVA.

Detailed Location:
PROPERTY NAME WAS THE RIO DEL ORO PROPERTY. SPECIFIC LOCATION OF SHRUBS NOT PROVIDED, THEREFORE OCCURRENCE WAS MAPPED TO PROJECT AREA BOUNDARY BASED ON PROVIDED MAPS.

Ecological:
SHRUBS SHOWING EVIDENCE OF VELB WERE ASSOCIATED WITH RIAPRIAN HABITAT. SHRUBS IMPACTED BY DEVELOPMENT WERE PROPOSED FOR ON-SITE TRANSPLANTATION OR AVOIDENCE AS PART OF MITIGATION EFFORT.

Threats:
PROPOSED DEVELOPMENT; HIGH, MEDIUM, & LOW DENSITY RESIDENTIAL, SCHOOLS, COMMERCIAL, WETLAND PRESERVE, & OPEN SPACE.

General:
42 SHRUBS WITH EXIT HOLES OBSERVED DURING SURVEYS CONDUCTED BETWEEN JUL-AUG 2000; A TOTAL OF 329 SHRUBS WERE DETECTED DURING SURVEYS.

PLSS: T08N, R07E, Sec. 05 (M)	Accuracy: specific area	Area (acres): 3,801
UTM: Zone-10 N4271354 E654507	Latitude/Longitude: 38.57722 / -121.22624	Elevation (feet): 175

County Summary: Sacramento	Quad Summary: Buffalo Creek (3812152), Carmichael (3812153)
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Sources:
ECO07R0020 ECORP CONSULTING, INC. - DRAFT VALLEY ELDERBERRY LONGHORN BEETLE MITIGATION PLAN FOR RIO DEL ORO, SACRAMENTO COUNTY, CALIFORNIA 2007-09-11



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	95172	EO Index:	96307
Key Quad:	Taylor Monument (3812165)	Element Code:	IICOL48011
Occurrence Number:	271	Occurrence Last Updated:	2015-02-09

Scientific Name:	<i>Desmocerus californicus dimorphus</i>	Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3T2		
	State: S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	2007-05-14	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-05-14	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG ROAD 16 ABOUT 0.2 MI W OF JUNCTION W/ COUNTY RD 117, 2.4 MI N OF ELVERTA RD & GARDEN HWY JCT, NW OF SACRAMENTO.

Detailed Location:
 MAPPED TO PROVIDED MAP. GALLAWAY CONSULTING INC. PERFORMED VELB SURVEYS WITHIN THE PG&E LINE 407 WEST NATURAL GAS TRANSMISSION PIPELINE BIOLOGICAL SUVEY AREA. ONLY CLEAN CUT HOLES OF PROPER SIZE AND SHAPE WERE CONSIDERED VELB EXIT HOLES.

Ecological:
 RIPARIAN HABITAT. AERIAL IMAGERY (1993-2013) SHOWS AREA IS SURROUNDED BY AGRICULTURAL LANDS.

Threats:
 NATURAL GAS PIPELINE CONSTRUCTION DUE TO RESIDENTIAL/COMMERCIAL GROWTH; CONSTRUCTION PROPOSED FOR 2009-2012.

General:
 VALLEY ELDERBERRY LONGHORN BEETLE EMERGENCE HOLES WERE DETECTED ON 10 OUT OF 19 ELDERBERRY SHRUBS ON 14 MAY 2007 SURVEYS; A TOTAL OF 10 EMERGENCE HOLES WERE DETECTED.

PLSS: T10N, R03E, Sec. 01 (M)	Accuracy: specific area	Area (acres): 14
UTM: Zone-10 N4289846 E621535	Latitude/Longitude: 38.74895 / -121.60141	Elevation (feet): 30

County Summary:	Quad Summary:
Yolo	Taylor Monument (3812165)

Sources:
 GAL07R0001 GALLAWAY CONSULTING, INC. - VALLEY ELDERBERRY LONGHORN BEETLE SURVEY, PG&E LINE 407 WEST NATURAL GAS TRASNSMISSION PIPELINE, YOLO AND SUTTER COUNTIES, CALIFORNIA 2007-08-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	95173	EO Index:	96308
Key Quad:	Taylor Monument (3812165)	Element Code:	IICOL48011
Occurrence Number:	272	Occurrence Last Updated:	2015-02-09

Scientific Name:	<i>Desmocerus californicus dimorphus</i>		Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal:	Threatened	Rare Plant Rank:	
	State:	None	Other Lists:	
CNDDDB Element Ranks:	Global:	G3T2		
	State:	S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	2011-02-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2011-02-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG OLD RIVER RD, ABOUT 0.4 MI SE OF INTERSECTION WITH COUNTY RD 124, 1.3 MI SW OF I-5 & AIRPORT BLVD INTERSECTION.

Detailed Location:
 MAPPED ACCORDING TO PROVIDED COORDINATES FOR SHRUB LOCATION. SHRUB MONITORED BY PG&E. 2009 EXIT HOLE COUNT LIKELY AN OVERESTIMATION. 2010-2011 RE-EVALUATION BY PG&E/GARCIA & ASSOCIATES, DETERMINED VELB EXIT HOLES TO BE PRESENT.

Ecological:
 HABITAT GENERALLY DESCRIBED AS NON-RIPARIAN/AGRICULTURAL. ADDITIONAL ELDERBERRY PLANTS IN ADJACENT SPAN. PLANT HEALTH RECORDED AS "REPRODUCTIVE." PLANT UNDERGOES PRUNING BY PG&E.

Threats:
 POTENTIAL THREAT DUE TO PROXIMITY OF ROAD AND AGRICULTURAL ACTIVITIES.

General:
 A CLUMP OF ELDERBERRY SHRUBS WITH 10+ POTENTIAL EXIT HOLES REPORTED AS BEING DETECTED ON 16 NOV 2009; HOLES FOUND 8 FT ABOVE GROUND LEVEL. UNKNOWN NUMBER OF EXIT HOLES OBSERVED NOV 2010-FEB 2011. SHRUB HAS BEEN RECORDED IN 2003-2008.

PLSS:	T09N, R03E, Sec. 12 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4279610 E621109	Latitude/Longitude:	38.65679 / -121.60809	Elevation (feet):	40

County Summary:	Quad Summary:
Yolo	Taylor Monument (3812165)

Sources:

BEE09R0002	BEESELY, P. (PG&E) - VALLEY ELDERBERRY LONGHORN BEETLE CONSERVATION PROGRAM. 2009 BIENNIAL MONITORING REPORT; A REPRESENTATIVE SURVEY OF 2008 HABITAT IMPACTS. 2009-12-XX
PGE11R0001	PGE (PG&E) - PACIFIC GAS & ELECTRIC COMPANY: VALLEY ELDERBERRY LONGHORN BEETLE CONSERVATION PROGRAM-SUPPLEMENTAL HABITAT IMPACT REPORTING 2003-2010 2011-05-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	95200	EO Index:	96337
Key Quad:	Sacramento East (3812154)	Element Code:	IICOL48011
Occurrence Number:	276	Occurrence Last Updated:	2015-02-12

Scientific Name:	<i>Desmocerus californicus dimorphus</i>	Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3T2		
	State: S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	2013-05-17	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2013-05-17	Occurrence Rank:	Good
Owner/Manager:	US ARMY CORPS OF ENGINEERS	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ABOUT 0.3 MI SW OF EXPOSITION BLVD & CAPITAL CITY FWY INTERCHANGE, 0.9 MI NNW OF ELVAS AVE AT MCKINLEY BLVD, SACRAMENTO.

Detailed Location:
 MAPPED TO PROVIDED MITIGATION SITE BOUNDARY. BEETLES DETECTED DURING ANNUAL PROTOCOL SURVEYS. MITIGATION SITE NEAR THE AMERICAN RIVER BIKE TRAIL ON N SIDE OF AMERICAN RIVER; MITIGATION FOR SITES# 1 & 2 OF SAC RIVER BANK PROTECTION PROJECT.

Ecological:
 SURROUNDING VEGETATION INCLUDED ELDERBERRY SHRUBS, SYCAMORE TREES, VALLEY OAKS, MULE FAT, BLACK BERRY BUSHES, AND CALIFORNIA ROSE. 3 SHRUBS WERE TRANSPLANTED IN 1999.

Threats:
General:
 2 OLD POTENTIAL EXIT HOLES OBS 20 MAR & 27 JUN 2001. NO VELB OR EXIT HOLES OBSERVED IN 2004-06. 2 "ADULT VELB OR EXIT HOLES" OBS IN 2007. 0 VELB OR EXIT HOLES OBS IN 2008-2010. 2 VELB OBSERVED CRAWLING ON ELDERBERRY LEAVES ON 17 MAY 2013.

PLSS:	T09N, R05E, Sec. 32 (M)	Accuracy:	nonspecific area	Area (acres):	28
UTM:	Zone-10 N4272842 E635125	Latitude/Longitude:	38.59379 / -121.44838	Elevation (feet):	30

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

BUC01R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - STATUS OF HABITAT MITIGATION AND MONITORING FOR LOWER AMERICAN RIVER PROJECT: SITES 1, 2, 3, AND 4 2001-12-21
BUC04R0001	BUCK, P. - LOWER AMERICAN RIVER PROJECT (YEAR 5) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2004-12-XX
BUC05R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - LOWER AMERICAN RIVER PROJECT (YEAR 6) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2005-12-XX
BUC06R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 7 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2006-12-XX
BUC08R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-04-XX
CRO10R0001	CROSBIE, L. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT, LOWER AMERICAN RIVER SITES YEAR 11 MITIGATION MONITORING REPORT 2010-12-XX
LEF13F0001	LEFEVRE, J. (U.S. ARMY CORPS OF ENGINEERS) - FIELD SURVEY FORM FOR DESMOCERUS CALIFORNICUS DIMORPHUS 2013-05-17
SAC08R0001	SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-09-30
SAC09R0001	SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 10 MITIGATION MONITORING REPORT 2009-12-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95202	EO Index: 96341
Key Quad: Sacramento East (3812154)	Element Code: IICOL48011
Occurrence Number: 277	Occurrence Last Updated: 2015-05-21

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	Micro Habitat: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.
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Last Date Observed: 2005-07-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-06-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
~0.2 MI SE OF GARDEN HWY & TRUXEL RD INTERSECTION, 1 MI NE OF AMERICAN RIVER & SACRAMENTO RIVER CONFLUENCE, SACRAMENTO.

Detailed Location:
AREA SERVES AS A MITIGATION SITE FOR THE U.S. ARMY CORPS OF ENGINEERS' ARDEN PARALLEL FORCE MAIN PROJECT. MITIGATION SITE LOCATED WITHIN THE AMERICAN RIVER PARKWAY-DISCOVERY PARK. AREA EXPERIENCED HEAVY FLOODING MAY 2005 AND JAN-MAR 2006.

Ecological:
584 ELDEBERRY SEEDLINGS PLANTED AND 75 SHRUBS TRANSPLANTED IN 2005. COTTONWOOD, VALLEY OAK, CALIFORNIA SYCAMORE, OREGON ASH, VARIOUS WILLOW SPECIES, CALIFORNIA ROSE, CALIFORNIA GRAPE, AND COYOTE BRUSH WERE ALSO PLANTED.

Threats:
FLOODING AND LITTER/TRASH DUMPING.

General:
ONE SHRUB OBSERVED WITH 1 NEW & 1 OLD EXIT HOLE DURING JUL 2005 SURVEY; 3 ADDITIONAL SHRUBS, EACH WITH 3 OLD EXIT HOLES, ALSO OBS DURING SURVEYS. ABOUT 9 OLD EXIT HOLES OBS JUN 2006; PRESUMABLY OLD EXIT HOLES NOTED IN 2005.

PLSS: T09N, R04E, Sec. 25 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4274184 E631077	Latitude/Longitude: 38.60649 / -121.49459	Elevation (feet): 25

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

HOL05R0001	HOLYOAK, M. & M. KOCH (U.S. FISH AND WILDLIFE SERVICE) - 2005 MONITORING REPORT FOR ARDEN PARALLEL FORCE MAIN PROJECT VALLEY ELDERBERRY LONGHORN BEETLE MITIGATION SITE IN DISCOVERY PARK, SACRAMENTO, CA (FILE NUMBER 1-1-03-F-0023) 2005-12-20
HOL06R0002	HOLYOAK, M. & M. KOCH (U.S. FISH AND WILDLIFE SERVICE) - 2006 MONITORING REPORT FOR ARDEN PARALLEL FORCE MAIN PROJECT VALLEY ELDERBERRY LONGHORN BEETLE MITIGATION SITE IN DISCOVERY PARK, SACRAMENTO, CA (FILE NUMBER 1-1-03-F-0023) 2006-11-20



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	95203	EO Index:	96348
Key Quad:	Sacramento East (3812154)	Element Code:	IICOL48011
Occurrence Number:	278	Occurrence Last Updated:	2015-05-07

Scientific Name:	<i>Desmocerus californicus dimorphus</i>	Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3T2		
	State: S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	2009-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2009-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	SAC AREA FLOOD CONTROL AGENCY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG N BANK OF AMERICAN RIVER, ~0.9 MI NE OF HWY 50 & HOWE AVE INTERSECTION, 1 MI SW OF WATT AVE AT FAIR OAKS BLVD.

Detailed Location:
 MAPPED TO PROVIDED MAP. SACRAMENTO RIVER BANK PROTECTION PROJECT-SITE #5; 5 SITES ALONG THE LOWER AMERICAN RIVER (LAR). SITE HAD BANK PROTECTION INSTALLED TO PROTECT FROM LATERAL EROSION, MITIGATION MEASURES CONDUCTED ON-SITE.

Ecological:
 SURVIVAL RATE FOR ELDERBERRY SHRUBS APPROXIMATELY 90%; SHRUBS PLANTED IN 1998-1999. HABITAT COMPOSED OF COTTONWOOD, ALDER, ROSE, SYCAMORE, AND SANDBAR WILLOW. UPWARDS OF 22 SHRUBS HAVE HAD SIGNS OF VELB OCCUPANCY VARIOUS LAR SITES.

Threats:
General:
 NO VELB OR EXIT HOLES OBSERVED IN 2004. EXIT HOLES ESTIMATED TO BE ABOUT 1 YEAR OLD OBS IN 2005 & 2006; REPORTED AS "PRESENT" BOTH YEARS. UNK NUMBER OF EXIT HOLES OBS IN 2007-2009. REPORT FOR 2010 SURVEYS HAD NO VELB DETECTION INFO.

PLSS: T08N, R05E, Sec. 11 (M)	Accuracy: nonspecific area	Area (acres): 41
UTM: Zone-10 N4269588 E639569	Latitude/Longitude: 38.56379 / -121.39802	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

BUC04R0001	BUCK, P. - LOWER AMERICAN RIVER PROJECT (YEAR 5) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2004-12-XX
BUC05R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - LOWER AMERICAN RIVER PROJECT (YEAR 6) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2005-12-XX
BUC06R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 7 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2006-12-XX
BUC08R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-04-XX
CRO10R0001	CROSBIE, L. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT, LOWER AMERICAN RIVER SITES YEAR 11 MITIGATION MONITORING REPORT 2010-12-XX
HOL08R0002	HOLYOAK, M. & M. KOCH-MUNZ (UNIVERSITY OF CALIFORNIA, DAVIS) - THE EFFECTS OF SITE CONDITIONS AND MITIGATION PRACTICES ON SUCCESS OF ESTABLISHING THE VALLEY ELDERBERRY LONGHORN BEETLE AND ITS HOST PLANT, BLUE ELDERBERRY 2008-XX-XX
SAC08R0001	SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-09-30
SAC09R0001	SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 10 MITIGATION MONITORING REPORT 2009-12-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95208	EO Index: 96349
Key Quad: Sacramento East (3812154)	Element Code: IICOL48011
Occurrence Number: 279	Occurrence Last Updated: 2015-05-07

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	Micro Habitat: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.
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Last Date Observed: 2009-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-XX-XX	Occurrence Rank: Unknown
Owner/Manager: SAC AREA FLOOD CONTROL AGENCY	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG S BANK OF AMERICAN RIVER, N OF HWY 50, ~0.7 MI NNE OF INTERSECTION W/ 65TH, 0.8 MI NW OF POWER INN RD INTXN.

Detailed Location:
MAPPED TO PROVIDED MAP. SACRAMENTO RIVER BANK PROTECTION PROJECT-SITE #4; 5 SITES ALONG THE LOWER AMERICAN RIVER (LAR). SITE HAD BANK PROTECTION INSTALLED TO PROTECT FROM LATERAL EROSION, MITIGATION MEASURES CONDUCTED ON-SITE.

Ecological:
SURVIVAL RATE FOR ELDERBERRY SHRUBS APPROXIMATELY 90%; SHRUBS PLANTED IN 1999. VEGETATION GROWING WELL (2009). HABITAT GENERALLY COMPOSED OF COTTONWOOD AND SYCAMORE. UPWARDS OF 22 SHRUBS HAVE HAD SIGNS OF VELB OCCUPANCY VARIOUS LAR SITES.

Threats:
General:
NO VELB OR EXIT HOLES OBSERVED IN 2001 & 2004-05. EXIT HOLES ESTIMATED TO BE 1 YEAR OLD OBS IN 2006. UNK NUMBER OF EXIT HOLES DETECTED IN 2007, 2008, & 2009 (1 FEMALE). REPORT FOR 2010 SURVEYS HAD NO INFORMATION REGARDING VELB DETECTIONS.

PLSS: T08N, R05E, Sec. 10 (M)	Accuracy: nonspecific area	Area (acres): 31
UTM: Zone-10 N4269191 E637561	Latitude/Longitude: 38.56052 / -121.42114	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

BUC01R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - STATUS OF HABITAT MITIGATION AND MONITORING FOR LOWER AMERICAN RIVER PROJECT: SITES 1, 2, 3, AND 4 2001-12-21
BUC04R0001	BUCK, P. - LOWER AMERICAN RIVER PROJECT (YEAR 5) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2004-12-XX
BUC05R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - LOWER AMERICAN RIVER PROJECT (YEAR 6) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2005-12-XX
BUC06R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 7 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2006-12-XX
BUC08R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-04-XX
CRO10R0001	CROSBIE, L. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT, LOWER AMERICAN RIVER SITES YEAR 11 MITIGATION MONITORING REPORT 2010-12-XX
SAC08R0001	SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-09-30
SAC09R0001	SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 10 MITIGATION MONITORING REPORT 2009-12-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	95214	EO Index:	96353
Key Quad:	Sacramento East (3812154)	Element Code:	IICOL48011
Occurrence Number:	280	Occurrence Last Updated:	2015-05-07

Scientific Name:	<i>Desmocerus californicus dimorphus</i>	Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3T2		
	State: S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	2009-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2009-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	SAC AREA FLOOD CONTROL AGENCY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG S BANK OF AMERICAN RIVER, JUST NW OF I-80 BRIDGE, ABOUT 0.7 MI SSW OF TRIBUTE RD & EXPOSITION BLVD INTERSECTION.

Detailed Location:
 MAPPED TO PROVIDED MAP. SACRAMENTO RIVER BANK PROTECTION PROJECT-SITE #2; 5 SITES ALONG THE LOWER AMERICAN RIVER (LAR). 2005 & 2006 SURVEYS CONDUCTED AS PART OF STUDY EVALUATING SITE CONDITIONS AND SUCCESS OF VELB, EXACT LOCATION UNK.

Ecological:
 SURVIVAL RATE FOR ELDERBERRY SHRUBS APPROXIMATELY 90%; SHRUBS PLANTED IN 1999. HABITAT COMPOSED OF COTTONWOOD, ALDER, BOX ELDER, ROSE, ARROYO WILLOW, & SANDBAR WILLOW. UPWARDS OF 22 SHRUBS HAVE HAD SIGNS OF VELB OCCUPANCY VARIOUS LAR SITES.

Threats:
General:
 NO VELB OR EXIT HOLES OBSERVED IN 2001 & 2004. REPORTED AS "PRESENT" DURING 2005 & 2006 SURVEYS. UNKNOWN NUMBER OF EXIT HOLE OBSERVED IN 2007, 2008, & 2009. REPORT FOR 2010 SURVEYS HAD NO INFORMATION REGARDING VELB DETECTIONS.

PLSS:	T09N, R05E, Sec. 32 (M)	Accuracy:	nonspecific area	Area (acres):	53
UTM:	Zone-10 N4272258 E635016	Latitude/Longitude:	38.58854 / -121.44975	Elevation (feet):	30

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

BUC01R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - STATUS OF HABITAT MITIGATION AND MONITORING FOR LOWER AMERICAN RIVER PROJECT: SITES 1, 2, 3, AND 4 2001-12-21
BUC04R0001	BUCK, P. - LOWER AMERICAN RIVER PROJECT (YEAR 5) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2004-12-XX
BUC05R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - LOWER AMERICAN RIVER PROJECT (YEAR 6) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2005-12-XX
BUC06R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 7 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2006-12-XX
BUC08R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-04-XX
CRO10R0001	CROSBIE, L. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT, LOWER AMERICAN RIVER SITES YEAR 11 MITIGATION MONITORING REPORT 2010-12-XX
HOL08R0002	HOLYOAK, M. & M. KOCH-MUNZ (UNIVERSITY OF CALIFORNIA, DAVIS) - THE EFFECTS OF SITE CONDITIONS AND MITIGATION PRACTICES ON SUCCESS OF ESTABLISHING THE VALLEY ELDERBERRY LONGHORN BEETLE AND ITS HOST PLANT, BLUE ELDERBERRY 2008-XX-XX
SAC08R0001	SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-09-30
SAC09R0001	SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 10 MITIGATION MONITORING REPORT 2009-12-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95215	EO Index: 96354
Key Quad: Sacramento East (3812154)	Element Code: IICOL48011
Occurrence Number: 281	Occurrence Last Updated: 2015-05-20

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	Micro Habitat: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.
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Last Date Observed: 2009-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-XX-XX	Occurrence Rank: Unknown
Owner/Manager: SAC AREA FLOOD CONTROL AGENCY	Trend: Unknown
Presence: Presumed Extant	

Location:
S BANK OF AMERICAN RIVER, NEAR HWY 160 BRIDGE, ABOUT 0.7 MI E OF RICHARDS BLVD & 7TH ST INTERSECTION, SACRAMENTO.

Detailed Location:
MAPPED TO PROVIDED MAP. SACRAMENTO RIVER BANK PROTECTION PROJECT-SITE #1; 5 SITES ALONG THE LOWER AMERICAN RIVER (LAR).

Ecological:
SURVIVAL RATE FOR ELDERBERRY SHRUBS APPROXIMATELY 90%; SHRUBS PLANTED IN 1999. HABITAT COMPOSED OF COTTONWOOD, ALDER, BOX ELDER, ROSE, AND SANDBAR WILLOW.

Threats:
General:
NO VELB OR EXIT HOLES OBSERVED IN 2001, 2004, & 2006. UNKNOWN NUMBER OF EXIT HOLES OBSERVED IN 2005, 2007, 2008, & 2009. REPORT FOR 2010 SURVEYS HAD NO INFORMATION REGARDING VELB DETECTIONS, ONLY ELDERBERRY SHRUB HEALTH ASSESSED.

PLSS: T09N, R05E, Sec. 31 (M)	Accuracy: nonspecific area	Area (acres): 45
UTM: Zone-10 N4273043 E632582	Latitude/Longitude: 38.59598 / -121.47754	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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- Sources:**
- BUC01R0001 BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - STATUS OF HABITAT MITIGATION AND MONITORING FOR LOWER AMERICAN RIVER PROJECT: SITES 1, 2, 3, AND 4 2001-12-21
 - BUC04R0001 BUCK, P. - LOWER AMERICAN RIVER PROJECT (YEAR 5) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2004-12-XX
 - BUC05R0001 BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - LOWER AMERICAN RIVER PROJECT (YEAR 6) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2005-12-XX
 - BUC06R0001 BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 7 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2006-12-XX
 - BUC08R0001 BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-04-XX
 - CRO10R0001 CROSBIE, L. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT, LOWER AMERICAN RIVER SITES YEAR 11 MITIGATION MONITORING REPORT 2010-12-XX
 - SAC08R0001 SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-09-30
 - SAC09R0001 SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 10 MITIGATION MONITORING REPORT 2009-12-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95226	EO Index: 96356
Key Quad: Carmichael (3812153)	Element Code: IICOL48011
Occurrence Number: 282	Occurrence Last Updated: 2015-02-19

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	Micro Habitat: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.
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Last Date Observed: 2013-05-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2013-05-13	Occurrence Rank: Good
Owner/Manager: SAC AREA FLOOD CONTROL AGENCY	Trend: Unknown
Presence: Presumed Extant	

Location:
N BANK OF AMERICAN RIVER, ~0.4 MI S OF JACOB LN AT AMERICAN RIVER DR, 1 MI NNW OF HWY 50 AT BRADSHAW RD, E SACRAMENTO.

Detailed Location:
MAPPED TO PROVIDED MAP. SACRAMENTO RIVER BANK PROTECTION PROJECT-SITE 11.6R, SITE ALONG THE LOWER AMERICAN RIVER SERVING AS OFF-SITE MITIGATION FOR PROJECT SITE #5.

Ecological:
ELDERBERRY SHRUBS PLANTED IN 2000-2001. AN ADDITIONAL 100 SHRUBS PLANTED IN 2004. HABITAT COMPOSED OF OREGON ASH, BOX ELDER, SANDBAR WILLOW, SYCAMORE, AND CALIFORNIA BLACKBERRY.

Threats:
General:
NO VELB OR EXIT HOLES OBSERVED IN 2004-2006. UNKNOWN NUMBER OF EXIT HOLES OBS IN 2007. 1 FEMALE BEETLE & UNK NUMBER OF EXIT HOLES OBSERVED IN BOTH 2008 & 2009. 2010 REPORT LACKING DATA FOR VELB DETECTIONS. 3 ADULTS OBS 13 MAY 2013.

PLSS: T08N, R06E, Sec. 05 (M)	Accuracy: nonspecific area	Area (acres): 51
UTM: Zone-10 N4271283 E643886	Latitude/Longitude: 38.57837 / -121.34814	Elevation (feet): 45

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

BUC04R0001	BUCK, P. - LOWER AMERICAN RIVER PROJECT (YEAR 5) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2004-12-XX
BUC05R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - LOWER AMERICAN RIVER PROJECT (YEAR 6) MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5, AND OFFSITE MITIGATION AREAS AT RM 0.9R, RM 3.3R, 11.6R 2005-12-XX
BUC06R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 7 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2006-12-XX
BUC08R0001	BUCK, P. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-04-XX
CRO10R0001	CROSBIE, L. (SACRAMENTO AREA FLOOD CONTROL AGENCY) - SACRAMENTO RIVER BANK PROTECTION PROJECT, LOWER AMERICAN RIVER SITES YEAR 11 MITIGATION MONITORING REPORT 2010-12-XX
KAH13F0001	KAHLER, H. (U.S. FISH AND WILDLIFE SERVICE) - FIELD SURVEY FORM FOR DESMOCERUS CALIFORNICUS DIMORPHUS 2013-05-13
SAC08R0001	SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 8 MITIGATION MONITORING REPORT. BANK PROTECTION SITES 1-5.OFFSITE MITIGATION SITES RM 0.9R, RM 3.3R, 11.6R. 2008-09-30
SAC09R0001	SACRAMENTO AREA FLOOD CONTROL AGENCY - SACRAMENTO RIVER BANK PROTECTION PROJECT LOWER AMERICAN RIVER SITES YEAR 10 MITIGATION MONITORING REPORT 2009-12-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95231	EO Index: 96367
Key Quad: Sacramento West (3812155)	Element Code: IICOL48011
Occurrence Number: 283	Occurrence Last Updated: 2015-03-04

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	Micro Habitat: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.
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Last Date Observed: 1949-05-06	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1949-05-06	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SACRAMENTO, VICINITY OF I-5 AND I-80 INTERCHANGE.

Detailed Location:
MAPPED GENERALLY TO SACRAMENTO, NEAR SACRAMENTO RIVER. PROVIDED LOCATION DESCRIPTION GIVEN ONLY AS "SACRAMENTO." EXACT LOCATION OF COLLECTIONS UNKNOWN, THIS OCCURRENCE SERVES AS A PLACEHOLDER.

Ecological:
ALLOTYPES AND PARATYPES COLLECTED IN 1921 COMPOSED OF 2 MALES AND 2 FEMALES (USNM #24678); COLLECTED ON ELDERBERRY.

Threats:
General:
ALLOTYPES/PARATYPES COLLECTED MAY-JUN 1921. INDIVIDUAL BEETLES COLLECTED ON 2 MAY 1926, 17 MAY 1944, 21 MAY 1944 (4 COLLECTED), 1 JUN 1948, AND 6 MAY 1949. COLLECTIONS HELD AT UC BERKELEY ESSIG MUSEUM OF ENTOMOLOGY ID# EMEC61120-61127.

PLSS: T08N, R04E, Sec. 02 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4269963 E630188	Latitude/Longitude: 38.56859 / -121.50559	Elevation (feet): 15

County Summary: Sacramento, Yolo	Quad Summary: Sacramento East (3812154), Sacramento West (3812155)
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Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

FIS21A0001	FISHER, W. - A NEW CERAMBYCID BEETLE FROM CALIFORNIA. PROCEEDINGS OF THE ENTOMOLOGICAL SOCIETY OF WASHINGTON, 23:2006-2008 (1921) 1921-12-XX
HAM44S0001	HAMSHER, C.A. (UNIVERSITY OF CALIFORNIA, BERKELEY) - ESSIG MUSEUM OF ENTOMOLOGY #EMEC61127 COLLECTED AT "SACRAMENTO" 1944-05-17
MCC44S0001	MCCLAY, A.T. (UNIVERSITY OF CALIFORNIA, BERKELEY) - ESSIG MUSEUM OF ENTOMOLOGY #EMEC61122 COLLECTED AT "SACRAMENTO" 1944-05-21
MCC44S0002	MCCLAY, A.T. (UNIVERSITY OF CALIFORNIA, BERKELEY) - ESSIG MUSEUM OF ENTOMOLOGY #EMEC61123 COLLECTED AT "SACRAMENTO" 1944-05-21
MCC44S0003	MCCLAY, A.T. (UNIVERSITY OF CALIFORNIA, BERKELEY) - ESSIG MUSEUM OF ENTOMOLOGY #EMEC61124 COLLECTED AT "SACRAMENTO" 1944-05-21
MCC44S0004	MCCLAY, A.T. (UNIVERSITY OF CALIFORNIA, BERKELEY) - ESSIG MUSEUM OF ENTOMOLOGY #EMEC61126 COLLECTED AT "SACRAMENTO" 1944-05-21
MCC48S0001	MCCLAY, A.T. (UNIVERSITY OF CALIFORNIA, BERKELEY) - ESSIG MUSEUM OF ENTOMOLOGY #EMEC61121 COLLECTED AT "SACRAMENTO" 1948-06-01
MCC49S0001	MCCLAY, A.T. (UNIVERSITY OF CALIFORNIA, BERKELEY) - ESSIG MUSEUM OF ENTOMOLOGY #EMEC61120 COLLECTED AT "SACRAMENTO" 1949-05-06
THO21S0001	THOMPSON, B. (U.S. NATIONAL MUSEUM OF NATURAL HISTORY) - USNM ENTOMOLOGY 24678 COLLECTED IN SACRAMENTO 1921-05-03
WIL26S0001	WILSON, C.C. (UNIVERSITY OF CALIFORNIA, BERKELEY) - ESSIG MUSEUM OF ENTOMOLOGY #EMEC61125 COLLECTED AT "SACRAMENTO" 1926-05-02



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	95266	EO Index:	96405
Key Quad:	Carmichael (3812153)	Element Code:	IICOL48011
Occurrence Number:	293	Occurrence Last Updated:	2015-02-19

Scientific Name:	<i>Desmocerus californicus dimorphus</i>	Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3T2		
	State: S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	2008-04-28	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2008-04-28	Occurrence Rank:	Unknown
Owner/Manager:	SAC COUNTY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ~0.1 MI SW OF CLAYTON WAY & CRONDALL DR INTERSECTION, 0.7 MI SE OF WATT AVE & FAIR OAKS BLVD INTERSECTION, SACRAMENTO.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES. ALONG THE NORTHERN BANK OF THE LOWER AMERICAN RIVER, SMALL RIPARIAN CORRIDOR BETWEEN THE RIVER AND RESIDENTIAL HOUSING.

Ecological:
 LARGE ELDERBERRY SHRUB COMPLEX. URBAN HOUSING AND AMERICAN RIVER PARKWAY LANDS SURROUND COMPLEX.

Threats:
 POSSIBLE THREAT DUE TO LEVEE MAINTENANCE ACTIVITIES.

General:
 1 ADULT BEETLE DETECTED ON 28 APR 2008.

PLSS: T08N, R06E, Sec. 06 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4270285 E641913	Latitude/Longitude: 38.56969 / -121.37098	Elevation (feet): 50

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:
 WEI08F0004 WEINRICH, D. (U.S. FISH AND WILDLIFE SERVICE-SACRAMENTO) - FIELD SURVEY FORM FOR DESMOCERUS CALIFORNICUS DIMORPHUS 2008-04-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95285	EO Index: 96424
Key Quad: Citrus Heights (3812163)	Element Code: IICOL48011
Occurrence Number: 294	Occurrence Last Updated: 2015-03-16

Scientific Name: <i>Desmocerus californicus dimorphus</i>	Common Name: valley elderberry longhorn beetle
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists:
CNDDB Element Ranks:	
Global: G3T2	
State: S2	

General Habitat: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	Micro Habitat: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.
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Last Date Observed: 2006-09-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-09-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG AMERICAN RIVER, VICINITY OF SACRAMENTO BAR, ABOUT 0.1 TO 2 MILES DOWNSTREAM OF SUNRISE BLVD BRIDGE, SACRAMENTO.

Detailed Location:
1976 LOCATION WAS LOWER SUNRISE RECREATIONAL AREA. 1982 SURVEY LOCATION DESCRIBED AS "ROSSMOOR BAR... ABOUT 0.2 MI N OF INTERSECTION OF AMBASSADOR DR AND EL MANTO DR." 1985 SURVEY CONDUCTED IN THE VICINITY OF SACRAMENTO BAR.

Ecological:
ELDERBERRY SAVANNAH, LIVE OAK WOODLAND, VALLEY OAK WOODLAND, OLD FIELDS, DREDGE TAILING PONDS, AND DREDGE TRAILING OLD FIELDS. UNDERSTORY COMPOSED OF ELYMUS TRITICOIDES, CONIUM MACULATUM, SOME VITUS CALIFORNICUS, AND RUBUS SPECIES.

Threats:
General:
~37 EXIT HOLES (EH) IN 1976. AT LEAST 1 OBS ON 3 MAY 1982. SEVERAL EH WERE OBS ON 31 MAY 1985; AT LEAST 4 EH CLASSIFIED AS "RECENT," W/ 1 POTENTIALLY FROM 1985, THE OTHERS LIKELY FROM 1984. REPORTED AS "PRESENT" DURING APR-SEP 2006 SURVEYS.

PLSS: T09N, R06E, Sec. 23 (M)	Accuracy: nonspecific area	Area (acres): 515
UTM: Zone-10 N4276688 E649592	Latitude/Longitude: 38.62611 / -121.28150	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Carmichael (3812153), Citrus Heights (3812163)
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Sources:

ARN82F0001	ARNOLD, R.A. - FIELD SURVEY FORM FOR DESMOCERUS CALIFORNICUS DIMORPHUS 1982-XX-XX
EYA76R0001	EYA, B.K. - REPORT ON THE DISTRIBUTION & STATUS OF A LONGHORN BEETLE, DESMOCERUS CALIFORNICUS DIMORPHUS (COLEOPTERA: CERAMBYCIDAE). OBTAINED THROUGH DR. LARRY ENG. 1976-XX-XX
FWS84R0002	U.S. FISH & WILDLIFE SERVICE - RECOVERY PLAN FOR THE VALLEY ELDERBERRY LONGHORN BEETLE. 1984-XX-XX
HOL08R0002	HOLYOAK, M. & M. KOCH-MUNZ (UNIVERSITY OF CALIFORNIA, DAVIS) - THE EFFECTS OF SITE CONDITIONS AND MITIGATION PRACTICES ON SUCCESS OF ESTABLISHING THE VALLEY ELDERBERRY LONGHORN BEETLE AND ITS HOST PLANT, BLUE ELDERBERRY 2008-XX-XX
SEE85R0001	LARRY SEEMAN & ASSOCIATES, INC. - AMERICAN RIVER CORRIDOR BEETLE STUDY 1985-08-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 95289

EO Index: 96428

Key Quad: Folsom (3812162)

Element Code: IICOL48011

Occurrence Number: 296

Occurrence Last Updated: 2015-02-23

Scientific Name: *Desmocerus californicus dimorphus*

Common Name: valley elderberry longhorn beetle

Listing Status: **Federal:** Threatened

Rare Plant Rank:

State: None

Other Lists:

CNDDDB Element Ranks: **Global:** G3T2

State: S2

General Habitat:

OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).

Micro Habitat:

PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed: 1985-06-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1985-06-XX

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

AMERICAN RIVER, VICINITY OF SAILOR BAR, ABOUT 1.3 AIR MILES W OF NIMBUS DAM, 1.3 MILES E OF SUNRISE BLVD, SACRAMENTO.

Detailed Location:

MAPPED BY CNDDDB IN THE VICINITY OF SAILOR BAR ALONG THE AMERICAN RIVER; EXACT LOCATION OF BEETLES UNKNOWN.

Ecological:

Threats:

General:

3 BEETLES OBSERVED DURING MAY-JUN 1985 SURVEYS CONDUCTED BY R. ARNOLD.

PLSS: T09N, R07E, Sec. 17 (M)

Accuracy: nonspecific area

Area (acres): 277

UTM: Zone-10 N4277891 E652953

Latitude/Longitude: 38.63638 / -121.24264

Elevation (feet): 100

County Summary:

Sacramento

Quad Summary:

Folsom (3812162), Citrus Heights (3812163)

Sources:

ARN85U0001 ARNOLD, R.A. (ENTOMOLOGICAL CONSULTING SERVICES) - LETTER TO JACK PARNELL, DIRECTOR, DFG PROVIDING COLLECTION DATA FOR VELB. 1985-09-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 60652	EO Index: 60688
Key Quad: Carmichael (3812153)	Element Code: IICOL5V010
Occurrence Number: 5	Occurrence Last Updated: 2005-03-29

Scientific Name: <i>Hydrochara rickseckeri</i>	Common Name: Ricksecker's water scavenger beetle
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2?	
State: S2?	

General Habitat: AQUATIC.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 1997-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-XX-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
MATHER FIELD REGIONAL PARK.

Detailed Location:
NO OTHER LOCATION INFORMATION GIVEN.

Ecological:

Threats:

General:
ONE SPECIMEN COLLECTED.

PLSS: T08N, R06E, Sec. 13 (M)	Accuracy: specific area	Area (acres): 1,605
UTM: Zone-10 N4267728 E651496	Latitude/Longitude: 38.54508 / -121.26159	Elevation (feet): 140

County Summary: Sacramento	Quad Summary: Buffalo Creek (3812152), Carmichael (3812153)
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Sources:
JSA97R0002 JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 59353	EO Index: 59389
Key Quad: Citrus Heights (3812163)	Element Code: IHHYM35210
Occurrence Number: 3	Occurrence Last Updated: 2012-05-09

Scientific Name: <i>Andrena subapasta</i>	Common Name: an andrenid bee
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G1G2	
State: S1S2	

General Habitat: COLLECTS POLLEN PRIMARILY FROM ARENARIA CALIFORNICA BUT ALSO ORTHOCARPUS ERIANTHUS & LASTHENIA SP.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 1932-03-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1932-03-12	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ROSEVILLE.

Detailed Location:
RECORD DATES FROM 1932, SO OLDER AREA OF ROSEVILLE MAPPED.

Ecological:
FEMALES OF THIS SPECIES COLLECT POLLEN PRIMARILY FROM ARENARIA, BUT ALSO ORTHOCARPUS ERIANTHUS AND LASTHENIA SP.

Threats:

General:
FEMALE COLLECTED 12 MAR 1932 BY E. FOURNESS, IN COLLECTION OF AMERICAN MUSEUM OF NATURAL HISTORY.

PLSS: T10N, R06E, Sec. 02 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4290414 E648982	Latitude/Longitude: 38.74985 / -121.28555	Elevation (feet): 160

County Summary: Placer	Quad Summary: Citrus Heights (3812163), Roseville (3812173)
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Sources:

FOU32S0001	FOURNESS, E. - ANDRENA SUBAPASTA SPECIMEN AMNH_BEE00110380 1932-03-12
THO69A0002	THORP, R. (UNIVERSITY OF CALIFORNIA, DAVIS) - SYSTEMATICS AND ECOLOGY OF BEES OF THE SUBGENUS DIANDRENA (HYMENOPTERA: ANDRENIDAE). UNIVERSITY OF CALIFORNIA PUBLICATIONS IN ENTOMOLOGY, VOL. 52. PARTIAL COPY. 1969-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 59354	EO Index: 59390
Key Quad: Citrus Heights (3812163)	Element Code: IHHYM35210
Occurrence Number: 4	Occurrence Last Updated: 2012-05-09

Scientific Name: <i>Andrena subapasta</i>	Common Name: an andrenid bee
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G1G2	
State: S1S2	

General Habitat: COLLECTS POLLEN PRIMARILY FROM ARENARIA CALIFORNICA BUT ALSO ORTHOCARPUS ERIANTHUS & LASTHENIA SP.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 1954-04-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1954-04-18	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
FAIR OAKS.

Detailed Location:
EXACT LOCATION UNKNOWN; SPECIMEN LOCALITY STATES "FAIR OAKS."

Ecological:
FEMALES OF THIS SPECIES COLLECT POLLEN PRIMARILY FROM ARENARIA, BUT ALSO ORTHOCARPUS ERIANTHUS AND LASTHENIA SP.

Threats:

General:
FEMALE COLLECTED 18 APR 1954 BY R.R. SNELLING, IN COLLECTION OF AMERICAN MUSEUM OF NATURAL HISTORY.

PLSS: T09N, R06E, Sec. 12 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4278860 E650386	Latitude/Longitude: 38.64555 / -121.27192	Elevation (feet): 170

County Summary: Sacramento	Quad Summary: Citrus Heights (3812163)
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Sources:

SNE54S0001	SNELLING, R.R. - ANDRENA SUBAPASTA AMNH_BEE00110381 1954-04-18
THO69A0002	THORP, R. (UNIVERSITY OF CALIFORNIA, DAVIS) - SYSTEMATICS AND ECOLOGY OF BEES OF THE SUBGENUS DIANDRENA (HYMENOPTERA: ANDRENIDAE). UNIVERSITY OF CALIFORNIA PUBLICATIONS IN ENTOMOLOGY, VOL. 52. PARTIAL COPY. 1969-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	80869	EO Index:	81811
Key Quad:	Liberty Island (3812136)	Element Code:	PDAPI19030
Occurrence Number:	223	Occurrence Last Updated:	2010-11-29

Scientific Name:	<i>Lilaeopsis masonii</i>	Common Name:	Mason's lilaeopsis
Listing Status:	Federal: None State: Rare	Rare Plant Rank:	1B.1
CNDDB Element Ranks:	Global: G2 State: S2	Other Lists:	

General Habitat:	Micro Habitat:
FRESHWATER AND BRACKISH MARSHES, RIPARIAN SCRUB.	TIDAL ZONES, IN MUDDY OR SILTY SOIL FORMED THROUGH RIVER DEPOSITION OR RIVER BANK EROSION. 0-10 M.

Last Date Observed:	2009-09-17	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2009-09-17	Occurrence Rank:	Good
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ALONG THE SACRAMENTO DEEP WATER SHIP CHANNEL FROM PROSPECT ISLAND NORTH TO THE VICINITY OF GARCIA BEND.

Detailed Location:
 MAPPED AS 29 POLYGONS STRETCHING OVER 16 MILES ACCORDING TO 2010 DWR DIGITAL DATA.

Ecological:
 EXPOSED TIDAL MUD FLATS AND LOGS WITH HYDROCOTYLE, SCIRPUS, CALAMAGROSTIS, CYPERUS ERAGROSTIS, SYMPHYOTRICHUM LENTUM, JUNCUS XIPHIODES, AND PASPALUM. SOME AREAS ARE IN SHADE OF ALDERS AND RIPARIAN TREES.

Threats:
 EROSION AND RECREATION ARE THREATS.

General:
 MANY SCATTERED PATCHES OBSERVED IN 2009.

PLSS: T06N, R03E, Sec. 10 (M)	Accuracy: specific area	Area (acres): 794
UTM: Zone-10 N4248115 E619600	Latitude/Longitude: 38.37324 / -121.63082	Elevation (feet):

County Summary:	Quad Summary:
Solano, Yolo	Liberty Island (3812136), Clarksburg (3812145), Saxon (3812146)

Sources:
 DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 82633	EO Index: 83618
Key Quad: Sacramento West (3812155)	Element Code: PDASTE8470
Occurrence Number: 195	Occurrence Last Updated: 2013-12-20

Scientific Name: <i>Symphytotrichum lentum</i>	Common Name: Suisun Marsh aster
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: MARSHES AND SWAMPS (BRACKISH AND FRESHWATER).	Micro Habitat: MOST OFTEN SEEN ALONG SLOUGHS WITH PHRAGMITES, SCIRPUS, BLACKBERRY, TYPHA, ETC. 0-3 M.
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Last Date Observed: 2013-10-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2013-10-23	Occurrence Rank: Unknown
Owner/Manager: DFG-YOLO BYPASS WA	Trend: Unknown
Presence: Presumed Extant	

Location:
SW END OF GREENS LAKE, YOLO WILDLIFE AREA, BETWEEN WEST SACRAMENTO AND DAVIS.

Detailed Location:
MAPPED BY CNDDDB AS 2 POLYGONS IN THE SW 1/4 OF THE NW 1/4 AND THE NW 1/4 OF THE SW 1/4 OF SECTION 12.

Ecological:
ASSOCIATED WITH POLYGONUM AMPHIBIUM, SCHOENOPLECTUS ACUTUS, CYNODON DACTYLON, SALIX GOODINGII, FRAXINUS LATIFOLIA, LOLIUM MULTIFLORUM, POLYGONUM LAPATHIFOLIUM, EUTHAMIA OCCIDENTALIS, TOXICODENDRON DIVERSILOBUM, LEPIDIUM LATIFOLIUM, ETC.

Threats:
SITE MODERATELY IMPACTED BY COMPETITION WITH EXOTICS.

General:
OBSERVED DURING 2005 VEGETATION SURVEYS. SCATTERED CLUMPS IN 2013. PRESTON BELIEVES THIS OCCURRENCE IS NOT S. LENTUM BUT ANOTHER, POSSIBLY UNDESCRIBED, TAXON. PLANTS IN AREA MAY BE "S. LENTUM VAR. MEDIUM." KEPT UNDER S. LENTUM FOR NOW.

PLSS: T08N, R03E, Sec. 12 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4268452 E621917	Latitude/Longitude: 38.55615 / -121.60077	Elevation (feet): 1

County Summary: Yolo	Quad Summary: Sacramento West (3812155)
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Sources:

PRE13F0003	PRESTON, R. (ICF INTERNATIONAL, INC.) - FIELD SURVEY FORM FOR SYMPHYOTRICHUM LENTUM 2013-10-23
VEG05F0213	VEGETATION CLASSIFICATION AND MAPPING PROGRAM (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR SYMPHYOTRICHUM LENTUM 2005-09-12
VEG05F0215	VEGETATION CLASSIFICATION AND MAPPING PROGRAM (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR SYMPHYOTRICHUM LENTUM 2005-09-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 80988	EO Index: 81938
Key Quad: Clarksburg (3812145)	Element Code: PDBRA1M0K1
Occurrence Number: 12	Occurrence Last Updated: 2013-07-29

Scientific Name: <i>Lepidium latipes</i> var. <i>heckardii</i>	Common Name: Heckard's pepper-grass
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat: GRASSLAND, AND SOMETIMES VERNAL POOL EDGES. ALKALINE SOILS. 2-200 M.
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Last Date Observed: 2010-03-29	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-03-29	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST SW OF STONE LAKE; APPROXIMATELY 1.75 AIR MILES WNW OF JUNCTION OF I-5 AND HOOD FRANKLIN ROAD, SOUTH OF SACRAMENTO.

Detailed Location:
MAPPED ACCORDING TO 2010/2011 DWR DIGITAL DATA.

Ecological:
SLOPE ALONGSIDE A DITCH, EDGE OF POOL. ASSOCIATED WITH MEDICAGO, GRINDELIA, PLAGIOBOTHRYDS, HEMIZONIA, AND CERASTIUM.

Threats:
DISTURBED BY GRAZING.

General:
150 PLANTS OBSERVED IN 2009. 400 PLANTS OBSERVED IN 2010.

PLSS: T06N, R04E, Sec. 11 (M)	Accuracy: specific area	Area (acres): 1
UTM: Zone-10 N4249295 E630361	Latitude/Longitude: 38.38236 / -121.50745	Elevation (feet): 5

County Summary: Sacramento	Quad Summary: Clarksburg (3812145)
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Sources:

DWR10D0001	CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29
DWR11D0001	CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 89790
Key Quad: Florin (3812144)
Occurrence Number: 15

EO Index: 90798
Element Code: PDBRA1M0K1
Occurrence Last Updated: 2013-07-29

Scientific Name: *Lepidium latipes var. heckardii*

Common Name: Heckard's pepper-grass

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G4T2
 State: S2

Rare Plant Rank: 1B.2
Other Lists:

General Habitat:

VALLEY AND FOOTHILL GRASSLAND.

Micro Habitat:

GRASSLAND, AND SOMETIMES VERNAL POOL EDGES. ALKALINE SOILS. 2-200 M.

Last Date Observed: 2010-03-29
Last Survey Date: 2010-03-29
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Fair
Trend: Unknown

Location:

JUST SOUTH OF STONE LAKE; ~1.2 AIR MILES WNW OF JUNCTION OF I-5 AND HOOD FRANKLIN RD, SOUTH OF SACRAMENTO.

Detailed Location:

2 SITES MAPPED BY CNDDDB AS A SINGLE POLYGON ACCORDING TO 2011 DWR DIGITAL DATA. MAPPED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 12.

Ecological:

NEAR POOL AND PONDED AREA. ASSOCIATED WITH PLAGIOBOTHRYDS, CERASTIUM, ERODIUM CICUTARIUM, MEDICAGO, GRINDELIA, MYOSURUS, POA ANNUA, HEMIZONIA, LOLIUM, RUMEX, CAMOMILLA, ELEOCHARIS, AND LEPIDIUM LATIPES VAR. LATIPES.

Threats:

CATTLE GRAZING.

General:

575 PLANTS OBSERVED IN 2010.

PLSS: T06N, R04E, Sec. 12 (M)
UTM: Zone-10 N4249045 E631002

Accuracy: specific area
Latitude/Longitude: 38.38002 / -121.50016

Area (acres): 2
Elevation (feet): 6

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 26044	EO Index: 5241
Key Quad: Rio Linda (3812164)	Element Code: PDCAM060C0
Occurrence Number: 32	Occurrence Last Updated: 1994-08-08

Scientific Name: <i>Downingia pusilla</i>	Common Name: dwarf downingia
Listing Status:	Rare Plant Rank: 2B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: GU	
State: S2	

General Habitat: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.	Micro Habitat: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-445 M.
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Last Date Observed: 1994-04-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-04-04	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 800 FEET DUE SOUTH OF THE WEST END OF DELANO ROAD, BETWEEN RIO LINDA AND ELVERTA.

Detailed Location:
DELANO ROAD IS JUST SOUTH OF ELVERTA ROAD AND NORTH OF U STREET.

Ecological:
GRASSLAND WITH SEASONAL WETLANDS AND VERNAL POOLS. ASSOCIATED WITH RANUNCULUS BONARIENSIS VAR. TRISEPALUS AND PLAGIOBOTHRYUS STIPITATUS VAR. MICRANTHUS.

Threats:
General:
 100+ PLANTS OBSERVED IN 1994. SITE IS NEAR A MICROWAVE TOWER AND A DIRT PARKING AREA. PLANNED ACCESS ROADS NEARBY WILL AVOID THE SITE. MAPPED AS SAME SITE AS 1951 COLLECTION BY CARTER FROM KEITHLY RANCH, RIO LINDA.

PLSS: T10N, R05E, Sec. 19 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4285496 E632468	Latitude/Longitude: 38.70819 / -121.47648	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

CAR51S0001	CARTER, A. - CARTER #3015 CAS, JEPS #22252, UC #1101471 1951-04-01
CRU34S0002	CRUM, E. - CRUM #1603 UC #903069 1934-04-01
MAS34S0007	MASON, H. - MASON #7935 JEPS #18420, UC #769993 1934-03-25
YOR94F0001	YORK, R. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1994-04-04



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 26056	EO Index: 5238
Key Quad: Elk Grove (3812143)	Element Code: PDCAM060C0
Occurrence Number: 54	Occurrence Last Updated: 2011-03-22

Scientific Name: <i>Downingia pusilla</i>	Common Name: dwarf downingia
Listing Status:	Rare Plant Rank: 2B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: GU	
State: S2	

General Habitat: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.	Micro Habitat: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-445 M.
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Last Date Observed: 2002-04-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-04-02	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
EAST SIDE OF WATERMAN ROAD, BETWEEN SHELDON ROAD AND BOND ROAD, ELK GROVE.

Detailed Location:
IN THE SW 1/4 OF THE NW 1/4 OF SECTION 29. BETWEEN LAGUNA CREEK AND THE TRANSMISSION LINES, IN VERNAL POOLS VP18 & VP20.

Ecological:
DEEP, CENTRAL PORTIONS OF VERNAL POOLS, DOMINATED BY ALLOCARYA STIPITATA MICRANTHA, RANUNCULUS BONARIENSIS TRISEPALUS, ERYNGIUM VASEYI VALLICOLA, GLYCERIA DECLINATA, TRIFOLIUM WILLDENOVII, AND ELEOCHARIS MACROSTACHYA.

Threats:
POOLS IN AREA HEAVILY DAMAGED BY EXHAUSTIVE DAIRY CATTLE GRAZING. THREATENED WITH DEVELOPMENT.

General:
APPROXIMATELY 200 PLANTS OBSERVED IN WESTERN POOL IN 1991. IN 2002, 2 PLANTS WERE FOUND IN THE WESTERN POOL AND APPROXIMATELY 50 WERE SEEN IN THE EASTERN POOL.

PLSS: T07N, R06E, Sec. 29 (M)	Accuracy: specific area	Area (acres): 0
UTM: Zone-10 N4254957 E643989	Latitude/Longitude: 38.43128 / -121.35032	Elevation (feet): 55

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

DAI91F0013	DAINS, V. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1991-04-26
DAI91R0001	DAINS, V. & R. HOLLAND - SPECIAL STATUS SPECIES SURVEY FOR SHELDON LAKES SUBDIVISION SITE, SACRAMENTO COUNTY, CALIFORNIA 1991-07-10
ROB02F0004	ROBISON, R. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 2002-04-02
ROB02R0001	ROBISON, R. - SHELDON LAKES RARE PLANT SURVEY REPORT 2002-08-07
WIT91F0023	WITHAM, C. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1991-04-26



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 26057	EO Index: 5237
Key Quad: Elk Grove (3812143)	Element Code: PDCAM060C0
Occurrence Number: 55	Occurrence Last Updated: 2011-09-13

Scientific Name: <i>Downingia pusilla</i>	Common Name: dwarf downingia
Listing Status:	Rare Plant Rank: 2B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: GU	
State: S2	

General Habitat: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.	Micro Habitat: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-445 M.
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Last Date Observed: 1991-04-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-04-XX	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTHWEST CORNER OF BOND ROAD AND WATERMAN ROAD, ELK GROVE.

Detailed Location:
TWO CONCENTRATIONS OF PLANTS MAPPED; ONE ALONG EAST SIDE OF WATERMAN ABOUT 0.2 MILE NORTH OF BOND. THE OTHER IS ABOUT 0.35 MILE WEST OF WATERMAN AND 0.1 MILE NORTH OF BOND.

Ecological:
6 POPULATIONS IN NATURAL POOLS; 2 POPULATIONS IN SCRAPED DEPRESSIONS. NATURAL POOLS HAVE A WELL DEVELOPED NATIVE FLORA. LEGENERE LIMOSA ALSO OCCURS IN ONE POOL.

Threats:
AS OF 1991 THE CURRENT USE WAS GRAZING; DEVELOPMENT PLAN WAS BEING PREPARED.

General:
300 PLANTS OBSERVED IN 1991. QUALITY OF NATURAL POOLS IS EXCELLENT, QUALITY OF SCRAPED DEPRESSIONS IS FAIR.

PLSS: T07N, R06E, Sec. 30 (M)	Accuracy: specific area	Area (acres): 12
UTM: Zone-10 N4254377 E643607	Latitude/Longitude: 38.42612 / -121.35481	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
DAI91F0007 DAINS, V. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1991-04-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 26055	EO Index: 5239
Key Quad: Florin (3812144)	Element Code: PDCAM060C0
Occurrence Number: 56	Occurrence Last Updated: 2011-09-13

Scientific Name: <i>Downingia pusilla</i>	Common Name: dwarf downingia
Listing Status:	Rare Plant Rank: 2B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: GU	
State: S2	

General Habitat: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.	Micro Habitat: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-445 M.
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Last Date Observed: 2010-05-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-05-13	Occurrence Rank: Good
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST OF I-5 AT THE ELK GROVE BLVD INTERCHANGE, ELK GROVE.

Detailed Location:
SEVERAL COLONIES MAPPED BY CNDDDB AS 7 POLYGONS ACCORDING TO 2010 AND 2011 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES. IN THE SW 1/4 OF THE SE 1/4 OF SECTION 36 AND THE NORTH HALF OF THE NE 1/4 OF SECTION 1.

Ecological:
VERNAL POOLS SURROUNDED BY ANNUAL GRASSLAND. ASSOCIATED WITH ALLOCARYA UNDULATA, A. STIPITATA MICRANTHA, PSILOCARPUS BREVISSIMUS, ALOPECURUS SACCATUS, ERYNGIUM ARISTULATUM, AND LOLIUM MULTIFLORUM. SOILS ARE SAN JOAQUIN SILTY LOAM.

Threats:
PAST ROAD CONSTRUCTION MAY HAVE INFLUENCED HYDROLOGY. THREATENED BY GRAZING, VEHICLE TRAVEL, AND GLYCERIA DECLINATA.

General:
HUNDREDS TO THOUSANDS OF PLANTS OBSERVED IN 1990. 500 PLANTS OBSERVED IN 2009. 1161 PLANTS REPORTED IN 2010.

PLSS: T06N, R04E, Sec. 01 (M)	Accuracy: specific area	Area (acres): 9
UTM: Zone-10 N4252231 E631925	Latitude/Longitude: 38.40858 / -121.48900	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Florin (3812144)
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- Sources:**
- DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29
 - DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23
 - RAN90F0001 RANLETT, J. ET AL. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1990-04-16
 - STO90F0003 STONE, R. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1990-04-15
 - STO90F0004 STONE, R. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1990-04-15
 - STO90F0005 STONE, R. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1990-04-20



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	26045	EO Index:	5240
Key Quad:	Rio Linda (3812164)	Element Code:	PDCAM060C0
Occurrence Number:	57	Occurrence Last Updated:	1997-08-11

Scientific Name:	<i>Downingia pusilla</i>	Common Name:	dwarf downingia
Listing Status:	Federal: None State: None	Rare Plant Rank:	2B.2
CNDDDB Element Ranks:	Global: GU State: S2	Other Lists:	

General Habitat:	Micro Habitat:
VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.	VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-445 M.

Last Date Observed:	1991-05-26	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1997-06-18	Occurrence Rank:	None
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Extirpated		

Location:
0.2 MILE SOUTH OF ELVERTA ROAD AND 0.6 MILE EAST OF 16TH STREET, RIO LINDA.

Detailed Location:
LOCATED ABOUT 0.5 MILE SOUTHWEST OF GIBSON RANCH COUNTY PARK, NORTH OF DRY CREEK.

Ecological:
GROWING ON BORDER OF A CREATED PONDED DEPRESSION IN ASSOCIATION WITH GRATIOLA EBRACTEATA, DOWNINGIA ORNATISSIMA, AND ELEOCHARIS MACROSTACHYA. WAS NOT A TYPICAL VERNAL POOL BUT A SEMI-PERMANANT MARSH WITH WILLOWS AND TULE.

Threats:
General:
50 PLANTS OBSERVED IN 1991. SITE EXTIRPATED, CONVERTED TO A SUBDIVISION BY 1997. FORMER POPULATION SITE IS NOW NEAR THE EAST END OF RUSHING RIVER COURT OFF OF CHERRY BROOK DRIVE.

PLSS:	T10N, R05E, Sec. 22 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4285955 E637569	Latitude/Longitude:	38.71154 / -121.41774	Elevation (feet):	75

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
DAI91F0008 DAINS, V. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1991-05-26
NOS97F0011 NOSAL, T. ET AL. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1997-06-18



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 26042	EO Index: 5243
Key Quad: Rio Linda (3812164)	Element Code: PDCAM060C0
Occurrence Number: 58	Occurrence Last Updated: 1997-08-11

Scientific Name: <i>Downingia pusilla</i>	Common Name: dwarf downingia
Listing Status:	Rare Plant Rank: 2B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: GU	
State: S2	

General Habitat: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.	Micro Habitat: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-445 M.
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Last Date Observed: 1993-04-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-06-18	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
 UNDER TRANSMISSION LINE WEST OF EAST LEVEE ROAD AND 1 MILE NORTH OF ELKHORN BLVD, RIO LINDA.

Detailed Location:
 APPROXIMATELY 600 FEET WEST OF EAST LEVEE ROAD IMMEDIATELY SOUTH OF TWIN TRANSMISSION LINE TOWERS. WITHIN THE NE 1/4 OF THE NE 1/4 OF SECTION 25.

Ecological:
 NORTHERN HARDPAN VERNAL POOL DOMINATED BY PLAGIOBOTHRYUS STIPITATUS VAR. MICRANTHUS AND HEMIZONIA. LINDERIELLA OCCIDENTALIS HAS ALSO BEEN OBSERVED IN THIS POOL.

Threats:
 MAY HAVE BEEN DISKED IN THE PAST; NO PRESENT DISTURBANCES.

General:
 50 PLANTS OBSERVED IN 1993. POTENTIAL DISTURBANCE TO SITE IF LANDOWNER SELLS TOPSOIL AND LEVELS THE AREA FOR AGRICULTURE AS NEIGHBORING LANDOWNERS HAVE ALREADY DONE. HABITAT INTACT IN 1997, BUT NO PLANTS SEEN (SURVEY WAS TOO LATE).

PLSS: T10N, R04E, Sec. 25 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4284528 E631498	Latitude/Longitude: 38.69961 / -121.48781	Elevation (feet): 30

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

LEA93F0003	LEACH, S. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1993-04-22
NOS97F0010	NOSAL, T. ET AL. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1997-06-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 26043	EO Index: 5242
Key Quad: Rio Linda (3812164)	Element Code: PDCAM060C0
Occurrence Number: 59	Occurrence Last Updated: 2013-10-31

Scientific Name: <i>Downingia pusilla</i>	Common Name: dwarf downingia
Listing Status:	Rare Plant Rank: 2B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: GU	
State: S2	

General Habitat: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.	Micro Habitat: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-445 M.
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Last Date Observed: 1993-05-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-06-18	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.6 AIR MILE SOUTH OF ELVERTA ROAD JUST WEST OF EAST LEVEE ROAD, WEST OF RIO LINDA.

Detailed Location:
VERNAL POOL ON SOUTH SIDE OF GRAVEL ACCESS ROAD TO PRIVATE PROPERTY. WITHIN THE NE 1/4 OF THE SE 1/4 OF SECTION 24.

Ecological:
NORTHERN HARDPAN VERNAL POOL ON SAN JOAQUIN SOILS. ASSOCIATED WITH PLAGIOBOTHRYUS STIPITATUS VAR. MICRANTHUS, ERYNGIUM VASEYI, LASTHENIA GLABERRIMA, RANUNCULUS BONARIENSIS VAR. TRISEPALUS, AND LIMNANTHES DOUGLASII.

Threats:
AGRICULTURE; SITE IS USED FOR A MIXED SPECIES FORAGE CROP (HAY).

General:
OVER 150 PLANTS IN 1993. OWNER HAS INDICATED THAT HE PLANS TO LEVEL THE SITE AND SELL SURFACE MATERIAL TO SAC METRO AIRPORT FOR ONGOING DEVELOPMENT. CA LINDERIELLA ALSO HERE. NO PLANTS SEEN IN 1997 (SURVEYED LATE), BUT HABITAT WAS INTACT.

PLSS: T10N, R04E, Sec. 24 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4285236 E631603	Latitude/Longitude: 38.70598 / -121.48647	Elevation (feet): 28

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

LEA93F0002	LEACH, S. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1993-05-12
NOS97F0009	NOSAL, T. ET AL. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 1997-06-18



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 70823	EO Index: 71736
Key Quad: Rio Linda (3812164)	Element Code: PDCAM060C0
Occurrence Number: 127	Occurrence Last Updated: 2008-02-13

Scientific Name: <i>Downingia pusilla</i>	Common Name: dwarf downingia
Listing Status:	Rare Plant Rank: 2B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: GU	
State: S2	

General Habitat: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.	Micro Habitat: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-445 M.
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Last Date Observed: 2006-05-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-05-03	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST EAST OF PALLADAY ROAD (KNOW ROAD), 1.1 ROAD MILES SOUTH OF ITS INTERSECTION WITH BASE LINE ROAD, ROSEVILLE.

Detailed Location:
VERNAL POOL SOUTH OF DIRT DRIVEWAY. IN THE NW 1/4 OF THE SE 1/4 OF SECTION 9.

Ecological:
IN MIDDLE OF VERNAL POOL. ASSOCIATED WITH PLAGIOBOTHRYIS STIPITATUS VAR. MICRANTHUS, LASTHENIA GLABERRIMA, GRATIOLA EBRACTEATA, DOWNINGIA BICORNUTA, AND DOWNINGIA ORNATISSIMA.

Threats:
IN 2006 DEVELOPMENT WAS PLANNED FOR THIS SITE. HEAVY HORSE GRAZING WAS NOTED IN 2005.

General:
200 PLANTS OBSERVED IN 2006.

PLSS: T10N, R05E, Sec. 09 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4288654 E635840	Latitude/Longitude: 38.73612 / -121.43708	Elevation (feet): 60

County Summary: Placer	Quad Summary: Rio Linda (3812164)
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Sources:
ROB06F0016 ROBISON, R. - FIELD SURVEY FORM FOR DOWNINGIA PUSILLA 2006-05-03



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30207	EO Index: 8195	
Key Quad: Elk Grove (3812143)	Element Code: PDCAM0C010	
Occurrence Number: 27	Occurrence Last Updated: 2006-12-27	

Scientific Name: <i>Legenere limosa</i>	Common Name: legenere
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: IN BEDS OF VERNAL POOLS. 1-880 M.
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Last Date Observed: 1991-04-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-04-XX	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTHWEST CORNER OF BOND ROAD AND WATERMAN ROAD, ELK GROVE.

Detailed Location:
FIVE SUB-POPULATIONS FOUND IN NATURAL VERNAL POOLS AND FIVE IN DISTURBED/CREATED SEASONAL DEPRESSIONS.

Ecological:
NATURAL AND CREATED VERNAL POOLS/SEASONAL DEPRESSIONS. ASSOCIATES IN NATURAL POOLS INCLUDE ELEOCHARIS MACROSTACHYA, LASTHENIA GLABERRIMA, GRATIOLA HETEROSEPALA, AND DOWNINGIA PUSILLA.

Threats:
CATTLE GRAZING, DEVELOPMENT PLANNED FOR THIS SITE AS OF 1991.

General:
THOUSANDS OF PLANTS OBSERVED AT THIS SITE IN 1991. NATURAL POOLS ARE OF EXCELLENT QUALITY; CREATED DEPRESSIONS ARE OF FAIR QUALITY. MOST OF THE LEGENERE POPULATIONS WILL BE PRESERVED ALTHOUGH SOME LESSER QUALITY POOLS WILL BE DESTROYED.

PLSS: T07N, R06E, Sec. 30 (M)	Accuracy: specific area	Area (acres): 35
UTM: Zone-10 N4254626 E643142	Latitude/Longitude: 38.42844 / -121.36009	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
DAI91F0010 DAINS, V. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 1991-04-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30205	EO Index: 4847	
Key Quad: Elk Grove (3812143)	Element Code: PDCAM0C010	
Occurrence Number: 28	Occurrence Last Updated: 1995-11-14	

Scientific Name: <i>Legenere limosa</i>	Common Name: legenere
Listing Status:	
Federal: None	Rare Plant Rank: 1B.1
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: IN BEDS OF VERNAL POOLS. 1-880 M.
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Last Date Observed: 1988-03-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-03-26	Occurrence Rank: Excellent
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH FLORIN COUNTY PARK, ABOUT 1 MILE SOUTH OF FLORIN ROAD AND 0.7 MILE EAST OF EXCELSIOR ROAD, NORTHEAST OF ELK GROVE.

Detailed Location:
LOCATED NEAR THE SOUTHERN BORDER OF THE PARK (PRE-DEVELOPMENT). FOUR COLONIES MAPPED WITHIN THE S 1/2 OF THE SE 1/4 OF SECTION 2.

Ecological:
VERNAL POOLS. ASSOCIATED WITH ELEOCHARIS MACROSTACHYS AND LASTHENIA GLABERRIMA.

Threats:
PARK SLATED FOR DEVELOPMENT (1988).

General:
ABOUT 100 PLANTS OBSERVED WITHIN THE PARK (INCLUDING OCCURRENCE #29). POPULATION MAY BE LOW DUE TO DRY YEAR. SITE IS RELATIVELY UNDISTURBED/UNGRAZED. HIGH QUALITY SEASONAL WETLAND.

PLSS: T07N, R06E, Sec. 02 (M)	Accuracy: specific area	Area (acres): 19
UTM: Zone-10 N4260767 E649657	Latitude/Longitude: 38.48269 / -121.28417	Elevation (feet): 90

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
DAI88F0003 DAINS, V. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 1988-03-26



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	30204	EO Index:	4848
Key Quad:	Elk Grove (3812143)	Element Code:	PDCAM0C010
Occurrence Number:	29	Occurrence Last Updated:	1995-11-14

Scientific Name:	<i>Legenere limosa</i>	Common Name:	legenere
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.1
CNDDB Element Ranks:	Global: G2 State: S2	Other Lists:	BLM_S-Sensitive

General Habitat:	Micro Habitat:
VERNAL POOLS.	IN BEDS OF VERNAL POOLS. 1-880 M.

Last Date Observed:	1988-03-26	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1988-03-26	Occurrence Rank:	Excellent
Owner/Manager:	SAC COUNTY-PARKS & REC	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 SOUTH FLORIN COUNTY PARK, ABOUT 0.2 MILE SOUTH OF FLORIN ROAD AND 0.7 MILE EAST OF EXCELSIOR RD, NORTHEAST OF ELK GROVE.

Detailed Location:
 LOCATED NEAR THE NORTH-CENTRAL PORTION OF THE PARK (PRE-DEVELOPMENT). TWO COLONIES MAPPED ALONG AN EPHEMERAL DRAINAGE IN THE W 1/2 OF THE NE 1/4 OF SECTION 2.

Ecological:
 VERNAL POOLS. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA AND LASTHENIA GLABERRIMA.

Threats:
 PARK SLATED FOR DEVELOPMENT (1988).

General:
 ABOUT 100 PLANTS OBSERVED WITHIN THE PARK (INCLUDING OCCURRENCE #28). POPULATION MAY BE LOW DUE TO DRY YEAR. ONLY A FEW PLANTS SEEN AT EACH LOCATION. SITE IS RELATIVELY UNDISTURBED/UNGRAZED. THESE ARE HIGH QUALITY SEASONAL WETLANDS.

PLSS: T07N, R06E, Sec. 02 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4261835 E649578	Latitude/Longitude: 38.49232 / -121.28485	Elevation (feet): 110

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
 DAI88F0003 DAINS, V. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 1988-03-26



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30206	EO Index: 4853	
Key Quad: Elk Grove (3812143)	Element Code: PDCAM0C010	
Occurrence Number: 30	Occurrence Last Updated: 2011-07-14	

Scientific Name: <i>Legenere limosa</i>	Common Name: legenere
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: IN BEDS OF VERNAL POOLS. 1-880 M.
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Last Date Observed: 2002-04-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-04-02	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTHEAST CORNER OF THE INTERSECTION OF SHELDON ROAD AND WATERMAN ROAD, ELK GROVE.

Detailed Location:
FOUR COLONIES IN THE SOUTH 1/2 OF THE NW 1/4 OF SECTION 29. IN POOLS VP15, VP20, VP23, AND SWALE SW2.

Ecological:
LARGE SEASONAL WETLAND AND VERNAL POOL WITHIN A DAIRY PASTURE. DOMINANTS INCLUDE LASTHENIA GLABERRIMA, ALLOCARYA BRACTEATUS, ELEOCHARIS MACROSTACHYA, RANUNCULUS BONARIENSIS VAR. TRISEPALUS, AND PLAGIOBOTHRYS STIPITATUS VAR. MICRANTHUS.

Threats:
HEAVILY DAMAGED BY CATTLE GRAZING; HOME DEVELOPMENT IN AREA.

General:
300-400 PLANTS OBSERVED IN 1991 IN THE THREE WESTERN COLONIES. 2200 OBSERVED IN 2002 IN ALL FOUR COLONIES COMBINED.

PLSS: T07N, R06E, Sec. 29 (M)	Accuracy: specific area	Area (acres): 2
UTM: Zone-10 N4255045 E644212	Latitude/Longitude: 38.43204 / -121.34775	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

DAI91F0014	DAINS, V. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 1991-05-06
DAI91R0001	DAINS, V. & R. HOLLAND - SPECIAL STATUS SPECIES SURVEY FOR SHELDON LAKES SUBDIVISION SITE, SACRAMENTO COUNTY, CALIFORNIA 1991-07-10
ROB02F0006	ROBISON, R. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 2002-04-02
ROB02R0001	ROBISON, R. - SHELDON LAKES RARE PLANT SURVEY REPORT 2002-08-07
WIT91F0024	WITHAM, C. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 1991-04-26



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 26234
Key Quad: Florin (3812144)
Occurrence Number: 31

EO Index: 14087
Element Code: PDCAM0C010
Occurrence Last Updated: 2010-04-28

Scientific Name: *Legenere limosa*

Common Name: legenere

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2
 State: S2

Rare Plant Rank: 1B.1
Other Lists: BLM_S-Sensitive

General Habitat:
VERNAL POOLS.

Micro Habitat:
IN BEDS OF VERNAL POOLS. 1-880 M.

Last Date Observed: 1993-05-06
Last Survey Date: 1993-05-06
Owner/Manager: PVT
Presence: Extirpated

Occurrence Type: Natural/Native occurrence
Occurrence Rank: None
Trend: Unknown

Location:
NORTH OF SHELDON ROAD AND 0.7 MILE EAST OF HIGHWAY 99, ELK GROVE.

Detailed Location:
MAPPED ABOUT 1/4 MILE NORTH OF SHELDON ROAD WITHIN THE SW 1/4 OF THE SW 1/4 OF SECTION 24.

Ecological:
DEEP NORTHERN CLAYPAN VERNAL POOLS ON GALT CLAY SOILS. POOLS DOMINATED BY ERYNGIUM CASTRENSE, DOWNINGIA BICORNUTA, AND LASTHENIA GLABERRIMA. OTHER ASSOCIATES INCLUDE ELEOCHARIS MACROSTACHYS AND PLAGIOBOTHRYIS STIPITATUS MICRANTHUS.

Threats:
PROPOSED HOUSING DEVELOPMENT, POOLS SCHEDULED TO BE FILLED.

General:
1993: MORE THAN 2500 PLANTS OBSERVED, POOLS IN FAIRLY GOOD SHAPE ALTHOUGH ADJACENT LAND HAD BEEN FARMED. 2009 AERIAL PHOTO SHOWS HOUSING DEVELOPMENT THROUGHOUT ENTIRE AREA.

PLSS: T07N, R05E, Sec. 24 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4256015 E640659	Latitude/Longitude: 38.44134 / -121.38825	Elevation (feet): 35

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
PRE93F0009 PRESTON, R. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 1993-05-06
PRE93S0002 PRESTON, R. - PRESTON #623 UCR #79729, DAV #126393 1993-05-06
WIT08U0003 WITHAM, C. - EMAIL TO R. BITTMAN REGARDING EXTIRPATED VERNAL POOL SITES 2008-08-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30202	EO Index: 12128	
Key Quad: Rio Linda (3812164)	Element Code: PDCAM0C010	
Occurrence Number: 32	Occurrence Last Updated: 1997-08-11	

Scientific Name: <i>Legenere limosa</i>	Common Name: legenere
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: IN BEDS OF VERNAL POOLS. 1-880 M.
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Last Date Observed: 1991-05-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-06-18	Occurrence Rank: None
Owner/Manager: PVT	Trend: Unknown
Presence: Extirpated	

Location:
SOUTH OF ELVERTA ROAD AND 0.5 MILE SOUTHWEST OF GIBSON RANCH, RIO LINDA.

Detailed Location:
MAPPED IN SEASONAL POND 0.2 MILE SOUTH OF ELVERTA ROAD AND 0.75 MILE EAST OF 16TH STREET. NEAR THE CENTER OF THE NE 1/4 OF SECTION 22.

Ecological:
ARTIFICIAL POND EXCAVATED WITHIN A VERNAL POOL LANDSCAPE. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA AND LASTHENIA GLABERRIMA IN ADDITION TO MANY WEEDY SPECIES. LARGELY OPEN GROUND.

Threats:
DEVELOPMENT IS PLANNED FOR THIS SITE.

General:
150 PLANTS SEEN IN 1991. WETLAND MITIGATION FOR THIS PROPERTY COULD INCLUDE THIS POPULATION. SITE WAS A SUBDIVISION IN 1997; FORMER POPULATION WAS UNDER INTERSECTION OF RANCH RIVER DR AND COLONNADE WAY.

PLSS: T10N, R05E, Sec. 22 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4285893 E637752	Latitude/Longitude: 38.71096 / -121.41565	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

DAI91F0011	DAINS, V. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 1991-05-26
NOS97F0005	NOSAL, T. ET AL. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 1997-06-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30203	EO Index: 16909	
Key Quad: Rio Linda (3812164)	Element Code: PDCAM0C010	
Occurrence Number: 33	Occurrence Last Updated: 1997-08-11	

Scientific Name: <i>Legenere limosa</i>	Common Name: legenere
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: IN BEDS OF VERNAL POOLS. 1-880 M.
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Last Date Observed: 1991-05-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-06-18	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
EAST OF ROSE STREET & SOUTH OF MAGPIE DRAIN, ROBLA, JUST NORTH OF SACRAMENTO.

Detailed Location:
MAPPED ABOUT 0.4 MILE NNE OF WHERE MARYSVILLE ROAD AND RIO LINDA BLVD JOIN. WITHIN THE NW 1/4 OF THE NE 1/4 OF SECTION 10.

Ecological:
SEASONAL WETLAND DOMINATED BY RANUNCULUS BONARIENSIS TRISEPALUS, PLAGIOBOTHRYUS BRACTEATUS, LASTHENIA GLABERRIMA, AND ELEOCHARIS MACROSTACHYA. FRITILLARIA AGRESTIS IS FOUND IN NEARBY GRASSLAND.

Threats:
SITE TO BE DEVELOPED, WETLAND DISKED ANNUALLY FOR FIRE BREAK; "DIRT-BIKE" USE & REFUSE DUMPING ALSO IMPACT THIS SITE.

General:
1000-10,000 PLANTS OBSERVED IN 1991. PLANTS ROBUST, UP TO 6" TALL. PORTION OF THIS SITE WILL NOT BE DEVELOPED. NO PLANTS SEEN IN 1997 (PROB TOO LATE). HABITAT STILL EXISTS.

PLSS: T09N, R05E, Sec. 10 (M)	Accuracy: specific area	Area (acres): 6
UTM: Zone-10 N4281044 E635255	Latitude/Longitude: 38.66766 / -121.44530	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Rio Linda (3812164)
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Sources:

NOS97F0004	NOSAL, T. ET AL. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 1997-06-18
WIT91F0025	WITHAM, C. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 1991-05-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 29100
Key Quad: Florin (3812144)
Occurrence Number: 40

EO Index: 30941
Element Code: PDCAM0C010
Occurrence Last Updated: 2010-04-29

Scientific Name: *Legenere limosa*

Common Name: legenere

Listing Status: **Federal:** None
 State: None
CNDDB Element Ranks: **Global:** G2
 State: S2

Rare Plant Rank: 1B.1
Other Lists: BLM_S-Sensitive

General Habitat:
 VERNAL POOLS.

Micro Habitat:
 IN BEDS OF VERNAL POOLS. 1-880 M.

Last Date Observed: 1995-05-15
Last Survey Date: 1995-05-15
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Poor
Trend: Unknown

Location:
 ABOUT 1.5 MI E OF STONE LAKE, 1.4 MI SW OF JCT FRANKLIN BLVD & ELK GROVE BLVD.

Detailed Location:
 MAPPED IN THE SE 1/4 OF SECTION 6 AND THE NE 1/4 OF SECTION 7. ORIGINAL MAP IS VAGUE; EXACT LOCATION UNKNOWN. NORTHWEST HALF OF THE OCCURRENCE IS NOW ELLIOTT RANCH ELEMENTARY SCHOOL; REMAINING HALF IS STILL UNDEVELOPED.

Ecological:
 VERNAL POOLS WITH DOWNINGIA ORNATISSIMA, NAVARRETIA LEUCOCEPHALA, CASTILLEJA EXSERTA, AND LEPIDIUM LATIPES.

Threats:
 LAND USED FOR CATTLE PRODUCTION; GRAZING THREATENS. 2009 AERIAL IMAGERY SHOWS SIGNIFICANT DEVELOPMENT IN THE AREA.

General:
 50+ PLANTS OBSERVED IN 1995. ABOUT HALF OF THE OCCURRENCE HAS BEEN DEVELOPED ACCORDING TO 2009 AERIAL IMAGERY; NEEDS FIELDWORK TO DETERMINE IF HABITAT/SPECIES IS STILL PRESENT.

PLSS: T06N, R05E, Sec. 06 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4250706 E633619	Latitude/Longitude: 38.39459 / -121.46990	Elevation (feet): 13

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 CUR95F0002 CURLETTE, J. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 1995-05-15
 WIT08U0003 WITHAM, C. - EMAIL TO R. BITTMAN REGARDING EXTIRPATED VERNAL POOL SITES 2008-08-12



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 29099
Key Quad: Florin (3812144)
Occurrence Number: 41

EO Index: 30940
Element Code: PDCAM0C010
Occurrence Last Updated: 1997-03-27

Scientific Name: *Legenere limosa*

Common Name: legenere

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2
 State: S2

Rare Plant Rank: 1B.1
Other Lists: BLM_S-Sensitive

General Habitat:
 VERNAL POOLS.

Micro Habitat:
 IN BEDS OF VERNAL POOLS. 1-880 M.

Last Date Observed: 1995-05-20
Last Survey Date: 1995-05-20
Owner/Manager: SRCSD-BUFFERLANDS
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:
 ALONG N SIDE OF SIMS ROAD, 0.15-0.4 MI E OF JCT WITH FRANKLIN BLVD.

Detailed Location:
 300 FT N OF SIMS ROAD.

Ecological:
 VERNAL POOL COMPLEX WITH LASTHENIA GLABERRIMA, RANUNCULUS BONARIENSIS, PLAGIOBOTHRYUS STIPITATUS, DOWNINGIA ORNATISSIMA, D. BICORNUTA AND LEPIDIUM LATIPES.

Threats:
 TREE PLANTING/RESTORATION ADJACENT TO VERNAL POOLS.

General:
 300 PLANTS IN 1995. SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT LAND.

PLSS: T07N, R05E, Sec. 20 (M)	Accuracy: nonspecific area	Area (acres): 12
UTM: Zone-10 N4255662 E635162	Latitude/Longitude: 38.43901 / -121.45128	Elevation (feet): 18

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 CUR95F0001 CURLETTE, J. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 1995-05-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41012	EO Index: 41012
Key Quad: Carmichael (3812153)	Element Code: PDCAM0C010
Occurrence Number: 44	Occurrence Last Updated: 2002-09-19

Scientific Name: <i>Legenere limosa</i>	Common Name: legenere
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: IN BEDS OF VERNAL POOLS. 1-880 M.
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Last Date Observed: 1999-05-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1999-05-02	Occurrence Rank: Good
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
MATHER FIELD, WEST OF ANDERS DRIVE AND BETWEEN THE AIRPORT AND MORRISON CREEK, RANCHO CORDOVA.

Detailed Location:
MAPPED IN 4 POOLS JUST EAST OF THE WASTEWATER TREATMENT PONDS. JSA POOL #S 1192, 1193, 1492, AND 1524.

Ecological:
GROWING IN VERNAL POOLS.

Threats:
General:
SEVERAL HUNDRED PLANTS OBSERVED IN 1997. UNKNOWN NUMBER OF PLANTS OBSERVED IN 1999 BY GREENHOUSE.

PLSS: T08N, R06E, Sec. 14 (M)	Accuracy: specific area	Area (acres): 12
UTM: Zone-10 N4267779 E648484	Latitude/Longitude: 38.54605 / -121.29613	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

GRE99S0001	GREENHOUSE, J. - GREENHOUSE SN JEPS #95777 1999-05-02
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41014	EO Index: 41014
Key Quad: Carmichael (3812153)	Element Code: PDCAM0C010
Occurrence Number: 45	Occurrence Last Updated: 1999-05-04

Scientific Name: <i>Legenere limosa</i>	Common Name: legenere
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: IN BEDS OF VERNAL POOLS. 1-880 M.
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Last Date Observed: 1997-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-XX-XX	Occurrence Rank: Good
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
MATHER FIELD, ABOUT 0.5 MILE WEST OF EXCELSIOR ROAD ALONG NORTH SIDE OF KIEFER BLVD, RANCHO CORDOVA.

Detailed Location:
PLANTS FOUND IN 2 NEIGHBORING POOLS, OCCURRENCE MAPPED AS A SINGLE POLYGON BY JSA AND CNDDDB. JSA POOL #1121.

Ecological:
GROWING IN VERNAL POOLS.

Threats:
General:
SEVERAL HUNDRED PLANTS OBSERVED IN 1997.

PLSS: T08N, R06E, Sec. 23 (M)	Accuracy: specific area	Area (acres): 1
UTM: Zone-10 N4266491 E649501	Latitude/Longitude: 38.53428 / -121.28474	Elevation (feet): 110

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
JSA97R0002 JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41015	EO Index: 41015
Key Quad: Carmichael (3812153)	Element Code: PDCAM0C010
Occurrence Number: 46	Occurrence Last Updated: 1999-05-04

Scientific Name: <i>Legenere limosa</i>	Common Name: legenere
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: IN BEDS OF VERNAL POOLS. 1-880 M.
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Last Date Observed: 1993-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-XX-XX	Occurrence Rank: Good
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
MATHER FIELD, ABOUT 0.1 MILE EAST OF EAGLES NEST ROAD ALONG NORTH SIDE OF KIEFER BLVD, RANCHO CORDOVA.

Detailed Location:
MAPPED IN 1 POOL JUST ENE OF THE JUNCTION OF EAGLES NEST ROAD AND KIEFER BLVD. JSA POOL #1258.

Ecological:
GROWING IN DEEP VERNAL POOL. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA, LASTHENIA GLABERRIMA, ERYNGIUM, GRATIOLA EBRACTEATA, DOWNINGIA SPP., ISOETES, AND PILULARIA AMERICANA.

Threats:
General:
ABOUT 1000 PLANTS OBSERVED IN 1993. AREA SEARCHED BUT NO PLANTS OBSERVED IN 1997.

PLSS: T08N, R07E, Sec. 19 (M)	Accuracy: specific area	Area (acres): 1
UTM: Zone-10 N4265892 E651638	Latitude/Longitude: 38.52852 / -121.26035	Elevation (feet): 135

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

JSA93R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS PLANT AND WILDLIFE SURVEY RESULTS FOR THE MATHER REDEVELOPMENT PLAN AREA, SACRAMENTO COUNTY. PREPARED FOR: SAC HOUSING & REDEVELOPMENT AGENCY 1993-08-03
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41016	EO Index: 41016	
Key Quad: Carmichael (3812153)	Element Code: PDCAM0C010	
Occurrence Number: 47	Occurrence Last Updated: 1999-05-04	

Scientific Name: <i>Legenere limosa</i>	Common Name: legenere
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: IN BEDS OF VERNAL POOLS. 1-880 M.
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Last Date Observed: 1993-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-XX-XX	Occurrence Rank: Good
Owner/Manager: SAC COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
MATHER FIELD, ABOUT 0.6 MILE EAST OF EAGLES NEST ROAD ALONG NORTH SIDE OF KIEFER BLVD, RANCHO CORDOVA.

Detailed Location:
MAPPED IN 1 POOL IMMEDIATELY NORTH OF KIEFER BLVD. JSA POOL #1390.

Ecological:
GROWING WITHIN AN INTERCONNECTED VERNAL POOL AND SWALE SYSTEM. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA, LASTHENIA GLABERRIMA, ERYNGIUM, GRATIOLA EBRACTEATA, DOWNINGIA SPP., ISOETES, AND PILULARIA AMERICANA.

Threats:
General:
ABOUT 500 PLANTS OBSERVED IN 1993. AREA SEARCHED BUT NO PLANTS OBSERVED IN 1997.

PLSS: T08N, R07E, Sec. 19 (M)	Accuracy: specific area	Area (acres): 3
UTM: Zone-10 N4265647 E652423	Latitude/Longitude: 38.52618 / -121.25141	Elevation (feet): 145

County Summary: Sacramento	Quad Summary: Buffalo Creek (3812152), Carmichael (3812153)
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Sources:

JSA93R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS PLANT AND WILDLIFE SURVEY RESULTS FOR THE MATHER REDEVELOPMENT PLAN AREA, SACRAMENTO COUNTY. PREPARED FOR: SAC HOUSING & REDEVELOPMENT AGENCY 1993-08-03
JSA97R0002	JONES & STOKES ASSOCIATES, INC. - SPECIAL STATUS SPECIES SURVEY CONDUCTED FOR THE MATHER FIELD SPECIFIC PLAN AND MATHER SINGLE-FAMILY HOUSING PROJECT. INCLUDES REPORT + MAPS. PREPARED FOR: COUNTY OF SACRAMENTO. 1997-06-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 50727	EO Index: 50727
Key Quad: Elk Grove (3812143)	Element Code: PDCAM0C010
Occurrence Number: 60	Occurrence Last Updated: 2003-03-25

Scientific Name: <i>Legenere limosa</i>	Common Name: legenere
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: IN BEDS OF VERNAL POOLS. 1-880 M.
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Last Date Observed: 2002-05-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-05-23	Occurrence Rank: Excellent
Owner/Manager: PVT-ELLIOT CONSERVANCY	Trend: Unknown
Presence: Presumed Extant	

Location:
CHURCHILL DOWNS PRESERVE, 0.9 AIR MI SOUTHWEST OF GERBER ROAD AT THE CENTRAL CALIFORNIA RAILROAD TRACKS, EAST OF FLORIN.

Detailed Location:
MAPPED WITHIN THE NE 1/4 OF THE SE 1/4 OF SECTION 7.

Ecological:
PLANTS FOUND IN VERNAL POOLS IN ASSOCIATION WITH ELEOCHARIS MACROSTACHYA, LASTHENIA GLABERRIMA, L. FREMONTII, PLAGIOBOTHRYUS SPITATUS, AND DESCHAMPSIA DANTHIOIDES.

Threats:
NONE NOTED IN 2002.

General:
THOUSANDS OF PLANTS OBSERVED IN 2002 BY STARR. PLANTS FOUND WITHIN A PRESERVE. SURROUNDED BY RESIDENTIAL DEVELOPMENT AND OPEN PASTURE.

PLSS: T07N, R06E, Sec. 07 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4259639 E643260	Latitude/Longitude: 38.47358 / -121.35771	Elevation (feet): 100

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
STA02F0010 STARR, S. (ECORP CONSULTING, INC.) - FIELD SURVEY FORM FOR LEGENERE LIMOSA 2002-05-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	62779	EO Index:	62833
Key Quad:	Elk Grove (3812143)	Element Code:	PDCAM0C010
Occurrence Number:	62	Occurrence Last Updated:	2005-10-04

Scientific Name:	<i>Legenere limosa</i>	Common Name:	legenere
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.1
CNDDB Element Ranks:	Global: G2 State: S2	Other Lists:	BLM_S-Sensitive

General Habitat:	Micro Habitat:
VERNAL POOLS.	IN BEDS OF VERNAL POOLS. 1-880 M.

Last Date Observed:	2002-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 NE CORNER OF THE INTERSECTION OF HWY 99 AND GRANT LINE RD, ELK GROVE.

Detailed Location:
 POOL IN THE AREA BOUNDED ON THE NORTH BY THE NORTHBOUND GRANT LINE RD OFFRAMP, ON THE EAST BY E STOCKTON BLVD, ON THE SOUTH BY GRANT LINE, AND ON THE WEST BY HWY 99.

Ecological:
 VERNAL POOL.

Threats:
 ROADWAY INTERCHANGE CONSTRUCTION PROJECT TO OCCUR AT THIS INTERSECTION.

General:
 ~1000 PLANTS OBSERVED IN 2002.

PLSS: T06N, R06E, Sec. 18 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4248964 E643090	Latitude/Longitude: 38.37744 / -121.36183	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
 GAU02R0001 GAUSE, M. - REPORT ON SPECIAL STATUS PLANT STUDIES FOR HWY 99 / GRANT LINE ROAD INTERCHANGE PROJECT, ELK GROVE, CA. 2002-06-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 62780	EO Index: 62834
Key Quad: Carmichael (3812153)	Element Code: PDCAM0C010
Occurrence Number: 63	Occurrence Last Updated: 2006-12-27

Scientific Name: <i>Legenere limosa</i>	Common Name: legenere
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: IN BEDS OF VERNAL POOLS. 1-880 M.
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Last Date Observed: 2003-05-20	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-05-20	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
0.5 AIR MILES NNE OF THE INTERSECTION OF HIGHWAY 16 (JACKSON HWY) AND EAGLES NEST ROAD.

Detailed Location:
IN THE NW 1/4 OF THE SW 1/4 OF SECTION 30.

Ecological:
VERNAL POOL IN OPEN, UNDULATING GRASSLAND. PLANTS FOUND IN PATCHES THROUGHOUT DEEPER AREAS OF THE POOL. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA, ERYNGIUM VASEYI, RANUNCULUS BONARIENSIS, DOWNINGIA BICORNUTA, AND PLAGIOBOTHRYIS STIPITATUS.

Threats:
RESIDENTIAL DEVELOPMENT. CATTLE GRAZING.

General:
300-500 PLANTS OBSERVED IN 2003.

PLSS: T08N, R07E, Sec. 30 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4264658 E651816	Latitude/Longitude: 38.51738 / -121.25858	Elevation (feet): 150

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
AND03F0003 ANDERSON, B. ET AL. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 2003-05-20
AND03S0001 ANDERSON, B. ET AL. - ANDERSON #4748 JEPS #105479 2003-05-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 83406
Key Quad: Florin (3812144)
Occurrence Number: 78

EO Index: 84420
Element Code: PDCAM0C010
Occurrence Last Updated: 2011-08-02

Scientific Name: *Legenere limosa*

Common Name: legenere

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2
 State: S2

Rare Plant Rank: 1B.1
Other Lists: BLM_S-Sensitive

General Habitat:
 VERNAL POOLS.

Micro Habitat:
 IN BEDS OF VERNAL POOLS. 1-880 M.

Last Date Observed: 2010-05-13
Last Survey Date: 2010-05-13
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:
 JUST WEST OF ELK GROVE BLVD JUNCTION WITH I-5, FROM ABOUT 1.5 TO 2.25 AIR MILES ESE OF CLARKSBURG.

Detailed Location:
 8 COLONIES MAPPED BY CNDDDB AS 6 POLYGONS ACCORDING TO 2011 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES.

Ecological:
 ALONG DITCH NEAR FENCE AND SCATTERED IN POOLS & WET DEPRESSIONS. ASSOCIATED WITH CALLITRICHE, PLAGIOBOTHRYIS STIPITATUS, LASTHENIA GLABERRIMA, GRASSES, RUMEX, ERYNGIUM, RANUNCULUS BONARIENSIS, ELEOCHARIS MACROSTACHYA, HORDEUM MARINUM, ETC.

Threats:
 THREATENED BY CATTLE GRAZING, TRAMPLING, POTENTIAL DISEASE, AND NON-NATIVE GLYCERIA DECLINATA.

General:
 2010 POPULATION NUMBERS FOR POLYGONS FROM EAST TO WEST: 300, 200, 100, 120, 5150, AND 1000.

PLSS: T06N, R04E, Sec. 01 (M)	Accuracy: specific area	Area (acres): 8
UTM: Zone-10 N4252250 E631692	Latitude/Longitude: 38.40879 / -121.49166	Elevation (feet): 0

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 83407
Key Quad: Florin (3812144)
Occurrence Number: 79

EO Index: 84421
Element Code: PDCAM0C010
Occurrence Last Updated: 2011-07-15

Scientific Name: *Legenere limosa*

Common Name: legenere

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2
 State: S2

Rare Plant Rank: 1B.1
Other Lists: BLM_S-Sensitive

General Habitat:
 VERNAL POOLS.

Micro Habitat:
 IN BEDS OF VERNAL POOLS. 1-880 M.

Last Date Observed: 2010-05-11
Last Survey Date: 2010-05-11
Owner/Manager: UNKNOWN
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:
 NORTH SIDE OF HOOD FRANKLIN ROAD, FROM 0.3 TO 1.3 MILES EAST OF I-5, SOUTH OF STONE LAKE.

Detailed Location:
 SEVERAL COLONIES MAPPED BY CNDDDB AS 6 POLYGONS ACCORDING TO 2010 AND 2011 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES.

Ecological:
 POOLS, ROADSIDE DITCHES, AND SWALES. ASSOC W/ PLAGIOBOTHRYIS SP., ELEOCHARIS MACROSTACHYA, E. ACICULARIS, GRATIOLA EBRACTEATA, RANUNCULUS AQUATILIS, LASTHENIA GLABERRIMA, GLYCERIA DECLINATA, LILAEA SCILLOIDES, PHYLA NODIFLORA, ETC.

Threats:
 THREATENED BY GRAZING AND ROAD MAINTENANCE.

General:
 2009: 70 PLANTS OBSERVED ALONG THE ROAD AT THE SOUTH END OF THE WESTERN POLYGON. 2010 POPULATION NUMBERS FOR POLYGONS FROM WEST TO EAST: 4117, 100, 500, 1, 10, AND 51.

PLSS: T06N, R04E, Sec. 13 (M)	Accuracy: specific area	Area (acres): 27
UTM: Zone-10 N4248698 E631642	Latitude/Longitude: 38.37680 / -121.49290	Elevation (feet): 0

County Summary: Sacramento	Quad Summary: Bruceville (3812134), Florin (3812144)
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Sources:
 DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29
 DWR11D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 83408	EO Index: 84423
Key Quad: Carmichael (3812153)	Element Code: PDCAM0C010
Occurrence Number: 81	Occurrence Last Updated: 2011-07-15

Scientific Name: <i>Legenere limosa</i>	Common Name: legenere
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: IN BEDS OF VERNAL POOLS. 1-880 M.
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Last Date Observed: 2010-06-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-06-02	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
0.83 MILES NNW OF THE INTERSECTION OF STATE ROUTE 16 (JACKSON HWY) AND EAGLES NEST ROAD, SOUTH OF MATHER AIR FORCE BASE.

Detailed Location:
MAPPED IN THE SW 1/4 OF THE NE 1/4 OF SECTION 25.

Ecological:
POOL IN OPEN GRASSLAND.

Threats:
SOME PAST DISTURBANCE; GRAZING.

General:
30-40 PLANTS OBSERVED IN 2010. SITE MAY BE A FUTURE PRESERVE.

PLSS: T08N, R06E, Sec. 25 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4265047 E651125	Latitude/Longitude: 38.52099 / -121.26642	Elevation (feet): 143

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:
AND10F0001 ANDERSON, B. - FIELD SURVEY FORM FOR LEGENERE LIMOSA 2010-06-02



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 83838
Key Quad: Florin (3812144)
Occurrence Number: 6

EO Index: 84869
Element Code: PDCUS01111
Occurrence Last Updated: 2011-10-05

Scientific Name: *Cuscuta obtusiflora* var. *glandulosa*

Common Name: Peruvian dodder

Listing Status: **Federal:** None
 State: None

Rare Plant Rank: 2B.2

Other Lists:

CNDDDB Element Ranks: **Global:** G5T4T5
 State: SH

General Habitat:
 MARSHES AND SWAMPS (FRESHWATER).

Micro Habitat:
 FRESHWATER MARSH. 15-280 M.

Last Date Observed: 1995-06-02
Last Survey Date: 1995-06-02
Owner/Manager: PVT
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Unknown
Trend: Unknown

Location:
 6104 DOUBLOON COURT, LAGUNA LAKE, NORTH OF ELK GROVE BLVD, WEST OF FOULKS RANCH ROAD, ELK GROVE.

Detailed Location:
 MAPPED AS BEST GUESS BY CNDDDB TO ENCOMPASS THE BACKYARD LAGUNA LAKE SHORELINE OF THE GIVEN ADDRESS.

Ecological:
 SUBMERGED ON MYRIOPHYLLUM SIBRICUM IN FRESHWATER POND.

Threats:
General:
 ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1995 BARBE COLLECTION ANNOTATED ONLY TO THE SPECIES. ID OF THIS SPECIMEN IS QUESTIONABLE, NEEDS FIELDWORK.

PLSS: T07N, R05E, Sec. 33 (M)	Accuracy: specific area	Area (acres): 1
UTM: Zone-10 N4252973 E636803	Latitude/Longitude: 38.41454 / -121.43301	Elevation (feet):

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 BAR95S0007 BARBE, G. - BARBE #4466 UC #1778597 & #1776765, RSA #671135, CHSC #79721 1995-06-02



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 89775	EO Index: 90783
Key Quad: Sacramento West (3812155)	Element Code: PDFAB0F8R3
Occurrence Number: 17	Occurrence Last Updated: 2013-07-26

Scientific Name: <i>Astragalus tener var. ferrisiae</i>	Common Name: Ferris' milk-vetch
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G2T1	
State: S1	

General Habitat: MEADOWS, VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat: SUBALKALINE FLATS ON OVERFLOW LAND IN THE CENTRAL VALLEY; USUALLY SEEN IN DRY, ADOBE SOIL. 5-75M.
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Last Date Observed: 1954-04-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1954-04-27	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
YOLO COUNTY: CAUSEWAY.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB ALONG THE YOLO CAUSEWAY.

Ecological:
Threats:

General:
ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1954 COLLECTION BY PETERS. NEEDS FIELDWORK.

PLSS: T08N, R03E, Sec. 02 (M)	Accuracy: nonspecific area	Area (acres): 201
UTM: Zone-10 N4269810 E621058	Latitude/Longitude: 38.56850 / -121.61039	Elevation (feet):

County Summary: Yolo	Quad Summary: Sacramento West (3812155), Davis (3812156)
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Sources:
PET54S0001 PETERS, E. - ELWOOD SN DAV #105342 1954-04-27



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 83564
Key Quad: Florin (3812144)
Occurrence Number: 37

EO Index: 84596
Element Code: PDFAB400R5
Occurrence Last Updated: 2011-08-19

Scientific Name: *Trifolium hydrophilum*

Common Name: saline clover

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2
 State: S2

Rare Plant Rank: 1B.2
Other Lists:

General Habitat:

MARSHES AND SWAMPS, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.

Micro Habitat:

MESIC, ALKALINE SITES. 0-300 M.

Last Date Observed: 2009-04-27

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2009-04-27

Occurrence Rank: Fair

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

WEST SIDE OF I-5, ABOUT 0.5 AIR MILE NNW OF INTERSECTION WITH ELK GROVE BLVD.

Detailed Location:

MAPPED IN THE APPROXIMATE CENTER OF THE EAST HALF OF SECTION 36 ACCORDING TO 2010 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES.

Ecological:

DRIED DEPRESSION DOMINATED BY LOLIUM MULTIFLORUM.

Threats:

General:

100 PLANTS OBSERVED IN 2009.

PLSS: T07N, R04E, Sec. 36 (M)

Accuracy: specific area

Area (acres): 1

UTM: Zone-10 N4253030 E632149

Latitude/Longitude: 38.41575 / -121.48629

Elevation (feet): 10

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 83566	EO Index: 84598	
Key Quad: Florin (3812144)	Element Code: PDFAB400R5	
Occurrence Number: 38	Occurrence Last Updated: 2011-08-22	

Scientific Name: <i>Trifolium hydrophilum</i>	Common Name: saline clover
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: MARSHES AND SWAMPS, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.	Micro Habitat: MESIC, ALKALINE SITES. 0-300 M.
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Last Date Observed: 2010-05-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-05-13	Occurrence Rank: Good
Owner/Manager: DPR, UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
EAST SIDE OF ELK GROVE BLVD INTERSECTION WITH I-5, NORTH OF STONE LAKE.

Detailed Location:
SEVERAL COLONIES MAPPED BY CNDDDB AS 11 POLYGONS ACCORDING TO 2010 AND 2011 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES. WITHIN THE NORTH HALF OF SECTION 1 AND THE SOUTH HALF OF SECTION 36.

Ecological:
SEASONALLY WET GRASSLANDS, SWALES, AND DEPRESSIONS. ASSOCIATED WITH HORDEUM MARINUM, LASTHENIA CALIFORNICA, L. GLABERRIMA, LOLIUM MULTIFLORUM, DOWNINGIA BICORNUTA VAR. BICORNUTA, CRESSA TRUXILLENIS, ERYNGIUM SP., CONVULVULUS ARVENSIS, ETC.

Threats:
THREATENED BY GRAZING AND NON-NATIVE SPECIES.

General:
26,134 PLANTS OBSERVED IN 2009. 4,622 PLANTS OBSERVED IN 2010.

PLSS: T06N, R04E, Sec. 01 (M)	Accuracy: specific area	Area (acres): 34
UTM: Zone-10 N4252169 E631753	Latitude/Longitude: 38.40805 / -121.49098	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

DWR10D0001	CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29
DWR11D0001	CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 83567	EO Index: 84599	
Key Quad: Florin (3812144)	Element Code: PDFAB400R5	
Occurrence Number: 39	Occurrence Last Updated: 2011-08-22	

Scientific Name: <i>Trifolium hydrophilum</i>	Common Name: saline clover
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: MARSHES AND SWAMPS, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.	Micro Habitat: MESIC, ALKALINE SITES. 0-300 M.
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Last Date Observed: 2009-04-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-04-28	Occurrence Rank: Good
Owner/Manager: DPR	Trend: Unknown
Presence: Presumed Extant	

Location:
BETWEEN STONE LAKE AND I-5, FROM ABOUT 1.8 TO 2.5 AIR MILES NORTHWEST OF FRANKLIN.

Detailed Location:
SEVERAL COLONIES MAPPED BY CNDDDB AS 9 POLYGONS ACCORDING TO 2010 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES. WITHIN THE SOUTH HALF OF SECTION 1 AND THE NORTH HALF OF THE NE 1/4 OF SECTION 12.

Ecological:
SEASONALLY WET GRASSLANDS, VERNAL POOLS, AND DEPRESSIONS. ASSOC W/ PLAGIOBOTHRYIS, JUNCUS BUFONIS, HORDEUM MARINUM, DOWNINGIA BICORNUTA, MATRICARIA, ERYNGIUM CASTRENSE, VULPIA BROMOIDES, LEPIDIUM LATIPES LATIPES, LASTHENIA GLABERRIMA, ETC.

Threats:
THREATENED BY GRAZING AND INVASION BY NON-NATIVE SPECIES.

General:
2580 PLANTS OBSERVED IN 2009.

PLSS: T06N, R04E, Sec. 01 (M)	Accuracy: specific area	Area (acres): 14
UTM: Zone-10 N4250899 E632328	Latitude/Longitude: 38.39652 / -121.48464	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	83568	EO Index:	84600
Key Quad:	Florin (3812144)	Element Code:	PDFAB400R5
Occurrence Number:	40	Occurrence Last Updated:	2011-08-22

Scientific Name:	<i>Trifolium hydrophilum</i>		Common Name:	saline clover
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2
	State:	None	Other Lists:	
CNDDDB Element Ranks:	Global:	G2		
	State:	S2		

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.	MESIC, ALKALINE SITES. 0-300 M.

Last Date Observed:	2010-05-11	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2010-05-11	Occurrence Rank:	Good
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 NORTH SIDE OF HOOD FRANKLIN ROAD, FROM ABOUT 1.2 TO 1.9 AIR MILES ENE OF HOOD.

Detailed Location:
 SEVERAL COLONIES MAPPED BY CNDDDB AS 7 POLYGONS ACCORDING TO 2010 AND 2011 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES. WITHIN THE NORTH HALF OF SECTION 13 AND THE SE 1/4 OF SW 1/4 OF SECTION 12.

Ecological:
 GRASSLAND FIELDS, SWALES, VERNAL POOLS, AND DITCHES. ASSOCIATED WITH HORDEUM MARINUM, LOLIUM MULTIFLORUM, LASTHENIA CALIFORNICA, L. CHRYSANTHA, AND PLAGIOBOTHRYS.

Threats:
 THREATENED BY GRAZING AND NON-NATIVE GRASSES.

General:
 710 PLANTS OBSERVED IN 2009. 200 PLANTS OBSERVED IN NORTHERNMOST POLYGON IN 2010.

PLSS:	T06N, R04E, Sec. 13 (M)	Accuracy:	specific area	Area (acres):	12
UTM:	Zone-10 N4248937 E631719	Latitude/Longitude:	38.37894 / -121.49197	Elevation (feet):	10

County Summary:	Quad Summary:
Sacramento	Bruceville (3812134), Florin (3812144)

Sources:

DWR10D0001	CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29
DWR11D0001	CALIFORNIA DEPARTMENT OF WATER RESOURCES - DELTA HABITAT CONSERVATION AND CONVEYANCE PROGRAM / BAY DELTA CONSERVATION PLAN SURVEY DATA 2010 2011-03-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	83569	EO Index:	84601
Key Quad:	Clarksburg (3812145)	Element Code:	PDFAB400R5
Occurrence Number:	41	Occurrence Last Updated:	2011-08-22

Scientific Name:	<i>Trifolium hydrophilum</i>	Common Name:	saline clover
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDDB Element Ranks:	Global: G2 State: S2	Other Lists:	

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.	MESIC, ALKALINE SITES. 0-300 M.

Last Date Observed:	2009-04-30	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2009-04-30	Occurrence Rank:	Good
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 NORTHWEST OF STONE LAKE, ABOUT 1.3 AIR MILES SOUTHEAST OF CLARKSBURG AND ABOUT 1 AIR MILE NORTHEAST OF ROSEBUD LANDING.

Detailed Location:
 TWO COLONIES MAPPED IN THE SE 1/4 OF THE NE 1/4 OF SECTION 2 ACCORDING TO 2010 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES.

Ecological:
 GRASSLAND SWALES.

Threats:
 THREATENED BY EXOTIC GRASSES.

General:
 30 PLANTS OBSERVED IN NORTHERN COLONY AND 10,000 PLANTS OBSERVED IN SOUTHERN COLONY IN 2009.

PLSS: T06N, R04E, Sec. 02 (M)	Accuracy: specific area	Area (acres): 1
UTM: Zone-10 N4251626 E630752	Latitude/Longitude: 38.40331 / -121.50255	Elevation (feet): 10

County Summary:	Quad Summary:
Sacramento	Clarksburg (3812145)

Sources:
 DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 17206

EO Index: 9845

Key Quad: Rio Vista (3812126)

Element Code: PDJUG02040

Occurrence Number: 3

Occurrence Last Updated: 2002-11-21

Scientific Name: *Juglans hindsii*

Common Name: Northern California black walnut

Listing Status: **Federal:** None

Rare Plant Rank: 1B.1

State: None

Other Lists: SB_USDA-US Dept of Agriculture

CNDDB Element Ranks: **Global:** G1

State: S1

General Habitat:

RIPARIAN FOREST, RIPARIAN WOODLAND. FEW EXTANT NATIVE STANDS REMAIN; WIDELY NATURALIZED.

Micro Habitat:

DEEP ALLUVIAL SOIL ASSOCIATED WITH A CREEK OR STREAM. 0-440 M.

Last Date Observed: XXXX-XX-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2002-10-XX

Occurrence Rank: None

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Extirpated

Location:

ALONG THE SACRAMENTO RIVER, BETWEEN FREEPORT AND RIO VISTA, MOSTLY AT WALNUT GROVE.

Detailed Location:

TREES WERE ALONG BOTH SIDES OF RIVER.

Ecological:

ON HIGH SPOTS ALONG THE BANK.

Threats:

TREES NO LONGER REMAIN AT THIS SITE, THEY WERE CUT PRIOR TO 1949 ACCORDING TO SMITH, 1949.

General:

SITE EXTIRPATED ACCORDING TO CALLIZO (2002).

PLSS: T05N, R04E, Sec. 05 (M)

Accuracy: nonspecific area

Area (acres): 5,631

UTM: Zone-10 N4240809 E624659

Latitude/Longitude: 38.30672 / -121.57422

Elevation (feet): 0

County Summary:

Sacramento, Solano, Yolo

Quad Summary:

Isleton (3812125), Rio Vista (3812126), Courtland (3812135), Florin (3812144), Clarksburg (3812145)

Sources:

CAL02F0001 CALLIZO, C. - FIELD SURVEY FORM FOR JUGLANS HINDSII 2002-10-XX

FUL78U0002 FULLER, T. - CNPS STATUS REPORT FOR JUGLANS HINDSII 1978-XX-XX

SMI49A0001 SMITH, R. - "LAS NUECES Y BOLBONES" PACIFIC DISCOVERY, NOV-DEC 1949. 1949-XX-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 24959	EO Index: 6338
Key Quad: Sacramento West (3812155)	Element Code: PDMALOH0R3
Occurrence Number: 110	Occurrence Last Updated: 1994-01-13

Scientific Name: <i>Hibiscus lasiocarpus var. occidentalis</i>	Common Name: woolly rose-mallow
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden
State: None	
CNDDB Element Ranks:	
Global: G5T2	
State: S2	

General Habitat: MARSHES AND SWAMPS (FRESHWATER).	Micro Habitat: MOIST, FRESHWATER-SOAKED RIVER BANKS & LOW PEAT ISLANDS IN SLOUGHS; CAN ALSO OCCUR ON RIPRAP AND LEVEES. IN CALIFORNIA, KNOWN FROM THE DELTA WATERSHED. 0-120 M.
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Last Date Observed: 1988-08-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-08-04	Occurrence Rank: Poor
Owner/Manager: CALTRANS	Trend: Unknown
Presence: Presumed Extant	

Location:
ON-RAMP TO EASTBOUND I-80 FROM WEST EL CAMINO AVE., NORTH OF SACRAMENTO.

Detailed Location:
1/2 MILE NORTH OF SWALLOWS NEST GOLF COURSE IN DRAINAGE DITCH NEXT TO THE ON-RAMP.

Ecological:
DRY DRAINAGE DITCH WITH MANY WEEDY TAXA. ECHINOCHLOA CRUSGALLII, SORGHUM HALAPENSE, PICRIS ECHIOIDES, CONVULVULUS ARVENSIS, AND RUMEX CRISPUS. HELIOTROPUM CURASSAVICUM AND SILYBUM MARIANUM NEARBY.

Threats:
DITCH MAINTENANCE & ROW MOWING ARE THREATS. CALTRANS MAINTENANCE UNITS ADVISED OF THIS SITE.

General:
2 PLANTS OBSERVED BY MARTZ IN 1988. VERY DISTURBED SITE LACKING FRESHWATER SLOUGH/MARSH HABITAT AND ASSOCIATED SPECIES. INTACT SLOUGH HABITAT ON NORTH SIDE OF I-80 IN THIS AREA SHOULD BE SURVEYED.

PLSS: T09N, R04E, Sec. 22 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4275126 E627662	Latitude/Longitude: 38.61547 / -121.53364	Elevation (feet): 10

County Summary: Sacramento	Quad Summary: Sacramento West (3812155)
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Sources:
MAR88F0013 MARTZ, C. - FIELD SURVEY FORM FOR HIBISCUS LASIOCARPOS VAR. OCCIDENTALIS 1988-08-04



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 82674
Key Quad: Florin (3812144)
Occurrence Number: 189

EO Index: 83678
Element Code: PDMALOH0R3
Occurrence Last Updated: 2011-05-24

Scientific Name: *Hibiscus lasiocarpus var. occidentalis*

Common Name: woolly rose-mallow

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G5T2
 State: S2

Rare Plant Rank: 1B.2
Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden

General Habitat:

MARSHES AND SWAMPS (FRESHWATER).

Micro Habitat:

MOIST, FRESHWATER-SOAKED RIVER BANKS & LOW PEAT ISLANDS IN SLOUGHS; CAN ALSO OCCUR ON RIPRAP AND LEVEES. IN CALIFORNIA, KNOWN FROM THE DELTA WATERSHED. 0-120 M.

Last Date Observed: 2009-08-25
Last Survey Date: 2009-08-25
Owner/Manager: USFWS-STONE LAKES NWR
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:
 STONE LAKES NATIONAL WILDLIFE REFUGE, ABOUT 1.5 AIR MILES ENE OF CLARKSBURG.

Detailed Location:
 5 COLONIES MAPPED BY CNDDDB AS 4 POLYGONS IN THE WEST 1/2 OF THE SW 1/4 OF SECTION 25 AND THE NW 1/4 OF THE NW 1/4 OF SECTION 36.

Ecological:
 FRESHWATER MARSH AND RIPARIAN HABITATS. ASSOCIATED WITH SALIX EXIGUA, SCIRPUS, CEPHALANTHUS, AND VITIS.

Threats:

General:
 2009 POPULATION NUMBERS FOR POLYGONS FROM NORTH TO SOUTH: 19, 5, 2, AND 3.

PLSS: T07N, R04E, Sec. 25 (M)	Accuracy: specific area	Area (acres): 4
UTM: Zone-10 N4254046 E630944	Latitude/Longitude: 38.42509 / -121.49989	Elevation (feet): 0

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 82676
Key Quad: Florin (3812144)
Occurrence Number: 190

EO Index: 83679
Element Code: PDMALOH0R3
Occurrence Last Updated: 2011-05-24

Scientific Name: *Hibiscus lasiocarpus var. occidentalis*

Common Name: woolly rose-mallow

Listing Status: **Federal:** None
 State: None
CNDDB Element Ranks: **Global:** G5T2
 State: S2

Rare Plant Rank: 1B.2
Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden

General Habitat:

MARSHES AND SWAMPS (FRESHWATER).

Micro Habitat:

MOIST, FRESHWATER-SOAKED RIVER BANKS & LOW PEAT ISLANDS IN SLOUGHS; CAN ALSO OCCUR ON RIPRAP AND LEVEES. IN CALIFORNIA, KNOWN FROM THE DELTA WATERSHED. 0-120 M.

Last Date Observed: 2009-06-08
Last Survey Date: 2009-06-08
Owner/Manager: USFWS-STONE LAKES NWR
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:
 STONE LAKES NATIONAL WILDLIFE REFUGE, WEST SIDE OF I-5, ABOUT 2.2 AIR MILES EAST OF CLARKSBURG.

Detailed Location:
 MAPPED IN THE NW 1/4 OF THE NE 1/4 OF SECTION 36 ACCORDING TO 2010 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES.

Ecological:
 TYPHA MARSH NEAR FREEWAY.

Threats:
 DISTURBED BY NEARBY FREEWAY. THREATENED BY POLLUTANT RUNOFF.

General:
 7 PLANTS OBSERVED IN 2009.

PLSS: T07N, R04E, Sec. 36 (M)
UTM: Zone-10 N4253867 E632026

Accuracy: specific area
Latitude/Longitude: 38.42331 / -121.48754

Area (acres): 1
Elevation (feet): 10

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 82677
Key Quad: Florin (3812144)
Occurrence Number: 191

EO Index: 83681
Element Code: PDMALOH0R3
Occurrence Last Updated: 2011-05-24

Scientific Name: *Hibiscus lasiocarpus var. occidentalis*

Common Name: woolly rose-mallow

Listing Status: **Federal:** None
 State: None
CNDDB Element Ranks: **Global:** G5T2
 State: S2

Rare Plant Rank: 1B.2
Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden

General Habitat:

MARSHES AND SWAMPS (FRESHWATER).

Micro Habitat:

MOIST, FRESHWATER-SOAKED RIVER BANKS & LOW PEAT ISLANDS IN SLOUGHS; CAN ALSO OCCUR ON RIPRAP AND LEVEES. IN CALIFORNIA, KNOWN FROM THE DELTA WATERSHED. 0-120 M.

Last Date Observed: 2009-08-25
Last Survey Date: 2009-08-25
Owner/Manager: USFWS-STONE LAKES NWR
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Good
Trend: Unknown

Location:
 STONE LAKES NATIONAL WILDLIFE REFUGE, ABOUT 1.4 AIR MILES EAST OF CLARKSBURG.

Detailed Location:
 MAPPED IN THE SW 1/4 OF THE NW 1/4 OF SECTION 36 ACCORDING TO 2010 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES.

Ecological:
 FRESHWATER MARSH WITH SALIX GOODDINGII, VITIS, AND SCIRPUS ACUTUS.

Threats:
General:
 12 LARGE CLUMPS OF PLANTS OBSERVED IN 2009.

PLSS: T07N, R04E, Sec. 36 (M)	Accuracy: specific area	Area (acres): 1
UTM: Zone-10 N4253278 E630941	Latitude/Longitude: 38.41816 / -121.50007	Elevation (feet): 0

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
 DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 82679

EO Index: 83682

Key Quad: Clarksburg (3812145)

Element Code: PDMALOH0R3

Occurrence Number: 192

Occurrence Last Updated: 2011-06-14

Scientific Name: *Hibiscus lasiocarpus var. occidentalis*

Common Name: woolly rose-mallow

Listing Status: **Federal:** None

Rare Plant Rank: 1B.2

State: None

Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden

CNDDB Element Ranks: **Global:** G5T2

State: S2

General Habitat:

MARSHES AND SWAMPS (FRESHWATER).

Micro Habitat:

MOIST, FRESHWATER-SOAKED RIVER BANKS & LOW PEAT ISLANDS IN SLOUGHS; CAN ALSO OCCUR ON RIPRAP AND LEVEES. IN CALIFORNIA, KNOWN FROM THE DELTA WATERSHED. 0-120 M.

Last Date Observed: 2009-09-01

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2009-09-01

Occurrence Rank: Fair

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

SACRAMENTO RIVER DEEP WATER SHIP CHANNEL, ABOUT 3.35 AIR MILES SSW OF ARCADE.

Detailed Location:

MAPPED ON THE WEST BANK OF THE CHANNEL IN THE NW 1/4 OF THE NW 1/4 OF SECTION 25 ACCORDING TO 2010 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES.

Ecological:

CHANNEL BANK.

Threats:

General:

1 PLANT OBSERVED IN 2009.

PLSS: T07N, R03E, Sec. 25 (M)

Accuracy: specific area

Area (acres): 1

UTM: Zone-10 N4254576 E621840

Latitude/Longitude: 38.43114 / -121.60406

Elevation (feet): 5

County Summary:

Yolo

Quad Summary:

Clarksburg (3812145)

Sources:

DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 82680

EO Index: 83683

Key Quad: Clarksburg (3812145)

Element Code: PDMALOH0R3

Occurrence Number: 193

Occurrence Last Updated: 2011-05-25

Scientific Name: *Hibiscus lasiocarpus var. occidentalis*

Common Name: woolly rose-mallow

Listing Status: **Federal:** None

Rare Plant Rank: 1B.2

State: None

Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden

CNDDB Element Ranks: **Global:** G5T2

State: S2

General Habitat:

MARSHES AND SWAMPS (FRESHWATER).

Micro Habitat:

MOIST, FRESHWATER-SOAKED RIVER BANKS & LOW PEAT ISLANDS IN SLOUGHS; CAN ALSO OCCUR ON RIPRAP AND LEVEES. IN CALIFORNIA, KNOWN FROM THE DELTA WATERSHED. 0-120 M.

Last Date Observed: 2009-08-25

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2009-08-25

Occurrence Rank: Fair

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

SACRAMENTO RIVER JUST SOUTHEAST OF CLARKSBURG, ABOUT 0.5 AIR MILE SOUTHEAST OF CLARKSBURG MARINA.

Detailed Location:

MAPPED ON THE EAST BANK OF THE RIVER IN THE NE 1/4 OF THE SE 1/4 OF SECTION 34 ACCORDING TO 2010 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES.

Ecological:

RIPRAP.

Threats:

THREATENED BY LEVEE MAINTENANCE.

General:

2 PLANTS OBSERVED IN 2009.

PLSS: T07N, R04E, Sec. 34 (M)

Accuracy: specific area

Area (acres): 1

UTM: Zone-10 N4252698 E629275

Latitude/Longitude: 38.41318 / -121.51926

Elevation (feet): 10

County Summary:

Sacramento

Quad Summary:

Clarksburg (3812145)

Sources:

DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 82681

EO Index: 83684

Key Quad: Clarksburg (3812145)

Element Code: PDMALOH0R3

Occurrence Number: 194

Occurrence Last Updated: 2011-05-25

Scientific Name: *Hibiscus lasiocarpus var. occidentalis*

Common Name: woolly rose-mallow

Listing Status: **Federal:** None

Rare Plant Rank: 1B.2

State: None

Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden

CNDDB Element Ranks: **Global:** G5T2

State: S2

General Habitat:

MARSHES AND SWAMPS (FRESHWATER).

Micro Habitat:

MOIST, FRESHWATER-SOAKED RIVER BANKS & LOW PEAT ISLANDS IN SLOUGHS; CAN ALSO OCCUR ON RIPRAP AND LEVEES. IN CALIFORNIA, KNOWN FROM THE DELTA WATERSHED. 0-120 M.

Last Date Observed: 2009-08-25

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2009-08-25

Occurrence Rank: Fair

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

SACRAMENTO RIVER, ABOUT 0.9 AIR MILE SSE OF CLARKSBURG MARINA.

Detailed Location:

MAPPED ON THE EAST BANK OF THE RIVER IN THE NW 1/4 OF THE NW 1/4 OF SECTION 2 ACCORDING TO 2010 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES.

Ecological:

RIPRAP.

Threats:

THREATENED BY LEVEE MAINTENANCE.

General:

2 PLANTS OBSERVED IN 2009.

PLSS: T06N, R04E, Sec. 02 (M)

Accuracy: specific area

Area (acres): 1

UTM: Zone-10 N4252085 E629600

Latitude/Longitude: 38.40761 / -121.51564

Elevation (feet): 10

County Summary:

Sacramento

Quad Summary:

Clarksburg (3812145)

Sources:

DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 82682

EO Index: 83685

Key Quad: Clarksburg (3812145)

Element Code: PDMALOH0R3

Occurrence Number: 195

Occurrence Last Updated: 2011-05-25

Scientific Name: *Hibiscus lasiocarpus var. occidentalis*

Common Name: woolly rose-mallow

Listing Status: **Federal:** None

Rare Plant Rank: 1B.2

State: None

Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden

CNDDB Element Ranks: **Global:** G5T2

State: S2

General Habitat:

MARSHES AND SWAMPS (FRESHWATER).

Micro Habitat:

MOIST, FRESHWATER-SOAKED RIVER BANKS & LOW PEAT ISLANDS IN SLOUGHS; CAN ALSO OCCUR ON RIPRAP AND LEVEES. IN CALIFORNIA, KNOWN FROM THE DELTA WATERSHED. 0-120 M.

Last Date Observed: 2009-08-25

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2009-08-25

Occurrence Rank: Fair

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

SACRAMENTO RIVER, ABOUT 0.65 AIR MILE NORTH OF ROSEBUD LANDING.

Detailed Location:

MAPPED ON THE EAST BANK OF THE RIVER IN THE NE 1/4 OF THE SW 1/4 OF SECTION 2 ACCORDING TO 2010 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES.

Ecological:

PILING.

Threats:

THREATENED BY RECREATION.

General:

1 PLANT OBSERVED IN 2009.

PLSS: T06N, R04E, Sec. 02 (M)

Accuracy: specific area

Area (acres): 1

UTM: Zone-10 N4251204 E629890

Latitude/Longitude: 38.39963 / -121.51248

Elevation (feet): 10

County Summary:

Sacramento

Quad Summary:

Clarksburg (3812145)

Sources:

DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11397	EO Index:	17785
Key Quad:	Rio Linda (3812164)	Element Code:	PDSCR0R060
Occurrence Number:	3	Occurrence Last Updated:	2011-01-04

Scientific Name:	<i>Gratiola heterosepala</i>			Common Name:	Boggs Lake hedge-hyssop
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2	
	State:	Endangered	Other Lists:	BLM_S-Sensitive	
CNDDB Element Ranks:	Global:	G2			
	State:	S2			

General Habitat:	MARSHES AND SWAMPS (FRESHWATER), VERNAL POOLS.	Micro Habitat:	CLAY SOILS; USUALLY IN VERNAL POOLS, SOMETIMES ON LAKE MARGINS. 10-2375 M.
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Last Date Observed:	1960-04-21	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1997-06-18	Occurrence Rank:	None
Owner/Manager:	UNKNOWN	Trend:	Decreasing
Presence:	Possibly Extirpated		

Location:
 VERNAL POOLS JUST NORTH OF AND ADJACENT TO U STREET, AT NORTHEASTERN BORDER OF RIO LINDA.

Detailed Location:
 FOUND OPPOSITE OF MAIL BOX MARKED "CASE." EXACT LOCATION UNKNOWN, MAPPED AS BEST GUESS BY CNDDB ALONG U STREET.

Ecological:
 DRIED-UP AND VERY SHALLOW VERNAL POOLS.

Threats:
 IN 1977 VISIT, SITE HAD BEEN PLOWED, HARROWED, AND LEVELED OBVIOUSLY IN PREPARATION FOR HOUSING DEVELOPMENT.

General:
 SITE BASED ON 1960 BACIGALUPI COLLECTION, NONE FOUND WHEN HE REVISITED SITE IN 1977. VERNAL POOLS N OF JUNCTION OF U ST AND DRY CREEK RD SEARCHED IN 1978 & 1997, BUT ONLY G. EBRACTEATA FOUND. STILL SOME HABITAT IN 1997, MORE SURVEYS NEEDED.

PLSS:	T10N, R05E, Sec. 21 (M)	Accuracy:	nonspecific area	Area (acres):	132
UTM:	Zone-10 N4285180 E635997	Latitude/Longitude:	38.70480 / -121.43596	Elevation (feet):	65

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:

BAC60S0007	BACIGALUPI, R. ET AL. - BACIGALUPI #7374 JEPS #25043, RSA #517389, CAS #461644 1960-04-21
BAC77U0002	BACIGALUPI, R. - CNPS STATUS REPORT ON GRATIOLA HETEROSEPALA, PP 4. 1977-XX-XX
NOS97F0017	NOSAL, T. ET AL. - FIELD SURVEY FORM FOR GRATIOLA HETEROSEPALA 1997-06-18
RAE78F0002	RAE, S. - FIELD SURVEY FORM FOR GRATIOLA HETEROSEPALA 1978-06-21



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	23929	EO Index:	21341
Key Quad:	Elk Grove (3812143)	Element Code:	PDSCR0R060
Occurrence Number:	33	Occurrence Last Updated:	1995-10-30

Scientific Name:	<i>Gratiola heterosepala</i>			Common Name:	Boggs Lake hedge-hyssop
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2	
	State:	Endangered	Other Lists:	BLM_S-Sensitive	
CNDDB Element Ranks:	Global:	G2			
	State:	S2			

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS (FRESHWATER), VERNAL POOLS.	CLAY SOILS; USUALLY IN VERNAL POOLS, SOMETIMES ON LAKE MARGINS. 10-2375 M.

Last Date Observed:	1991-05-13	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1991-05-13	Occurrence Rank:	Fair
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
0.75 MILE NW OF INTERSECTION OF BOND AND WATERMAN ROADS.

Detailed Location:

Ecological:
ASSOCIATED WITH ERYNGIUM VASEYI, ELEOCHARIS MACROSTACHYA, DOWNINGIA ORNATISSIMA. MOST PLANTS IN NEARLY BARREN PORTIONS OF POOL. ANOTHER RARE PLANT ALSO HERE: LEGENERE LIMOSA.

Threats:
DEVELOPMENT, GRAZING.

General:
20 PLANTS IN 1991. SITE OWNED BY CAMRAY DEVELOPMENT.

PLSS: T07N, R06E, Sec. 30 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4254999 E642933	Latitude/Longitude: 38.43183 / -121.36241	Elevation (feet): 45

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
DAI91F0002 DAINS, V. - FIELD SURVEY FORM FOR GRATIOLA HETEROSEPALA 1991-05-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23930	EO Index: 7475
Key Quad: Elk Grove (3812143)	Element Code: PDSCR0R060
Occurrence Number: 34	Occurrence Last Updated: 1993-08-04

Scientific Name: <i>Gratiola heterosepala</i>	Common Name: Boggs Lake hedge-hyssop
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: Endangered	
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: MARSHES AND SWAMPS (FRESHWATER), VERNAL POOLS.	Micro Habitat: CLAY SOILS; USUALLY IN VERNAL POOLS, SOMETIMES ON LAKE MARGINS. 10-2375 M.
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Last Date Observed: 1991-05-09	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-05-09	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Decreasing
Presence: Presumed Extant	

Location:
0.35 MILE N OF INTERSECTION OF CALVINE AND WATERMAN ROADS.

Detailed Location:

Ecological:

LARGE VERNAL POOL COMPLEX; GROWING IN SPARSELY VEGETATED DEEPER AREAS OF POOLS. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA, ERYNGIUM VASEYI, G. EBRACTEA, ISOETES NUTTALLII, PLAGIOBOTHRYUS BRACTEATUS, LASTHENIA GLABBERIMA, & ELATINE CA.

Threats:

ADJACENT AREAS SLATED FOR DEVELOPMENT, COULD IMPACT POOLS. TWO-THIRDS OF THE POOL COMPLEX HAS BEEN DISKED.

General:

APPROXIMATELY 200 PLANTS IN 1991.

PLSS: T07N, R06E, Sec. 17 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4257912 E643671	Latitude/Longitude: 38.45796 / -121.35336	Elevation (feet): 75

County Summary:

Sacramento

Quad Summary:

Elk Grove (3812143)

Sources:

WIT91F0010 WITHAM, C. - FIELD SURVEY FORM FOR GRATIOLA HETEROSEPALA 1991-05-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23931	EO Index: 7476	
Key Quad: Elk Grove (3812143)	Element Code: PDSCR0R060	
Occurrence Number: 35	Occurrence Last Updated: 2011-01-04	

Scientific Name: <i>Gratiola heterosepala</i>	Common Name: Boggs Lake hedge-hyssop
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: Endangered	
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: MARSHES AND SWAMPS (FRESHWATER), VERNAL POOLS.	Micro Habitat: CLAY SOILS; USUALLY IN VERNAL POOLS, SOMETIMES ON LAKE MARGINS. 10-2375 M.
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Last Date Observed: 2002-04-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-04-28	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ELLIOTT CONSERVANCY, 0.7 MILE EAST OF THE INTERSECTION OF BEACON CREEK AND ELK GROVE-FLORIN RD.

Detailed Location:
MAPPED IN THE NW 1/4 OF THE SE 1/4 OF SECTION 7.

Ecological:
LOW, BARREN AREAS OF LARGE VERNAL POOL. ASSOCIATED WITH CRASSULA AQUATICA, PSILOCARPHUS BREVISSIMUS, DOWNINGIA BICORNUTA, GRATIOLA EBRACTEATA, LASTHENIA GLABERRIMA, AND PLAGIOBOTHRYIS STIPITATUS MICRANTHA.

Threats:
General:
50 PLANTS OBSERVED IN 2002. 1986 AND 1989 OBSERVATIONS MENTIONED PLANTS OBSERVED IN THREE VERNAL POOLS BUT GAVE VAGUE LOCATION INFO FOR THE POOLS. OTHER POOLS IN THIS AREA MAY CONTAIN G. HETEROSEPALA.

PLSS: T07N, R06E, Sec. 07 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4259757 E643095	Latitude/Longitude: 38.47467 / -121.35958	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

STA02F0011	STARR, S. - FIELD SURVEY FORM FOR GRATIOLA HETEROSEPALA 2002-04-28
WYM86F0001	WYMER, N. - FIELD SURVEY FORM FOR GRATIOLA HETEROSEPALA 1986-04-25
WYM86S0001	WYMER, N. - WYMER SN DAV #14563 1986-04-25
WYM89F0004	WYMER, N. - FIELD SURVEY FORM FOR GRATIOLA HETEROSEPALA 1989-04-28



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	39745	EO Index:	34747
Key Quad:	Elk Grove (3812143)	Element Code:	PDSCR0R060
Occurrence Number:	81	Occurrence Last Updated:	2003-02-25

Scientific Name:	<i>Gratiola heterosepala</i>			Common Name:	Boggs Lake hedge-hyssop
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2	
	State:	Endangered	Other Lists:	BLM_S-Sensitive	
CNDDB Element Ranks:	Global:	G2			
	State:	S2			

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS (FRESHWATER), VERNAL POOLS.	CLAY SOILS; USUALLY IN VERNAL POOLS, SOMETIMES ON LAKE MARGINS. 10-2375 M.

Last Date Observed:	1998-06-05	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-08-30	Occurrence Rank:	None
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Extirpated		

Location:
ON EAST SIDE OF EXSELSIOR ROAD, WEST OF DIERKS ROAD. ABOUT 0.7-1.0 MI NORTH OF CALVINE ROAD. DIERKS RANCH.

Detailed Location:
NW1/4 OF NW1/4 OF SECTION 14.

Ecological:
IN A VERNAL POOL WITH GRATIOLA EBRACTEATA.

Threats:
PREVIOUSLY DISKED AND PARTIALLY LEVELLED. DEVELOPMENT PLANNED FOR THIS SITE.

General:
ONLY 4 PLANTS IN 1998, 1 IN FLOWER, 3 IN FRUIT. SITE DEVELOPED PERMIT 2081, SOIL TRANSPLANTED TO LAGUNA CREEK MITIGATION BANK.

PLSS:	T07N, R06E, Sec. 14 (M)	Accuracy:	nonspecific area	Area (acres):	62
UTM:	Zone-10 N4258771 E648763	Latitude/Longitude:	38.46486 / -121.29484	Elevation (feet):	100

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

BAR02F0001	BARTLETT, T. - FIELD SURVEY FORM FOR GRATIOLA HETEROSEPALA 2002-08-30
ROB98F0001	ROBISON, R. - FIELD SURVEY FORM FOR GRATIOLA HETEROSEPALA 1998-06-05



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	43542	EO Index:	43542
Key Quad:	Carmichael (3812153)	Element Code:	PDSCR0R060
Occurrence Number:	84	Occurrence Last Updated:	2013-05-23

Scientific Name:	<i>Gratiola heterosepala</i>			Common Name:	Boggs Lake hedge-hyssop
Listing Status:	Federal:	None		Rare Plant Rank:	1B.2
	State:	Endangered		Other Lists:	BLM_S-Sensitive
CNDDB Element Ranks:	Global:	G2			
	State:	S2			

General Habitat:	MARSHES AND SWAMPS (FRESHWATER), VERNAL POOLS.	Micro Habitat:	CLAY SOILS; USUALLY IN VERNAL POOLS, SOMETIMES ON LAKE MARGINS. 10-2375 M.
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Last Date Observed:	2001-05-20	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2001-05-20	Occurrence Rank:	Excellent
Owner/Manager:	SAC COUNTY	Trend:	Unknown
Presence:	Presumed Extant		

Location:
MATHER FIELD, WEST OF EAGLES NEST ROAD ABOUT 1.8 MILES SOUTH OF JUNCTION WITH DOUGLAS BLVD, SOUTH OF RANCHO CORDOVA.

Detailed Location:
PLANTS FOUND IN VERNAL POOLS ABOUT 0.2 MILE WEST OF EAGLES NEST ROAD, ACROSS FROM THE MODEL AIRPLANE FLYERS CLUB. MAPPED WITHIN THE SE 1/4 OF THE NE 1/4 OF SECTION 24.

Ecological:
GROWING IN DEEP VERNAL POOLS, IN THE WATER AND AT THE WATER'S EDGE WITH ISOETES ORCUTTII. POOLS DOMINATED BY ELEOCHARIS MACROSTACHYA, PLAGIOBOTHRYUS STIPITATUS VAR. MICRANTHUS, AND LASTHENIA GLABERRIMA.

Threats:
SITE HAS BEEN PROPOSED FOR AN AGGREGATE MINE.

General:
THOUSANDS OF PLANTS OBSERVED IN 2000. UNKNOWN NUMBER OF PLANTS OBSERVED IN 2001. THE RARE JUNCUS LEIOSPERMUS VAR. AHARTII OCCURS IN NEARBY POOLS AND SWALES.

PLSS:	T08N, R06E, Sec. 24 (M)	Accuracy:	specific area	Area (acres):	2
UTM:	Zone-10 N4266458 E651215	Latitude/Longitude:	38.53369 / -121.26508	Elevation (feet):	135

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

GRE01U0007	GREENHOUSE, J. - OBSERVATION RECORD FOR GRATIOLA HETEROSEPALA, CALFLORA ID: JGR20091 2001-05-20
WIT00F0004	WITHAM, C. - FIELD SURVEY FORM FOR GRATIOLA HETEROSEPALA 2000-05-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24535	EO Index: 4949	
Key Quad: Florin (3812144)	Element Code: PMALI040Q0	
Occurrence Number: 16	Occurrence Last Updated: 2005-08-12	

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	
Federal: None	Rare Plant Rank: 1B.2
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 2004-07-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-07-08	Occurrence Rank: Fair
Owner/Manager: PVT, ELK GROVE SCHOOL DIST	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG AND BETWEEN BEACON CREEK AND ELDER CREEK, EAST OF POWER INN ROAD, ELK GROVE.

Detailed Location:
MAPPED AS FIVE POLYGONS: TWO ALONG BEACON CREEK BETWEEN POWER INN ROAD AND RR TRACKS, ONE BETWEEN THE TWO CREEKS, AND TWO ALONG ELDER CREEK ON EITHER SIDE OF RR TRACKS. MAPPED FROM THE SW 1/4 OF SECTION 11 TO THE SW 1/4 OF SECTION 1.

Ecological:
GROWING IN FLOWING STREAM, IN CEMENT-LINED CHANNEL WITH MUD, AND DRAINAGE CHANNEL. ASSOCIATED WITH ALISMA PLANTAGO-AQUATICUM, LUDWIGIA PEPLIOIDES, LEPTOCHLOA FASCICULARIS, ECHINOCHLOA CRUS-GALLII, TYPHA LATIFOLIA, LEMNA, ETC.

Threats:
CREEK REALIGNMENT, HERBICIDE SPRAYING, ADJACENT RESIDENTIAL DEVELOPMENT, TRASH DUMPING, AND PROPOSED WATER PIPELINE.

General:
ALONG ELDER CREEK, 400+ PLANTS SEEN IN 1992 AND "HUNDREDS" IN 2004. ABOUT 100 PLANTS EACH SEEN IN 2004 AT EASTERN BEACON CREEK SITE AND AT SITE BETWEEN THE TWO CREEKS. SEE CNDDDB FOR FULL POPULATION DETAIL. INCLUDES FORMER EO #17.

PLSS: T07N, R05E, Sec. 11 (M)	Accuracy: specific area	Area (acres): 20
UTM: Zone-10 N4260111 E639789	Latitude/Longitude: 38.47838 / -121.39739	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

NOR92U0001	NORTON, K. - PERSONAL COMMUNICATION BETWEEN TIM NOSAL AND KATHY NORTON ABOUT SOME POPS OF SAGITTARIA SANFORDII. 1992-10-21
NOR93M0001	NORTON, K. - MAPS OF SAGITTARIA SANFORDII IN THE SACRAMENTO AREA. 1993-11-07
PRE04F0014	PRESTON, R. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2004-07-08
PRE04F0015	PRESTON, R. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2004-07-08
PRE04F0016	PRESTON, R. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2004-06-30
WIT92F0008	WITHAM, C. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1992-07-11
WYM92F0003	WYMER, N. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1992-06-18
WYM92F0004	WYMER, N. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1992-05-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24539	EO Index: 17243
Key Quad: Florin (3812144)	Element Code: PMALI040Q0
Occurrence Number: 18	Occurrence Last Updated: 2009-02-17

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1996-08-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1996-08-XX	Occurrence Rank: Unknown
Owner/Manager: SAC COUNTY-PUBLIC WORKS, PVT	Trend: Decreasing
Presence: Presumed Extant	

Location:
STRAWBERRY CREEK. NORTHWEST & SOUTH OF CALVINE RD/ELK GROVE-FLORIN RD INTERSECTION, ELK GROVE.

Detailed Location:
TRUE EXTENT OF POPULATION UNKNOWN. MAPPED ALONG STRAWBERRY CREEK STARTING ~0.25 MILE EAST OF POWER INN ROAD (HRUSA, 1993). EAST PORTION OF EO BASED ON MORE SPECIFIC MAP DATA.

Ecological:
COLONY NEAR BAY TOWN CREEK IS CEMENT LINED CHANNEL. CENTER COLONIES ARE ALONG DRIED CREEK CHANNEL.

Threats:
MUCH OF THIS EO HAS BEEN EXTIRPATED BY DEVELOPMENT AND VEG CLEARING ACTIVITIES. UNKNOWN HOW MUCH OF POP IS STILL EXTANT.

General:
PORTION OF EO TRANSPLANTED INTO A GIANT GARTER SNAKE SITE. POP IN SEC 24 REPLANTED AT SITE AFTER STRAWBERRY CR REALIGNMENT (1990). 133,000 AT TRANSPLANTED SITE IN 1994 DECLINING TO 972 IN 1996. NEEDS FIELDWORK. FORMER EO #19 & #20 HERE.

PLSS: T07N, R05E, Sec. 24 (M)	Accuracy: specific area	Area (acres): 148
UTM: Zone-10 N4257154 E640611	Latitude/Longitude: 38.45161 / -121.38856	Elevation (feet): 40

County Summary: Sacramento	Quad Summary: Elk Grove (3812143), Florin (3812144)
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Sources:

DAI91F0005	DAINS, V. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1991-05-22
HRU93S0003	HRUSA, G.F. - HRUSA #10919 CDA #14261 1993-05-10
LSA97R0002	LSA ASSOCIATES, INC. - FOURTH ANNUAL MONITORING REPORT FOR STRAWBERRY CREEK REALIGNMENT MITIGATION PROJECT (CORPS NO. 190110079) 1997-09-09
MIL91U0001	MILLER, S. & R. LOPEZ - REPORT OF CONTACT BY EPP REGARDING SAGITTARIA SANFORDII. 1991-11-04
NOR03U0001	NORTON, K. - EMAIL WITH CNDDB STAFF REGARDING MANY POPULATIONS OF SAGITTARIA SANFORDII 2003-04-02
NOR92U0001	NORTON, K. - PERSONAL COMMUNICATION BETWEEN TIM NOSAL AND KATHY NORTON ABOUT SOME POPS OF SAGITTARIA SANFORDII. 1992-10-21
NOR93M0001	NORTON, K. - MAPS OF SAGITTARIA SANFORDII IN THE SACRAMENTO AREA. 1993-11-07



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24540	EO Index: 17101
Key Quad: Florin (3812144)	Element Code: PMALI040Q0
Occurrence Number: 21	Occurrence Last Updated: 1993-11-18

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1992-08-20	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-08-20	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
STRAWBERRY CREEK AT BRUCEVILLE ROAD, SACRAMENTO.

Detailed Location:
JUST NORTH OF COSUMNES RIVER BLVD IN CREEK ALONG BOTH SIDES OF BRUCEVILLE ROAD, JUST WITHIN SACRAMENTO CITY LIMITS.

Ecological:
IN SHALLOW SLOW MOVING WATER.

Threats:

General:
SEVERAL HUNDRED PLANTS OBSERVED IN 1992.

PLSS: T07N, R05E, Sec. 15 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4257779 E638033	Latitude/Longitude: 38.45765 / -121.41798	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
BEG92F0001 BEGLEY, E. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1992-08-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24534	EO Index: 19286	
Key Quad: Florin (3812144)	Element Code: PMALI040Q0	
Occurrence Number: 22	Occurrence Last Updated: 1995-11-13	

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	
Federal: None	Rare Plant Rank: 1B.2
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1992-07-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-07-19	Occurrence Rank: Good
Owner/Manager: PVT-BEACH LAKE PROPERTIES	Trend: Unknown
Presence: Presumed Extant	

Location:
BEACH LAKE, ALONG DIKE ADJACENT TO MORRISON CREEK, 2 KM (1.8 MILES) SOUTH OF FREEPORT.

Detailed Location:
HISTORIC BEACH LAKE EXTENDED ALONG EITHER SIDE OF WHAT IS NOW I-5. THIS PORTION OF BEACH LAKE REFERS TO MARSHY AREA SOUTH OF FREEPORT AND BETWEEN I-5 AND THE SACRAMENTO RIVER.

Ecological:
GROWING JUST OFFSHORE IN 1-2 FEET OF WATER. ASSOCIATES INCLUDE TYPHA LATIFOLIA, LUDWIGIA PEPLOIDES, AND SCIRPUS ACUTUS. GIANT GARTER SNAKE (THAMNOPHIS GIGAS) OBSERVED JUST EAST OF THE SAGITTARIA.

Threats:
HERBICIDE APPLICATION.

General:
3-4 COLONIES OBSERVED IN 1992. LAKE OWNED BY BEACH LAKE PROPERTIES BUT MAY BECOME PART OF A COUNTY PRESERVE. CALTRANS RECREATED WETLANDS MITIGATION BANK IS LOCATED TO THE EAST, BETWEEN BEACH LAKE AND I-5.

PLSS: T07N, R04E, Sec. 25 (M)	Accuracy: specific area	Area (acres): 11
UTM: Zone-10 N4255360 E631198	Latitude/Longitude: 38.43689 / -121.49674	Elevation (feet): 0

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

HOL90S0001	HOLSTEIN, G. - HOLSTEIN SN DAV #16075 1990-07-23
NOR93M0001	NORTON, K. - MAPS OF SAGITTARIA SANFORDII IN THE SACRAMENTO AREA. 1993-11-07
NOS92F0003	NOSAL, T. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1992-07-19



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24525	EO Index: 16838
Key Quad: Carmichael (3812153)	Element Code: PMALI040Q0
Occurrence Number: 23	Occurrence Last Updated: 1996-01-10

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1993-07-31	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-07-31	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
DRAINAGE ON THE E SIDE OF THE FOLSOM SOUTH CANAL, 1.5 KM (1 MI) SOUTH OF SUNRISE BLVD AT WHITE ROCK RD, EAST OF MATHER.

Detailed Location:

Ecological:

GROWING IN STANDING WATER OF DRAINAGE CHANNEL WITHIN A FIELD OF ANNUAL WEEDS. ASSOCIATES IN CHANNEL INCLUDE TYPHA, POLYGONUM PERSICARIA, AND SAGITTARIA MONTEVIDENSIS SSP. CALYCINA.

Threats:

General:

SOLID STAND OF PLANTS APPROX. 10' X 100' IN AREA OBSERVED IN 1993. SITE IS BORDERED TO THE WEST BY CANAL LEVEE AND TO THE NORTH, SOUTH, AND EAST BY AUTO WRECKING YARDS.

PLSS: T08N, R06E, Sec. 01 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4271175 E651233	Latitude/Longitude: 38.57618 / -121.26386	Elevation (feet): 130

County Summary:

Sacramento

Quad Summary:

Carmichael (3812153)

Sources:

NOS93F0002 NOSAL, T. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1993-07-31



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	24527	EO Index:	4864
Key Quad:	Carmichael (3812153)	Element Code:	PMALI040Q0
Occurrence Number:	24	Occurrence Last Updated:	1997-12-23

Scientific Name:	<i>Sagittaria sanfordii</i>	Common Name:	Sanford's arrowhead
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDB Element Ranks:	Global: G3 State: S3	Other Lists:	BLM_S-Sensitive

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS.	IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.

Last Date Observed:	1997-06-17	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1997-06-17	Occurrence Rank:	Fair
Owner/Manager:	SAC COUNTY-PUBLIC WORKS	Trend:	Unknown
Presence:	Presumed Extant		

Location:
CHANNELS NEAR BRADSHAW ROAD & LINCOLN VILLAGE ROAD, SACRAMENTO.

Detailed Location:
TWO COLONIES; ONE IS IN CHANNEL SOUTH OF LINCOLN VILLAGE ROAD AND EAST OF BRADSHAW ROAD ALONG EITHER SIDE OF DRACO DRIVE; THE OTHER IS EAST OF BRADSHAW ABOUT 0.1 MILE NORTH OF LINCOLN VILLAGE ROAD.

Ecological:
SOUTHERN COLONY IN SLOW MOVING WATER OF CEMENT LINED CHANNEL. ASSOCIATES INCLUDE CYPERUS DIFFORMIS, C. ERAGROSTIS, ECHINOCHLOA CRUSGALLI, ERAGROSTIS DIFFUSA, POLYGONUM LAPATHIFOLIUM, P. PERSICARIA, PASPALUM DILATATUM, & SORGHAM HALAPENSE.

Threats:
HERBICIDE APPLICATION & VEGETATION CLEARING IN CHANNELIZED AREA.

General:
POPULATION CONSISTS OF SCATTERED PLANTS ALONG THE CHANNEL IN AREAS WHERE SOIL HAS ACCUMULATED. 100'S SEEN IN 1997, MANY SEEDLINGS. MORE INFO NEEDED ON NORTHERN COLONY.

PLSS:	T08N, R06E, Sec. 09 (M)	Accuracy:	specific area	Area (acres):	29
UTM:	Zone-10 N4269346 E645325	Latitude/Longitude:	38.56069 / -121.33203	Elevation (feet):	60

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153)

Sources:

NOR93M0001	NORTON, K. - MAPS OF SAGITTARIA SANFORDII IN THE SACRAMENTO AREA. 1993-11-07
NOS97F0021	NOSAL, T. & J. PISCIOFFO - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1997-06-17
WYM92F0005	WYMER, N. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1992-07-02



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24526	EO Index: 16889
Key Quad: Carmichael (3812153)	Element Code: PMALI040Q0
Occurrence Number: 25	Occurrence Last Updated: 1996-02-14

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1993-08-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-08-19	Occurrence Rank: Good
Owner/Manager: CORDOVA RECREATION & PARKS	Trend: Unknown
Presence: Presumed Extant	

Location:
CORDOVA GOLF COURSE, SACRAMENTO.

Detailed Location:
TWO PONDS ON GOLF COURSE TO THE NORTH OF JACKSON ROAD (HWY 16) AND WEST OF BRADSHAW ROAD.

Ecological:
GOLF COURSE PONDS; ONE IS 100% COVERED WITH SAGITTARIA, THE SMALLER IS 70% COVERED.

Threats:
THE PLANT IS VIEWED AS A NUISANCE BY GOLF COURSE MANAGEMENT.

General:
TOTAL COVERAGE OF PLANT IS APPROX 0.4 ACRES. PLANTS WERE APPARENTLY FIRST OBSERVED AT THIS SITE IN 1989.

PLSS: T08N, R06E, Sec. 20 (M)	Accuracy: nonspecific area	Area (acres): 80
UTM: Zone-10 N4266586 E644023	Latitude/Longitude: 38.53604 / -121.34754	Elevation (feet): 60

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

CLA93F0004	CLARK, G. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1993-04-25
CLA93F0005	CLARK, G. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1993-08-19



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24524	EO Index: 12899
Key Quad: Sacramento East (3812154)	Element Code: PMALI040Q0
Occurrence Number: 26	Occurrence Last Updated: 1995-11-14

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1993-07-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-07-22	Occurrence Rank: Excellent
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Unknown
Presence: Presumed Extant	

Location:
SLOUGH ALONG NORTH SIDE OF THE AMERICAN RIVER, BETWEEN SOUTHERN PACIFIC RR TRACKS AND THE PUMPING STATION, SACRAMENTO.

Detailed Location:
NEXT TO AMERICAN RIVER BIKE TRAIL, FROM SPRR TRACKS WEST APPROX. 1 KM (0.7 MI).

Ecological:
SLOUGHS WITH MUDDY SHORES. ASSOCIATES INCLUDE PASPALUM, SETARIA, SALIX, AND TYPHA. MOSTLY GROWING OFFSHORE IN APPROX. 6" OF WATER WITH NO SURROUNDING VEGETATION.

Threats:
General:
50+ COLONIES OBSERVED IN SEVERAL DISCONTINUOUS SLOUGHS. SITE IS WITHIN THE AMERICAN RIVER PARKWAY COUNTY PARK, COUNTY SHOULD BE MADE AWARE OF THE PLANT'S PRESENCE.

PLSS: T09N, R05E, Sec. 32 (M)	Accuracy: specific area	Area (acres): 47
UTM: Zone-10 N4272969 E634390	Latitude/Longitude: 38.59505 / -121.45680	Elevation (feet): 20

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:
NOS93F0003 NOSAL, T. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1993-07-22



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24521	EO Index: 12983	
Key Quad: Sacramento East (3812154)	Element Code: PMALI040Q0	
Occurrence Number: 27	Occurrence Last Updated: 2005-10-03	

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 2005-07-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-07-02	Occurrence Rank: Fair
Owner/Manager: CSU-SACRAMENTO	Trend: Unknown
Presence: Presumed Extant	

Location:
SMALL CHANNEL JUST SOUTH OF CSU, SACRAMENTO FOOTBALL FIELD.

Detailed Location:
SOUTH OF STADIUM, BETWEEN ROAD AND PARKING LOT APPROXIMATELY 100' EAST OF CULVERT.

Ecological:
GRASSY DRAINAGE CHANNEL DOMINATED BY ECHINOCHLOA CRUS-GALLI WITH CYPERUS AND POLYGONUM.

Threats:
SITE IS SUBJECTED TO OCCASIONAL MOWING AND POSSIBLE HERBICIDE APPLICATION.

General:
SMALL APPROXIMATELY 1 SQ FT COLONY. COMPETITION WITH GRASSES ETC. MAY BE IMPACTING POPULATION. MORE THAN 100 PLANTS SEEN IN 2005; POPULATION APPEARS TO HAVE EXPANDED IN THIS AREA.

PLSS: T08N, R05E, Sec. 15 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4268465 E637427	Latitude/Longitude: 38.55401 / -121.42282	Elevation (feet): 35

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

HUD05F0007	HUDDLESTON, R. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2005-07-02
NOR93M0001	NORTON, K. - MAPS OF SAGITTARIA SANFORDII IN THE SACRAMENTO AREA. 1993-11-07
NOS93F0004	NOSAL, T. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1993-10-22



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24522	EO Index: 12962
Key Quad: Sacramento East (3812154)	Element Code: PMALI040Q0
Occurrence Number: 28	Occurrence Last Updated: 2009-02-11

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1993-10-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-06-04	Occurrence Rank: None
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Decreasing
Presence: Possibly Extirpated	

Location:
DEPRESSION ALONG THE SOUTH SIDE OF THE AMERICAN RIVER, APPROXIMATELY 400 M WEST OF HOWE AVE, SACRAMENTO.

Detailed Location:
BETWEEN THE RIVER AND LEVEE, BEHIND AN APARTMENT COMPLEX AND NEAR THE WATER TREATMENT PLANT.

Ecological:
GROWING IN A LOW, PERENNIAL WET, DEPRESSION. LUDWIGIA PEPLOIDES IS MAJOR ASSOCIATE.

Threats:
SITE IS ADJACENT TO AMERICAN RIVER BIKE TRAIL & MAY BE SUBJECT TO TRAMPLING.

General:
1 COLONY OBSERVED IN 1992. SITE IS WITHIN THE AMERICAN RIVER PARKWAY. HUDDLESTON DID NOT OBSERVE PLANTS IN 2005. DENSE SHRUB GROWTH PRESENT THROUGHOUT THE AREA. MAY BE EXTIRPATED.

PLSS: T08N, R05E, Sec. 10 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4268959 E638185	Latitude/Longitude: 38.55834 / -121.41403	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

HUD05F0004	HUDDLESTON, R. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2005-06-04
NOS92F0005	NOSAL, T. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1992-10-23



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	24523	EO Index:	12937
Key Quad:	Sacramento East (3812154)	Element Code:	PMALI040Q0
Occurrence Number:	29	Occurrence Last Updated:	2013-05-30

Scientific Name:	<i>Sagittaria sanfordii</i>	Common Name:	Sanford's arrowhead
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDB Element Ranks:	Global: G3 State: S3	Other Lists:	BLM_S-Sensitive

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS.	IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.

Last Date Observed:	1992-10-23	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1992-10-23	Occurrence Rank:	Fair
Owner/Manager:	SAC COUNTY-PARKS & REC	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 AMERICAN RIVER PARKWAY, SOUTH OF RIVER BETWEEN LEVEE AND RIVER, ~0.6 MILE WEST OF WATT AVE.

Detailed Location:
 WEST OF POWERLINES IN DRAINAGE CHANNEL.

Ecological:
 ALONG SILTY-CLAYEY BANK OF PERENIALLY WET DRAINAGE CHANNEL. ASSOCIATES INCLUDE LUDWIGIA PEPLOIDES, POLYGONUM PERSICARIA, CYPERUS. SAGITTARIA APPEARS TO BE GROWING WITHOUT MUCH COMPETITION FROM ITS ASSOCIATES.

Threats:
 PROXIMITY TO BIKE TRAIL MAY RESULT IN OCCASIONAL TRAMPLING.

General:
 1 COLONY OBSERVED IN 1992. A 1975 RUBTZOFF COLLECTION AND A 1979 TURNER COLLECTION ARE ALSO ATTRIBUTED TO THIS OCCURRENCE.

PLSS: T08N, R05E, Sec. 11 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4269490 E640006	Latitude/Longitude: 38.56284 / -121.39303	Elevation (feet): 20

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:

HOW80U0003	HOWARD, A. - COLLECTION INFORMATION REGARDING SAGITTARIA SANFORDII 1980-08-04
NOS92F0004	NOSAL, T. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1992-10-23
RUB75S0004	RUBTZOFF, P. - RUBTZOFF #8364 CAS #871564 1975-09-07
TUR79S0001	TURNER, C. - TURNER #546 UC (CITED IN HOW80U0003) 1979-08-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30130	EO Index: 4954
Key Quad: Florin (3812144)	Element Code: PMALI040Q0
Occurrence Number: 40	Occurrence Last Updated: 1994-09-27

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1993-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
MORRISON CREEK AT FLORIN ROAD, SACRAMENTO.

Detailed Location:
ALONG EITHER SIDE OF FLORIN ROAD, ABOUT 0.4 MILE EAST OF FRANKLIN BLVD.

Ecological:

Threats:

General:
ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL; ECOLOGICAL, THREAT, AND OWNERSHIP INFO NEEDED.

PLSS: T08N, R05E, Sec. 32 (M)	Accuracy: specific area	Area (acres): 11
UTM: Zone-10 N4262007 E635025	Latitude/Longitude: 38.49620 / -121.45163	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
NOR93M0001 NORTON, K. - MAPS OF SAGITTARIA SANFORDII IN THE SACRAMENTO AREA. 1993-11-07



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	30131	EO Index:	4953
Key Quad:	Florin (3812144)	Element Code:	PMALI040Q0
Occurrence Number:	41	Occurrence Last Updated:	2005-10-03

Scientific Name:	<i>Sagittaria sanfordii</i>			Common Name:	Sanford's arrowhead
Listing Status:	Federal:	None		Rare Plant Rank:	1B.2
	State:	None		Other Lists:	BLM_S-Sensitive
CNDDB Element Ranks:	Global:	G3			
	State:	S3			

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS.	IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.

Last Date Observed:	1993-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2005-07-02	Occurrence Rank:	None
Owner/Manager:	CITY OF SACRAMENTO	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
ELDER CREEK AT FRANKLIN BLVD, SACRAMENTO.

Detailed Location:
ALONG EITHER SIDE OF FRANKLIN BLVD., ABOUT 0.15 MILE NORTH OF MACK ROAD.

Ecological:
CONCRETE CHANNEL. THE ONLY VEGETATION OBSERVED IN 1995 WAS VERY SPARSE LUDWIGIA PELOIDES. VERY LITTLE AVAILABLE SUBSTRATE.

Threats:
CHANNEL MAINTENANCE? SITE SURROUNDED BY URBAN SPRAWL.

General:
UNKNOWN NUMBER OF PLANTS REPORTED AT THIS SITE BY NORTON IN 1993. REPEATED HIGH WATER EVENTS OR CHANNEL MAINTENANCE MAY HAVE SCOURED PLANTS FROM THIS CHANNEL; SHOULD BE MONITORED FOR RECOLONIZATION. NO PLANTS SEEN IN 2005.

PLSS:	T07N, R05E, Sec. 08 (M)	Accuracy:	specific area	Area (acres):	12
UTM:	Zone-10 N4259781 E635099	Latitude/Longitude:	38.47613 / -121.45121	Elevation (feet):	20

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:

HUD05F0006	HUDDLESTON, R. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2005-07-02
NOR93M0001	NORTON, K. - MAPS OF SAGITTARIA SANFORDII IN THE SACRAMENTO AREA. 1993-11-07
NOS95F0008	NOSAL, T. & J. NOSAL - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1995-05-16



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30132	EO Index: 4952
Key Quad: Florin (3812144)	Element Code: PMALI040Q0
Occurrence Number: 42	Occurrence Last Updated: 1994-08-04

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1993-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
BEACON CREEK AT HWY 99 & STOCKTON ROAD, SACRAMENTO.

Detailed Location:
MAPPED ABOUT 0.3 MILE SOUTHEAST OF ELSIE AVE AND EXTENDING FROM EAST OF STOCKTON ROAD TO JUST WEST OF HWY 99.

Ecological:
Threats:

General:
ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL; ECOLOGICAL, THREAT, AND OWNERSHIP INFO NEEDED.

PLSS: T07N, R05E, Sec. 10 (M)	Accuracy: specific area	Area (acres): 17
UTM: Zone-10 N4259225 E637993	Latitude/Longitude: 38.47068 / -121.41815	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
NOR93M0001 NORTON, K. - MAPS OF SAGITTARIA SANFORDII IN THE SACRAMENTO AREA. 1993-11-07



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30133	EO Index: 4947	
Key Quad: Florin (3812144)	Element Code: PMALI040Q0	
Occurrence Number: 43	Occurrence Last Updated: 2011-07-05	

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	
Federal: None	Rare Plant Rank: 1B.2
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 2011-05-06	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-05-06	Occurrence Rank: Excellent
Owner/Manager: COSUMNES CSD	Trend: Unknown
Presence: Presumed Extant	

Location:
ELK GROVE CREEK ON BOTH SIDES OF HIGHWAY 99 IN BETWEEN LAGUNA SPRINGS DRIVE AND EMERALD VISTA DRIVE.

Detailed Location:
ABOUT 0.25 MILE NORTH OF ELK GROVE BLVD IN CHANNEL BEHIND WALMART. SEVERAL COLONIES MAPPED BY CNDDDB AS 4 POLYGONS IN THE SE 1/4 OF SECTION 35 AND THE SW 1/4 OF SECTION 36.

Ecological:
IN THE ORDINARY HIGH WATER MARK OF THE CREEK; MAJORITY OF PLANTS FOUND IN THE DRY PORTIONS OF THE CREEK.

Threats:
DISTURBED BY GARBAGE AND DEBRIS. THREATENED BY INVASIVE SPECIES INCLUDING WATER PRIMROSE.

General:
UNKNOWN NUMBER OF PLANTS OBSERVED AT THIS LOCATION ACCORDING TO A 1993 MAP, UNKNOWN WHEN PLANTS SEEN. NO PLANTS OBSERVED IN 1998. 166 PLANTS OBSERVED IN 2011. SITE OWNED BY THE COSUMNES COMMUNITY SERVICES DISTRICT.

PLSS: T07N, R05E, Sec. 36 (M)	Accuracy: specific area	Area (acres): 9
UTM: Zone-10 N4252803 E640712	Latitude/Longitude: 38.41240 / -121.38828	Elevation (feet): 36

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

CAL11F0004	CALDERARO, A. (PMC) - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2011-05-06
NOR03U0001	NORTON, K. - EMAIL WITH CNDDDB STAFF REGARDING MANY POPULATIONS OF SAGITTARIA SANFORDII 2003-04-02
NOR93M0001	NORTON, K. - MAPS OF SAGITTARIA SANFORDII IN THE SACRAMENTO AREA. 1993-11-07



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30075	EO Index: 20718	
Key Quad: Sacramento East (3812154)	Element Code: PMALI040Q0	
Occurrence Number: 44	Occurrence Last Updated: 2005-10-03	

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1993-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-06-04	Occurrence Rank: None
Owner/Manager: SAC COUNTY-PARKS & REC	Trend: Unknown
Presence: Possibly Extirpated	

Location:
AMERICAN RIVER AT THE GUY WEST BRIDGE, CSUS SIDE OF THE RIVER, SACRAMENTO.

Detailed Location:

Ecological:

Threats:
LEVEE MAINTENANCE.

General:
ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL; ECOLOGICAL AND THREAT INFO NEEDED. SITE IS WITHIN THE LOWER AMERICAN RIVER PARKWAY COUNTY PARK. HUDDLESTON VISITED SITE IN 2005 AND DID NOT OBSERVE PLANTS.

PLSS: T08N, R05E, Sec. 10 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4269342 E637605	Latitude/Longitude: 38.56188 / -121.42061	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

HUD05F0005	HUDDLESTON, R. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2005-06-04
NOR93M0001	NORTON, K. - MAPS OF SAGITTARIA SANFORDII IN THE SACRAMENTO AREA. 1993-11-07



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	30076	EO Index:	14446
Key Quad:	Sacramento East (3812154)	Element Code:	PMALI040Q0
Occurrence Number:	45	Occurrence Last Updated:	1995-11-14

Scientific Name:	<i>Sagittaria sanfordii</i>	Common Name:	Sanford's arrowhead
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDDB Element Ranks:	Global: G3 State: S3	Other Lists:	BLM_S-Sensitive

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS.	IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.

Last Date Observed:	1994-05-29	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1994-05-29	Occurrence Rank:	Fair
Owner/Manager:	SAC COUNTY-PARKS & REC	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 AMERICAN RIVER UPSTREAM FROM WATT AVE, NORTH SIDE OF THE RIVER, SACRAMENTO.

Detailed Location:
 LOCATED ABOUT 0.3 MILE EAST OF WATT AVE, AT RIVER MILE 9.7. SITE IS DOWNSTREAM FROM WHERE STORM BASIN DRAINS INTO RIVER (BASIN IS JUST EAST OF THE TEICHERT COMPLEX).

Ecological:
 BARE, SANDY SHORE OF RIVER IN LESS THAN 6" OF WATER. NO OTHER VEGETATION NEARBY. BANK VEGETATION CONSISTS OF SALIX, RUBUS, ET AL.

Threats:
 PLANTS APPEAR TO HAVE BEEN GRAZED/BROWSED (MUSKRAT/BEAVER/DEER/?), MAY BE TRAMPLED BY RECREATIONAL USERS.

General:
 10 PLANTS OBSERVED IN 1994. SITE IS WITHIN THE LOWER AMERICAN RIVER PARKWAY COUNTY PARK.

PLSS: T08N, R05E, Sec. 01 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4270112 E641420	Latitude/Longitude: 38.56822 / -121.37668	Elevation (feet): 15

County Summary:	Quad Summary:
Sacramento	Carmichael (3812153), Sacramento East (3812154)

Sources:
 NOS94F0001 NOSAL, T. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1994-05-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30124	EO Index: 5004
Key Quad: Citrus Heights (3812163)	Element Code: PMALI040Q0
Occurrence Number: 46	Occurrence Last Updated: 1994-08-04

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1997-06-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-06-18	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
EAST SIDE OF ROSEVILLE ROAD ABOUT 0.9 MILE FROM ANTELOPE ROAD, ANTELOPE.

Detailed Location:
TWO COLONIES MAPPED BY NORTON IN 1993 IN DRAINAGES BETWEEN ROSEVILLE ROAD AND VILLAVIEW DRIVE AND NORTH OF OUTLOOK DRIVE. ONLY THE SOUTH COLONY REMAINING IN 1997.

Ecological:
UNLINED +/- NATURAL CHANNEL WITH SALIX AND TYPHA. SAGITTARIA DOMINATES MUCH OF THIS SHORT WATERCOURSE.

Threats:
SITE SURROUNDED BY NEW DEVELOPMENT. NORTH COLONY OBLITERATED BY EARTHMOVING EQUIPMENT.

General:
1000'S OF PLANTS OBSERVED IN 1997. THIS SMALL SECTION OF HABITAT APPEARS TO BE SET ASIDE BY THE CURRENT DEVELOPERS. CHANNEL IS MARKED AND EQUIPMENT APPEARS TO AVOID IMPACTING AREA.

PLSS: T10N, R06E, Sec. 15 (M)	Accuracy: specific area	Area (acres): 17
UTM: Zone-10 N4286609 E646379	Latitude/Longitude: 38.71602 / -121.31631	Elevation (feet): 150

County Summary: Sacramento	Quad Summary: Citrus Heights (3812163)
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Sources:
 NOR93M0001 NORTON, K. - MAPS OF SAGITTARIA SANFORDII IN THE SACRAMENTO AREA. 1993-11-07
 NOS97F0023 NOSAL, T. ET AL. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1997-06-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 37751	EO Index: 32758
Key Quad: Carmichael (3812153)	Element Code: PMALI040Q0
Occurrence Number: 48	Occurrence Last Updated: 1997-12-23

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1997-06-17	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-06-17	Occurrence Rank: Poor
Owner/Manager: SAC COUNTY-PUBLIC WORKS	Trend: Unknown
Presence: Presumed Extant	

Location:
RANCHO CORDOVA; CHANNEL ALONG EITHER SIDE OF DAWES AVENUE, NORTH OF DOLECETTO ROAD.

Detailed Location:
MAPPED FROM 0.25 MILE WEST OF DAWES AVE TO JUST EAST OF COLOMA ROAD. POPULATION MAY EXTEND FURTHER IN BOTH DIRECTIONS.

Ecological:
TYPICALLY GROWING IN JOINTS AND BROKEN SEGMENTS OF CONCRETE LINED FLOOD CHANNEL. FEW OTHER PLANTS, MAINLY ECHINOCHLOA AND OTHER NON-NATIVE GRASSES.

Threats:
CHANNEL MAINTENANCE AND REPAIR.

General:
PLANTS MOST VIGOROUS IN OLD BROKEN SECTIONS OF CHANNEL. THESE SECTIONS ARE SCHEDULED FOR REPAIR/REPLACEMENT IN 1997.

PLSS: T09N, R06E, Sec. 34 (M)	Accuracy: specific area	Area (acres): 50
UTM: Zone-10 N4273126 E647317	Latitude/Longitude: 38.59441 / -121.30838	Elevation (feet): 75

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

NOS95F0009	NOSAL, T. & J. NOSAL - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1995-05-22
NOS97F0020	NOSAL, T. & J. PISCOTTO - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1997-06-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 37753	EO Index: 32760
Key Quad: Citrus Heights (3812163)	Element Code: PMALI040Q0
Occurrence Number: 49	Occurrence Last Updated: 1997-12-23

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1997-06-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-06-18	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ROSEVILLE ROAD AT WHYTE AVE, JUST SOUTH OF SAC/PLA COUNTY LINE, ANTELOPE.

Detailed Location:
WEST OF ROSEVILLE ROAD IN CHANNEL BETWEEN ROAD AND RR TRACKS. NEAR CENTER OF SECTION.

Ecological:
FRESHWATER MARSH WITH TYPHA.

Threats:

General:
ABOUT 1000 PLANTS OBSERVED IN 1997. MOST PLANTS OCCUR WITHIN TWO 10X10 OPENINGS WITHIN THICK TYPHA STAND. SITE APPEARS TO BE UNMAINTAINED CHANNEL, FEW VISITORS. NO OBVIOUS THREATS.

PLSS: T10N, R06E, Sec. 15 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4287283 E646850	Latitude/Longitude: 38.72201 / -121.31075	Elevation (feet): 150

County Summary: Placer, Sacramento	Quad Summary: Citrus Heights (3812163)
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Sources:
NOS97F0022 NOSAL, T. ET AL. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1997-06-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 37757	EO Index: 32764
Key Quad: Citrus Heights (3812163)	Element Code: PMALI040Q0
Occurrence Number: 50	Occurrence Last Updated: 1997-12-23

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1994-07-21	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-07-21	Occurrence Rank: Excellent
Owner/Manager: SAC COUNTY-PUBLIC WORKS	Trend: Unknown
Presence: Presumed Extant	

Location:
CITRUS HEIGHTS; ALONG CREEK JUST EAST OF FAIR OAKS BLVD BETWEEN OAK BLVD AND OLD AUBURN ROAD.

Detailed Location:
MAPPED BETWEEN VILLA OAKS AND OLD AUBURN ROAD ALONG SUNRISE CREEK.

Ecological:
DRAINAGE CHANNEL WITH SLOW-MOVING WATER. ASSOCIATED WITH ECHINOCHLOA CRUS-GALLI, POLYGONUM LAPATHIFOLIUM, PASPALUM DILATATUM, CYPERUS ERAGROSTIS, AND SORGHUM HALAPENSE.

Threats:
HERBICIDE SPRAYING AND CHANNEL MAINTENANCE.

General:
NUMEROUS PLANTS SEEN IN JUNE 1994; CHANNEL CLEARED IN EARLY JULY 1994; PLANTS RECOLONIZED/NUMEROUS IN LATE JULY 1994.

PLSS: T10N, R07E, Sec. 19 (M)	Accuracy: specific area	Area (acres): 22
UTM: Zone-10 N4285706 E651112	Latitude/Longitude: 38.70709 / -121.26209	Elevation (feet): 180

County Summary: Sacramento	Quad Summary: Citrus Heights (3812163)
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Sources:

WYM94F0002	WYMER, N. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1994-06-30
WYM94F0003	WYMER, N. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1994-07-07
WYM94F0004	WYMER, N. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1994-07-21



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 50831	EO Index: 50831
Key Quad: Elk Grove (3812143)	Element Code: PMALI040Q0
Occurrence Number: 56	Occurrence Last Updated: 2003-05-23

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 1996-05-24	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1996-05-24	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH OF CALVINE ROAD, WEST OF CENTRAL CALIFORNIA TRACTION RAILROAD.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED AS PROVIDED, IN THE NW 1/4 OF THE SE 1/4 OF SECTION 16.

Ecological:
STOCK POND IN IRRIGATED PASTURE. NAVARRETIA ERIOCEPHALA IN PROPERTY TO NORTHWEST.

Threats:
SITE PROPOSED FOR RESIDENTIAL DEVELOPMENT.

General:
APPROXIMATELY 15 INDIVIDUALS OBSERVED IN 1996.

PLSS: T07N, R06E, Sec. 16 (M)	Accuracy: nonspecific area	Area (acres): 43
UTM: Zone-10 N4257961 E646315	Latitude/Longitude: 38.45797 / -121.32306	Elevation (feet): 65

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:
MAR96F0016 MARTIN, D. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 1996-05-24



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 50850	EO Index: 50850	
Key Quad: Sloughhouse (3812142)	Element Code: PMALI040Q0	
Occurrence Number: 57	Occurrence Last Updated: 2003-04-03	

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 199X-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 199X-XX-XX	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
ALONG GRANT LINE ROAD, SOUTH OF JCT OF GRANT LINE ROAD & SUNRISE BLVD.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS ALONG GRANT LINE ROAD SOUTH OF INTERSECTION.

Ecological:
IN DITCH ALONG ROADSIDE.

Threats:
ROADSIDE OCCURRENCE.

General:
SITE STUDIED BETWEEN 1991-1998, NO PLANTS REMAINED BY 1998. FIELDWORK NEEDED.

PLSS: T07N, R07E, Sec. 07 (M)	Accuracy: nonspecific area	Area (acres): 73
UTM: Zone-10 N4260421 E652828	Latitude/Longitude: 38.47903 / -121.24791	Elevation (feet):

County Summary: Sacramento	Quad Summary: Sloughhouse (3812142), Elk Grove (3812143)
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Sources:
NOR03U0001 NORTON, K. - EMAIL WITH CNDDDB STAFF REGARDING MANY POPULATIONS OF SAGITTARIA SANFORDII 2003-04-02



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	62282	EO Index:	62319
Key Quad:	Elk Grove (3812143)	Element Code:	PMALI040Q0
Occurrence Number:	58	Occurrence Last Updated:	2011-03-22

Scientific Name:	<i>Sagittaria sanfordii</i>	Common Name:	Sanford's arrowhead
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDB Element Ranks:	Global: G3 State: S3	Other Lists:	BLM_S-Sensitive

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS.	IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.

Last Date Observed:	2002-08-05	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-08-05	Occurrence Rank:	Good
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
UPPER LAGUNA CREEK, ABOUT 0.3 MILES SSE OF INTERSECTION OF SHELDON ROAD AND WATERMAN ROAD.

Detailed Location:
IN SHALLOW BENDS OF UPPER LAGUNA CREEK. MAPPED IN THE SW 1/4 OF THE NW 1/4 OF SECTION 29.

Ecological:
SHALLOW BENDS OF CREEK, GROWING EMERGENT IN STANDING WATER.

Threats:
POSSIBLE DEVELOPMENT PLANNED FOR THIS PARCEL AS OF 2002.

General:
500 PLANTS IN THREE PATCHES OBSERVED IN 2002.

PLSS: T07N, R06E, Sec. 29 (M)	Accuracy: specific area	Area (acres): 1
UTM: Zone-10 N4255265 E643975	Latitude/Longitude: 38.43406 / -121.35041	Elevation (feet): 50

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:

ROB02F0005	ROBISON, R. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2002-08-05
ROB02R0001	ROBISON, R. - SHELDON LAKES RARE PLANT SURVEY REPORT 2002-08-07



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 62284	EO Index: 62321
Key Quad: Florin (3812144)	Element Code: PMALI040Q0
Occurrence Number: 59	Occurrence Last Updated: 2005-08-11

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 2004-07-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-07-08	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
STRAWBERRY CREEK, ABOUT 0.3 MILES NNE OF INTERSECTION OF HIGHWAY 99 AND CALVINE ROAD.

Detailed Location:
MAPPED IN THE NW 1/4 OF THE SW 1/4 OF SECTION 14.

Ecological:
Threats:

PROPOSED WATER PIPELINE (AS OF 2004).

General:
UNKNOWN NUMBER OF PLANTS SEEN IN 2004.

PLSS: T07N, R05E, Sec. 14 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4257745 E639009	Latitude/Longitude: 38.45719 / -121.40680	Elevation (feet): 25

County Summary:	Quad Summary:
Sacramento	Florin (3812144)

Sources:
PRE04F0013 PRESTON, R. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2004-07-08



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 62786	EO Index: 62840
Key Quad: Florin (3812144)	Element Code: PMALI040Q0
Occurrence Number: 61	Occurrence Last Updated: 2005-10-04

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 2005-06-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-06-27	Occurrence Rank: Fair
Owner/Manager: SRCSD-BUFFERLANDS	Trend: Unknown
Presence: Presumed Extant	

Location:
MORRISON CREEK, EAST OF HIGHWAY 5, ABOUT 0.85 AIR MILE SOUTHEAST OF FREEPORT.

Detailed Location:
ALONG PORTION OF MORRISON CREEK WHICH WAS REROUTED TO THE WEST OF THE BUFFERLANDS CELL, SEASONAL WETLANDS.

Ecological:
THE PLANT COMMUNITY WITHIN THIS CREEK IS PREDOMINATELY LUDWIGIA SP. BOTH UP AND DOWNSTREAM OF THE ABOVE LOCATION. PERENNIAL AND ANNUAL SMARTWEEDS, POLYGONUM AMPHIBIUM VAR. EMERUM AND POLYGONUM PERSICARIA, ALSO OCCUR WITHIN THIS DRAINAGE.

Threats:
NONE IN 2005.

General:
5 PLANTS OBSERVED IN 2005.

PLSS: T07N, R04E, Sec. 24 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4256889 E631957	Latitude/Longitude: 38.45055 / -121.48776	Elevation (feet): 5

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:
PET05F0001 PETRASH, S. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2005-06-27



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 70036	EO Index: 70877
Key Quad: Elk Grove (3812143)	Element Code: PMALI040Q0
Occurrence Number: 62	Occurrence Last Updated: 2011-07-12

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 2011-05-06	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-05-06	Occurrence Rank: Good
Owner/Manager: CITY OF ELK GROVE	Trend: Unknown
Presence: Presumed Extant	

Location:
GRANT LINE CHANNEL, SOUTH SIDE OF GRANT LINE RD, ABOUT 0.29 MILE NE OF SR99 INTERCHANGE, ELK GROVE.

Detailed Location:
FROM EDGE OF GRANT LINE ROAD SOUTH ABOUT 400 FT, ADJACENT TO ARCO GAS STATION.

Ecological:
EMERGENT FRESHWATER MARSH. GROWING IN THICK SILT OF CONCRETE-LINED CHANNEL. GROWING WITH TYPHA LATIFOLIA, LUDWIGIA PEPLOIDES, ALISMA PLANTAGO-AQUATICA, ECHINOCHLOA CRUS-GALLI, AND UNKNOWN GRASSES.

Threats:
SMALL PORTION OF NORTH EDGE OF POPULATION MAY BE DAMAGED DURING ROAD WIDENING. GARBAGE AND DEBRIS PRESENT IN CHANNEL.

General:
1,000-10,000 PLANTS OBSERVED IN 2006. 2011: ABOUT 800 PLANTS OBSERVED IN A DENSE HOMOGENOUS STAND IN AN AREA OF 750 SQUARE FEET.

PLSS: T06N, R06E, Sec. 18 (M)	Accuracy: specific area	Area (acres): 3
UTM: Zone-10 N4249088 E643486	Latitude/Longitude: 38.37849 / -121.35727	Elevation (feet): 45

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

CAL11F0003	CALDERARO, A. (PMC) - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2011-05-06
COS05S0001	COSTELLA, T. - COSTELLA SN DAV #46598 2005-06-16
NOS06F0001	NOSAL, T. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2006-07-07



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 70038	EO Index: 70892
Key Quad: Florin (3812144)	Element Code: PMALI040Q0
Occurrence Number: 63	Occurrence Last Updated: 2008-08-12

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 2008-08-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2008-08-XX	Occurrence Rank: None
Owner/Manager: PVT?	Trend: Unknown
Presence: Possibly Extirpated	

Location:
DITCH ADJACENT TO HOUSING DEVELOPMENT, 0.6 AIR MILE SOUTH OF MEADOWVIEW ROAD, JUST EAST OF I-5, SACRAMENTO.

Detailed Location:

Ecological:
FRESHWATER MARSH.

Threats:

General:
OVER 300 PLANTS OBSERVED IN 2005. SITE GRADED IN 2008; ALL HABITAT WAS LIKELY DESTROYED.

PLSS: T07N, R04E, Sec. 12 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4259148 E631115	Latitude/Longitude: 38.47102 / -121.49698	Elevation (feet): 15

County Summary: Sacramento	Quad Summary: Florin (3812144)
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Sources:

WAR05F0006	WARD, M. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2005-07-10
WAR08U0001	WARD, M. (CALIFORNIA ENERGY COMMISSION) - EMAIL TO R. BITTMAN REGARDING GRADING AT SITE OF SAGITTARIA SANFORDII OCCURRENCE #63 2008-08-11



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 70043	EO Index: 70897
Key Quad: Sacramento East (3812154)	Element Code: PMALI040Q0
Occurrence Number: 66	Occurrence Last Updated: 2007-09-26

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 2005-07-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-07-10	Occurrence Rank: Fair
Owner/Manager: SACRAMENTO EXECUTIVE AIRPORT	Trend: Unknown
Presence: Presumed Extant	

Location:
ROADSIDE DITCH ON EAST SIDE OF FREEPORT BLVD, NW CORNER OF SACRAMENTO EXECUTIVE AIRPORT.

Detailed Location:
ADJACENT TO AIRPORT PARKING LOT AND ROAD.

Ecological:
FRESHWATER MARSH. ALISMA PLANTAGO-AQUATICUM COMMON.

Threats:
DITCH CLEARING/MAINTENANCE AND PESTICIDE RUNOFF FROM ADJACENT LAWN ARE POTENTIAL THREATS.

General:
APPROXIMATELY 40 PLANTS OBSERVED IN 2005.

PLSS: T08N, R04E, Sec. 25 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4264572 E630996	Latitude/Longitude: 38.51991 / -121.49733	Elevation (feet): 18

County Summary:	Quad Summary:
Sacramento	Sacramento East (3812154)

Sources:
WAR05F0007 WARD, M. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2005-07-10



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	73343	EO Index:	74310
Key Quad:	Rio Linda (3812164)	Element Code:	PMALI040Q0
Occurrence Number:	72	Occurrence Last Updated:	2009-02-11

Scientific Name:	<i>Sagittaria sanfordii</i>	Common Name:	Sanford's arrowhead
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDDB Element Ranks:	Global: G3 State: S3	Other Lists:	BLM_S-Sensitive

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS.	IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.

Last Date Observed:	2001-05-10	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2001-05-10	Occurrence Rank:	Good
Owner/Manager:	SAC COUNTY, PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 IN UNNAMED STREAM NORTH OF U ST BETWEEN 28TH ST AND THE OLD SEWAGE DISPOSAL SITE, NORTH HIGHLANDS.

Detailed Location:
 MAPPED BY CNDDDB IN THE EAST 1/2 OF SECTION 23 ACCORDING TO A 2001 PRESTON MAP.

Ecological:
 SLOW MOVING STREAM WITH VERONICA CATENATA, ALISMA LANCEOLATA, POLYPOGON INTERRUPTUS, SAGITTARIA SP.

Threats:
 URBAN RUNOFF.

General:
 1,000S OF PLANTS SEEN IN 2001.

PLSS: T10N, R05E, Sec. 23 (M)	Accuracy: specific area	Area (acres): 41
UTM: Zone-10 N4285633 E639370	Latitude/Longitude: 38.70836 / -121.39709	Elevation (feet): 70

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
 PRE01F0048 PRESTON, R. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2001-05-10



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	73344	EO Index:	74311
Key Quad:	Rio Linda (3812164)	Element Code:	PMALI040Q0
Occurrence Number:	73	Occurrence Last Updated:	2009-01-15

Scientific Name:	<i>Sagittaria sanfordii</i>	Common Name:	Sanford's arrowhead
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDDB Element Ranks:	Global: G3 State: S3	Other Lists:	BLM_S-Sensitive

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS.	IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.

Last Date Observed:	2006-07-23	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2008-07-01	Occurrence Rank:	None
Owner/Manager:	SAC AREA FLOOD CONTROL AGENCY	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
HANSEN RANCH; SOUTH OF ASCOT AVE, EAST OF STEELHEAD CREEK & NORTH OF DRY CREEK, SOUTH OF RIO LINDA.

Detailed Location:
MAPPED BY CNDDDB AROUND THE VERNAL POOL THAT CONTAINS SAGITTARIA SANFORDII IN THE NE1/4 OF SECTION 6 ACCORDING TO A 2006 KIMBALL NEELY ASSOCIATES, LLC MAP.

Ecological:
LARGE VERNAL POOL THAT IS DAMMED AT THE WEST FENCE LINE BY A BERM LOCATED ON THE ADJACENT PROPERTY. DOMINANT PLANTS IN THIS POOL INCLUDE ELEOCHARIS MACROSTACHYA, LOLIUM MULTIFLORUM, & RANUNCULUS BONARIENSIS VAR. TRISEPALUS.

Threats:
General:
UNKNOWN NUMBER OF PLANTS SEEN IN 2006. NOT SEEN IN 2008.

PLSS:	T09N, R05E, Sec. 06 (M)	Accuracy:	specific area	Area (acres):	2
UTM:	Zone-10 N4281150 E632670	Latitude/Longitude:	38.66900 / -121.47498	Elevation (feet):	30

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:

KIM06R0001	KIMBALL NEELY ASSOCIATES, LLC - HANSEN RANCH PRESERVE, FIFTH ANNUAL MONITORING REPORT; PREPARED FOR SACRAMENTO AREA FLOOD CONTROL AGENCY 2006-12-XX
KIM08R0001	KIMBALL NEELY ASSOCIATES, LLC - HANSEN RANCH PRESERVE, SEVENTH ANNUAL MONITORING REPORT; PREPARED FOR SACRAMENTO AREA FLOOD CONTROL AGENCY 2008-12-XX



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	73347	EO Index:	74314
Key Quad:	Elk Grove (3812143)	Element Code:	PMALI040Q0
Occurrence Number:	74	Occurrence Last Updated:	2009-01-06

Scientific Name:	<i>Sagittaria sanfordii</i>	Common Name:	Sanford's arrowhead
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDDB Element Ranks:	Global: G3 State: S3	Other Lists:	BLM_S-Sensitive

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS.	IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.

Last Date Observed:	1993-05-11	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1993-05-11	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ELK GROVE CREEK WHERE SP TRACKS CROSS CREEK, ~0.5 MILE NORTH OF GRANT LINE AND WATERMAN ROAD.

Detailed Location:
 MAPPED BY CNDDDB WHERE THE RR TRACKS CROSS ELK GROVE CREEK; THIS IS ~1 MILE NORTH OF THE INTERSECTION OF GRANT LINE ROAD AND WATERMAN ROAD (NOT 0.5 MILE NORTH AS STATED ON SPECIMEN LABEL). IN THE SE 1/4 OF SECTION 6.

Ecological:
 CREEKBED. CREEK CHANNELIZED EAST OF TRACKS, NATURAL TO THE WEST.

Threats:
General:
 LARGE COLONY OF 1000+ PLANTS SEEN IN 1993.

PLSS: T06N, R06E, Sec. 06 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4251120 E643221	Latitude/Longitude: 38.39684 / -121.35990	Elevation (feet): 0

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)

Sources:
 HRU93S0004 HRUSA, G.F. - HRUSA #10933 CDA #14260 1993-05-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 83313	EO Index: 84318	
Key Quad: Florin (3812144)	Element Code: PMALI040Q0	
Occurrence Number: 93	Occurrence Last Updated: 2011-07-05	

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 2009-06-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2009-06-22	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
DRAINAGE CHANNEL BETWEEN 0.05 AND 0.5 MILE NORTH OF HOOD FRANKLIN ROAD, ABOUT 0.7 MILE WEST OF I-5.

Detailed Location:
4 COLONIES MAPPED IN THE WEST 1/2 OF THE NE 1/4 OF SECTION 13 AND THE SW 1/4 OF THE SE 1/4 OF SECTION 12 ACCORDING TO 2010 DIGITAL DATA FROM THE DEPARTMENT OF WATER RESOURCES.

Ecological:
SEASONALLY INUNDATED CHANNEL CONNECTION TO OPEN WATER AREA. ALSO FOUND IN EMERGENT MARSH WITH MOSTLY TYPHA.

Threats:
THREATENED BY CATTLE ACTIVITY.

General:
2009 POPULATION NUMBERS FOR COLONIES FROM NORTH TO SOUTH: 4, 12, 150, AND 5.

PLSS: T06N, R04E, Sec. 13 (M)	Accuracy: specific area	Area (acres): 3
UTM: Zone-10 N4248743 E631906	Latitude/Longitude: 38.37716 / -121.48987	Elevation (feet): 5

County Summary: Sacramento	Quad Summary: Bruceville (3812134), Florin (3812144)
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Sources:
DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	89324	EO Index:	90318
Key Quad:	Florin (3812144)	Element Code:	PMALI040Q0
Occurrence Number:	96	Occurrence Last Updated:	2013-06-06

Scientific Name:	<i>Sagittaria sanfordii</i>	Common Name:	Sanford's arrowhead
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDB Element Ranks:	Global: G3 State: S3	Other Lists:	BLM_S-Sensitive

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS.	IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.

Last Date Observed:	2012-05-21	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2012-05-21	Occurrence Rank:	Fair
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:

NORTH BANK OF ELDER CREEK, APPROXIMATELY 200 FT WEST OF THE CENTER PARKWAY BRIDGE OVER ELDER CREEK.

Detailed Location:

NEAR A CITY OF SACRAMENTO SUMP OUTFALL. MAPPED IN THE SE 1/4 OF THE NW 1/4 OF SECTION 9 ACCORDING TO 2012 COORDINATES FROM ORSOLINI.

Ecological:

ELDER CREEK IS LINED WITH CONCRETE; GROWING OUT OF CRACKS IN THE CONCRETE. VEGETATION IS SPARSE IN THE BED OF THE CREEK. ASSOCIATED WITH CYPERUS SP. AND LUDWIGIA SP.

Threats:

THREATENED BY CHANNEL MAINTENANCE AND HIGH FLOWS FROM SUMP OUTFALL.

General:

5 PLANTS OBSERVED IN 2012.

PLSS:	T07N, R05E, Sec. 09 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4259737 E636229	Latitude/Longitude:	38.47556 / -121.43826	Elevation (feet):	15

County Summary:

Sacramento

Quad Summary:

Florin (3812144)

Sources:

ORS12F0001 ORSOLINI, J. - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2012-05-21



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 89327	EO Index: 90321
Key Quad: Sacramento East (3812154)	Element Code: PMALI040Q0
Occurrence Number: 97	Occurrence Last Updated: 2013-06-10

Scientific Name: <i>Sagittaria sanfordii</i>	Common Name: Sanford's arrowhead
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: MARSHES AND SWAMPS.	Micro Habitat: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-650 M.
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Last Date Observed: 2011-10-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-10-19	Occurrence Rank: Good
Owner/Manager: CITY OF SACRAMENTO, UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ARCADE CREEK AND SHALLOW DITCH TO THE SOUTHEAST, JUST EAST OF THE NATOMAS EAST MAIN DRAINAGE CANAL, SACRAMENTO.

Detailed Location:
2 POPULATIONS: ARCADE CRK POPULATION RUNS FROM THE NORWOOD AVE BRIDGE WEST TO THE RAILROAD CROSSING AT THE DRAINAGE CANAL, SECOND POPULATION IN A SHALLOW DITCH LOCATED ON VACANT PARCEL SW OF THE INTERSECTION OF NORWOOD AVE AND LINDLEY AVE.

Ecological:
NW POLYGON: SHALLOW EDGES OF CREEK, ASSOCIATED WITH LUDWIGIA SP., SCIRPUS SP., AND TYPHA SP. SE POLYGON: WITHIN A SHALLOW DITCH, NO OTHER PLANTS OBSERVED IN DITCH.

Threats:
DISTURBED BY 2011 BRIDGE REPLACEMENT. THREATENED BY NON-NATIVE PLANTS, POSSIBLE DITCH MAINTENANCE, OR DEVELOPMENT.

General:
2000+ PLANTS OBSERVED IN NORTHWEST POLYGON AND 3000+ PLANTS OBSERVED IN SOUTHEAST POLYGON IN 2011. PLANTS LOCATED UNDER NORWOOD AVE BRIDGE WERE TRANSPLANTED ~375 FEET DOWNSTREAM DUE TO BRIDGE REPLACEMENT.

PLSS: T09N, R05E, Sec. 20 (M)	Accuracy: specific area	Area (acres): 19
UTM: Zone-10 N4276093 E634001	Latitude/Longitude: 38.62325 / -121.46066	Elevation (feet): 20

County Summary: Sacramento	Quad Summary: Sacramento East (3812154)
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Sources:

ORS11F0001	ORSOLINI, J. (SYCAMORE ENVIRONMENTAL CONSULTANTS, INC.) - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2011-07-12
ORS11F0002	ORSOLINI, J. (SYCAMORE ENVIRONMENTAL CONSULTANTS, INC.) - FIELD SURVEY FORM FOR SAGITTARIA SANFORDII 2011-07-12



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	83593	EO Index:	84626
Key Quad:	Courtland (3812135)	Element Code:	PMCYP032Y0
Occurrence Number:	28	Occurrence Last Updated:	2011-08-23

Scientific Name:	<i>Carex comosa</i>	Common Name:	bristly sedge
Listing Status:	Federal: None State: None	Rare Plant Rank:	2B.1
CNDDDB Element Ranks:	Global: G5 State: S2	Other Lists:	

General Habitat:	Micro Habitat:
MARSHES AND SWAMPS.	LAKE MARGINS, WET PLACES; SITE BELOW SEA LEVEL IS ON A DELTA ISLAND. -5-1005M.

Last Date Observed:	2009-06-22	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2009-06-22	Occurrence Rank:	Good
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 FROM 0.15 TO 0.75 MILE NORTH OF HOOD FRANKLIN ROAD ALONG RAILROAD TRACKS, BETWEEN SACRAMENTO RIVER AND I-5, E OF HOOD.

Detailed Location:
 MAPPED BY CNDDDB AS 3 POLYGONS ACCORDING TO 2010 CALIFORNIA DEPARTMENT OF WATER RESOURCES DIGITAL DATA THROUGH THE MIDDLE OF SECTION 14.

Ecological:
 RIPARIAN.

Threats:
 BLACKBERRY AND WATER HYACINTH ARE THREATS.

General:
 IN 2009, SOUTHERNMOST POLYGON HAD 50 PLANTS, THE CENTRAL POLYGON HAD 3 PLANTS, AND THE NORTHERN POLYGON HAD 1 PLANT.

PLSS: T06N, R04E, Sec. 14 (M)	Accuracy: specific area	Area (acres): 12
UTM: Zone-10 N4248114 E630189	Latitude/Longitude: 38.37175 / -121.50964	Elevation (feet): 5

County Summary:	Quad Summary:
Sacramento	Courtland (3812135), Clarksburg (3812145)

Sources:
 DWR10D0001 CALIFORNIA DEPARTMENT OF WATER RESOURCES - BAY DELTA CONSERVATION PLAN SURVEY DATA 2010-01-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 43633	EO Index: 43633	
Key Quad: Carmichael (3812153)	Element Code: PMJUN011L1	
Occurrence Number: 8	Occurrence Last Updated: 2010-05-11	

Scientific Name: <i>Juncus leiospermus var. ahartii</i>	Common Name: Ahart's dwarf rush
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: G2T1	
State: S1	

General Habitat: VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat: RESTRICTED TO THE EDGES OF VERNAL POOLS. 30-229 M.
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Last Date Observed: 2006-05-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-05-15	Occurrence Rank: Fair
Owner/Manager: SAC COUNTY	Trend: Decreasing
Presence: Presumed Extant	

Location:
MATHER FIELD, WEST OF EAGLES NEST ROAD ABOUT 1.8 MILES SOUTH OF JCT WITH DOUGLAS BLVD, SOUTH OF RANCHO CORDOVA.

Detailed Location:
PLANTS ARE IN VERNAL POOLS ABOUT 0.15 MILES WEST OF EAGLES NEST ROAD, ACROSS FROM THE MODEL AIRPLANE FLYERS CLUB. MAPPED WITHIN THE SE 1/4 OF THE NE 1/4 OF SECTION 24.

Ecological:
SHALLOW VERNAL POOLS GENERALLY DOMINATED BY NAVARRETIA LEUCOCEPHALA. PLANTS FOUND IN BARE AREAS WITHIN POOLS (USUALLY ON MARGINS) AND ALONG VERNAL SWALES. WITH JUNCUS UNCIALIS, GRATIOLA EBRACTEATA, PILULARIA AMERICANA, & CRASSULA AQUATICA.

Threats:
SITE HAS BEEN PROPOSED FOR AN AGGREGATE MINE.

General:
300 PLANTS OBSERVED IN 2000. 9 PLANTS OBSERVED IN 2006. THE RARE GRATIOLA HETEROSEPALA IS FOUND IN NEARBY POOLS.

PLSS: T08N, R06E, Sec. 24 (M)	Accuracy: specific area	Area (acres): 1
UTM: Zone-10 N4266501 E651258	Latitude/Longitude: 38.53407 / -121.26458	Elevation (feet): 135

County Summary: Sacramento	Quad Summary: Carmichael (3812153)
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Sources:

WIT00F0005	WITHAM, C. - FIELD SURVEY FORM FOR JUNCUS LEIOSPERMUS VAR. AHARTII 2000-05-01
WIT00S0002	WITHAM, C. - WITHAM #847 JEPS #97510 2000-05-01
WIT06R0001	WITHAM, C. - REPORT: 2006 FOCUSED FIELD SURVEY FOR AHART'S DWARF RUSH 2006-09-21



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	20979	EO Index:	9238
Key Quad:	Rio Linda (3812164)	Element Code:	PMLIL0V010
Occurrence Number:	9	Occurrence Last Updated:	2008-08-04

Scientific Name:	<i>Fritillaria agrestis</i>	Common Name:	stinkbells
Listing Status:	Federal: None State: None	Rare Plant Rank:	4.2
CNDDDB Element Ranks:	Global: G3 State: S3	Other Lists:	

General Habitat:	Micro Habitat:
CISMONTANE WOODLAND, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND.	SOMETIMES ON SERPENTINE; MOSTLY FOUND IN NONNATIVE GRASSLAND OR IN GRASSY OPENINGS IN CLAY SOIL. 10-1555 M.

Last Date Observed:	1994-03-16	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1997-06-18	Occurrence Rank:	None
Owner/Manager:	PVT?	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
 SW CORNER OF DRY CREEK ROAD AND ROOD ROAD. ABOUT 1.6 MI S OF RIO LINDA.

Detailed Location:
Ecological:
 IN VACANT LOT IN BROMUS DOMINATED NONNATIVE GRASSLAND.

Threats:
 HIGH POTENTIAL FOR DEVELOPMENT.

General:
 45 PLANTS SEEN IN 1991 IN AN AREA NO LARGER THAN 1 ACRE, 200 PLANTS IN 1994. SITE WAS DISKED IN 1997; PLANTS POSSIBLY EXTIRPATED.

PLSS: T09N, R05E, Sec. 10 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4280579 E635831	Latitude/Longitude: 38.66338 / -121.43877	Elevation (feet): 40

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:

NOS97F0014	NOSAL, T. ET AL. - FIELD SURVEY FORM FOR FRITILLARIA AGRESTIS 1997-06-18
PRE94F0001	PRESTON, R. - FIELD SURVEY FORM FOR FRITILLARIA AGRESTIS 1994-03-16
WIT91F0002	WITHAM, C. - FIELD SURVEY FORM FOR FRITILLARIA AGRESTIS 1991-03-18



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	20978	EO Index:	9239
Key Quad:	Rio Linda (3812164)	Element Code:	PMLIL0V010
Occurrence Number:	10	Occurrence Last Updated:	1997-08-11

Scientific Name:	<i>Fritillaria agrestis</i>	Common Name:	stinkbells
Listing Status:	Federal: None State: None	Rare Plant Rank:	4.2
CNDDDB Element Ranks:	Global: G3 State: S3	Other Lists:	

General Habitat:	Micro Habitat:
CISMONTANE WOODLAND, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND.	SOMETIMES ON SERPENTINE; MOSTLY FOUND IN NONNATIVE GRASSLAND OR IN GRASSY OPENINGS IN CLAY SOIL. 10-1555 M.

Last Date Observed:	1991-03-18	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1997-06-18	Occurrence Rank:	Fair
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
E OF ROSE ST, N OF ROOD RD. ABOUT 0.25 MI N OF ROBLA SCHOOL.

Detailed Location:
IN A FIELD AT THE END OF GRAVEL ROAD.

Ecological:
IN DISKED FIELD ON UPLANDS IN NONNATIVE ANNUAL GRASSLAND, VERNAL POOLS ON SITE; HARDPAN IS ABOUT 12-18 INCHES BELOW SOIL SURFACE EVEN IN HIGHER TOPOGRAPHY.

Threats:
PORTION OF SITE SLATED FOR HOUSING DEVELOPMENT. PART DISKED IN 1997.

General:
175 PLANTS SEEN IN 1991. HABITAT APPEARED INTACT IN 1997 EXCEPT FOR A PORTION NEAR THE ROAD WHICH HAD BEEN DISKED. NO PLANTS FOUND (TOO LATE).

PLSS:	T09N, R05E, Sec. 10 (M)	Accuracy:	specific area	Area (acres):	8
UTM:	Zone-10 N4280817 E635213	Latitude/Longitude:	38.66562 / -121.44583	Elevation (feet):	40

County Summary:	Quad Summary:
Sacramento	Rio Linda (3812164)

Sources:
NOS97F0015 NOSAL, T. ET AL. - FIELD SURVEY FORM FOR FRITILLARIA AGRESTIS 1997-06-18
WIT91F0003 WITHAM, C. - FIELD SURVEY FORM FOR FRITILLARIA AGRESTIS 1991-04-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 21173	EO Index: 9151
Key Quad: Citrus Heights (3812163)	Element Code: PMLILOV010
Occurrence Number: 11	Occurrence Last Updated: 1992-05-15

Scientific Name: <i>Fritillaria agrestis</i>	Common Name: stinkbells
Listing Status:	Rare Plant Rank: 4.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: CISMONTANE WOODLAND, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat: SOMETIMES ON SERPENTINE; MOSTLY FOUND IN NONNATIVE GRASSLAND OR IN GRASSY OPENINGS IN CLAY SOIL. 10-1555 M.
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Last Date Observed: 1990-03-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1990-03-25	Occurrence Rank: Good
Owner/Manager: PVT?	Trend: Unknown
Presence: Presumed Extant	

Location:
CARMICHAEL; AT NE CORNER OF WINDING WAY AND HACKBERRY STREET.

Detailed Location:
IN AREA SURROUNDING PRODUCE STAND.

Ecological:
UNPLOWED ROLLING GRASSLAND WITH ERODIUM, ANNUAL GRASSES, ETC.

Threats:
PARTIALLY A PARKING AREA FOR THE PRODUCE STAND.

General:
150-200 PLANTS SEEN IN 1990.

PLSS: T09N, R06E, Sec. 09 (M)	Accuracy: specific area	Area (acres): 5
UTM: Zone-10 N4279192 E645225	Latitude/Longitude: 38.64940 / -121.33113	Elevation (feet): 120

County Summary: Sacramento	Quad Summary: Citrus Heights (3812163)
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Sources:
CLA90F0001 CLARK, G. - FIELD SURVEY FORM FOR FRITILLARIA AGRESTIS 1990-03-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 20958	EO Index: 9075
Key Quad: Citrus Heights (3812163)	Element Code: PMLILOV010
Occurrence Number: 12	Occurrence Last Updated: 2008-08-04

Scientific Name: <i>Fritillaria agrestis</i>	Common Name: stinkbells
Listing Status:	Rare Plant Rank: 4.2
Federal: None	Other Lists:
State: None	
CNDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: CISMONTANE WOODLAND, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat: SOMETIMES ON SERPENTINE; MOSTLY FOUND IN NONNATIVE GRASSLAND OR IN GRASSY OPENINGS IN CLAY SOIL. 10-1555 M.
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Last Date Observed: 1979-03-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-06-18	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
W SIDE OF NORTH ANTELOPE RD, 28 YARDS N OF PLACER/SACRAMENTO COUNTY LINE.

Detailed Location:
COMMERCIAL BUSINESS ACROSS THE ROAD.

Ecological:
AT TOP OF CUT SLOPE IN PASTURE.

Threats:
DEVELOPMENT, DISKING.

General:
2 PLANTS SEEN IN 1979. NOT FOUND IN 1994; ADJACENT PASTURE DISKED IN THE PAST YEAR. THIS SITE WAS DISKED WHEN VISITED IN 1997; PLANTS MAY BE EXTIRPATED AT THIS SITE.

PLSS: T10N, R06E, Sec. 16 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4287519 E645354	Latitude/Longitude: 38.72439 / -121.32790	Elevation (feet): 130

County Summary: Placer, Sacramento	Quad Summary: Citrus Heights (3812163)
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Sources:

NOS97F0016	NOSAL, T. ET AL. - FIELD SURVEY FORM FOR FRITILLARIA AGRESTIS 1997-06-18
PRE94F0002	PRESTON, R. - FIELD SURVEY FORM FOR FRITILLARIA AGRESTIS 1994-03-16
SMI79F0001	SMITH, E. & C. SMITH - FIELD SURVEY FORM FOR FRITILLARIA AGRESTIS 1979-03-22



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number:	11658	EO Index:	22364
Key Quad:	Elk Grove (3812143)	Element Code:	PMPOA4G050
Occurrence Number:	16	Occurrence Last Updated:	2013-04-22

Scientific Name:	<i>Orcuttia tenuis</i>	Common Name:	slender Orcutt grass
Listing Status:	Federal: Threatened State: Endangered	Rare Plant Rank:	1B.1
CNDDB Element Ranks:	Global: G2 State: S2	Other Lists:	SB_UCBBG-UC Berkeley Botanical Garden

General Habitat:	Micro Habitat:
VERNAL POOLS.	OFTEN IN GRAVELLY POOLS. 35-1760 M.

Last Date Observed:	2010-08-13	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2010-08-13	Occurrence Rank:	Good
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WEST SIDE OF LAGUNA CREEK, 0.2 MILE EAST OF EXCELSIOR ROAD, 0.7 MILE NORTH OF DIERKS ROAD, SE OF SACRAMENTO.

Detailed Location:
CNDDB PREVIOUSLY HAD AN ADDITIONAL POLYGON MAPPED JUST NORTH OF THIS SITE WHICH HAS SINCE BEEN DETERMINED TO BE ERRONEOUS.

Ecological:
ELONGATE, NARROW VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA, ALLOCARYA STIPITATA, DOWNINGIA BICORNUTA, NAVARRETIA LEUCOCEPHALA, PSILOCARPUS BREVISSIMUS, ERYNGIUM VASEYI, ETC.

Threats:
ENCROACHING DEVELOPMENT, THATCH BUILD-UP, INVASIVES, HYDROLOGICAL CHANGES, HERBICIDE RESIDUES, HUMAN DISTURBANCE.

General:
OBSERVED IN 1980. HOLLAND REPORTED 10,000+ PLANTS IN 1983, ABUNDANT IN 1986 AND 1987, SEVERAL HUNDRED INDIVIDUALS IN 2003, 1500 PLANTS OBSERVED IN 2010. INCLUDES FORMER OCCURRENCE #19.

PLSS: T07N, R06E, Sec. 11 (M)	Accuracy: specific area	Area (acres): 2
UTM: Zone-10 N4260202 E648964	Latitude/Longitude: 38.47771 / -121.29223	Elevation (feet): 90

County Summary:	Quad Summary:
Sacramento	Elk Grove (3812143)



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Sources:

BIO88R0001	BIOSYSTEMS ANALYSIS, INC. - STATUS SURVEY OF THE GRASS TRIBE ORCUTTIEAE AND CHAMAESYCE HOOVERI IN THE CENTRAL VALLEY OF CALIFORNIA 1988-09-XX
COC84U0002	COCHRANE, S. - PERSONAL COMMUNICATION REGARDING OCCURRENCES OF ORCUTTIA TENUIS 1984-03-26
ECO05R0011	ECORP CONSULTING, INC. - OPERATIONS AND MANAGEMENT PLAN FOR THE KLOTZ PROPERTY OPEN SPACE PRESERVE, SACRAMENTO COUNTY, CA. 2005-08-09
GRI80M0001	GRIGGS, T. - MAP FOR SPINK CORP. OF ORCUTTIA VISCIDA (THIS WAS MIS-IDENTIFIED AND SHOULD ACTUALLY BE O. TENUIS). 1980-XX-XX
GRI80S0002	GRIGGS, T. - GRIGGS SN DAV #88276 1980-09-29
GRI80U0001	GRIGGS, T. - INFORMATION ON ORCUTTIA TENUIS 1980-12-09
GRI83U0012	GRIGGS, T. - TABLE (FROM 1983 ELEMENT PRESERVATION PLAN PROJECT) WITH INFO ON SEVERAL SITES OF ORCUTTIA TENUIS 1983-12-XX
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JOK93S0003	JOKERST, J. - JOKERST #3982 CHSC #66973 UCSB #63834 1993-06-03
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SAC81R0001	SACRAMENTO CO. PLANNING & DEVELOPMENT DEPT. - KLOTZ SUBDIVISION ENVIRONMENTAL IMPACT REPORT 1981-03-11
STO86S0027	STONE, R. - STONE #731 JEPS #83913 1986-06-18
STO87S0014	STONE - STONE #816 JEPS #84151 1987-05-19
WIT13R0001	WITHAM, C. - STATUS SURVEYS FOR SEVEN FEDERALLY LISTED VERNAL POOL GRASSES AND CHAMAESYCE HOOVERI IN THE SACRAMENTO AND SAN JOAQUIN VALLEYS (GREAT VALLEY), CALIFORNIA, USA 2013-03-25



Occurrence Report
California Department of Fish and Wildlife
California Natural Diversity Database



Map Index Number: 62810	EO Index: 62864
Key Quad: Elk Grove (3812143)	Element Code: PMPOA4G050
Occurrence Number: 90	Occurrence Last Updated: 2013-04-17

Scientific Name: <i>Orcuttia tenuis</i>	Common Name: slender Orcutt grass
Listing Status:	Rare Plant Rank: 1B.1
Federal: Threatened	Other Lists: SB_UCBBG-UC Berkeley Botanical Garden
State: Endangered	
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: OFTEN IN GRAVELLY POOLS. 35-1760 M.
--	--

Last Date Observed: 2010-08-30	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-08-30	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
0.3 AIR MILE NE OF THE INTERSECTION OF EXCELSIOR ROAD AND DIERKS ROAD, SOUTH OF LAGUNA CREEK, SE OF SACRAMENTO.

Detailed Location:
SITE KNOWN AS THE "WERRE POOL."

Ecological:
DEEP VERNAL POOL WITHIN VERNAL POOL - SWALE - GRASSLAND COMPLEX. ASSOCIATED WITH GLYCERIA DECLINATA, LASTHENIA GLABERRIMA, RANUNCULUS ALVEOLATUS, ELEOCHARIS MACROSTACHYA, ERYNGIUM VASEYI, PSILOCARPHUS BREVISSIMUS, AND LEPIDURUS PACKARDII.

Threats:
CURRENT AND PAST CATTLE GRAZING. RESIDENTIAL DEVELOPMENT NEARBY, BUT NOT ON THIS PARCEL.

General:
500-1000 PLANTS OBSERVED IN 2004. GREATER THAN 5000 PLANTS OBSERVED IN 2010.

PLSS: T07N, R06E, Sec. 11 (M)	Accuracy: specific area	Area (acres): 1
UTM: Zone-10 N4259436 E648851	Latitude/Longitude: 38.47083 / -121.29369	Elevation (feet): 85

County Summary: Sacramento	Quad Summary: Elk Grove (3812143)
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Sources:

HOL04S0002	HOLLAND, R. - HOLLAND #3258 DAV #88277 2004-06-09
SKO04F0001	SKORDAL, D. - FIELD SURVEY FORM FOR ORCUTTIA TENUIS 2004-06-07
WIT13R0001	WITHAM, C. - STATUS SURVEYS FOR SEVEN FEDERALLY LISTED VERNAL POOL GRASSES AND CHAMAESYCE HOOVERI IN THE SACRAMENTO AND SAN JOAQUIN VALLEYS (GREAT VALLEY), CALIFORNIA, USA 2013-03-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34802	EO Index: 63059
Key Quad: Elk Grove (3812143)	Element Code: PMPOA4G070
Occurrence Number: 20	Occurrence Last Updated: 2013-05-09

Scientific Name: <i>Orcuttia viscida</i>	Common Name: Sacramento Orcutt grass
Listing Status:	Rare Plant Rank: 1B.1
Federal: Endangered	Other Lists:
State: Endangered	
CNDDDB Element Ranks:	
Global: G1	
State: S1	

General Habitat: VERNAL POOLS.	Micro Habitat: 30-100 M.
--	------------------------------------

Last Date Observed: 1998-07-30	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2011-07-26	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Extirpated	

Location:
ON THE NORTH SIDE OF FLORIN RD, APPROXIMATELY 0.25 MILE EAST OF EXCELSIOR AVE.

Detailed Location:
ARROYO SECO MITIGATION BANK. MAPPED AS BEST GUESS BY CNDDDB BASED ON A 1998 HRUSA LOCATION DESCRIPTION.

Ecological:
IN MUDFLOW VERNAL POOLS WITH ROCKY BOTTOMS.

Threats:
POOL IS NOW PERMANENT MARSH DUE TO RUNOFF FROM NURSERY ACROSS FLORIN ROAD.

General:
ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1998 HRUSA COLLECTION. HRUSA VERIFIED WHICH POOL THE COLLECTION WAS MADE FROM AND IT IS NOW PERMANANT MARSH; ENTIRE ARROYO SECO PRESERVE SURVEYED IN 2010 AND 2011, NO PLANTS OBSERVED.

PLSS: T08N, R06E, Sec. 35 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4262458 E648688	Latitude/Longitude: 38.49808 / -121.29492	Elevation (feet): 50

County Summary: Sacramento	Quad Summary: Elk Grove (3812143), Carmichael (3812153)
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Sources:

HRU98S0001	HRUSA, G.F. - HRUSA #14764 UCR #115049, CDA #107716, RSA #670135 1998-07-30
WIT13R0001	WITHAM, C. - STATUS SURVEYS FOR SEVEN FEDERALLY LISTED VERNAL POOL GRASSES AND CHAMAESYCE HOOVERI IN THE SACRAMENTO AND SAN JOAQUIN VALLEYS (GREAT VALLEY), CALIFORNIA, USA 2013-03-25



Appendix D

Cultural Resource Assessment



**Phase I Cultural Resources Assessment
Sacramento Senior Living Project
City of Sacramento, Sacramento County, California**

Sacramento East, California, USGS 7.5-minute Topographic Quadrangle Map
Township 9N, Range 5E, Section 29
5-Acre Study Area

Prepared for:

Columbia Pacific Advisors, LLC

1910 Fairview Avenue E, Suite 200

Seattle, WA 98102

Contact: Mr. Bill Hardt,

Prepared by:

HELIX Environmental Planning, Inc.

11 Natoma Street, Suite 155

Folsom CA 95630

Fieldwork Conducted By: Carrie D. Wills, MA, RPA

Fieldwork Conducted On: July 17, 2015

Building Evaluations Conducted By: Kathleen Crawford, MA

Report Date: September 23, 2015

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MANAGEMENT SUMMARY

At the request of Columbia Pacific Advisors, LLC, HELIX Environmental Planning (HELIX) conducted a Phase I Cultural Resource Assessment at the proposed project area located within the City of Sacramento, California (Exhibit 1). Totalling approximately five acres, the proposed project consists of demolition of four buildings within the larger Red Lion Hotel complex (originally named the Lakewood Inn). In addition to the original assessment, a second building evaluation was conducted for buildings that were subsequently slated for demolition.

The purpose of this assessment is to identify the presence or absence of potentially significant cultural resources within the project area, and, if impacted by the proposed development, propose recommendations for mitigation. Completion of this investigation fulfills the requirements associated with the California Environmental Quality Act (CEQA). This report follows the California Office of Historic Preservation (OHP) procedures for cultural resource surveys and the OHP's format for archaeological reports.

On July 17, 2015, HELIX Senior Archaeologist conducted a record search at the North Central Information Center (file number SAC-15-123). The results indicate that the project area has not been subject to a systematic survey for cultural resources, and no prehistoric or historic period resources have been recorded within or adjacent to the project area. Results from the search indicate that the project area has not been subject to a systematic survey for cultural resources, and no prehistoric or historic period resources have been recorded within or adjacent to the project area.

A letter was sent to the Native American Heritage Commission (NAHC) on July 24, 2015 requesting a search of the Sacred Lands files. A follow up email was sent on August 18, to inquire about the status of the search but as of this date, no response has been received.

A field survey of the project area was conducted by HELIX Senior Archaeologist Carrie D. Wills, on July 17, 2015. Because the project area is completely covered with buildings, access drives, and parking lots, there was no ground surface visibility. The survey focused on recording and photographing the four extant buildings. The four buildings were evaluated by HELIX Architectural Historian, Kathleen Crawford. In addition, three other buildings, collectively named Building F, were photographed on November 27th and evaluated for historic significance by Ms. Crawford on December 1st, 2015.

No historic or prehistoric artifacts, features, resources, or sites were discovered during the course of the field survey. In addition, none of the four original buildings nor the additional Building F buildings within the project area are considered historically or architecturally significant at the local, state or federal levels. Therefore, HELIX does not recommend additional compliance work for this project.

SECTION 1: INTRODUCTION

1.1 - Project Location

Located in the City of Sacramento California, the Sacramento Senior Living Project is located in an urbanized portion of the City with commercial, light industrial, and residential uses in the general vicinity (Exhibit 1).

The project area is depicted on the Sacramento East California, United States Geological Survey (USGS) 7.5-minute topographic quadrangle map, in T9N, R5E and Section 29 (Exhibit 2). The property south of I-160, west of Exposition Boulevard, east of Canterbury Road and north of Expo Parkway (Exhibit 3).

1.2 - Project Description

The project area consists of demolition of seven hotel buildings within the Red Lion Inn hotel complex.


1.3 - Assessment Team

HELIX Professional Archaeologist Carrie D. Wills conducted the pedestrian survey and authored this report. HELIX Architectural Historian, Kathleen Crawford conducted the building evaluations.



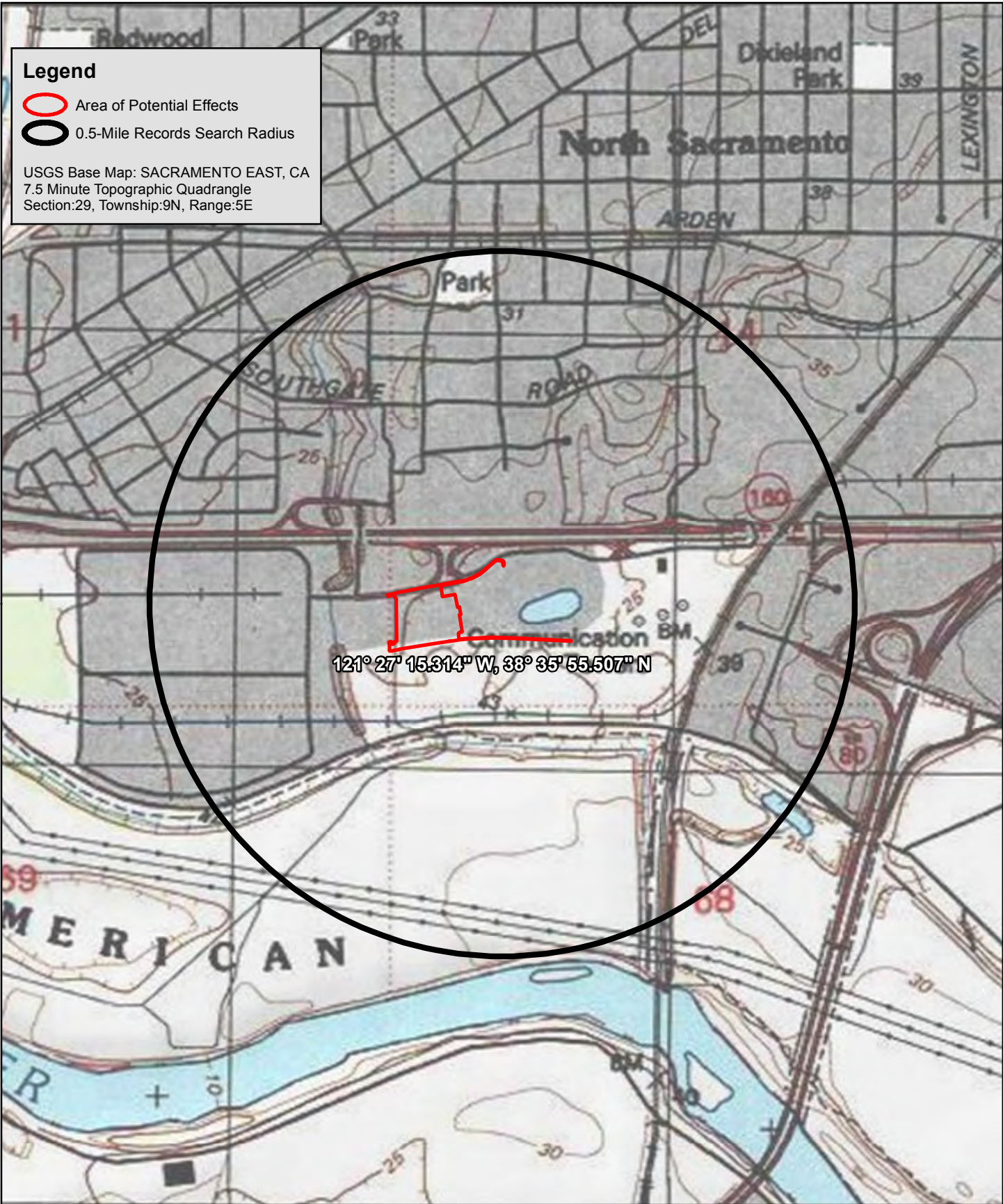
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Legend

 Area of Potential Effects

Regional Location Map

SACRAMENTO SENIOR LIVING PROJECT



Legend

- Area of Potential Effects
- 0.5-Mile Records Search Radius

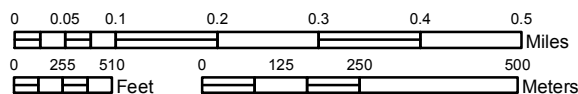
USGS Base Map: SACRAMENTO EAST, CA
 7.5 Minute Topographic Quadrangle
 Section:29, Township:9N, Range:5E

121° 27' 15.314" W, 38° 35' 55.507" N

S:\PROJECTS\LEA-ALL\LEA-01_WoodlakeAssistedLiving\GIS\MXD\Cultural\USGS_050Mile_buffer.mxd LEA-01_07/10/15_JH

Local Vicinity Map, Topographic Base

SACRAMENTO SENIOR LIVING PROJECT



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Legend
 [Outline] Area of Potential Effects

Local Vicinity Map, Aerial Base

SACRAMENTO SENIOR LIVING PROJECT

SECTION 2: CULTURAL SETTING

Following is a brief overview of the prehistory, ethnography, and historic background, providing a context in which to understand the background and relevance of sites found in the general project area. This section is not intended to be a comprehensive review of the current resources available; rather, it serves as a general overview.

Further details can be found in ethnographic studies, mission records, and major published sources, including Beardsley (1948), Bennyhoff (1950), Fredrickson (1973 and 1974), Kroeber (1925), Chartkoff and Chartkoff (1984), and Moratto (1984).

2.1 - Prehistoric Background

Early archaeological investigations in central California were conducted at sites located in the Sacramento-San Joaquin Delta region. The first published account documents investigations in the Lodi and Stockton area (Schenck and Dawson 1929). The initial archaeological reports typically contained descriptive narratives, with more systematic approaches sponsored by Sacramento Junior College in the 1930s. At the same time, University of California at Berkeley excavated several sites in the lower Sacramento Valley and Delta region, which resulted in recognizing archaeological site patterns based on variations of inter-site assemblages. Research during the 1930s identified temporal periods in central California prehistory and provided an initial chronological sequence (Lillard and Purves 1936; Lillard, et al. 1939). In 1939, Lillard noted that each cultural period led directly to the next and that influences spread from the Delta region to other regions in central California (Lillard, et al. 1939). In the late 1940s and early 1950s, Beardsley documented similarities in artifacts among sites in the San Francisco Bay region and the Delta and refined his findings into a cultural model that ultimately became known as the Central California Taxonomic System (CCTS). This system proposed a uniform, linear sequence of cultural succession (Beardsley 1948 and 1954). The CCTS system was challenged by Gerow, whose work looked at radiocarbon dating to show that Early and Middle Horizon sites were not subsequent developments but, at least partially, contemporaneous (1954; 1974; Gerow with Force 1968).

To address some of the flaws in the CCTS system, Fredrickson (1973) introduced a revision that incorporated a system of spatial and cultural integrative units. Fredrickson separated cultural, temporal, and spatial units from each other and assigned them to six chronological periods: Paleo-Indian (10000 to 6000 B.C.); Lower, Middle and Upper Archaic (6000 B.C. to A.D. 500), and Emergent (Upper and Lower, A.D. 500 to 1800). The suggested temporal ranges are similar to earlier horizons, which are broad cultural units that can be arranged in a temporal sequence (Moratto 1984). In addition, Fredrickson defined several patterns—a general way of life shared within a specific geographical region. These patterns include:

- Windmiller Pattern or Early Horizon (3000 to 1000 B.C.)
- Berkeley Pattern or Middle Horizon (1000 B.C. to A.D. 500)
- Augustine Pattern or Late Horizon (A.D. 500 to historic period)

Brief descriptions of these temporal ranges and their unique characteristics follow.

2.1.1 - Windmill Pattern or Early Horizon (3000 to 1000 B.C.)

Characterized by the Windmill Pattern, the Early Horizon was centered in the Cosumnes district of the Delta and emphasized hunting rather than gathering, as evidenced by the abundance of projectile points in relation to plant processing tools. Additionally, atlatl, dart, and spear technologies typically included stemmed projectile points of slate and chert but minimal obsidian. The large variety of projectile point types and faunal remains suggests exploitation of numerous types of terrestrial and aquatic species (Bennyhoff 1950; Ragir 1972). Burials occurred in cemeteries and intra-village graves. These burials typically were ventrally extended, although some dorsal extensions are known with a westerly orientation and a high number of grave goods. Trade networks focused on acquisition of ornamental and ceremonial objects in finished form rather than on raw material. The presence of artifacts made of exotic materials such as quartz, obsidian, and shell indicates an extensive trade network that may represent the arrival of Utian populations into central California. Also indicative of this period are rectangular *Haliotis* and *Olivella* shell beads, and charmstones that usually were perforated.

2.1.2 - Berkeley Pattern or Middle Horizon (1000 B.C. to A.D. 500)

The Middle Horizon is characterized by the Berkeley Pattern, which displays considerable changes from the Early Horizon. This period exhibited a strong milling technology represented by minimally shaped cobble mortars and pestles, although metates and manos were still used. Dart and atlatl technologies during this period were characterized by non-stemmed projectile points made primarily of obsidian. Fredrickson (1973) suggests that the Berkeley Pattern marked the eastward expansion of Miwok groups from the San Francisco Bay Area. Compared with the Early Horizon, there is a higher proportion of grinding implements at this time, implying an emphasis on plant resources rather than on hunting. Typical burials occurred within the village with flexed positions, variable cardinal orientation, and some cremations. As noted by Lillard, the practice of spreading ground ochre over the burial was common at this time (Lillard, et al. 1939). Grave goods during this period are generally sparse and typically include only utilitarian items and a few ornamental objects. However, objects such as charmstones, quartz crystals, and bone whistles occasionally were present, which suggest the religious or ceremonial significance of the individual (Hughes 1994). During this period, larger populations are suggested by the number and depth of sites compared with the Windmill Pattern. According to Fredrickson (1973), the Berkeley Pattern reflects gradual expansion or assimilation of different populations rather than sudden population replacement and a gradual shift in economic emphasis.

2.1.3 - Augustine Pattern or Late Horizon (A.D. 500 to Historic Period)

The Late Horizon is characterized by the Augustine Pattern, which represents a shift in the general subsistence pattern. Changes include the introduction of bow and arrow technology; and most importantly, acorns became the predominant food resource. Trade systems expanded to include raw resources as well as finished products. There are more baked clay artifacts and extensive use of *Haliotis*

ornaments of many elaborate shapes and forms. Burial patterns retained the use of flexed burials with variable orientation, but there was a reduction in the use of ochre and widespread evidence of cremation (Moratto 1984). Judging from the number and types of grave goods associated with the two types of burials, cremation seems to have been reserved for individuals of higher status, whereas other individuals were buried in flexed positions. Johnson (1976) suggests that the Augustine Pattern represents expansion of the Wintuan population from the north, which resulted in combining new traits with those established during the Berkeley Pattern.

Central California research has expanded from an emphasis on defining chronological and cultural units to a more comprehensive look at settlement and subsistence systems. This shift is illustrated by the early use of burials to identify mortuary assemblages and more recent research using osteological data to determine the health of prehistoric populations (Dickel et al. 1984). Although debate continues over a single model or sequence for central California, the general framework consisting of three temporal/cultural units is generally accepted, although the identification of regional and local variation is a major goal of current archaeological research.

2.2 - Native American Background

At the time of European contact, the project vicinity was occupied by the Eastern (Plains) Miwok tribe of California Native Americans. The Plains Miwok occupied the area bounded by both banks of the Sacramento River from Rio Vista to the west to Sacramento to the north, the lower reaches of the Calaveras and Mokelumne river drainages to the south, and the foothills of the Sierra Nevada to the east. Plains Miwok territory extended approximately 60 miles east to west and 35 miles north to south. Based primarily on linguistic variation, the Eastern Miwok are part of the Miwokan subgroup of the Utian language family. The Eastern Miwok are further divided into five distinct linguistic and cultural groups: Bay Miwok, Plains Miwok, Northern Sierra Miwok, Central Sierra Miwok, and the Southern Sierra Miwok (Levy 1978).

Plains Miwok political organization was centered around the tribelet. Each Plains Miwok tribelet was an independent political entity and functioned primarily within their recognized geographical boundaries. Large, multilineal villages were concentrated on rises along watercourses, and all but the smallest villages were occupied permanently, except during the fall acorn harvest (Bennyhoff 1977). The Plains Miwok constructed houses made of conically-arranged wood poles covered with a thatch of grass, brush, or tules, and richer men built semi-subterranean earth-covered dwellings. Assembly houses were also constructed in villages, and served as the gathering point for ritual and social activities. These structures were semi-subterranean, and consisted of a three to four-foot deep pit measuring 40-50 feet in diameter, which was covered with layers of plant materials and then covered with earth, all supported by a conical roof on four wooden center posts. Other communal buildings constructed in villages would have been: a sweathouse used for curing diseases and purification before hunting expeditions; a circular assembly house; and a conical structure built over a bedrock mortar so that acorn and seed grinding could take place in wet weather (Levy 1978).

The Plains Miwok subsistence base varied and included gathering seasonal plant resources, hunting, and fishing. The Plains Miwok didn't depend on one staple, as their territory provided year-round sources of different food. Acorns were an important food resource and were stored in granaries, in addition to buckeye and pine nuts (digger and sugar pine), and to a lesser extent laurel nuts and hazelnuts. A large variety of seeds and roots, as well as various types of greens and mushrooms, also contributed to their diet. The Plains Miwok conducted an annual burning of the land (in August) to promote the growth of forage for deer, antelope, and tule elk, which they hunted communally and individually. Meat from a hunted animal was divided among tribelet members according to culturally defined rules. Ethnographic reports indicate that the Plains Miwok also caught blacktailed jackrabbits and cottontails with nets in the summer during communal hunting activities, as well as beaver, gray squirrels, ground squirrels, and woodrats, which were caught with snares and traps. Birds were hunted for food, and waterfowl were an important resource. In addition, band-tailed pigeons, red-shafted flickers, jays, and woodpeckers, were also hunted and used for their feathers and skins to decorate clothing and regalia. Fishing was also important for the Plains Miwok, and salmon provided the dominant food resource, with sturgeon and lampreys being caught as well. In the rivers, mussels and freshwater clams were collected (Bennyhoff 1977; Levy 1978). Archaeological investigations at sites on South Stone Lake (CA-SAC-65 and CA-SAC-145) indicate a considerable reliance on fishing for subsistence among the prehistoric populations (Schulz and Simons 1973, Schulz et al. 1979). In addition to gathering resources, the Plains Miwok obtained wild tobacco in addition to planting tobacco seeds and cultivating the plants (Bennyhoff 1977; Levy 1978).

The first contact between the Plains Miwok and Euro-Americans came during Spanish military and religious expeditions. The Franciscan order of the Roman Catholic Church in Spain established Mission San Jose, the fourteenth in the Alta California system, on June 11, 1797 (Bennyhoff 1977, Hoover et al. 1990). Alvarez Gabriel Moraga led an overland expedition from this San Francisco Bay area mission to the Sacramento region in 1808. On May 13, 1817, Father Narciso Duran and Luis Arguello left the beach at the Presidio of San Francisco and sailed up the Sacramento River. They reached a point midway between Clarksburg and Freeport before they turned back and went around Brannan Island (Beck and Haase 1977).

2.3 - Historic Background

Early Spanish explorers and the Franciscan and Jesuit missionaries who followed them were the first Europeans to reach northern California. The interior of the Sacramento Valley, away from the easily defended and more accessible chain of coastal missions and pueblos, was left largely untouched by the Spanish and "Californios" (Hoover et al. 1990). Settlement of the Sacramento area did not begin until the late 1830s and early 1840s, when entrepreneurs such as John Sutter and Jared Sheldon obtained land grants from the Mexican government, typically in exchange for an agreement to protect Mexican interest in these remote regions (Beck and Haase 1977). In 1839, John Sutter built the earliest Euro-American settlement within Sacramento County. Named Sutter's Fort, it was well known outpost that brought with it an increase in Euro-American trappers, hunters, and settlers to the Sacramento area. As a result of the Mexican War (1847-1848), California became part of the territory of the United States. In 1848, gold was discovered at Sutter's Mill in Coloma which resulted in a torrent of gold seekers

flooding into the Sacramento region. As the population soared and the gold decreased, many of the the settlers who decided to stay turned to alternative vocations, particularly agriculture. Many found that the local land was relatively cheap and provided good crops. Raising grain, livestock, and produce to sell to the thousands of miners heading to the gold fields proved a profitable venture. These combined events hastened the settlement of the area and the development of Sacramento as an economic and transportation center. The designation of Sacramento as the state capital, in 1854, also resulted in the area's increase in socio-political importance.

2.3.1 - City of Sacramento

In 1848, the history of the City and County of Sacramento began with the founding of the City by Samuel Brannan and John Augustus Sutter, Jr. at an embarcadero constructed by John Sutter, Sr. The City was named after the Sacramento River which forms its western border.

California's history changed dramatically in 1848 when gold was discovered at a sawmill, operated by James Marshall for Sutter, one of his many business operations. The mill was located in Coloma and soon the California Gold Rush was exploding. Thousands of miners came in droves from all over the world, arriving in any way that they could, hoping to strike it rich in the rivers of California. At this same time, the United States was involved in the Mexican War with Mexico. Various political and economic factors were at play and in February 1848, when the Treaty of Guadalupe Hidalgo was signed, giving the United States vast areas of Mexico's northern empire. By 1850, California's population had risen to over 100,000 due to the presence of the miners and the people who followed them to provide goods and services to the mining communities scattered across northern California.

Sutter's various business operations and settlements were in the middle of the gold rush frenzy. The trade around the wharf established by Sutter at the junction of the two rivers became a central trading point and Sutter planned to build a city at this location. Sutter put his son, John Jr., in charge of the newly formed Sacramento City. Things did not go smoothly for the newly developing city and, due to its proximity to the two rivers, the City periodically filled with water. A devastating flood took place in January 1850, causing extensive destruction. Fires periodically swept through the City, causing more destruction.

Harrdin Bigelow led the efforts to create a system of dikes and levees to protect the City. As a result of his efforts to protect the City, he was elected the City's first mayor. To resolve the problems, the City worked to raise the sidewalks and buildings and began to replace the original wood buildings with new brick and stone structures. Due to the origins of the City, it did not contain the gambling houses and saloons popular in many of the gold rush communities. Churches and synagogues were founded early on in the City's history, creating a stable foundation for new residents. Edward Kemble moved north from San Francisco and founded the City's first newspaper, *The Placer Times*. The newspaper folded a few months later as Kemble became ill. Soon a theater company was formed and the Eagle Theater became one of the early cultural centers of the City. The first elementary schoolhouse was built in 1853 and the first high school was constructed in 1856.

A cholera epidemic devastated the City in 1850, causing approximately a thousand deaths. Eight percent of the City's residents fled to escape the epidemic.

The State of California and the City were in a state of flux, various forces were shifting within the State as the area attempted to create new government systems. Changes continued to reshape the City and eventually the City evolved into a stable government. The City was selected as the state capitol in 1854 where it remains today. During the 1850s, the City continued to grow and expand, surviving fires and floods and a tumultuous political climate to become a major trading center. As the agricultural potential of California began to develop, crops began to move through Sacramento to other parts of the United States. The Sacramento Valley Railroad and the Pony Express came to Sacramento, creating more connections across the country. By 1861, the telegraph had been brought to Sacramento, rendering the Pony Express obsolete.

Another major flood occurred in the early 1860s, forcing major changes in the levee system and resulting in a major rebuilding of the City's homes and businesses. Many buildings now had basements as the first floor was lower than the newly raised streets. The second floor now became the main floor. These basements that still remain in some of the buildings are known as Sacramento's Underground. New streets were laid out on filled land and the City expanded significantly.

The construction of the transcontinental railroad brought the east and west coasts of the country together with its completion in 1862. In January 1863, ground was broken in Sacramento for the Central Pacific Railroad and its connections the larger national network of rail lines. Railroad "wars" took place over the next decades as lines were absorbed by competitors and the State sought to create a unified, comprehensive rail system. As the railroad system became more organized and stable, the changing technology of the era created refrigerated railroad cars, capable of shipping fruit and produce across country without spoiling. This major advance had profound impacts on the City's and County's economy. Wheat prices dropped, formerly a major crop, and fruit products took precedence. By the 1880s, the original wheat ranches had broken up, the original owners had died, and their heirs sold land to newcomers interested in starting orchards. The resulting "land boom" brought new residents and spurred the economy significantly. A wide range of immigrants from Europe and Asia came to the Sacramento area to start farms and wineries and add their talents to the local economy. The population began to skyrocket, and soon the school district moved the one high school in 1887 to a new permanent location and opened twelve new elementary schools. Starting in 1894, the school system began to integrate its schools, which was due to the diverse ethnicities in the City and surrounding areas.

The 20th century brought war to the world and the rise of the automobile. By the early 1900s, 27 families owned cars, which was a rarity. Soon ownership expanded in great numbers; horse and buggies and other early forms of transportation became obsolete. Railroads and steamboats became increasingly important in moving goods across the region and the State. The nationwide Progressive movement brought more political changes to the State and the County. Reform movements swept the country, attempting to alleviate the problems of the poor, under educated and lower levels of the population. A referendum was passed that reformed the City's government charter to equalize the

political power of the wards. As the City began to expand with the working class, political dominance was shifting. Women's suffrage was causing major shifts in the political system nationwide (Sacramento women received the vote in 1911, 20 years before the rest of the country), the railroad monopolies were broken up, and the County was dealing with the realities of World War I. As the nation armed for war, Mather Air Force Base was built in the southern Sacramento area, resulting in a significant economic impact. Eventually, over 4,000 men from Sacramento served in World War I, and approximately 100 died in the war. The nation's growing fascination with air travel led to air shows, and the use of bi-planes to perform crop seeding and boost the growing agricultural base of the economy.

Old Mexican land grants were broken up and sold, and soon new communities such as Citrus Heights, Orangevale, Fair Oaks, and Carmichael emerged. Small surrounding communities were gradually annexed into the City, thereby creating a larger tax base, boosting the economy, and providing more business opportunities. The changes of the Roaring Twenties and Prohibition brought a decline in the wine industry that provided an additional economic base for the City. Major wineries closed because of the ban on alcohol and the economy shifted as the Great Depression of the 1930s commenced. By 1932, over 15,000 Sacramento residents were unemployed, on a par with the rest of the State and country. The canning industry was deeply affected as the demand for canned goods dropped sharply, resulting a ripple effect on the local agricultural industry. A major freeze in 1932 destroyed half the year's citrus crop. "Hooverilles" sprang up across the region as struggling people who were out of work lost their homes. Government-funded relief programs sought to alleviate the worst of the situation, but the City was hard hit by the nation's economic problems. Mobs stormed the welfare offices in 1933 demanding assistance, a symptom of the deepening depression. Franklin Roosevelt's New Deal programs provided some relief for the nation's economy. The Tower Bridge over the Sacramento River was built in 1935 with New Deal funds, providing jobs for local residents. In addition, the Works Progress Administration programs built forty-six new buildings in Sacramento, new roads and new runways at local airports.

The worsening global crises were bringing the world to the second great war of the 20th century. Preparation for war brought new industries to northern California and new military bases were under development. The creation of factories to build planes and ships helped to spur the economy in the late 1930s. Additional economic boost was provided by the construction of McClellan Air Force Base, which began in 1936 and was completed in 1939. Mather Air Force Base was also reopened in 1936. The Sacramento Army Depot was opened in 1942 and became a major communication equipment repair base.

The surprise attack on Pearl Harbor in December 1941 led the nation to war and each city was required to prepare security and emergency plans. Rationing and conservation of resources were major concerns of city officials. Victory gardens sprang up as people grew food to spare resources for the war effort. Executive Order 9066 was enacted in February 1942, requiring the internment of Japanese residents of California and other western states, who were deemed a potential threat to America; several internment camps were set up in the State. Residents of California, many of whom were American citizens, were required to report for transport to the camps where they remained for the duration of the war. Japanese-owned businesses were liquidated, farms were sold, and families lost

their homes. Financial assets were frozen and the nation prepared for war. By this Executive Order, Sacramento was placed in a military zone.

During the 20th century, the need for higher education institutions led to the construction of the California State University and University of California systems. The University of California, Sacramento was founded in 1947. The civil rights movements of the 1950s brought increased awareness to Sacramento. In 1966, Mexican labor leader, Cesar Chavez, brought his United Farm Workers march to Sacramento as part of his plan to reorganize the farmworkers.

As the 21st century began, despite recent economic woes, Sacramento continued to grow, and it maintains its position as one of the most economically viable cities in California. As the capitol city of California, Sacramento retains its unique position as the political center of the State.

SECTION 3: RESULTS

3.1 - Record Search

3.1.1 - Information Center Search

On July 17, 2015, HELIX Senior Archaeologist conducted a record search at the North Central Information Center (NCIC) of the California Historical Resources Information Center (NCIC file number SAC-15-123) for the project area and a 0.50-mile radius beyond the project boundaries. To identify any historic properties or resources, the current inventories of the National Register of Historic Places (NR), the California Register of Historic Resources (CR), the California Historical Landmarks (CHL) list, the California Points of Historical Interest (CPHI) list, and the California State Historic Resources Inventory (HRI) were reviewed to determine the existence of previously documented local historical resources.

The results indicate that the project area has not been subject to a systematic survey for cultural resources, and no prehistoric or historic period resources have been recorded within or adjacent to the project area. However, the North Sacramento Freeway which is approximately 400 feet north of the project area has been previously recorded.

3.1.2 - Native American Heritage Commission Record Search

A letter was sent to the Native American Heritage Commission (NAHC) on July 24, 2015 requesting a search of the Sacred Lands files. A follow up email was sent on August 18, to inquire about the status of the search but as of this date, no response has been received. Once a response has been received that includes a list of Native American representatives, information request letters will be sent to each of the representatives requesting any additional information they may have about the project area. Information detailing the date the letters were sent and any responses received, will be submitted as an addendum to this report.

3.2 - Pedestrian Survey and Building Evaluations

A field survey of the project area was conducted by HELIX Senior Archaeologist Carrie D. Wills, on July 17, 2015. Because the project area is completely covered with asphalt and buildings, there was no ground surface visibility. The survey focused on recording and photographing the four extant buildings. Due to project changes, an additional field survey was conducted on November 27, 2015 to photo document three buildings also slated for demolition.

In addition to the photo documentation, all of the buildings were evaluated for historic significance by HELIX Architectural Historian, Kathleen Crawford as follows.

No pre-contact Native American resources or sites were discovered during the course of the field survey.

3.2.1 - BUILDING EVALUATIONS

The subject property contains multiple buildings that are part of the larger Red Lion Hotel complex (originally named the Lakewood Inn). The first buildings on the property were constructed in the late 1950s and the four buildings that will be demolished during project development were constructed in the early 1960s as part of the hotel's expansion process. These four buildings under consideration are located at the far west end of the property and include three, one-story, rectangular shaped, Modern Spanish style buildings, and one, two-story, irregular shaped, Modern Spanish style building. The three one-story buildings were constructed in rows, running east to west with hotel rooms along the north and south elevations of each building, with parking lots in between each structure. The two-story building was placed at the far end of the property and extends along the sides of the three one-story buildings and runs north to south with hotel rooms along the east elevation. All four buildings are used as hotel rooms for guests.

The three single-story buildings are named "Willow," (the southernmost building), "Spruce," (the center building)," and "Cypress," (the northernmost building). The two-story building is simply designated as the "700 Building."

The three one-story buildings are similar in style and have concrete foundations, stucco exteriors and flat roofs. The front of the buildings on the east elevation contain an arched section that rises above the roofline. This section contains the name of the specific building. The area under the roof sections have a flat roof with faux vigas (a rough-hewn roof timber or rafter, especially on an adobe building). Square columns with square capitals support the roof sections. The space between the columns and wall is infilled with small bushes. The west elevation of each building is basically blank with column detailing. The buildings contain multiple hotel rooms placed in a single row along the north and south facades. Each unit has a single wood door flanked by metal framed, double hung sash style and fixed pane, rectangular shaped windows. The walkways along the elevations contain shed roofs which are supported by square columns with small square capitals. The parking spaces are located immediately outside the door of each unit for ease of parking. Small landscaped areas bracket the parking areas and the ends of the buildings. Additional trees are located along the parking areas for shade and greenery purposes.

The two-story building has a concrete foundation, stucco exterior, and a flat roof. The front of the building, the south elevation, contains a large arched parapet section which extends to the east, culminating in a two-story wing wall with a tall, arched opening. The section provides a screen for the metal staircase behind it. The section has a flat roof and a back wall with arched openings, as well as a screened portion on the east elevation. The section is supported by the same square columns as seen on the other buildings. The rooms extend along the east elevation of the building and include the same details as seen on the smaller buildings. The individual rooms have single wood door entrances which are flanked by metal framed, fixed pane and double hung sash style windows for each unit. The second floor units are accessed by the staircase at the south end of the building and a balcony with a metal

railing extends along the length of the building. The roof extends out over the balcony area and is supported by square columns. Landscaping is present around the sides of the building.

The subject property was examined for potential historical and architectural significance for the local City of Sacramento historic register, State of California Historic Resources Register, and the National Register of Historic Places. The building complex is not considered to meet any of the established criteria for significance. The hotel complex is one of many chain hotels in the Sacramento area and has played no significant role in the development of the city of Sacramento or the State of California. No persons of any level of historic significance are associated with the design or development of the property. None of the four buildings are considered to be architecturally significant as they are standard examples of Modern motel architecture with no innovative or unusual characteristics. The buildings are not good examples of a type, style, or method of construction of Modern architecture. The buildings do not have the ability to convey any important information regarding their design, use, or development of the subject property. Therefore, none of the buildings on the subject property are considered to be historically or architecturally significant at the local, state or federal levels.

Additional Building Evaluations

The three additional buildings slated for demolition are collectively labeled Building F. The buildings are part of the larger Red Lion Hotel complex (originally named the Lakewood Inn). The first buildings on the hotel property were constructed in the late 1950s and the three buildings, collectively known as Buildings F, were constructed in the early 1960s as part of the hotel's expansion process.

Building F consists of three one-story story, Modern Spanish style, commercial hotel buildings which are placed in an L-shaped configuration in the central portion of the hotel property. The buildings vary in size but are basically rectangular shaped. The three buildings have concrete foundations, stucco exteriors, and flat roofs. The asymmetrical design, rectangular shaped buildings lack any significant exterior detail or ornamentation. The buildings have large blocks of blank wall space broken by delivery entrances or guest entrances. Vertical columns divide open bays along the side of the buildings. Windows are fixed pane, rectangular shaped windows. The buildings are in fair condition with no major alterations noted. The buildings are surrounded by access roads and drives, small parking areas, with small areas of minimal landscaping consisting of small bushes and trees.

The three additional buildings were assessed for potential historical and architectural significance for the local City of Sacramento historic register, State of California Register of Historical Resources, and the National Register of Historic Places. The building complex is not considered to meet any of the established criteria for historic significance. The hotel complex is one of many chain hotels in the Sacramento area and has played no significant role in the development of the city of Sacramento or the State of California. No persons of any level of historic significance are associated with the design or development of the property. None of the buildings are considered architecturally significant as they are standard examples of Modern motel architecture with no innovative or unusual characteristics. The buildings are not good examples of a type, style, or method of construction of Modern architecture. The buildings do not have the ability to convey any important information regarding their design, use, or

development of the subject property. Therefore, none of the buildings on the subject property are considered to be historically or architecturally significant at the local, state or federal levels.

A Department of Parks and Recreation (DPR) Primary form for the buildings is provided below.

SECTION 4: SUMMARY AND RECOMMENDATIONS

4.1 - Summary

In accordance with CEQA regulations, HELIX assessed the effects of development for the project area. Results from the NCIC indicate that no prehistoric or historic period resources have been recorded within or adjacent to the project area. A letter was sent to the NAHC on July 24, 2015 and a follow up email was sent on August 18, requesting a search of the Sacred Lands files. As of this date, no response has been received.

Two field surveys and building evaluations were conducted for this project. The first survey was conducted in July and the second in November 2015. No pre-contact Native American sites or resources were found during the course of the surveys.

Because of the lack of ground surface visibility, the surveys focused on recording and photographing the seven buildings slated for demolition. All seven of the buildings were evaluated by HELIX Architectural Historian, Kathleen Crawford. Her evaluations concluded that none of the buildings are considered historically or architecturally significant at the local, state or federal levels.

4.2 - Recommendations

4.2.1 - Cultural Resources Recommendations

The project area consists of a hotel complex with seven buildings slated for demolition. There was no ground surface visibility as the area is covered by buildings, asphalt parking lots with sparse landscape elements. No prehistoric resources were discovered during the course of the pedestrian survey. In addition, the seven extant buildings were evaluated and are considered not to be historically or architecturally significant at the local, state or federal levels.

Based on the results of the record searches, pedestrian survey, and building evaluations, HELIX considers the project area to have low sensitivity for historical resources, and archaeological monitoring and/or other mitigation measures are not recommended. However, procedures for inadvertent discoveries of human remains and cultural resources are provided below.

4.3 - Inadvertent Discovery Procedures

4.3.1 - Accidental Discovery of Human Remains

There is always the possibility that ground-disturbing activities during construction may uncover previously unknown buried human remains. Should this occur, Section 7050.5 of the California Health and Safety Code applies, and the following procedures shall be followed.

In the event of an accidental discovery or recognition of any human remains, Public Resource Code (PRC) Section 5097.98 must be followed. In this instance, once project-related earthmoving begins and if there is accidental discovery or recognition of any human remains, the following steps shall be taken:

1. There shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until the County Coroner is contacted to determine if the remains are Native American and if an investigation of the cause of death is required. If the coroner determines the remains to be Native American, the coroner shall contact the NAHC within 24 hours, and the NAHC shall identify the person or persons it believes to be the “most likely descendant” of the deceased Native American. The most likely descendant may make recommendations to the landowner or the person responsible for the excavation work, for means of treating or disposing of, with appropriate dignity, the human remains and any associated grave goods as provided in PRC Section 5097.98, or
2. Where the following conditions occur, the landowner or his/her authorized representative shall rebury the Native American human remains and associated grave goods with appropriate dignity either in accordance with the recommendations of the most likely descendent or on the project area in a location not subject to further subsurface disturbance:
 - The NAHC is unable to identify a most likely descendent or the most likely descendent failed to make a recommendation within 48 hours after being notified by the commission;
 - The descendent identified fails to make a recommendation; or
 - The landowner or his authorized representative rejects the recommendation of the descendent, and the mediation by the NAHC fails to provide measures acceptable to the landowner.

4.3.2 - Accidental Discovery of Cultural Resources

It is always possible that ground-disturbing activities during construction may uncover previously unknown, buried cultural resources. In the event that buried cultural resources are discovered during construction, operations shall stop in the immediate vicinity of the find and a qualified archaeologist shall be consulted to determine whether the resource requires further study. The qualified archeologist shall make recommendations to the Lead Agency on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines. Potentially significant cultural resources consist of, but are not limited to, stone, bone, fossils, wood, or shell artifacts or features, including hearths, structural remains, or historic dumpsites. Any previously undiscovered resources found during construction within the project area should be recorded on appropriate Department of Parks and Recreation (DPR) forms and evaluated for significance in terms of CEQA criteria

If the resources are determined to be unique historic resources as defined under Section 15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead

Agency. Appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds.

No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources.

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State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code

Other Listings
Review Code

Reviewer

Date

Page 1 of 3

*Resource Name or #: 4 Red Lion Inn Bldgs

P1. Other Identifier:

*P2. Location: Not for Publication Unrestricted

*a. County: Sacramento

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad: Sacramento East

Date:

T 9N; R 5E; of Sec 29; M.D.B.M.

c. Address: 500 Leisure Lane City: Sacramento

Zip: 95815

d. UTM: Zone: 10 ; mE/ mN (G.P.S.)

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation:

Four buildings located in the western most portion of the Red Lion Inn property.

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Four buildings located along the western end of the Red Lion Hotel complex include 3, one-story, rectangular shaped, Modern Spanish style buildings, and 1, two-story, irregular shaped, Modern Spanish style building. The three one-story buildings are named "Willow," (the southernmost building), "Spruce," (the center building), and "Cypress," (the northernmost building). The two-story building is simply designated as the "700 Building."

The first buildings on the Red Lion property (previously the Woodlake Inn) were constructed in the late 1950s and the four buildings being recorded here were constructed in the 1960s as part of the hotel's expansion process. The three one-story buildings (Willow, Spruce, and Cypress) were constructed in rows, running east to west with hotel rooms along the north and south elevations of each building, and parking lots in between each structure. The two-story building (700 Building) was placed at the far end of the property and extends along the sides of the three one-story buildings and runs north to south with hotel rooms along the east elevation. All four buildings are used as hotel rooms for guests.

The three one-story buildings are similar in style and have concrete foundations, stucco exteriors and flat roofs. The front of the buildings on the east elevation contain an arched section that rises above the roofline. This section contains the name of the specific building. The area under the roof sections have a flat roof with faux vigas (a rough-hewn roof timber or rafter, especially on an adobe building). Square columns with square capitals support the roof sections. The space between the columns and wall is infilled with small bushes. The west elevation of each building is basically blank with column detailing. The buildings contain multiple hotel rooms placed in a single row along the north and south facades. Each unit has a single wood door flanked by metal framed, double hung sash style and fixed pane, rectangular shaped windows. The walkways along the elevations contain shed roofs which are supported by square columns with small square capitals. The parking spaces are located immediately outside the door of each unit for ease of parking. Small landscaped areas bracket the parking areas and the ends of the buildings. Additional trees are located along the parking areas for shade and greenery purposes.

The two-story building has a concrete foundation, stucco exterior, and a flat roof. The front of the building, the south elevation, contains a large arched parapet section which extends to the east, culminating in a two-story wing wall with a tall, arched opening. The section provides a screen for the metal staircase behind it. The section has a flat roof and a back wall with arched openings, as well as a screened portion on the east elevation. The section is supported by the same square columns as seen on the other buildings. The rooms extend along the east elevation of the building and include the same details as seen on the smaller buildings. The individual rooms have single wood door entrances which are flanked by metal framed, fixed pane and double hung sash style windows for each unit. The second floor units are accessed by the staircase at the south end of the building and a balcony with a metal railing extends along the length of the building. The roof extends out over the balcony area and is supported by square columns. Landscaping is present around the sides of the building.

The buildings appear to be in good condition with no major exterior alterations noted. However, the buildings are vernacular in style and do not appear to meet any of the criteria for listing on the National Register of Historic Places (NR), the California Register of Historical Resources (CR), or any local listings as there were not part of the original hotel complex.

*P3b. Resource Attributes: (List attributes and codes) HP4 and HP5

*P4. Resources Present: Building Structure Object Site District Element of District Other (Isolates, etc.)

P5a. Photo or Drawing (Photo
re



quired for buildings, structures, and objects.)

P5b. Description of Photo: (View,
date, accession #)

***P6. Date Constructed/Age and Sources:** Historic
Prehistoric Both

Overview of Willow, Spruce, and
Cypress Buildings; facing north. July 17,
2015. Building 700 photo on following
page

Ca. 1960

***P7. Owner and Address:**

Unknown

***P8. Recorded by:** (Name, affiliation, and address)

Carrie D. Wills and Kathleen Crawford
HELIX Environmental, 11 Natoma
Street, Folsom CA 95630

***P9. Date Recorded:** July 17, 2015

***P10. Survey Type:** (Describe)

Reconnaissance

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

***Attachments:** NONE Location Map Sketch Map Continuation Sheet Building, Structure, and Object Record
Archaeological Record District Record Linear Feature Record Milling Station Record Rock Art Record
Artifact Record Photograph Record Other (List):



Building 700; facing northwest. July 17, 2015

P1. Other Identifier:

*P2. Location: Not for Publication Unrestricted

*a. County: Sacramento

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad: Sacramento East Date:

T 9N; R 5E; of Sec 29; M.D.B.M.

c. Address: 500 Leisure Lane City: Sacramento

Zip: 95815

d. UTM: Zone: 10 ; mE/ mN (G.P.S.)

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate) Elevation:

Five buildings located in the central portion of the Red Lion Inn property.

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Three buildings within the Red Lion Hotel complex that are slated for demolition are labeled Building F. The buildings are part of the larger Red Lion Hotel complex (originally named the Lakewood Inn). The first buildings on the property were constructed in the late 1950s and Building F buildings, were constructed in the early 1960s as part of the hotel's expansion process. These three buildings are located at the central portion of the property and include five, one- and two-story story, rectangular shaped, Modern Spanish style, buildings.

Building F

Building F consists of three one-story story, Modern Spanish style, commercial hotel buildings which are placed in an L-shaped configuration in the central portion of the hotel property. The buildings vary in size but are basically rectangular shaped. The three buildings have concrete foundations, stucco exteriors, and flat roofs. The asymmetrical design, rectangular shaped buildings lack any significant exterior detail or ornamentation. The buildings have large blocks of blank wall space broken by delivery entrances or guest entrances. Vertical columns divide open bays along the side of the buildings. Windows are fixed pane, rectangular shaped windows. The buildings are in fair condition with no major alterations noted. The buildings are surrounded by access roads and drives, small parking areas, with small areas of minimal landscaping consisting of small bushes and trees.

The three buildings were assessed for potential historical and architectural significance for the local City of Sacramento historic register, State of California Register of Historical Resources, and the National Register of Historic Places. The building complex is not considered to meet any of the established criteria for significance. The hotel complex is one of many chain hotels in the Sacramento area and has played no significant role in the development of the city of Sacramento or the State of California. No persons of any level of historic significance are associated with the design or development of the property. None of the three buildings are considered architecturally significant as they are standard examples of Modern motel architecture with no innovative or unusual characteristics. The buildings are not good examples of a type, style, or method of construction of Modern architecture. The buildings do not have the ability to convey any important information regarding their design, use, or development of the subject property. Therefore, none of the buildings on the subject property are considered to be historically or architecturally significant at the local, state or federal levels.

*P3b. Resource Attributes: (List attributes and codes) HP4 and HP5

*P4. Resources Present: Building Structure Object Site District Element of District Other (Isolates, etc.)

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



P5b. Description of Photo: (View, date, accession #)

Building F; facing south. November 27, 2015.

***P6. Date Constructed/Age and Sources:** Historic
Prehistoric Both

Ca. 1960

***P7. Owner and Address:**

Unknown

***P8. Recorded by:** (Name, affiliation, and address)

Carrie D. Wills and Kathleen Crawford
HELIX Environmental, 11 Natoma
Street, Folsom CA 95630

***P9. Date Recorded:** July 17, 2015

***P10. Survey Type:** (Describe)

Reconnaissance

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")

Phase I Cultural Resources Assessment
Woodlake Assisted Living and Memory Care Project
City of Sacramento, Sacramento County, California

***Attachments:** NONE Location Map Sketch Map Continuation Sheet Building, Structure, and Object Record
Archaeological Record District Record Linear Feature Record Milling Station Record Rock Art Record
Artifact Record Photograph Record Other (List):



Appendix E

Traffic Impact Study



Traffic Impact Study

Sacramento Self Storage
Sacramento, California

May 31, 2018

Prepared for:

City of Sacramento

Prepared by:

Kimley»»Horn

555 Capitol Mall, Suite 300
Sacramento, California 95814

Phone: (916) 858-5800



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<i>Traffic Count Data Sheets</i>	<i>Appendix B</i>
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INTRODUCTION

Purpose

This report documents the results of a traffic assessment completed for the proposed Sacramento Self Storage development project (the “proposed project” or “project”), south of Leisure Lane in Sacramento, California.

The purpose of this study is to prepare a focused traffic access and queuing assessment of the proposed project on the adjacent transportation system, limited to consideration of Existing plus Proposed Project Conditions. More specifically, this study has been requested to assess project impacts to the adjacent intersections, and to assess project site access and circulation for the proposed mix of uses. This study was performed in accordance with the City of Sacramento’s *Traffic Impact Guidelines*¹ and the 2035 General Plan policies.

Project Description

As detailed in the project description provided by the applicant², the project proposes to subdivide the 14.47-acre project site, previously the location of the Red Lion Hotel, into four separate parcels. On one of these parcels, the applicant proposes to construct a 139,482-square foot (sf) self-storage facility on the sub-divided parcel located just west of the Exposition Boulevard intersection with Leisure Lane in Sacramento. As specified by the City, the entire project site is zoned as C-2-LI (General Commercial Labor-Intensive Overlay). Although a range of uses is permitted in C-2-LI zone, the project applicant envisions a mix of retail, residential, and/or hotel uses on the remaining parcels, including up to 170 units of Senior Apartments, a four to five story Hotel with up to 120 rooms, and approximately 50,000-sf of single story retail. The project location is shown in **Figure 1**. Access to the project site will be provided by two existing full-access driveways and two additional proposed full-access driveways, as depicted in **Figure 2**. The detailed project description is provided in **Appendix A**.

Study Area

The following intersections are included in this evaluation:

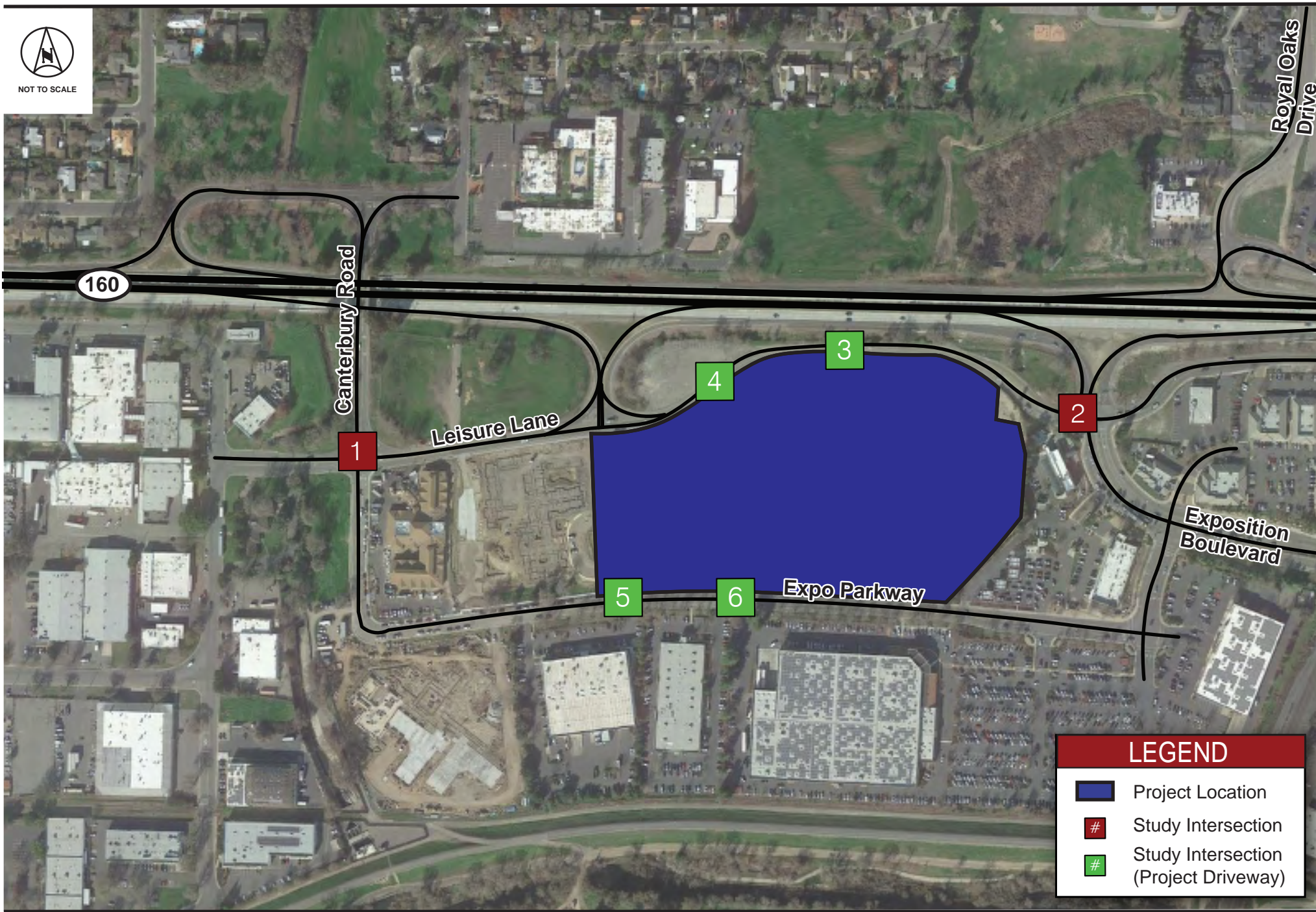
1. Leisure Lane/Slobe Avenue @ Canterbury Road/Expo Parkway
2. Leisure Lane @ Exposition Boulevard/SR-160 Eastbound Ramps
3. Leisure Lane @ Project Driveway #1 (Existing Plus Project Conditions Only)
4. Leisure Lane @ Project Driveway #2 (Existing Plus Project Conditions Only)
5. Expo Parkway @ Project Driveway #3 (Existing Plus Project Conditions Only)
6. Expo Parkway @ Project Driveway #4 (Existing Plus Project Conditions Only)

This traffic impact analysis was conducted for the above-listed study facilities for the following scenarios:

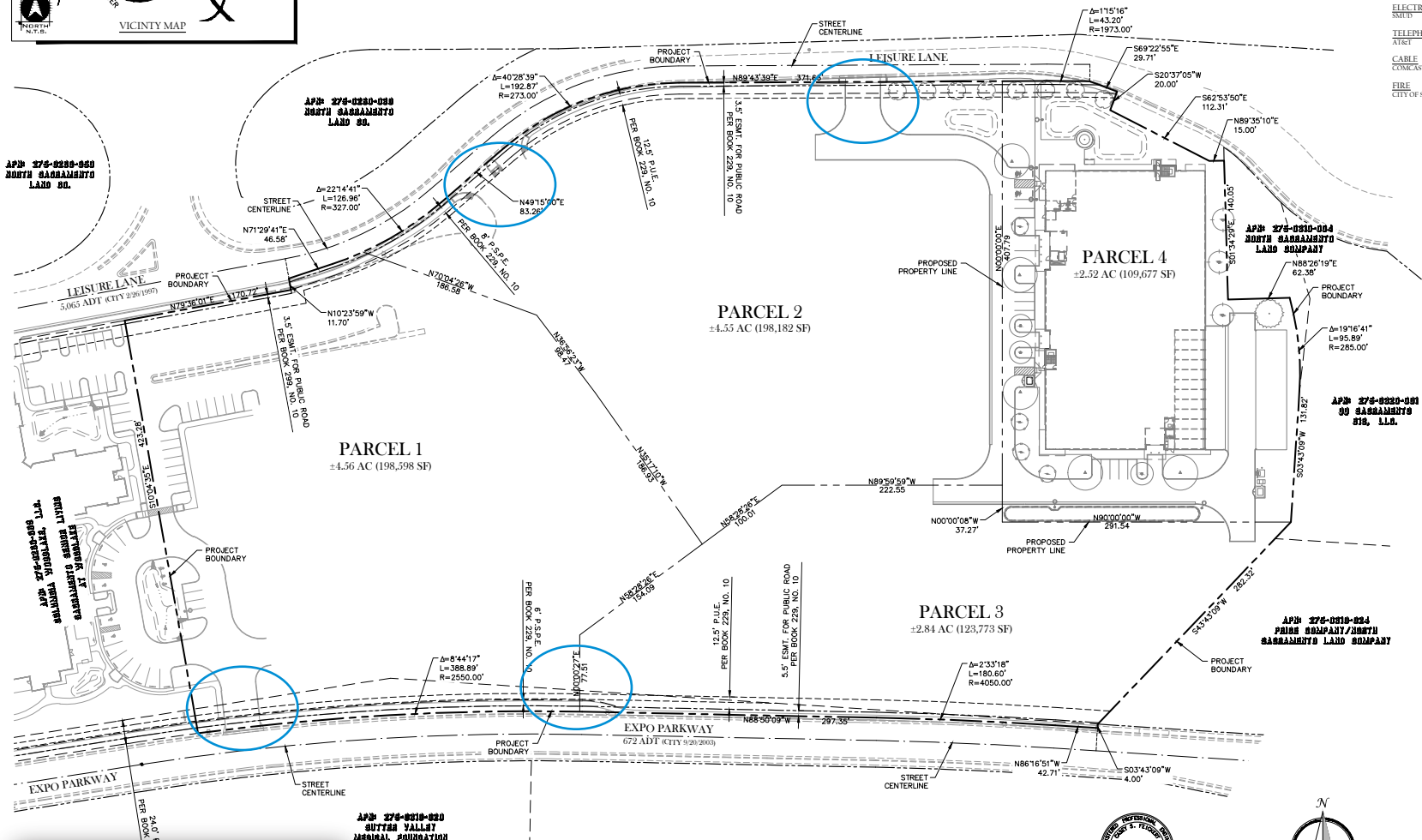
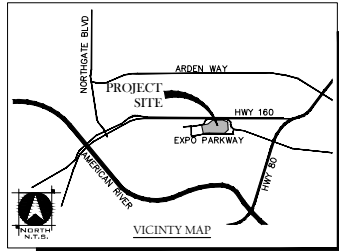
- A. Existing (2018) Conditions
- B. Existing (2018) plus Proposed Project Conditions

¹ *Traffic Impact Guidelines*, City of Sacramento, February 1996 (updated with the adopted LOS policies of the *Sacramento 2035 General Plan*).

² *Sacramento Self Storage Project Description*, provided by the applicant, March 14, 2018.



TENTATIVE PARCEL MAP
 PARCEL 2 - BOOK 229 OF PARCEL MAPS - PAGE 10
SACRAMENTO SELF STORAGE
 500 LEISURE LANE
 SACRAMENTO, CA



UTILITY PROVIDERS	PROJECT INFORMATION
PARK DISTRICT CITY OF SACRAMENTO	PROJECT ADDRESS 500 LEISURE LANE SACRAMENTO, CA
SCHOOL DISTRICT TWIN RIVERS UNIFIED SCHOOL DISTRICT	PROJECT APN 274-0280-010
WATER CITY OF SACRAMENTO WATER	OWNER COLUMBIA WOODLAKE LLC 180 FAIRVIEW AVENUE, SUITE 200 SEATTLE WA 98102 ATTN: ALEX WASHBURN
SANITARY SEWER SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT	DEVELOPER/APPLICANT COLUMBIA WOODLAKE LLC COLUMBIA ARCHITECTURE 190 KITTLET CIRCLE SALEM, OR 97022 ATTN: GREG HEMBRE
STORM DRAIN CITY OF SACRAMENTO UTILITIES	ENGINEER SURVEYOR TSI ENGINEERING, INC. 785 ORCHARD DRIVE, SUITE 100 FOLSOM, CA 95630 ATTN: CASEY FECKER
GAS PG&E	EXISTING NUMBER OF LOTS (0) ONE
ELECTRIC SMUD	PROPOSED NUMBER OF LOTS (4) FOUR
TELEPHONE AT&T	EXISTING USE GENERAL COMMERCIAL
CABLE COMCAST	PROPOSED USE GENERAL COMMERCIAL
FIRE CITY OF SACRAMENTO FIRE DISTRICT	EXISTING ZONING C-2(L) - GENERAL COMMERCIAL
	PROPOSED ZONING C-2(L) - GENERAL COMMERCIAL

BASIS OF ELEVATION
 THE ELEVATIONS SHOWN HEREON ARE BASED UPON CITY OF SACRAMENTO RECORD MAP NO. 29411B, HAVING AN ELEVATION OF 41.74 FEET (NGVD29, BEING A HILTI NAIL IN THE NORTHEAST CORNER OF THE BRIDGE ON TRIBUTARY ROAD OVER HIGHWAY 160 AT THE DRIVE.

BASIS OF BEARING
 THE BASIS OF BEARINGS FOR THIS SURVEY IS IDENTICAL WITH THE CENTERLINE OF EXPO PARKWAY, AS SHOWN ON THE PLAT OF "WOODLAKE BUSINESS PARK" FILED IN BOOK 215 OF PARCEL MAPS, MAP NO. 2, SACRAMENTO COUNTY RECORDS, BASED UPON FOUND MONUMENTS SHOWN HEREON.

FLOOD ZONE
 FLOOD ZONE "C" (AREAS OF 0.2% ANNUAL CHANCE FLOOD, AREAS OF 0.1% ANNUAL CHANCE OF FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITHIN DRAINAGE AREA LESS THAN 1 SQUARE MILE, AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD) PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP, MAP NO. 60667C0177H, DATED AUGUST 16, 2012.

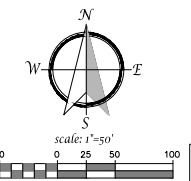
- NOTES**
1. A DECLARATION OF COVENANTS, CONDITIONS, RESTRICTIONS, AND GRANT OF EASEMENTS GRANTING RECIPROCAL EASEMENTS FOR ACCESS, PARKING, DRAINAGE, SEWER, WATER AND UTILITIES WILL BE RECORDED.
 2. TOPOGRAPHY COMPILED FROM FIELD SURVEY DATA ACQUIRED ON AUGUST, 2017.
 3. EXACT PARCEL CONFIGURATION MAY VARY SLIGHTLY AT FINAL PARCEL MAP TO ACCOMMODATE REQUIRED BUILDING SETBACKS AND REFINEMENTS REQUIRED AS PART OF BUILDING DEVELOPMENT.

PARCEL SUMMARY

PARCEL 1 198,298 SF / 4.56 AC	PARCEL 2 198,182 SF / 4.53 AC
PARCEL 3 123,773 SF / 2.84 AC	PARCEL 4 109,677 SF / 2.52 AC 18 PARKING STALLS

LEGEND

Project Driveway



TENTATIVE PARCEL MAP
 OCTOBER 19, 2017

TSI ENGINEERING, INC.
 expect more.

785 Orchard Drive, Suite #110
 Folsom, CA 95630
 Phone: (916) 608-0707
 Fax: (916) 608-0701

SHEET
 C1

ENVIRONMENTAL SETTING

Project Area Roadways

The following are descriptions of the primary roadways near the project site.

Leisure Lane is an east-west collector roadway bordering the northern edge of the project site. Leisure Lane connects the commercial uses west of the site with SR-160 and Exposition Boulevard. Along the project frontage, Leisure Lane has one lane in each direction, and there are currently no bicycle facilities.

Expo Parkway is an east-west collector roadway bordering the southern edge of the project site. Expo Parkway connects to Exposition Boulevard southeast of the project site. Expo Parkway becomes Canterbury Road after the intersection with Leisure Lane and connects to SR-160 northwest of the project site. Expo Parkway has one lane in each direction along the project frontage. There are currently no bicycle facilities on Expo Parkway. However, sidewalks are present along the proposed project frontage.

Public Transit System

Sacramento Regional Transit District (RT) provides transit service in the greater Sacramento metropolitan area. The project is not directly adjacent to any public transit routes³. The nearest transit stop is located on Exposition Boulevard approximately a mile away from the project site. The stop is served by RT Routes 67 and 68. In addition, the peak-hour service provided by Route 29 travels along SR 160, just north of the project site. **Figure 3** depicts the transit routes within the project vicinity.

Existing/Planned Bicycle and Pedestrian Facilities

There are currently no on-street bicycle facilities directly adjacent to the project location. There is a connection to the Jedediah Smith Memorial Trail along Expo Parkway, located less than a quarter mile west of the project site. Jedediah Smith Memorial Trail is a Class I bike path, running for 32 miles along the American River⁴. There are Class II Bicycle Lanes located along Exposition Boulevard. In addition, according to the City's *Bicycle Master Plan*⁵, shown in **Figure 4**, on-street bicycle facilities are proposed on Leisure Lane.

There are currently sidewalk and streetlights along the southern edge of the project. According to the site plan, the segment of sidewalk along the northeastern edge of the project will be extended along the northern project frontage. There are cross walks present at the intersections of Leisure Lane and Exposition Boulevard and Exposition Boulevard and Expo Parkway. Existing and proposed pedestrian facilities are contained in the City's *Pedestrian Master Plan*⁶.

Existing Intersection Geometry

Figure 5 illustrates the study facilities, existing traffic control, and existing lane configurations.

³ Sacramento Regional Transit District, <http://www.sacrt.com/systemmap/A1.stm>.

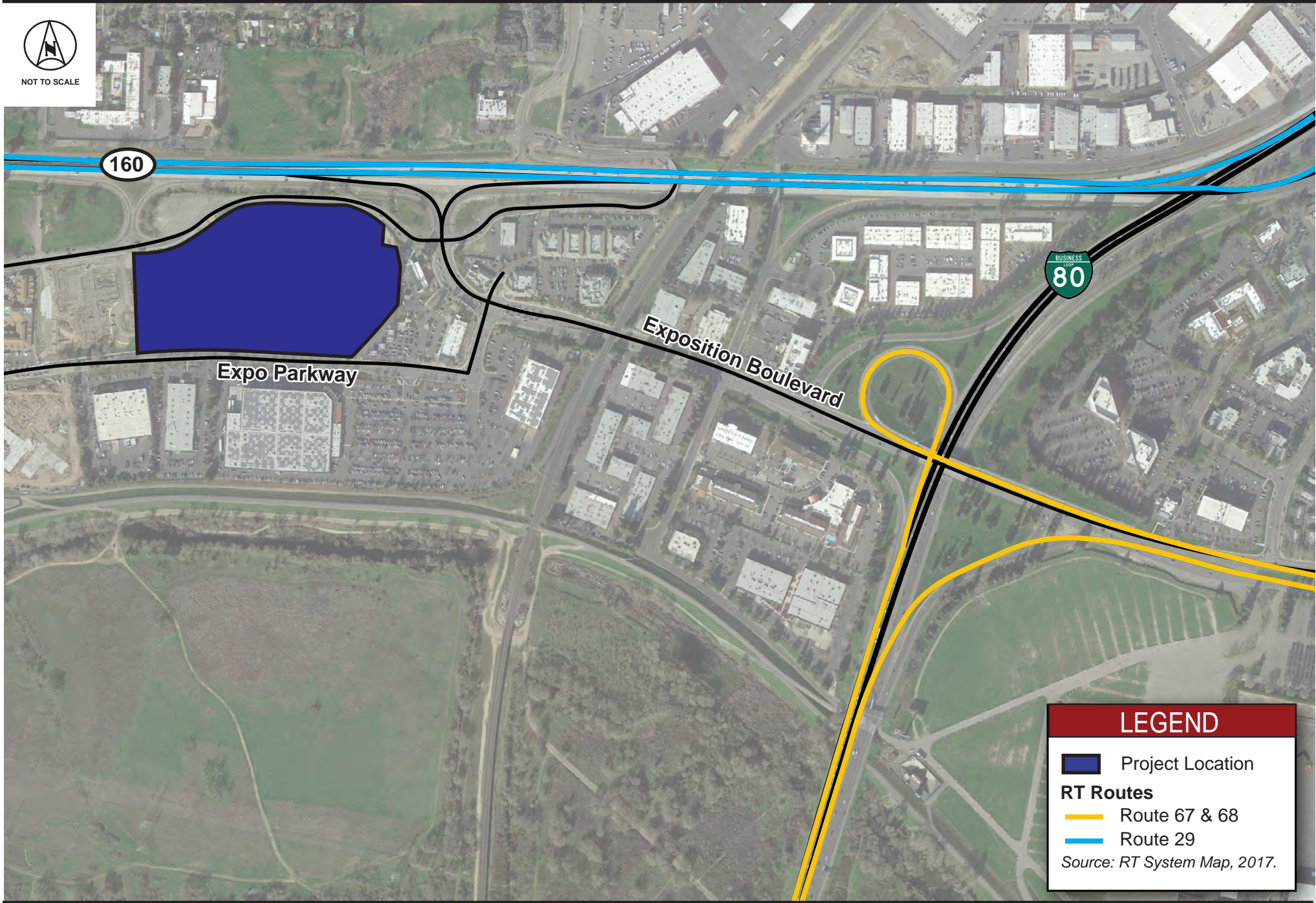
⁴ American River Parkway – Jedediah Smith Memorial Trail. Sacramento County. <http://www.regionalparks.saccounty.net/Parks/Pages/JedediahSmith.aspx>

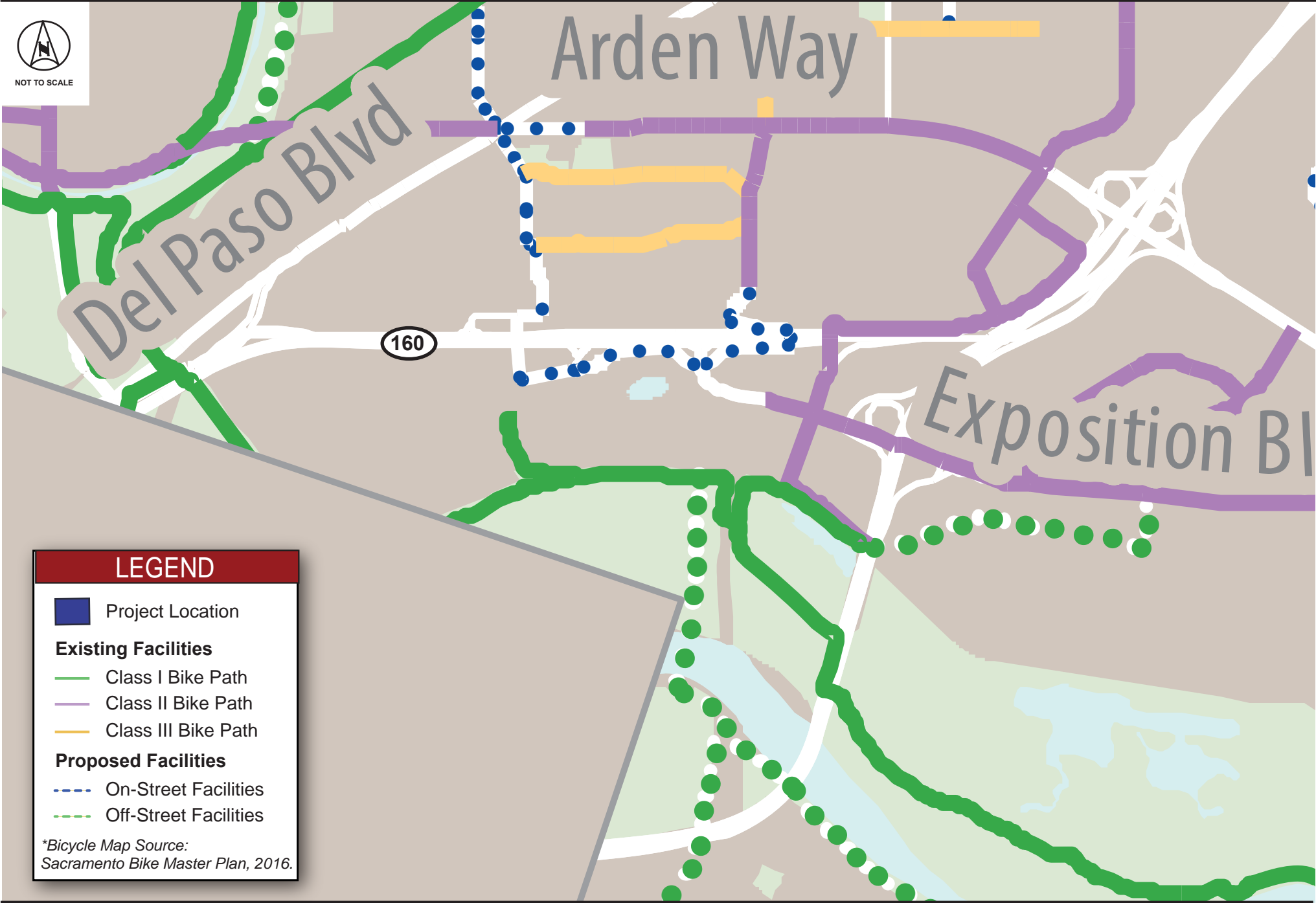
⁵ *Bicycle Master Plan*, City of Sacramento. August 2016.

⁶ *Pedestrian Master Plan*, City of Sacramento Department of Transportation, September 2006.



NOT TO SCALE







NOT TO SCALE



LEGEND	
	Project Location
	Study Intersection
	Study Intersection (Project Driveway)
	Signalized Intersection
	Stop Controlled Approach

Existing Traffic Volumes

New weekday AM and PM peak-period turning movement traffic counts were conducted on March 21, 2018, at the existing study intersections. These counts were conducted between the hours of 7:00 a.m. and 9:00 a.m. and 4:00 p.m. and 6:00 p.m. In addition, there is an approved nursing home currently under construction immediately to the west of the project site. The number of trips anticipated to be generated by the nursing home were approximated using data included in the *Trip Generation Manual, 10th Edition*, published by the Institute of Transportation Engineers (ITE), shown in **Table 1**. These trips were added to the existing counts described above to reflect expected conditions in the immediate future. Existing (2018) peak-hour turning movement volumes are presented in **Figure 6**, and the traffic count data sheets are provided in **Appendix B**.

Table 1 – Nursing Home Trip Generation Characteristics

Land Use	Size (KSF)	Daily Trips	AM Peak Hour			PM Peak Hour		
			Total Trips	IN Trips	OUT Trips	Total Trips	IN Trips	OUT Trips
			<i>Approved Project</i>					
Nursing Home (620)	31.157	214	18	14	4	18	7	11
New Project Trips		214	18	14	4	18	7	11

Source: *Trip Generation Manual, 10th Edition, ITE*

REGULATORY SETTING

Methodology

A field review was completed of the immediate project vicinity and study facilities to observe existing operations and lane configurations, vehicle storage lengths, existing traffic control, speed limits, lane utilization, adjacent land uses, and other readily apparent features for the study facilities that were deemed to be relevant to the study. Weekday peak-hour conditions are used as the time period during which to assess the transportation facilities' operations both existing, and with the addition of project traffic volumes.

Analysis of transportation facility significant environmental impacts is based on the concept of Level of Service (LOS). The LOS of a facility is a qualitative measure used to describe operational conditions. LOS ranges from A (best), which represents minimal delay, to F (worst), which represents heavy delay and a facility that is operating at or near its functional capacity.

City of Sacramento

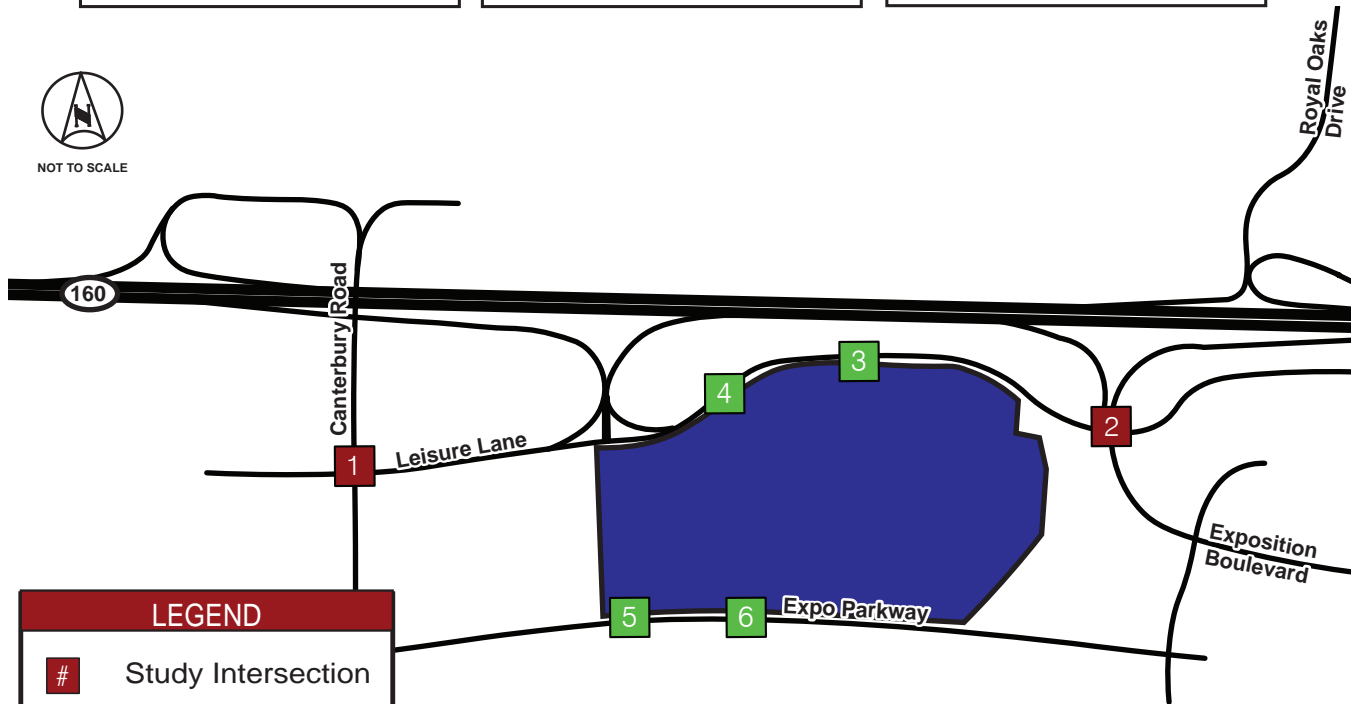
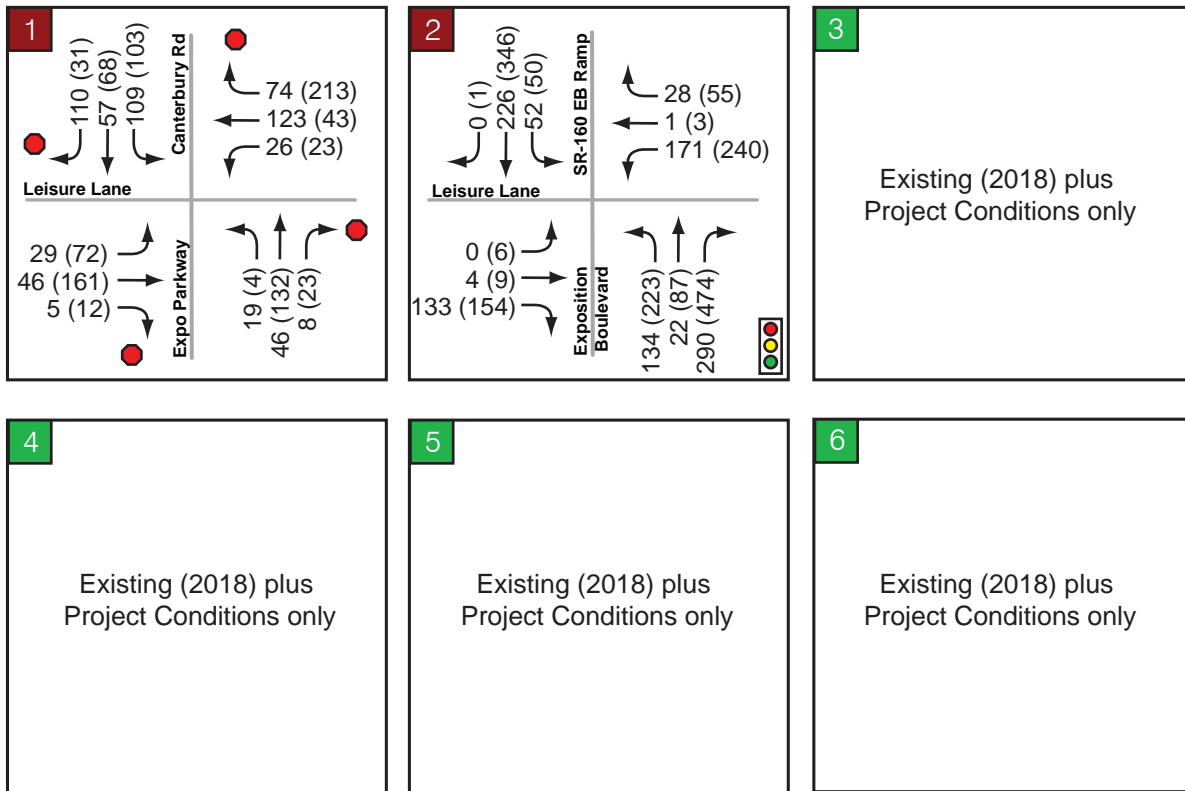
On March 3, 2015, the City of Sacramento City Council adopted the *2035 General Plan*. The Mobility Element of the City of Sacramento's *2035 General Plan* outlines goals and policies that coordinate the transportation and circulation system with planned land uses. The following LOS policy is relevant to this study:

Policy M 1.2.2 *The City shall implement a flexible context-sensitive Level of Service (LOS) standard, and will measure traffic operations against the vehicle LOS thresholds established in this policy. The City will measure vehicle LOS based on the methodology contained in the latest version of the Highway Capacity Manual (HCM) published by the Transportation Research Board. The City's specific vehicle LOS thresholds have been defined based on community values with respect to modal priorities, land use context, economic development, and environmental resources and constraints. As such, the City has established variable LOS thresholds appropriate for the unique characteristics of the City's diverse neighborhoods and communities. The City will strive to operate the roadway network at LOS D or better for vehicles during typical weekday*

conditions including AM and PM peak hour with certain exceptions mapped on Figure M1 (and listed in the General Plan document).

- A. Core Area (Central City Community Plan Area) – LOS F allowed*
- B. Priority Investment Areas – LOS F allowed*
- C. LOS E Roadways (11 distinct segments listed). LOS E is also allowed on all roadway segments and associated intersections located within ½ mile walking distance of light rail stations.*
- D. LOS F roadways (24 distinct segments listed)*
- E. If maintaining the above LOS standards would, in the City's judgment, be infeasible and/or conflict with the achievement of other goals, LOS E or F conditions may be accepted provided that provisions are made to improve the overall system, promote non-vehicular transportation and/or implement vehicle trip reduction measures as part of a development project or a city-initiated project. Additionally, the City shall not expand the physical capacity of the planned roadway network to accommodate a project beyond that identified in Figure M4 and M4a (2035 General Plan Roadway Classification and Lanes).*

In accordance with *General Plan Policy M 1.2.2*, **LOS D** is considered acceptable for this study.



LEGEND

- # Study Intersection
- # Study Intersection (Project Driveway)
- Signalized Study Intersection
- Stop Controlled Approach
- XX (XX) AM (PM) Peak-hour Turning Movement Volumes

Intersection Analysis

Levels of Service for this study were determined using methods defined in the *Highway Capacity Manual, 2010* (HCM) and appropriate traffic analysis software. The HCM includes procedures for analyzing side-street stop controlled (SSSC), all-way stop controlled (AWSC), and signalized intersections. The SSSC procedure defines LOS as a function of average control delay for each minor street approach movement. **Table 2** presents intersection LOS definitions as defined in the HCM.

Table 2 – Intersection Level of Service Criteria

Level of Service (LOS)	Unsignalized	Signalized
	Average Control Delay (sec/veh)	Control Delay per Vehicle (sec/veh)
A	≤ 10	≤ 10
B	> 10 – 15	> 10 – 20
C	> 15 – 25	> 20 – 35
D	> 25 – 35	> 35 – 55
E	> 35 – 50	> 55 – 80
F	> 50	> 80

Source: Highway Capacity Manual, 2010
Note: SSSC delay is based on the worst approach movement.

As previously discussed, the purpose of this study is to prepare a focused traffic evaluation of the effect of the proposed project on the surrounding transportation system, limited to consideration of Existing (2018) and Existing (2018) plus Proposed Project Conditions. The cumulative impacts on roadway segments, transit, bicycle facilities, pedestrian circulation, and parking from planned 2035 *General Plan* development were identified and analyzed in the 2035 *General Plan Master EIR*. Because the proposed project is consistent with the 2035 *General Plan*, this study only reviews such issues on a project-specific basis only (no cumulative conditions analyses).

Results of Existing Conditions Analysis

Table 3 presents the peak-hour intersection operating conditions for this analysis scenario. As indicated in **Table 3**, the intersections of Leisure Lane with Expo Parkway and Exposition Boulevard both operate at LOS C or better during the AM and PM peak-hours. Analysis worksheets for this scenario are provided in **Appendix C**.

Table 3 – Existing (2018) Intersection Levels of Service

ID	Intersection	Control	Peak Hour	Existing (2018)	
				Delay	LOS
1	Leisure Lane/Slobe Avenue @ Canterbury Road/Expo Parkway	AWSC	AM	11.4	B
			PM	14.4	B
2	Leisure Lane @ Exposition Boulevard/SR-160 Eastbound Ramps	Signal	AM	17.3	B
			PM	22.4	C

INTRODUCTION TO ANALYSIS

Project Land Use and Circulation

Land Use

As previously discussed and shown in **Figure 2**, the project proposes to subdivide the 14.47-acre project site, and construct a 139,482-sf self-storage facility on Parcel 4. The remaining three parcels will feature a mix of retail, residential, and/or hotel uses, including 150 to 170 units of Senior Apartments, a four to five story Hotel with 100-120 rooms, and approximately 50,000-sf of single story retail.

Access

The project site is located west of Exposition Boulevard. Leisure Lane and Expo Parkway are located along the northern and southern project frontages, respectively. Access to the project site is proposed along Leisure Lane via an existing, full-access driveway, and a proposed full-access driveway. Along Expo Parkway, access to the site will be provided by an existing, shared, full-access driveway and a proposed full-access driveway located between Parcel 1 and Parcel 3. The driveway locations are highlighted in **Figure 2**.

Trip Generation

The number of trips anticipated to be generated by proposed projects were approximated using data included in the *Trip Generation Manual, 10th Edition*, published by the Institute of Transportation Engineers (ITE). ITE Land Use Code 151 (Mini Warehouse) was used to represent the 139,482-sf of self-storage facility. ITE Land Use Codes 252 (Senior Housing-Attached), 310 (Hotel), and 820 (Shopping Center) were used to represent the senior apartments, hotel, and retail uses, respectively.

Internal capture between senior apartments, hotel, and retail uses was calculated using the National Cooperative Highway Research Program (NCHRP) Report 684, *Enhancing Internal Trip Capture Estimation for Mixed-Use Developments*, 2011. This is the methodology recommended by the *ITE Trip Generation Handbook, 3rd Edition*. Consistent with guidance provided by the *ITE Trip Generation Handbook, 3rd Edition*, pass-by reductions of 16-percent for Daily and AM peak-hour trips, and 34-percent for PM peak-hour trips, were incorporated to account for the proportion of retail (Shopping Center) trips that are understood to already be on the adjacent roadway network. The trips generated by this mix of uses is presented in **Table 4**.

As shown in **Table 4**, the proposed project is estimated to generate 4,546 net new daily trips, with 247 and 297 trips occurring during the AM and PM peak-hours, respectively. As shown in **Table 5**, the previous use of the site is estimated to have included 3,028 daily trips, with 148 and 203 trips occurring during the AM and PM peak-hours respectively. For the purposes of this analysis, no trip generation credit is given for the previous hotel use.

Table 4 – Proposed Project Trip Generation

Land Use (ITE Code)	Size	Daily Trips	AM Peak Hour				PM Peak Hour					
			Total Trips	IN		OUT		Total Trips	IN		OUT	
				%	Trips	%	Trips		%	Trips	%	Trips
Proposed Project												
Mini Warehouse (151)	139,482 KSF	212	14	60%	8	40%	6	24	47%	11	53%	13
Senior Housing - Attached (252)	170 Units	660	34	35%	12	65%	22	43	55%	24	45%	19
Hotel (310)	120 Rooms	928	55	59%	32	41%	23	64	51%	33	49%	31
Shopping Center (820)	50 KSF	3754	177	62%	110	38%	67	325	48%	156	52%	169
Subtotal Trips		5,554	280		162		118	456		224		232
Senior Housing Internal Reduction*												
AM (Enter 0%, Exit 0%)		-152	0		0		0	-20		-11		-9
PM (Enter 46%, Exit 47%)												
Hotel Internal Reduction*												
AM (Enter 0%, Exit 13%)		-94	-2		0		-2	-10		-7		-3
PM (Enter 21%, Exit 10%)												
Shopping Center Internal Reduction*												
AM (Enter 3%, Exit 0%)		-192	-3		-3		0	-28		-11		-17
PM (Enter 7%, Exit 10%)												
Subtotal Trips		5,116	275		159		116	398		195		203
Shopping Center Pass-by Trip Reduction*:												
Daily and Am Peak-Hour (16%);		-570	-28		-17		-11	-101		-49		-52
PM Peak-hour (34%)												
Net New Project Trips		4,546	247		142		105	297		146		151

Source: Trip Generation Manual, 10th Edition, ITE

*Trip Generation Handbook, 3rd Edition, ITE

Table 5– Previous Hotel Use Trip Generation

Land Use (ITE Code)	Size	Daily Trips	AM Peak Hour				PM Peak Hour					
			Total Trips	IN		OUT		Total Trips	IN		OUT	
				%	Trips	%	Trips		%	Trips	%	Trips
Previous Hotel Use												
Hotel (310)	306 Rooms	3028	148	59%	87	41%	61	203	51%	104	49%	99
Net New Project Trips		3,028	148		87		61	203		104		99

Source: Trip Generation Manual, 10th Edition, ITE

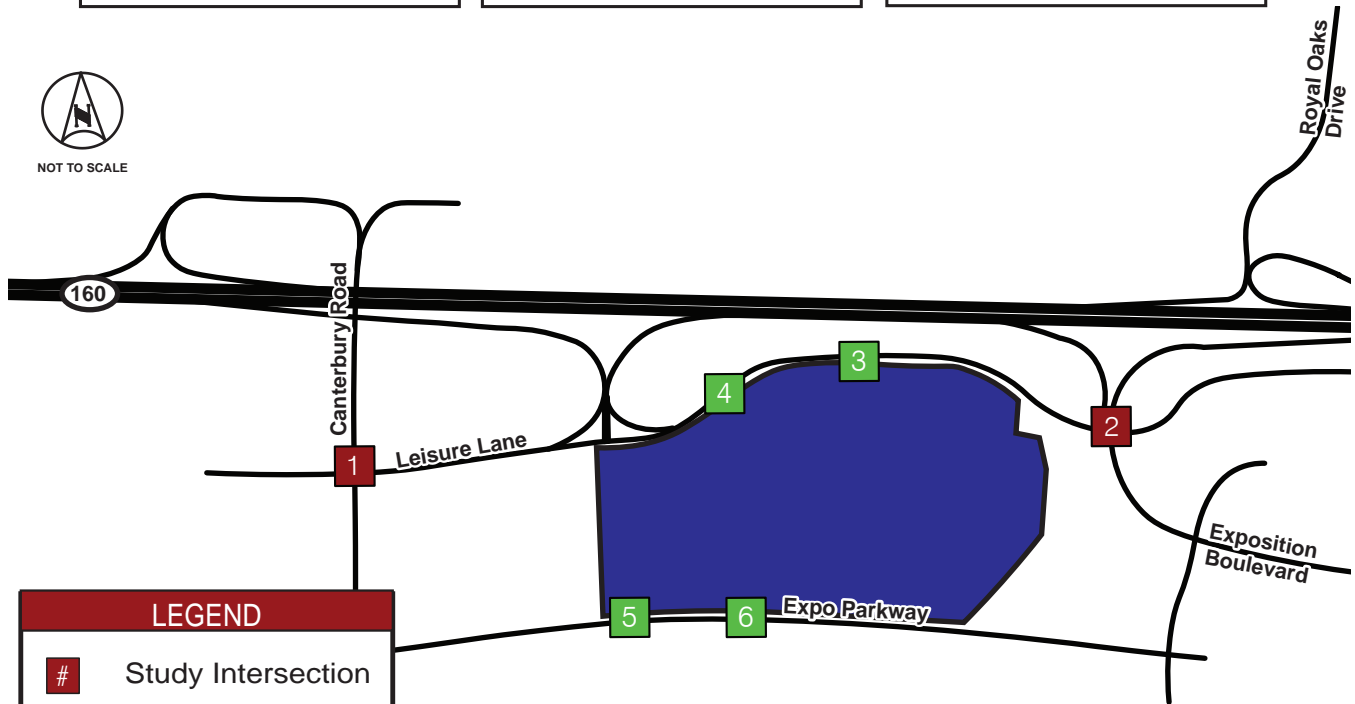
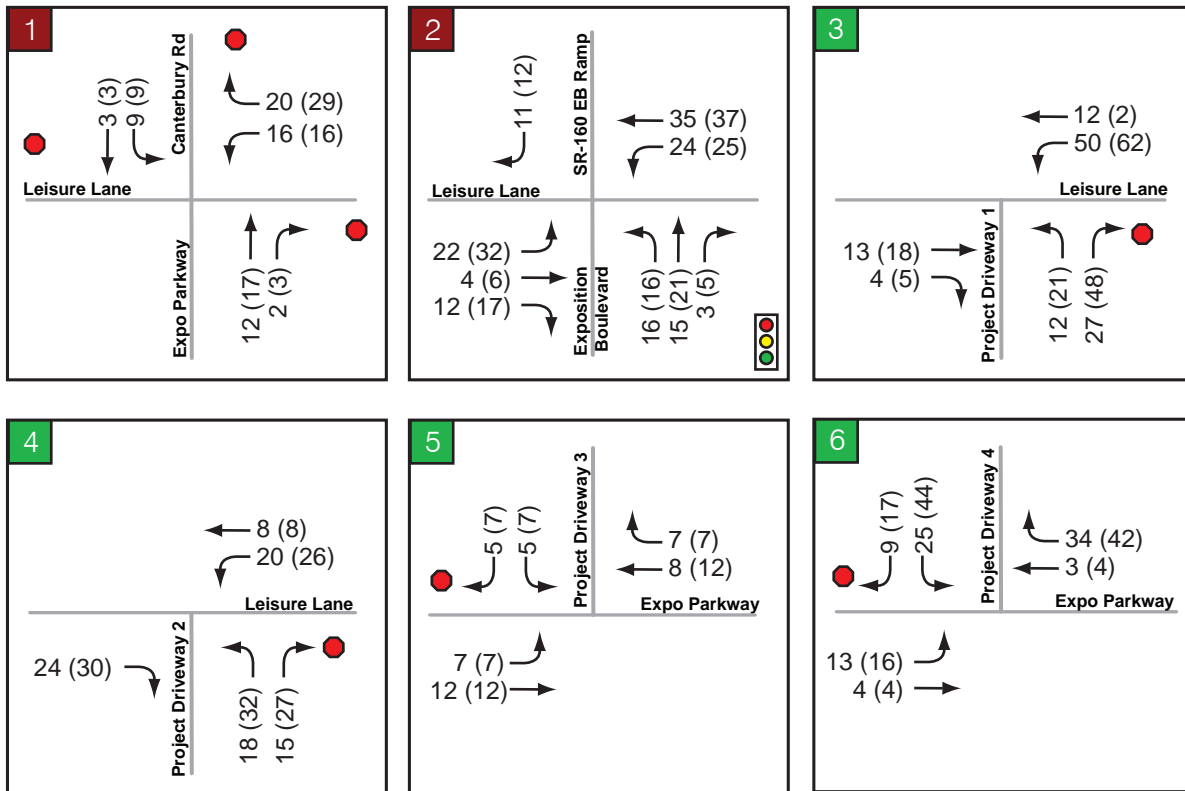
Trip Distribution

Project traffic distribution was developed using knowledge of existing traffic patterns and engineering judgement. The proposed project trip distribution percentages and trip assignment are illustrated **Figure 7** and **Figure 8**, respectively.



LEGEND

- Inbound Distribution
- Outbound Distribution
- Project Location
- Study Intersection
- Study Intersection (Project Driveway)



LEGEND	
#	Study Intersection
#	Study Intersection (Project Driveway)
	Signalized Study Intersection
	Stop Controlled Approach
XX (XX)	AM (PM) Peak-hour Turning Movement Volumes

IMPACTS AND MITIGATION

Method of Analysis

Peak-hour traffic associated with the proposed project was added to the existing traffic volumes. Impacts were determined by comparing traffic operating conditions associated with the project scenario to traffic operating conditions without the project.

Thresholds of Significance

In accordance with CEQA, the effects of a project are evaluated to determine if they will result in significant, adverse impacts on the environment. For purposes of this analysis, an impact is considered significant if implementation of the project would have the effects described below. The standards of significance in this analysis are based upon current practice of the City of Sacramento. Standards defined in the City's *Traffic Impact Analysis Guidelines*¹ have been applied.

Intersections

Impacts to the roadway system are considered significant if:

- The traffic generated by the project degrades LOS from acceptable (without the project) to unacceptable (with the project); or
- The LOS (without project) is already (or projected to be) unacceptable and project generated traffic increases the average vehicle delay by 5 seconds or more.

Transit

Impacts to the transit system are considered significant if the proposed project would:

- Adversely affect public transit operations; or,
- Fail to adequately provide access to transit.

Bicycle Facilities

Impacts to bicycle facilities are considered significant if the proposed project would:

- Adversely affect existing or planned bicycle facilities; or,
- Fail to adequately provide for access by bicycle.

Pedestrian Circulation

Impacts to pedestrian circulation are considered significant if the proposed project would:

- Adversely affect existing or planned pedestrian facilities; or,
- Fail to adequately provide for access by pedestrians.

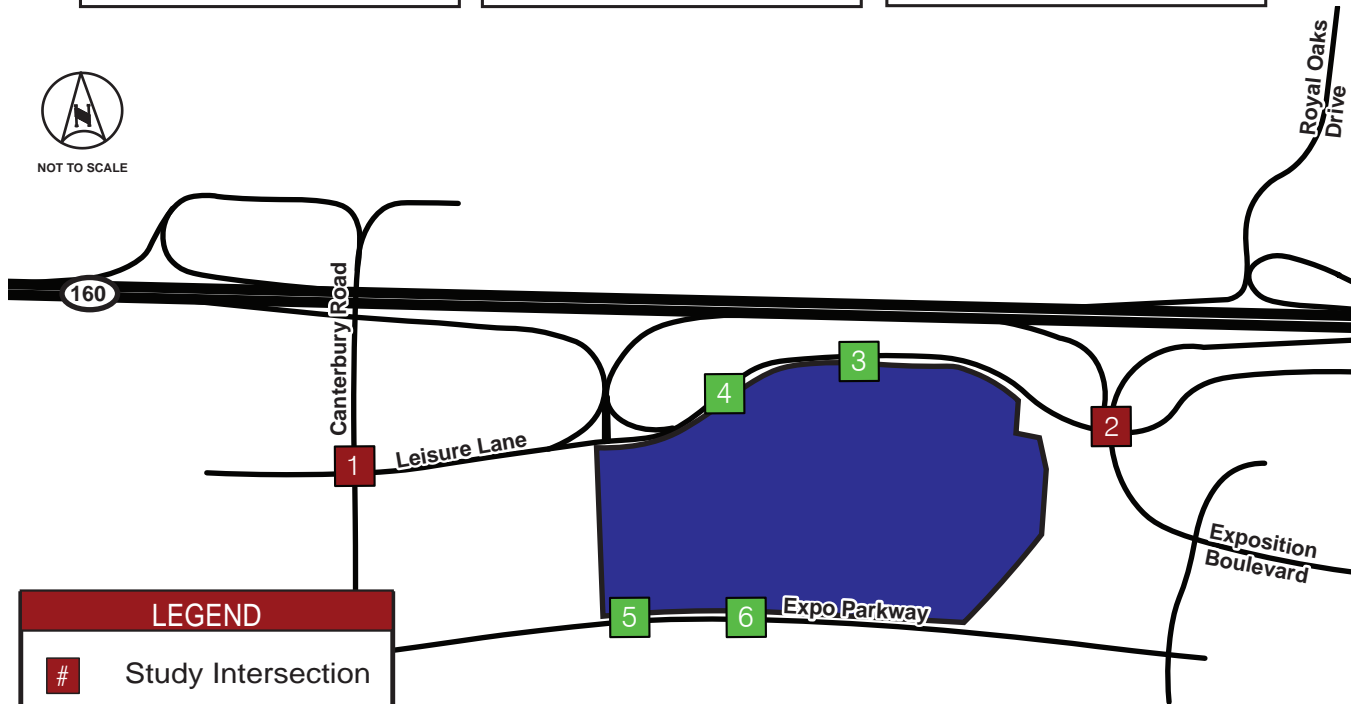
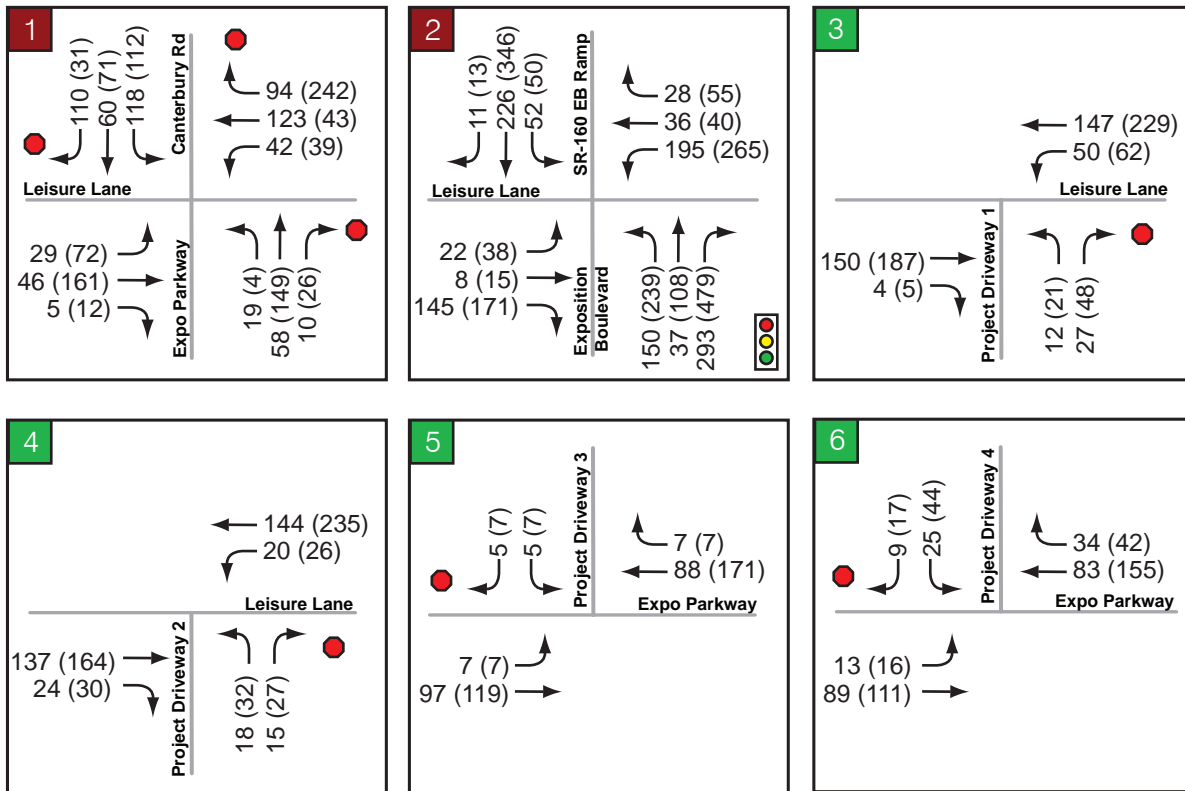
Construction-Related Traffic Impacts

The project would have a temporarily significant impact during construction if it would:

- Degrade an intersection or roadway to an unacceptable level of service;
- Cause inconveniences to motorists due to prolonged road closures; or,
- Result in increased frequency of potential conflicts between vehicles, pedestrians, and bicyclists.

Traffic Volumes & Intersection Geometry

Figure 9 provides the AM and PM peak-hour traffic volumes at the study intersections for the Existing (2018) plus Proposed Project conditions. There are no changes to traffic controls or lane geometry at the study intersections.



LEGEND	
#	Study Intersection
#	Study Intersection (Project Driveway)
	Signalized Study Intersection
	Stop Controlled Approach
XX (XX)	AM (PM) Peak-hour Turning Movement Volumes

Intersection Operations

As indicated in **Table 6**, the study intersections operate between LOS A and C with the addition of proposed project traffic during the AM and PM peak-hours. Analysis worksheets for this scenario are provided in **Appendix D**.

Table 6 – Existing (2018) and Existing (2018) plus Proposed Project Intersection Levels of Service

ID	Intersection	Control	Peak Hour	Existing (2018)		Existing (2018) plus Proposed Project	
				Delay	LOS	Delay	LOS
1	Leisure Lane/Slobe Avenue @ Canterbury Road/Expo Parkway	AWSC	AM	11.4	B	12.2	B
			PM	14.4	B	14.2	B
2	Leisure Lane @ Exposition Boulevard/SR-160 Eastbound Ramps	Signal	AM	17.3	B	17.9	B
			PM	22.4	C	23.3	C
3	Leisure Lane @ Project Driveway #1	SSSC	AM	Existing Plus Project Conditions Only	2 (10.1 NB)	A (B)	
			PM		2.3 (11.2 NB)	A (B)	
4	Leisure Lane @ Project Driveway #2	SSSC	AM		1.4 (10.3 NB)	A (B)	
			PM		1.7 (11.4 NB)	A (B)	
5	Expo Parkway @ Project Driveway #3	SSSC	AM		0.7 (9.3 SB)	A (A)	
			PM		0.6 (10.0 SB)	A (B)	
6	Expo Parkway @ Project Driveway #4	SSSC	AM		1.7 (9.9 SB)	A (A)	
			PM		2.1 (11.1 SB)	A (B)	

Note: SSSC intersections are reported with the overall intersection delay followed by the worst movement's delay. The LOS results are reported with the overall intersection LOS followed by the worst movement's LOS.

Project-Specific Impacts and Mitigation Measures

Impact 1: Intersections

With the addition of the project, all study intersections function at LOS C, or better. Therefore, the project would not result in significant impacts at the study intersections.

Mitigation: No mitigation is required.

Impact 2: Transit System

The project would not adversely affect existing or planned transit operations. The project would not add noticeable transit demand. Any additional demand is anticipated to be adequately accommodated by the existing/planned transit system. The impacts of the project are considered to be **less than significant**. Accordingly, no mitigation is required.

Mitigation: No mitigation is required.

Impact 3: Bicycle Facilities and Pedestrian Circulation

As previously discussed, there are some existing and planned bicycle facilities in the vicinity of the project site. While the project will not result in removal of any existing or planned pedestrian facility or bikeway/bike lane, the project will add pedestrian and bicycle demand within the project site and nearby vicinity. The project will include pedestrian access to the project site via the Leisure Lane and Expo Parkway frontages. The impacts of the project are considered to be **less than significant**. Accordingly, no mitigation is required.

Mitigation: No mitigation is required.

Impact 4: Construction-Related Traffic

Construction-related activity may potentially disrupt the existing transportation network in the surrounding project area. Possible temporary lane closures, street closures, sidewalk closures, and bikeway closures may impact pedestrian, bicycle, and transit accessibility. Heavy vehicles will access the site and may need to be staged for construction. As a result of these activities, existing roadway operation conditions may be degraded.

The City Code (City Code 12.20.030) requires that a construction traffic control plan is prepared and approved prior to the beginning of project construction, to the satisfaction of the City Traffic Engineer and subject to review by all affected agencies. All work performed during construction must conform to the conditions and requirements of the approved plan. The plan shall ensure that safe and efficient movement of traffic through the construction work zone(s) is maintained. At a minimum, the plan shall include the following:

- Time and day of street closures
- Proper advance warning and posted signage regarding street closures
- Provision of driveway access plan to ensure safe vehicular, pedestrian, and bicycle movements
- Safe and efficient access routes for emergency vehicles
- Provisions for pedestrian safety
- Use of manual traffic control when necessary
- Number of anticipated truck trips, and time of day of arrival and departure of trucks
- Provision of a truck circulation pattern and staging area with a limitation on the number of trucks that can be waiting and any limitations on the size and type of trucks appropriate for the surrounding transportation network

The plan must be available at the site for inspection by the City representative during all work. With the implementation of the traffic control plan, local roadways and freeway facilities will continue to operate at acceptable operating conditions and the impact of the project would be *less than significant*.

Mitigation: No mitigation is required.

PROJECT ON-SITE OPERATIONS AND ACCESS EVALUATION

On-Site Operations

Based on the project's site plan depicted in **Figure 2**, the proposed self-storage portion of the project has a single drive aisle that extends from project driveway #1. While the single drive aisle is anticipated to serve two-way circulation, the low volume of trips and width of the drive aisle is anticipated to provide adequate on-site circulation. While there is no plan currently for on-site parking and pedestrian access for Parcel 1, Parcel 2, and Parcel 3, they are anticipated to be served by three full-access driveways. The future parking and pedestrian access within these parcels should be installed in a manner consistent with the City of Sacramento standards and the requirements of the *California Manual on Uniform Traffic Control Devices (CMUTCD), 2014 Edition (Revision 3, March 9, 2018)*.

Project Access

The following is a discussion of each of the project's access driveway intersections. Please note that all signing and striping necessary to accomplish the access conditions described below should be installed in a manner consistent with City of Sacramento standards and the requirements of the *California Manual on Uniform Traffic Control Devices (CMUTCD), 2014 Edition (Revision 3, March 9, 2018)*.

Due to the fact that a detailed site plan for the vacant parcels has not been provided, it is recommended that a minimum throat depth of 50-feet for Driveway #1 (Intersection #3), Driveway #2 (Intersection #4), and Driveway #3 (Intersection #5) until such time that a detailed site plan is provided for the vacant parcels. The minimum required throat depth (MRTD) was calculated for shared driveway (Intersection #6) under Existing (2018) plus Proposed Project conditions. According to the site plan depicted in **Figure 2**, the future driveway would provide a throat depth of approximately 60-feet. During the PM peak-hour, when the proposed project trips are added to the existing volumes and the expected volumes related to the nursing home the required throat depth is calculated to be 50-feet. The existing throat depth is sufficient under these conditions.

NON-CEQA EFFECTS

Vehicle Miles Traveled (VMT) Analysis

This discussion of VMT is provided for informational purposes. Using the iteration of the SACOG SACMET TDM provided by the City, this analysis determined that the project is anticipated to result in an average trip length for all new project site trips of 5.31-miles, therefore equating to a total VMT per day of 24,140 (4546 daily trips x 5.31 miles/trip). Because project-level VMT calculations are different from the methodology typically incorporated in region-wide analyses, comparison of these VMT results to regional averages should only be considered in this context.

Pedestrian Access and Circulation

There are currently sidewalks present along both sides of Expo Parkway. However, there are no crosswalks west of the REI entrance driveway. Consideration should be given to appropriate crosswalk striping and control to improve pedestrian connections to the off-site amenities. The mid-block pedestrian crossing will need to be evaluated using the City's Pedestrian Crossing Guidelines⁷. The project may be conditioned to construct the crossing, or pay a fair share contribution as deemed appropriate by the City guidelines.

Vehicle Queuing at Intersections

Off-site vehicle queuing was considered for the critical movements at the study intersections. The calculated vehicle queues were compared to actual vehicle storage/segment lengths. As presented in **Table 7**, the calculated vehicle queues are less than the available storage with the exception of the northbound left and westbound left movements at the Leisure Lane intersection with Exposition Boulevard/ SR-160 Eastbound Ramps (Intersection #2). The northbound left-turn and westbound left-turn queues exceed the available storage under Existing (2018) Conditions. The addition of the project increases both the northbound left-turn and westbound left-turn queues by less than one vehicle length. Ninety-five percent of the time during peak-hours, the vehicle queuing will be less than or equal to those reported.

Analysis sheets that include the anticipated vehicle queues are presented in **Appendix C** and **Appendix D**.

⁷ *Pedestrian Crossing Guidelines*, City of Sacramento. October 2014.

Table 7 – Intersection Queuing Evaluation Results

Intersection / Analysis Scenario	Movement	AM Peak-Hour		PM Peak-Hour		
		Available Storage (ft)	95 th % Queue (ft)	Available Storage (ft)	95 th % Queue (ft)	
#1 Leisure Lane/Slobe Avenue @ Canterbury Road/Expo Parkway	NBR					
		Existing (2018)	150	0	150	25
		Existing (2018) plus Project	150	25	150	25
	SBLTR					
		Existing (2018)	-	60	-	60
		Existing (2018) plus Project	-	70	-	60
	WBTR					
		Existing (2018)	-	38	-	78
		Existing (2018) plus Project	-	43	-	78
	WBL					
		Existing (2018)	85	25	85	25
		Existing (2018) plus Project	85	25	85	25
#2 Leisure Lane @ Exposition Boulevard/SR-160 Eastbound Ramps	NBL					
		Existing (2018)	210	110	210	226
		Existing (2018) plus Project	210	127	210	236
	SBLTR					
		Existing (2018)	-	97	-	192
		Existing (2018) plus Project	-	109	-	190
	WBL					
		Existing (2018)	190	125	190	235
		Existing (2018) plus Project	190	148	190	256
	WBTR					
		Existing (2018)	-	25	-	31
		Existing (2018) plus Project	-	46	-	74
#3 Leisure Lane @ Project Driveway #1	NBLR					
		Existing (2018)	-	-	-	-
		Existing (2018) plus Project	25	-	25	25
	WBL					
		Existing (2018)	-	-	-	-
		Existing (2018) plus Project	-	25	-	25

Table 7 – Intersection Queuing Evaluation Results (Continued)

Intersection / Analysis Scenario	Movement	AM Peak-Hour		PM Peak-Hour	
		Available Storage (ft)	95 th % Queue (ft)	Available Storage (ft)	95 th % Queue (ft)
#4 Leisure Lane @ Project Driveway #2	NBLR				
	Existing (2018)		-		-
	Existing (2018) plus Project		25		25
	WBL				
	Existing (2018)		-		-
	Existing (2018) plus Project	-	0	-	25
#5 Expo Parkway @ Project Driveway #3	SBLR				
	Existing (2018)		-		-
	Existing (2018) plus Project		0		25
	EBL				
	Existing (2018)		-		-
	Existing (2018) plus Project	-	0	-	0
#6 Expo Parkway @ Project Driveway #4	SBLR				
	Existing (2018)		-		-
	Existing (2018) plus Project		25		25
	EBL				
	Existing (2018)		-		-
	Existing (2018) plus Project	-	0	-	0

Signal Warrant Analysis

A peak-hour traffic signal warrant evaluation was performed for the Leisure Lane/Slobe Avenue intersection with Canterbury Road/Expo Parkway (Intersection #1) according to the methodologies noted in Section 4C.04 of the CMUTCD. A signal warrant is not satisfied at this intersection during either the AM or the PM peak-hours for Existing (2018) plus Proposed Project Conditions. Analysis worksheets are included in **Appendix E**.

Deceleration Lanes

The project driveways are located along Leisure Lane and Expo Parkway, with posted speed limits of 20 mph and 30 mph, respectively. These are not arterial roadways and have travel speeds lower than 45 mph. Accordingly, deceleration lanes are not necessary for the project driveways given the traffic volumes and speeds.

SUMMARY OF RECOMMENDATIONS

Intersections

- All intersections operate under acceptable conditions during Existing (2018) plus Proposed Project Conditions.

Pedestrian Access and Circulation

- There are currently sidewalks present along both sides of Expo Parkway. However, there are no crosswalks west of the REI entrance driveway. Consideration should be given to appropriate crosswalk striping and control to improve pedestrian connections to the off-site amenities. The mid-block pedestrian crossing will need to be evaluated using the City's Pedestrian Crossing Guidelines⁷. The project may be conditioned to construct the crossing, or pay a fair share contribution as deemed appropriate by the City guidelines.

Project Access

- In absence of a more detailed site plan, the recommended throat depth for Project Driveways #1, #2 and #3 is 50-feet. The driveway throat depth will be reevaluated once the project site plans are available for the vacant parcels.
- The intersection of Expo Parkway and Project Driveway #4 has a throat depth of 60-feet and a minimum required throat depth of 50-feet.
- While a single drive aisle is anticipated to serve two-way circulation for the self-storage portion of the proposed project (Parcel 4), the low volume of trips and width of the drive aisle is anticipated to provide adequate on-site circulation. While there is no plan currently for on-site parking and pedestrian access for Parcel 1, Parcel 2, and Parcel 3, they are anticipated to be served by three full-access driveways. The future parking and pedestrian access within these parcels should be installed in a manner consistent with the City of Sacramento standards and the requirements of the *California Manual on Uniform Traffic Control Devices (CMUTCD), 2014 Edition (Revision 3, March 9, 2018)*.
- All signing and striping should be installed in a manner consistent with City of Sacramento standards and the requirements of the *California Manual on Uniform Traffic Control Devices (CMUTCD), 2014 Edition (Revision 3, March 9, 2018)*.

Signal Warrant

- According to the methodologies noted in Section 4C.04 of the CMUTCD, a signal warrant is not satisfied under Existing (2018) plus Project Conditions for the Leisure Lane/Slobe Avenue intersection with Canterbury Road/Expo Parkway (Intersection #1). The signal warrant spreadsheets are provided in **Appendix E**.
- The project applicant will be required to pay a fair share towards the signalization of the intersection of Leisure Lane and Canterbury Road (Intersection #1), based on the trips generated by the proposed project.

Appendix A

Project Description

Sacramento Self Storage

Project Description

March 14, 2018

Columbia Woodlake, LLC (Applicant) proposes to subdivide a 14.47-acre site southwest of the Leisure Lane/Exposition Boulevard intersection into four parcels and develop a 139,482 square foot (sf) self-storage facility on a 2.52-acre site (Parcel 1).

Project Location

The 14.47-acre site is located south of Highway 160 and Leisure Lane, east and north of Expo Parkway, and west of Exposition Boulevard in the City of Sacramento. The site is southwest of the Leisure Lane/Exposition Boulevard intersection. The site address is 500 Leisure Lane and the site consists of APN 275-0260-070.

Project Site

The project site is a portion of a larger 18-acre site formerly occupied by the Red Lion Hotel Woodlake and Conference Center that included 306 guest rooms and 50,000 square feet of conference facilities that could accommodate up to 2,000 people. In 2015, the Applicant acquired the hotel site and in late 2016 the hotel was closed. In February 2017, buildings on the site were demolished so that vacant buildings would not become a nuisance or public safety concern.

The site is currently vacant with scattered trees along the site perimeter.

Surrounding Land Uses

The site is in close proximity to the Johnston Business Park which includes various industrial and commercial business and Apria Health Care facility and a radiological facility to the southeast. Costco Wholesale store with an adjacent fueling station, REI, Quick Quack car wash and other commercial uses are southeast and east of the project site. A 99,487 square-foot assisted living and memory care facility with 113 resident suites (PL 15-041) is under construction on the 3.76-acre parcel immediately west of the site.

General Plan and Zoning

The site is designated as Suburban Center in the 2035 General Plan. The Suburban Center designation provides for predominantly nonresidential, lower-intensity single-use commercial development or horizontal and vertical mixed-use development that includes retail, service, office and/or residential uses. The density range is 15 to 36 units per acre and the floor area ratio ranges from 0.15 to 2.0.

The site is zoned General Commercial Labor Intensive Overlay (C-2-LI). Development in the Labor Intensive Overlay zone is subject to the requirements of the underlying C-2 zone.

In the Sacramento Zoning Code, the proposed self-storage use meets the definition of “mini-storage” which is described as a facility that offers individually secured units or surface space for the storage of goods, other than hazardous materials, for rental to the public, each of which is accessible only by the renter of the individual unit or space. Regulation of this use varies, depending on distance from a light rail station. In the C-2-LI zone, mini-storage uses are conditionally permitted with a conditional use permit.

Proposed Entitlements

The proposed project includes the following entitlements:

- Conditional Use Permit for the storage use
- Site Plan and Design Review for the storage use
- Tentative Parcel Map to subdivide 14.47 acres into four parcels

Self-Storage Use

The proposed project consists of a 139,482 square foot (sf) self-storage facility in two buildings on a 2.52-acre parcel in the northeast portion of the site. Building 1 would consist of a three-story, 135,690 sf storage building and Building 2 would be a one-story 3,792 sf unconditioned storage building.

	Building 1	Building 2
Building Size	135,690 sf	3,792 sf
Stories	3 story	1 story
Space	Conditioned space	Unconditioned space
Storage Units	Includes 12 units accessed externally	Total of 12 units, all accessed externally

Access to the site will be available from a driveway extending from Leisure Lane. The site will be landscaped and include 18 parking spaces. The site is designed so that buildings will relate and connect to uses on adjacent parcels when they are developed. The storage units accessible from the outside of the buildings (drive-up units) are located between the buildings to minimize aesthetic impacts. The height of the three-story building is 41’6” and the lot coverage is 46.7%.

Development Concept for Overall Site

A Tentative Parcel Map is proposed to subdivide the 14.47-acre site into four parcels ranging in size from 2.52 to 4.56 acres. The proposed self-storage use is on Parcel 4.

Parcel	Acreage	Uses
1	4.56 acres	See description below regarding potential development scenario.
2	4.55 acres	
3	2.84 acres	
4	2.52 acres	139,482 sf self-storage use
	14.47 acres	

Although a range of uses is permitted in the C-2LI zone, the Applicant’s vision for the site is to develop the parcels with the following mix of retail, residential and/or hotel uses listed below:

- Senior Apartments (three-story building, approximately 150-170 units)
- Hotel (100-120 room, 4-5 story, 70-80,000± sf)
- Retail (single-story, 50,000± sf, 0.4 – 0.5 FAR)
- Self-Storage (139,482 sf) (Parcel 4)

The types of uses envisioned for the site are significantly less intense than the maximum intensity permitted for the site under General Plan and zoning development standards. For instance, under General Plan development standards, a maximum of 257,004 square feet of retail uses could be constructed on Parcels 1, 2 and 3, assuming buildout at the maximum floor area ratio (FAR) of 2.0.

Development Scenarios for Parcels 1, 2 and 3 (11.75 acres)

	Under General Plan Development Standards	Proposed Development Concept
Uses	257,0004 sf of Commercial Uses	Senior Apartments (150-170 units), Hotel (120 rooms, 4-5 story, 70-80,000 sf), Retail (single-story, 50,000 sf, 0.4 – 0.5 FAR)
Floor Area Ratio	2.0 (maximum)	Variable

The maximum FAR of 2.0 permitted under the General Plan is unachievable on the project site because vertical mixed use and multi-story retail uses are not proposed. In addition, the land area required to accommodate parking, landscaping, stormwater management and other improvement will further reduce the FAR. The estimated floor area ratio of between 0.4 and 0.5 is a more reasonable assumption for the type of retail uses envisioned.

Access for the parcels would be provided from existing and proposed driveways to Leisure Lane and Expo Parkway and would be shared among uses on the site, as shown in Figure 1.

It is anticipated that the environmental analysis, including the traffic analysis, will evaluate the land uses proposed above. If, in the future, uses other than those described above are proposed, additional environmental or traffic analyses may be required.

Neighborhood Outreach

A neighborhood meeting was held on August 24, 2017, to present information regarding the proposed project to neighbors and interested parties. Neighbors from the Woodlake Neighborhood Association, Woodlake Neighbors Transparency, and Del Paso Boulevard Partnership were invited and less than 10 people attended the meeting.

Figure 1
Conceptual Driveway Locations



Appendix B

Traffic Count Data Sheets

National Data & Surveying Services Intersection Turning Movement Count

Location: Canterbury Road/Expo Parkway & Leisure Lane/Slobe Ave
City: Sacramento
Control: 4-Way Stop

Project ID: 18-07098-001
Date: 3/21/2018

Total

NS/EW Streets:	Canterbury Road/Expo Parkway				Canterbury Road/Expo Parkway				Leisure Lane/Slobe Ave				Leisure Lane/Slobe Ave				TOTAL
	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
AM	0.5 NL	0.5 NT	1 NR	0 NU	0 SL	0.5 ST	0.5 SR	0 SU	1 EL	1 ET	0 ER	0 EU	1 WL	0.5 WT	0.5 WR	0 WU	
7:00 AM	4	9	2	0	12	6	40	0	6	17	4	0	1	32	13	0	146
7:15 AM	7	7	1	0	23	9	31	0	1	8	1	0	7	33	12	0	140
7:30 AM	6	11	0	0	31	15	17	0	8	19	3	0	4	30	11	0	155
7:45 AM	0	6	0	0	35	23	22	0	9	10	0	0	1	15	22	0	143
8:00 AM	5	13	1	0	31	9	27	0	11	10	0	0	12	26	14	0	159
8:15 AM	4	10	3	0	23	14	31	0	8	8	1	0	5	32	24	0	163
8:30 AM	6	8	1	0	31	17	28	0	4	18	3	0	6	30	23	0	175
8:45 AM	4	14	2	0	24	14	24	0	6	10	1	0	1	35	13	0	148
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
APPROACH %'s :	36	78	10	0	210	107	220	0	53	100	13	0	37	233	132	0	1229
	29.03%	62.90%	8.06%	0.00%	39.11%	19.93%	40.97%	0.00%	31.93%	60.24%	7.83%	0.00%	9.20%	57.96%	32.84%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	19	45	7	0	109	54	110	0	29	46	5	0	24	123	74	0	645
PEAK HR FACTOR :	0.792	0.804	0.583	0.000	0.879	0.794	0.887	0.000	0.659	0.639	0.417	0.000	0.500	0.879	0.771	0.000	0.921
	0.888				0.898				0.800				0.906				

NS/EW Streets:	Canterbury Road/Expo Parkway				Canterbury Road/Expo Parkway				Leisure Lane/Slobe Ave				Leisure Lane/Slobe Ave				TOTAL
	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
PM	0.5 NL	0.5 NT	1 NR	0 NU	0 SL	0.5 ST	0.5 SR	0 SU	1 EL	1 ET	0 ER	0 EU	1 WL	0.5 WT	0.5 WR	0 WU	
4:00 PM	2	26	9	0	24	6	8	0	17	39	8	0	8	14	25	0	186
4:15 PM	1	25	8	0	16	18	5	0	12	30	5	0	11	14	30	0	175
4:30 PM	3	31	2	0	17	16	6	0	23	50	6	0	2	12	34	0	202
4:45 PM	1	37	5	0	27	20	5	0	18	26	1	0	4	12	36	0	192
5:00 PM	1	34	6	0	28	12	6	0	26	64	5	0	6	8	52	0	248
5:15 PM	2	30	5	0	21	14	9	0	10	42	4	1	6	9	70	0	223
5:30 PM	0	28	5	0	27	21	11	0	17	29	2	0	6	14	55	0	215
5:45 PM	2	27	4	0	14	13	12	0	8	24	1	0	8	12	25	0	150
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
APPROACH %'s :	12	238	44	0	174	120	62	0	131	304	32	1	51	95	327	0	1591
	4.08%	80.95%	14.97%	0.00%	48.88%	33.71%	17.42%	0.00%	27.99%	64.96%	6.84%	0.21%	10.78%	20.08%	69.13%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	4	129	21	0	103	67	31	0	71	161	12	1	22	43	213	0	878
PEAK HR FACTOR :	0.500	0.872	0.875	0.000	0.920	0.798	0.705	0.000	0.683	0.629	0.600	0.250	0.917	0.768	0.761	0.000	0.885
	0.895				0.852				0.645				0.818				

National Data & Surveying Services Intersection Turning Movement Count

Location: Exposition Boulevard/CR-160 Eastbound Ramps & Leisure Lane
City: Sacramento
Control: Signalized

Project ID: 18-07098-002
Date: 3/21/2018

Total

NS/EW Streets:	Exposition Boulevard/CR-160 Eastbound Ramps				Exposition Boulevard/CR-160 Eastbound Ramps				Leisure Lane				Leisure Lane				TOTAL
	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
AM	1	1	1	0	0.5	1	0.5	0	1	1	1	0	1	1	0	0	TOTAL
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	
7:00 AM	33	1	53	0	6	33	0	0	0	2	30	0	20	1	2	0	181
7:15 AM	35	9	49	0	8	52	0	0	1	1	21	0	41	1	5	0	223
7:30 AM	24	2	74	0	13	57	0	0	0	0	36	0	30	0	7	0	243
7:45 AM	36	8	85	0	17	55	0	0	0	1	41	0	51	1	11	0	306
8:00 AM	27	2	68	0	14	50	0	0	0	2	27	0	39	0	3	0	232
8:15 AM	47	9	63	0	8	62	0	0	0	1	29	0	48	0	7	0	274
8:30 AM	48	4	61	0	9	49	1	0	0	1	35	0	30	0	5	0	243
8:45 AM	29	4	74	0	13	50	0	0	0	2	27	0	32	1	6	0	238
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
	279	39	527	0	88	408	1	0	1	10	246	0	291	4	46	0	1940
APPROACH %'s :	33.02%	4.62%	62.37%	0.00%	17.71%	82.09%	0.20%	0.00%	0.39%	3.89%	95.72%	0.00%	85.34%	1.17%	13.49%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	134	21	290	0	52	224	0	0	0	4	133	0	168	1	28	0	1055
PEAK HR FACTOR :	0.713	0.583	0.853	0.000	0.765	0.903	0.000	0.000	0.000	0.500	0.811	0.000	0.824	0.250	0.636	0.000	0.862
	0.862				0.958				0.815				0.782				
PM	1	1	1	0	0.5	1	0.5	0	1	1	1	0	1	1	0	0	TOTAL
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	
4:00 PM	36	21	93	0	9	84	0	0	0	4	46	0	51	0	23	0	367
4:15 PM	40	24	97	0	8	77	0	0	0	3	33	0	48	1	11	0	342
4:30 PM	31	24	90	0	13	81	1	0	0	4	41	0	47	1	18	0	351
4:45 PM	40	20	96	0	14	82	0	0	2	0	30	0	64	1	16	0	365
5:00 PM	59	22	143	0	13	71	1	0	1	3	53	0	76	0	13	0	455
5:15 PM	68	20	131	0	14	86	0	0	1	4	32	0	56	1	17	0	430
5:30 PM	56	23	103	0	9	106	0	0	2	2	39	0	43	1	9	0	393
5:45 PM	30	10	70	0	12	70	0	0	1	3	29	0	45	1	6	0	277
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
	360	164	823	0	92	657	2	0	7	23	303	0	430	6	113	0	2980
APPROACH %'s :	26.73%	12.18%	61.10%	0.00%	12.25%	87.48%	0.27%	0.00%	2.10%	6.91%	90.99%	0.00%	78.32%	1.09%	20.58%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	223	85	473	0	50	345	1	0	6	9	154	0	239	3	55	0	1643
PEAK HR FACTOR :	0.820	0.924	0.827	0.000	0.893	0.814	0.250	0.000	0.750	0.563	0.726	0.000	0.786	0.750	0.809	0.000	0.903
	0.872				0.861				0.741				0.834				

Appendix C

*Analysis Worksheets for
Existing (2018) Conditions*

Sacramento Self Storage
 1: Expo Parkway/Canterbury Road & Leisure Lane

Existing Conditions
 AM Peak-hour

Intersection	
Intersection Delay, s/veh	11.4
Intersection LOS	B

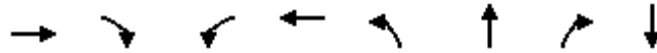
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↶	↷		↶	↷			↶	↷		↶↷	
Traffic Vol, veh/h	29	46	5	26	123	74	19	46	8	109	57	110
Future Vol, veh/h	29	46	5	26	123	74	19	46	8	109	57	110
Peak Hour Factor	0.80	0.80	0.80	0.91	0.91	0.91	0.89	0.89	0.89	0.90	0.90	0.90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	36	58	6	29	135	81	21	52	9	121	63	122
Number of Lanes	1	1	0	1	1	0	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay	9.5	10.8	9.5	13.1
HCM LOS	A	B	A	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	29%	0%	100%	0%	100%	0%	39%
Vol Thru, %	71%	0%	0%	90%	0%	62%	21%
Vol Right, %	0%	100%	0%	10%	0%	38%	40%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	65	8	29	51	26	197	276
LT Vol	19	0	29	0	26	0	109
Through Vol	46	0	0	46	0	123	57
RT Vol	0	8	0	5	0	74	110
Lane Flow Rate	73	9	36	64	29	216	307
Geometry Grp	7	7	7	7	7	7	6
Degree of Util (X)	0.124	0.013	0.066	0.105	0.05	0.334	0.46
Departure Headway (Hd)	6.094	5.238	6.529	5.952	6.332	5.56	5.513
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	590	685	551	604	569	652	656
Service Time	3.814	2.957	4.241	3.665	4.032	3.26	3.513
HCM Lane V/C Ratio	0.124	0.013	0.065	0.106	0.051	0.331	0.468
HCM Control Delay	9.7	8	9.7	9.4	9.4	11	13.1
HCM Lane LOS	A	A	A	A	A	B	B
HCM 95th-tile Q	0.4	0	0.2	0.4	0.2	1.5	2.4

Sacramento Self Storage
 2: Exposition Boulevard & Leisure Lane

Existing Conditions
 AM Peak-hour

























Lane Group	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBT
Lane Group Flow (vph)	5	162	219	37	156	26	337	289
v/c Ratio	0.02	0.21	0.56	0.05	0.47	0.07	0.39	0.46
Control Delay	26.0	3.5	28.0	4.8	28.4	22.6	2.2	25.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	26.0	3.5	28.0	4.8	28.4	22.6	2.2	25.9
Queue Length 50th (ft)	2	0	69	0	50	8	0	48
Queue Length 95th (ft)	10	26	125	12	110	27	16	98
Internal Link Dist (ft)	202			133		232		158
Turn Bay Length (ft)		100	190		210		170	
Base Capacity (vph)	1242	1428	885	1073	1180	1242	1180	2339
Starvation Cap Reductn	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.00	0.11	0.25	0.03	0.13	0.02	0.29	0.12

Intersection Summary

Sacramento Self Storage
2: Exposition Boulevard & Leisure Lane

Existing Conditions
AM Peak-hour

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	4	133	171	1	28	134	22	290	52	226	0
Future Volume (veh/h)	0	4	133	171	1	28	134	22	290	52	226	0
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1863	1863	1863	1900	1863	1863	1863	1900	1863	1900
Adj Flow Rate, veh/h	0	5	162	219	1	36	156	26	337	54	235	0
Adj No. of Lanes	1	1	1	1	1	0	1	1	1	0	2	0
Peak Hour Factor	0.82	0.82	0.82	0.78	0.78	0.78	0.86	0.86	0.86	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	3	337	630	310	18	648	385	405	621	104	482	0
Arrive On Green	0.00	0.18	0.18	0.17	0.42	0.42	0.22	0.22	0.22	0.16	0.16	0.00
Sat Flow, veh/h	1774	1863	1583	1774	43	1547	1774	1863	1583	640	3053	0
Grp Volume(v), veh/h	0	5	162	219	0	37	156	26	337	154	135	0
Grp Sat Flow(s),veh/h/ln	1774	1863	1583	1774	0	1590	1774	1863	1583	1831	1770	0
Q Serve(g_s), s	0.0	0.1	3.8	6.4	0.0	0.8	4.2	0.6	9.1	4.3	3.8	0.0
Cycle Q Clear(g_c), s	0.0	0.1	3.8	6.4	0.0	0.8	4.2	0.6	9.1	4.3	3.8	0.0
Prop In Lane	1.00		1.00	1.00		0.97	1.00		1.00	0.35		0.00
Lane Grp Cap(c), veh/h	3	337	630	310	0	666	385	405	621	298	288	0
V/C Ratio(X)	0.00	0.01	0.26	0.71	0.00	0.06	0.40	0.06	0.54	0.52	0.47	0.00
Avail Cap(c_a), veh/h	963	1348	1490	963	0	1151	1284	1348	1423	1325	1281	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	18.6	11.1	21.5	0.0	9.5	18.6	17.2	13.0	21.1	21.0	0.0
Incr Delay (d2), s/veh	0.0	0.0	0.1	1.1	0.0	0.0	0.3	0.0	0.3	0.5	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.1	2.3	3.2	0.0	0.3	2.1	0.3	3.9	2.2	1.9	0.0
LnGrp Delay(d),s/veh	0.0	18.6	11.2	22.6	0.0	9.6	18.8	17.2	13.3	21.7	21.4	0.0
LnGrp LOS		B	B	C		A	B	B	B	C	C	
Approach Vol, veh/h		167			256			519			289	
Approach Delay, s/veh		11.4			20.7			15.1			21.5	
Approach LOS		B			C			B			C	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	0.0	26.9		15.9	13.2	13.7		12.5				
Change Period (Y+Rc), s	3.5	3.7		3.9	3.5	3.7		3.5				
Max Green Setting (Gmax), s	30.0	40.0		40.0	30.0	40.0		40.0				
Max Q Clear Time (g_c+I1), s	0.0	2.8		11.1	8.4	5.8		6.3				
Green Ext Time (p_c), s	0.0	0.4		0.9	0.3	0.4		1.1				
Intersection Summary												
HCM 2010 Ctrl Delay				17.3								
HCM 2010 LOS				B								

Sacramento Self Storage
1: Expo Parkway/Canterbury Road & Leisure Lane

Existing Conditions
PM Peak-hour

Intersection	
Intersection Delay, s/veh	14.4
Intersection LOS	B

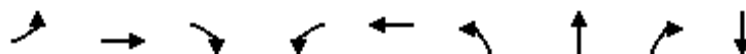
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	72	161	12	23	43	213	4	132	23	103	68	31
Future Vol, veh/h	72	161	12	23	43	213	4	132	23	103	68	31
Peak Hour Factor	0.70	0.70	0.70	0.82	0.82	0.82	0.90	0.90	0.90	0.85	0.85	0.85
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	103	230	17	28	52	260	4	147	26	121	80	36
Number of Lanes	1	1	0	1	1	0	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay	13.7	15	12.5	16
HCM LOS	B	B	B	C

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	3%	0%	100%	0%	100%	0%	51%
Vol Thru, %	97%	0%	0%	93%	0%	17%	34%
Vol Right, %	0%	100%	0%	7%	0%	83%	15%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	136	23	72	173	23	256	202
LT Vol	4	0	72	0	23	0	103
Through Vol	132	0	0	161	0	43	68
RT Vol	0	23	0	12	0	213	31
Lane Flow Rate	151	26	103	247	28	312	238
Geometry Grp	7	7	7	7	7	7	6
Degree of Util (X)	0.301	0.046	0.204	0.451	0.056	0.529	0.463
Departure Headway (Hd)	7.161	6.43	7.125	6.565	7.172	6.103	7.008
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	502	556	504	549	500	593	513
Service Time	4.909	4.178	4.866	4.306	4.908	3.803	5.053
HCM Lane V/C Ratio	0.301	0.047	0.204	0.45	0.056	0.526	0.464
HCM Control Delay	13	9.5	11.7	14.6	10.3	15.4	16
HCM Lane LOS	B	A	B	B	B	C	C
HCM 95th-tile Q	1.3	0.1	0.8	2.3	0.2	3.1	2.4

Sacramento Self Storage
 2: Exposition Boulevard & Leisure Lane

Existing Conditions
 PM Peak-hour

























Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBT
Lane Group Flow (vph)	8	12	208	289	70	256	100	545	461
v/c Ratio	0.04	0.05	0.30	0.62	0.10	0.65	0.24	0.52	0.63
Control Delay	40.8	40.8	9.5	35.0	7.6	39.3	30.1	2.4	35.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	40.8	40.8	9.5	35.0	7.6	39.3	30.1	2.4	35.8
Queue Length 50th (ft)	4	6	26	129	1	121	43	0	114
Queue Length 95th (ft)	17	21	58	235	30	226	95	24	192
Internal Link Dist (ft)		202			133		232		158
Turn Bay Length (ft)	100		100	190		210		170	
Base Capacity (vph)	660	926	1099	660	828	880	926	1168	1750
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.01	0.01	0.19	0.44	0.08	0.29	0.11	0.47	0.26

Intersection Summary

Sacramento Self Storage
2: Exposition Boulevard & Leisure Lane

Existing Conditions
PM Peak-hour

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	9	154	240	3	55	223	87	474	50	346	1
Future Volume (veh/h)	6	9	154	240	3	55	223	87	474	50	346	1
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1863	1863	1863	1900	1863	1863	1863	1900	1863	1900
Adj Flow Rate, veh/h	8	12	208	289	4	66	256	100	545	58	402	1
Adj No. of Lanes	1	1	1	1	1	0	1	1	1	0	2	0
Peak Hour Factor	0.74	0.74	0.74	0.83	0.83	0.83	0.87	0.87	0.87	0.86	0.86	0.86
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	36	246	703	335	27	452	553	581	793	77	566	1
Arrive On Green	0.02	0.13	0.13	0.19	0.30	0.30	0.31	0.31	0.31	0.17	0.17	0.17
Sat Flow, veh/h	1774	1863	1583	1774	91	1506	1774	1863	1583	444	3249	8
Grp Volume(v), veh/h	8	12	208	289	0	70	256	100	545	240	0	221
Grp Sat Flow(s),veh/h/ln	1774	1863	1583	1774	0	1597	1774	1863	1583	1841	0	1861
Q Serve(g_s), s	0.3	0.4	6.4	11.9	0.0	2.4	8.8	3.0	19.8	9.4	0.0	8.4
Cycle Q Clear(g_c), s	0.3	0.4	6.4	11.9	0.0	2.4	8.8	3.0	19.8	9.4	0.0	8.4
Prop In Lane	1.00		1.00	1.00		0.94	1.00		1.00	0.24		0.00
Lane Grp Cap(c), veh/h	36	246	703	335	0	480	553	581	793	321	0	324
V/C Ratio(X)	0.22	0.05	0.30	0.86	0.00	0.15	0.46	0.17	0.69	0.75	0.00	0.68
Avail Cap(c_a), veh/h	703	984	1330	703	0	844	937	984	1136	973	0	984
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	36.5	28.7	13.5	29.7	0.0	19.4	20.9	18.9	14.4	29.7	0.0	29.3
Incr Delay (d2), s/veh	1.1	0.0	0.1	2.6	0.0	0.1	0.2	0.1	0.4	1.3	0.0	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.2	4.3	6.1	0.0	1.1	4.3	1.5	8.7	4.9	0.0	4.4
LnGrp Delay(d),s/veh	37.6	28.7	13.6	32.3	0.0	19.4	21.2	19.0	14.8	31.0	0.0	30.2
LnGrp LOS	D	C	B	C		B	C	B	B	C		C
Approach Vol, veh/h		228			359			901			461	
Approach Delay, s/veh		15.2			29.8			17.1			30.6	
Approach LOS		B			C			B			C	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.0	26.4		27.5	17.8	13.7		16.7				
Change Period (Y+Rc), s	3.5	3.7		3.9	3.5	3.7		3.5				
Max Green Setting (Gmax), s	30.0	40.0		40.0	30.0	40.0		40.0				
Max Q Clear Time (g_c+I1), s	2.3	4.4		21.8	13.9	8.4		11.4				
Green Ext Time (p_c), s	0.0	0.7		1.8	0.4	0.7		1.8				
Intersection Summary												
HCM 2010 Ctrl Delay			22.4									
HCM 2010 LOS			C									

Appendix D

*Analysis Worksheets for
Existing (2018) plus Proposed Project Conditions*

Sacramento Self Storage
1: Expo Parkway/Canterbury Road & Leisure Lane

Existing Plus Proposed Project
AM Peak-hour

Intersection	
Intersection Delay, s/veh	12.2
Intersection LOS	B

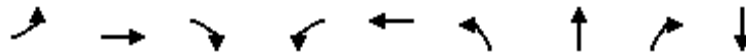
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↶	↷		↶	↷			↶	↷		↷	
Traffic Vol, veh/h	29	46	5	42	123	94	19	58	10	118	60	110
Future Vol, veh/h	29	46	5	42	123	94	19	58	10	118	60	110
Peak Hour Factor	0.80	0.80	0.80	0.91	0.91	0.91	0.89	0.89	0.89	0.90	0.90	0.90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	36	58	6	46	135	103	21	65	11	131	67	122
Number of Lanes	1	1	0	1	1	0	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay	9.7	11.4	9.9	14.3
HCM LOS	A	B	A	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	25%	0%	100%	0%	100%	0%	41%
Vol Thru, %	75%	0%	0%	90%	0%	57%	21%
Vol Right, %	0%	100%	0%	10%	0%	43%	38%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	77	10	29	51	42	217	288
LT Vol	19	0	29	0	42	0	118
Through Vol	58	0	0	46	0	123	60
RT Vol	0	10	0	5	0	94	110
Lane Flow Rate	87	11	36	64	46	238	320
Geometry Grp	7	7	7	7	7	7	6
Degree of Util (X)	0.15	0.017	0.068	0.109	0.083	0.373	0.502
Departure Headway (Hd)	6.237	5.403	6.717	6.139	6.441	5.627	5.65
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	574	662	533	583	557	639	640
Service Time	3.977	3.142	4.458	3.88	4.174	3.36	3.68
HCM Lane V/C Ratio	0.152	0.017	0.068	0.11	0.083	0.372	0.5
HCM Control Delay	10.1	8.2	10	9.6	9.8	11.7	14.3
HCM Lane LOS	B	A	A	A	A	B	B
HCM 95th-tile Q	0.5	0.1	0.2	0.4	0.3	1.7	2.8

Sacramento Self Storage
2: Exposition Boulevard & Leisure Lane

Existing Plus Proposed Project
AM Peak-hour

























Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBT
Lane Group Flow (vph)	27	10	177	250	82	174	43	341	300
v/c Ratio	0.10	0.03	0.23	0.59	0.12	0.50	0.12	0.38	0.48
Control Delay	29.0	28.8	3.6	29.1	14.7	30.2	24.1	2.0	27.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	29.0	28.8	3.6	29.1	14.7	30.2	24.1	2.0	27.9
Queue Length 50th (ft)	9	3	0	85	12	61	14	0	54
Queue Length 95th (ft)	32	17	28	148	46	127	41	16	109
Internal Link Dist (ft)		202			133		232		158
Turn Bay Length (ft)	100		100	190		210		170	
Base Capacity (vph)	838	1176	1362	838	1106	1117	1176	1165	2201
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.03	0.01	0.13	0.30	0.07	0.16	0.04	0.29	0.14

Intersection Summary

Sacramento Self Storage
2: Exposition Boulevard & Leisure Lane

Existing Plus Proposed Project
AM Peak-hour

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	8	145	195	36	28	150	37	293	52	226	11
Future Volume (veh/h)	22	8	145	195	36	28	150	37	293	52	226	11
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1863	1863	1863	1900	1863	1863	1863	1900	1863	1900
Adj Flow Rate, veh/h	27	10	177	250	46	36	174	43	341	54	235	11
Adj No. of Lanes	1	1	1	1	1	0	1	1	1	0	2	0
Peak Hour Factor	0.82	0.82	0.82	0.78	0.78	0.78	0.86	0.86	0.86	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	109	335	633	312	286	223	390	410	627	102	469	23
Arrive On Green	0.06	0.18	0.18	0.18	0.29	0.29	0.22	0.22	0.22	0.16	0.16	0.16
Sat Flow, veh/h	1774	1863	1583	1774	970	759	1774	1863	1583	630	2898	141
Grp Volume(v), veh/h	27	10	177	250	0	82	174	43	341	157	0	143
Grp Sat Flow(s),veh/h/ln	1774	1863	1583	1774	0	1729	1774	1863	1583	1831	0	1838
Q Serve(g_s), s	0.8	0.2	4.2	7.5	0.0	2.0	4.7	1.0	9.2	4.4	0.0	3.9
Cycle Q Clear(g_c), s	0.8	0.2	4.2	7.5	0.0	2.0	4.7	1.0	9.2	4.4	0.0	3.9
Prop In Lane	1.00		1.00	1.00		0.44	1.00		1.00	0.34		0.08
Lane Grp Cap(c), veh/h	109	335	633	312	0	509	390	410	627	296	0	297
V/C Ratio(X)	0.25	0.03	0.28	0.80	0.00	0.16	0.45	0.10	0.54	0.53	0.00	0.48
Avail Cap(c_a), veh/h	957	1340	1487	957	0	1243	1276	1340	1417	1317	0	1322
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	24.9	18.8	11.3	22.0	0.0	14.5	18.8	17.3	12.9	21.4	0.0	21.2
Incr Delay (d2), s/veh	0.4	0.0	0.1	1.8	0.0	0.1	0.3	0.0	0.3	0.5	0.0	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.1	2.5	3.8	0.0	0.9	2.4	0.5	4.0	2.2	0.0	2.0
LnGrp Delay(d),s/veh	25.3	18.8	11.4	23.8	0.0	14.6	19.1	17.4	13.2	21.9	0.0	21.6
LnGrp LOS	C	B	B	C		B	B	B	B	C		C
Approach Vol, veh/h		214			332			558			300	
Approach Delay, s/veh		13.5			21.5			15.4			21.8	
Approach LOS		B			C			B			C	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.9	20.1		16.1	13.3	13.7		12.5				
Change Period (Y+Rc), s	3.5	3.7		3.9	3.5	3.7		3.5				
Max Green Setting (Gmax), s	30.0	40.0		40.0	30.0	40.0		40.0				
Max Q Clear Time (g_c+I1), s	2.8	4.0		11.2	9.5	6.2		6.4				
Green Ext Time (p_c), s	0.0	0.6		1.0	0.3	0.6		1.1				
Intersection Summary												
HCM 2010 Ctrl Delay			17.9									
HCM 2010 LOS			B									

Sacramento Self Storage
3: Driveway #1 & Leisure Lane

Existing Plus Proposed Project
AM Peak-hour

Intersection

Int Delay, s/veh 2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	150	4	50	147	12	27
Future Vol, veh/h	150	4	50	147	12	27
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	163	4	54	160	13	29

Major/Minor

	Major1	Major2	Minor1		
Conflicting Flow All	0	0	167	0	433
Stage 1	-	-	-	-	165
Stage 2	-	-	-	-	268
Critical Hdwy	-	-	4.12	-	6.42
Critical Hdwy Stg 1	-	-	-	-	5.42
Critical Hdwy Stg 2	-	-	-	-	5.42
Follow-up Hdwy	-	-	2.218	-	3.518
Pot Cap-1 Maneuver	-	-	1411	-	580
Stage 1	-	-	-	-	864
Stage 2	-	-	-	-	777
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1411	-	556
Mov Cap-2 Maneuver	-	-	-	-	556
Stage 1	-	-	-	-	864
Stage 2	-	-	-	-	744

Approach

	EB	WB	NB
HCM Control Delay, s	0	1.9	10.1
HCM LOS			B

Minor Lane/Major Mvmt

	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	746	-	-	1411	-
HCM Lane V/C Ratio	0.057	-	-	0.039	-
HCM Control Delay (s)	10.1	-	-	7.7	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.2	-	-	0.1	-

Intersection

Int Delay, s/veh 1.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	137	24	20	144	18	15
Future Vol, veh/h	137	24	20	144	18	15
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	149	26	22	157	20	16

Major/Minor

	Major1	Major2	Minor1		
Conflicting Flow All	0	0	175	0	362
Stage 1	-	-	-	-	162
Stage 2	-	-	-	-	200
Critical Hdwy	-	-	4.12	-	6.42
Critical Hdwy Stg 1	-	-	-	-	5.42
Critical Hdwy Stg 2	-	-	-	-	5.42
Follow-up Hdwy	-	-	2.218	-	3.518
Pot Cap-1 Maneuver	-	-	1401	-	637
Stage 1	-	-	-	-	867
Stage 2	-	-	-	-	834
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1401	-	626
Mov Cap-2 Maneuver	-	-	-	-	626
Stage 1	-	-	-	-	867
Stage 2	-	-	-	-	820

Approach

	EB	WB	NB
HCM Control Delay, s	0	0.9	10.3
HCM LOS			B

Minor Lane/Major Mvmt

	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	721	-	-	1401	-
HCM Lane V/C Ratio	0.05	-	-	0.016	-
HCM Control Delay (s)	10.3	-	-	7.6	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.2	-	-	0	-

Intersection

Int Delay, s/veh 0.7

Movement EBL EBT WBT WBR SBL SBR

Lane Configurations		↕	↕		↕	
Traffic Vol, veh/h	7	97	88	7	5	5
Future Vol, veh/h	7	97	88	7	5	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	105	96	8	5	5

Major/Minor Major1 Major2 Minor2

Conflicting Flow All	103	0	-	0	220	99
Stage 1	-	-	-	-	99	-
Stage 2	-	-	-	-	121	-
Critical Hdwy	4.12	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.218	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1489	-	-	-	768	957
Stage 1	-	-	-	-	925	-
Stage 2	-	-	-	-	904	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1489	-	-	-	763	957
Mov Cap-2 Maneuver	-	-	-	-	763	-
Stage 1	-	-	-	-	925	-
Stage 2	-	-	-	-	899	-

Approach EB WB SB

HCM Control Delay, s	0.5	0	9.3
HCM LOS			A

Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1

Capacity (veh/h)	1489	-	-	-	849
HCM Lane V/C Ratio	0.005	-	-	-	0.013
HCM Control Delay (s)	7.4	0	-	-	9.3
HCM Lane LOS	A	A	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	0

Sacramento Self Storage
6: Cosco Driveway/Driveway #4 & Expo Parkway

Existing Plus Proposed Project
AM Peak-hour

Intersection

Int Delay, s/veh 1.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	13	89	0	0	83	34	0	0	0	25	0	9
Future Vol, veh/h	13	89	0	0	83	34	0	0	0	25	0	9
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	14	97	0	0	90	37	0	0	0	27	0	10

Major/Minor	Major1		Major2		Minor1		Minor2					
Conflicting Flow All	127	0	0	97	0	0	239	252	97	234	234	109
Stage 1	-	-	-	-	-	-	125	125	-	109	109	-
Stage 2	-	-	-	-	-	-	114	127	-	125	125	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1459	-	-	1496	-	-	715	651	959	721	666	945
Stage 1	-	-	-	-	-	-	879	792	-	896	805	-
Stage 2	-	-	-	-	-	-	891	791	-	879	792	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1459	-	-	1496	-	-	702	644	959	716	659	945
Mov Cap-2 Maneuver	-	-	-	-	-	-	702	644	-	716	659	-
Stage 1	-	-	-	-	-	-	870	784	-	887	805	-
Stage 2	-	-	-	-	-	-	882	791	-	870	784	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	1	0	0	9.9
HCM LOS			A	A

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1459	-	-	1496	-	-	765
HCM Lane V/C Ratio	-	0.01	-	-	-	-	-	0.048
HCM Control Delay (s)		0	7.5	0	-	0	-	9.9
HCM Lane LOS		A	A	A	-	A	-	A
HCM 95th %tile Q(veh)		-	0	-	-	0	-	0.2

Sacramento Self Storage
1: Expo Parkway/Canterbury Road & Leisure Lane

Existing Plus Proposed Project
PM Peak-hour

Intersection	
Intersection Delay, s/veh	14.2
Intersection LOS	B

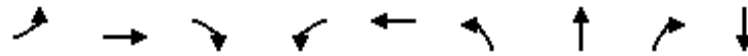
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	72	161	12	39	43	242	4	149	26	112	71	31
Future Vol, veh/h	72	161	12	39	43	242	4	149	26	112	71	31
Peak Hour Factor	0.80	0.80	0.80	0.91	0.91	0.91	0.89	0.89	0.89	0.90	0.90	0.90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	90	201	15	43	47	266	4	167	29	124	79	34
Number of Lanes	1	1	0	1	1	0	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay	13.2	14.8	12.8	16
HCM LOS	B	B	B	C

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	3%	0%	100%	0%	100%	0%	52%
Vol Thru, %	97%	0%	0%	93%	0%	15%	33%
Vol Right, %	0%	100%	0%	7%	0%	85%	14%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	153	26	72	173	39	285	214
LT Vol	4	0	72	0	39	0	112
Through Vol	149	0	0	161	0	43	71
RT Vol	0	26	0	12	0	242	31
Lane Flow Rate	172	29	90	216	43	313	238
Geometry Grp	7	7	7	7	7	7	6
Degree of Util (X)	0.338	0.052	0.181	0.401	0.086	0.528	0.463
Departure Headway (Hd)	7.086	6.357	7.235	6.675	7.182	6.065	7.007
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	507	563	496	538	499	595	514
Service Time	4.828	4.099	4.974	4.413	4.917	3.799	5.047
HCM Lane V/C Ratio	0.339	0.052	0.181	0.401	0.086	0.526	0.463
HCM Control Delay	13.4	9.4	11.6	13.8	10.6	15.4	16
HCM Lane LOS	B	A	B	B	B	C	C
HCM 95th-tile Q	1.5	0.2	0.7	1.9	0.3	3.1	2.4

Sacramento Self Storage
2: Exposition Boulevard & Leisure Lane

Existing Plus Proposed Project
PM Peak-hour

























Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBT
Lane Group Flow (vph)	46	18	209	340	122	278	126	557	426
v/c Ratio	0.23	0.09	0.31	0.58	0.19	0.72	0.31	0.50	0.68
Control Delay	44.2	42.2	9.8	32.5	18.4	44.6	32.2	2.1	41.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	44.2	42.2	9.8	32.5	18.4	44.6	32.2	2.1	41.5
Queue Length 50th (ft)	25	10	30	161	33	149	61	0	121
Queue Length 95th (ft)	60	31	70	256	74	236	111	20	190
Internal Link Dist (ft)		202			133		232		158
Turn Bay Length (ft)	100		100	190		210		170	
Base Capacity (vph)	585	821	989	585	787	780	821	1125	1544
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.02	0.21	0.58	0.16	0.36	0.15	0.50	0.28

Intersection Summary

Sacramento Self Storage
2: Exposition Boulevard & Leisure Lane

Existing Plus Proposed Project
PM Peak-hour

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	38	15	171	265	40	55	239	108	479	50	346	13
Future Volume (veh/h)	38	15	171	265	40	55	239	108	479	50	346	13
Number	1	6	16	5	2	12	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1863	1863	1863	1900	1863	1863	1863	1900	1863	1900
Adj Flow Rate, veh/h	46	18	209	340	51	71	278	126	557	52	360	14
Adj No. of Lanes	1	1	1	1	1	0	1	1	1	0	2	0
Peak Hour Factor	0.82	0.82	0.82	0.78	0.78	0.78	0.86	0.86	0.86	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	143	237	689	384	186	259	546	574	831	70	507	21
Arrive On Green	0.08	0.13	0.13	0.22	0.26	0.26	0.31	0.31	0.31	0.16	0.16	0.16
Sat Flow, veh/h	1774	1863	1583	1774	706	983	1774	1863	1583	429	3125	127
Grp Volume(v), veh/h	46	18	209	340	0	122	278	126	557	223	0	203
Grp Sat Flow(s),veh/h/ln	1774	1863	1583	1774	0	1689	1774	1863	1583	1841	0	1840
Q Serve(g_s), s	1.9	0.7	6.7	14.6	0.0	4.5	10.1	3.9	20.3	9.1	0.0	8.2
Cycle Q Clear(g_c), s	1.9	0.7	6.7	14.6	0.0	4.5	10.1	3.9	20.3	9.1	0.0	8.2
Prop In Lane	1.00		1.00	1.00		0.58	1.00		1.00	0.23		0.07
Lane Grp Cap(c), veh/h	143	237	689	384	0	445	546	574	831	299	0	298
V/C Ratio(X)	0.32	0.08	0.30	0.88	0.00	0.27	0.51	0.22	0.67	0.75	0.00	0.68
Avail Cap(c_a), veh/h	678	949	1294	678	0	860	904	949	1150	938	0	937
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	34.1	30.2	14.4	29.8	0.0	23.0	22.3	20.2	13.7	31.4	0.0	31.0
Incr Delay (d2), s/veh	0.5	0.0	0.1	2.8	0.0	0.1	0.3	0.1	0.4	1.4	0.0	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	0.3	4.5	7.4	0.0	2.1	5.0	2.0	8.8	4.7	0.0	4.2
LnGrp Delay(d),s/veh	34.5	30.2	14.5	32.6	0.0	23.1	22.6	20.2	14.0	32.8	0.0	32.0
LnGrp LOS	C	C	B	C		C	C	C	B	C		C
Approach Vol, veh/h		273			462			961			426	
Approach Delay, s/veh		18.9			30.1			17.3			32.4	
Approach LOS		B			C			B			C	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.8	24.4		28.1	20.5	13.7		16.2				
Change Period (Y+Rc), s	3.5	3.7		3.9	3.5	3.7		3.5				
Max Green Setting (Gmax), s	30.0	40.0		40.0	30.0	40.0		40.0				
Max Q Clear Time (g_c+I1), s	3.9	6.5		22.3	16.6	8.7		11.1				
Green Ext Time (p_c), s	0.0	0.9		1.9	0.4	0.9		1.7				
Intersection Summary												
HCM 2010 Ctrl Delay			23.3									
HCM 2010 LOS			C									

Intersection

Int Delay, s/veh 2.3

Movement EBT EBR WBL WBT NBL NBR

Lane Configurations						
Traffic Vol, veh/h	187	5	62	229	21	48
Future Vol, veh/h	187	5	62	229	21	48
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	203	5	67	249	23	52

Major/Minor Major1 Major2 Minor1

Conflicting Flow All	0	0	209	0	590	206
Stage 1	-	-	-	-	206	-
Stage 2	-	-	-	-	384	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1362	-	470	835
Stage 1	-	-	-	-	829	-
Stage 2	-	-	-	-	688	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1362	-	443	835
Mov Cap-2 Maneuver	-	-	-	-	443	-
Stage 1	-	-	-	-	829	-
Stage 2	-	-	-	-	649	-

Approach EB WB NB

HCM Control Delay, s	0	1.7	11.2
HCM LOS			B

Minor Lane/Major Mvmt NBLn1 EBT EBR WBL WBT

Capacity (veh/h)	658	-	-	1362	-
HCM Lane V/C Ratio	0.114	-	-	0.049	-
HCM Control Delay (s)	11.2	-	-	7.8	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.4	-	-	0.2	-

Intersection

Int Delay, s/veh 1.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	164	30	26	235	32	27
Future Vol, veh/h	164	30	26	235	32	27
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	178	33	28	255	35	29

Major/Minor

	Major1	Major2	Minor1		
Conflicting Flow All	0	0	211	0	507
Stage 1	-	-	-	-	195
Stage 2	-	-	-	-	312
Critical Hdwy	-	-	4.12	-	6.42
Critical Hdwy Stg 1	-	-	-	-	5.42
Critical Hdwy Stg 2	-	-	-	-	5.42
Follow-up Hdwy	-	-	2.218	-	3.518
Pot Cap-1 Maneuver	-	-	1360	-	525
Stage 1	-	-	-	-	838
Stage 2	-	-	-	-	742
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1360	-	512
Mov Cap-2 Maneuver	-	-	-	-	512
Stage 1	-	-	-	-	838
Stage 2	-	-	-	-	724

Approach

	EB	WB	NB
HCM Control Delay, s	0	0.8	11.4
HCM LOS			B

Minor Lane/Major Mvmt

	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	625	-	-	1360	-
HCM Lane V/C Ratio	0.103	-	-	0.021	-
HCM Control Delay (s)	11.4	-	-	7.7	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.3	-	-	0.1	-

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↕	↕		↕	
Traffic Vol, veh/h	7	119	171	7	7	7
Future Vol, veh/h	7	119	171	7	7	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	129	186	8	8	8

Major/Minor	Major1	Major2	Minor2		
Conflicting Flow All	193	0	-	0	335 190
Stage 1	-	-	-	-	190 -
Stage 2	-	-	-	-	145 -
Critical Hdwy	4.12	-	-	-	6.42 6.22
Critical Hdwy Stg 1	-	-	-	-	5.42 -
Critical Hdwy Stg 2	-	-	-	-	5.42 -
Follow-up Hdwy	2.218	-	-	-	3.518 3.318
Pot Cap-1 Maneuver	1380	-	-	-	660 852
Stage 1	-	-	-	-	842 -
Stage 2	-	-	-	-	882 -
Platoon blocked, %		-	-	-	
Mov Cap-1 Maneuver	1380	-	-	-	656 852
Mov Cap-2 Maneuver	-	-	-	-	656 -
Stage 1	-	-	-	-	842 -
Stage 2	-	-	-	-	877 -

Approach	EB	WB	SB
HCM Control Delay, s	0.4	0	10
HCM LOS			B

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1380	-	-	-	741
HCM Lane V/C Ratio	0.006	-	-	-	0.021
HCM Control Delay (s)	7.6	0	-	-	10
HCM Lane LOS	A	A	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1

Sacramento Self Storage
6: Cosco Driveway/Driveway #4 & Expo Parkway

Existing Plus Proposed Project
PM Peak-hour

Intersection

Int Delay, s/veh 2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	16	111	0	0	155	42	0	0	0	44	0	17
Future Vol, veh/h	16	111	0	0	155	42	0	0	0	44	0	17
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	17	121	0	0	168	46	0	0	0	48	0	18

Major/Minor	Major1		Major2		Minor1		Minor2					
Conflicting Flow All	214	0	0	121	0	0	356	369	121	346	346	191
Stage 1	-	-	-	-	-	-	155	155	-	191	191	-
Stage 2	-	-	-	-	-	-	201	214	-	155	155	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1356	-	-	1467	-	-	599	560	930	608	577	851
Stage 1	-	-	-	-	-	-	847	769	-	811	742	-
Stage 2	-	-	-	-	-	-	801	725	-	847	769	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1356	-	-	1467	-	-	580	553	930	602	569	851
Mov Cap-2 Maneuver	-	-	-	-	-	-	580	553	-	602	569	-
Stage 1	-	-	-	-	-	-	836	759	-	800	742	-
Stage 2	-	-	-	-	-	-	784	725	-	836	759	-

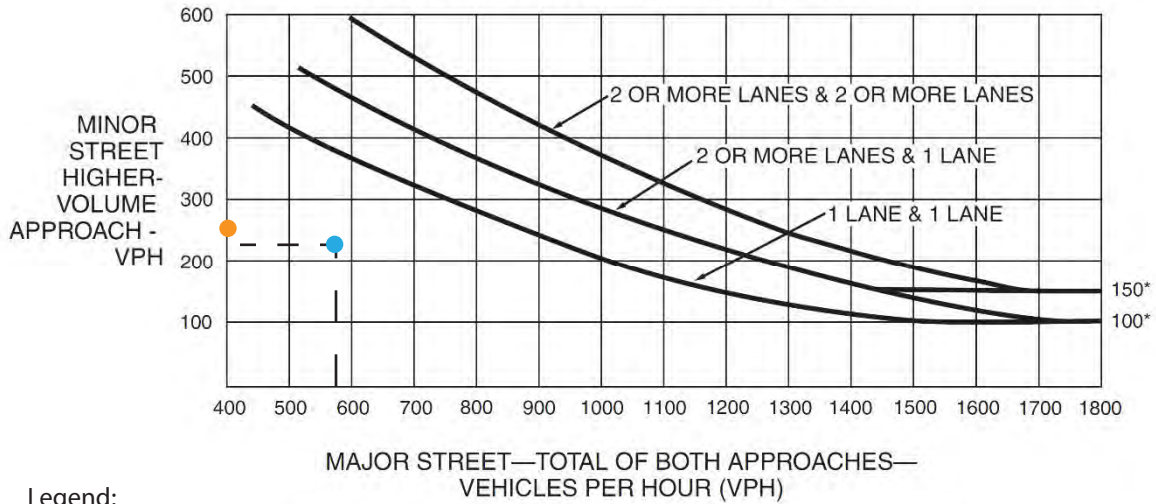
Approach	EB	WB	NB	SB
HCM Control Delay, s	1	0	0	11.1
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	1356	-	-	1467	-	-	655
HCM Lane V/C Ratio	-	0.013	-	-	-	-	-	0.101
HCM Control Delay (s)		0	7.7	0	-	0	-	11.1
HCM Lane LOS		A	A	A	-	A	-	B
HCM 95th %tile Q(veh)		-	0	-	-	0	-	0.3

Appendix E

*Analysis Worksheets for
Signal Warrants*

Figure 4C-3. Warrant 3, Peak Hour



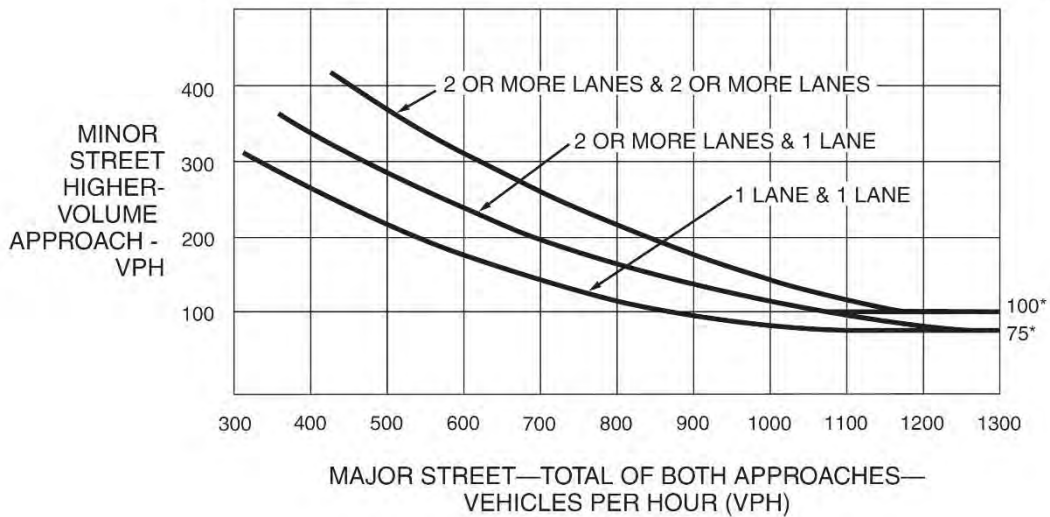
Legend:

- AM Volumes
- PM Volumes

*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.



Appendix F

Mitigation Monitoring and Reporting Program



MITIGATION MONITORING AND REPORTING PROGRAM SACRAMENTO STORAGE

Purpose of Mitigation Monitoring and Reporting Program: The California Environmental Quality Act (CEQA), Public Resources Code Section 21081.6, requires that a Mitigation Monitoring and Reporting Program (MMRP) be established upon completing findings. CEQA stipulates that “the public agency shall adopt a reporting or monitoring program for the changes to the project which it has adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment. The reporting or monitoring program shall be designed to ensure compliance during project implementation.”

This MMRP has been prepared in compliance with Section 21081.6 of CEQA to ensure that all required mitigation measures are implemented and completed according to schedule and maintained in a satisfactory manner during the construction and operation of the project, as required. A table (attached) has been prepared to assist the responsible parties in implementing the MMRP. The table identifies individual mitigation measures, monitoring/mitigation timing, the responsible person/agency for implementing the measure, and space to confirm implementation of the mitigation measures. The numbering of mitigation measures follows the numbering sequence found in the Initial Study and Mitigated Negative Declaration.

The City of Sacramento is the lead agency for the project under CEQA and shall administer and implement the MMRP. The City is responsible for review of all monitoring reports, enforcement actions, and document disposition. The City shall rely on information provided by the project site observers/monitors (e.g., construction manager, project manager, biologist, archaeologist, etc.) as accurate and up-to-date and shall provide personnel to field check mitigation measure status, as required.

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**MITIGATION MONITORING AND REPORTING PROGRAM CHECKLIST FOR THE
SACRAMENTO STORAGE**

Mitigation Measure	Monitoring / Mitigation Timing	Reporting / Responsible Party	Verification of Compliance	
			Initials	Date
BIOLOGICAL RESOURCES				
<p>MM BIO-01: Avoid and minimize impacts to Swainson’s Hawk. If construction activities occur during the breeding season (between February 16 and August 31), the construction contractor shall retain a qualified biologist to conduct preconstruction surveys for Swainson’s hawk, nesting raptors and migratory birds and to identify active nests on and within 0.25 mile of the demolition and construction site. The surveys shall be conducted no more than 30 days before the beginning of construction activities that could remove trees or otherwise disturb nesting raptors. To the extent feasible, guidelines provided in Recommended Timing and Methodology for Swainson’s Hawk Nesting Surveys in the Central Valley (Swainson’s Hawk Technical Advisory Committee 2000) will be followed. Preconstruction surveys for Swainson’s hawk, nesting raptor, and migratory birds are not required if construction activities occur outside of the breeding season (September 1 through February 15).</p> <p>If active nests are found, the construction contractor shall establish appropriate buffers around the nests. The qualified biologist will determine an adequate buffer for the species and nest. No project activity shall commence within the buffer area until a qualified biologist confirms that any young have fledged and the nest is no longer active. Monitoring of the nest by a qualified biologist shall be required if the activity has the potential to adversely affect the nest. For Swainson’s hawk nests, CDFG guidelines (1994) recommend maintenance of 0.25 mile buffers around Swainson’s hawk nests in developed areas, but the size of the buffer may be adjusted if a qualified biologist, in consultation with CDFW, determines that such an adjustment would not be likely to adversely affect the nest. Monitoring of the nest by a qualified biologist will be required if the activity has potential to adversely affect the nest.</p>	<p>Prior to construction – this mitigation measure shall be included in all project conditions of approval and implemented 30 days prior to the start of construction activities.</p>	<p>City of Sacramento; Construction Contractor</p>		
CULTURAL RESOURCES				

<p>MM CUL-01: Cultural and Tribal Cultural resources sensitivity and awareness training program. The City shall require the applicant/contractor to provide a cultural and tribal cultural resources sensitivity and awareness training program for all personnel involved in project construction, including field consultants and construction workers. The training will be developed in coordination with interested culturally affiliated Native American Tribes. The training will be conducted in coordination with qualified cultural resources specialists. The City may invite Native American Representatives from interested culturally affiliated Native American Tribes to participate. The training shall be conducted before any construction activities begins on the project site. The program will include relevant information regarding sensitive tribal cultural resources and archaeological resources, including applicable regulations, protocols for avoidance, and consequences of violating State laws and regulations.</p> <p>The worker cultural resources sensitivity and awareness program will also describe appropriate avoidance and minimization measures for resources that have the potential to be located on the project site and will outline what to do and who to contact if any potential Tribal Cultural Resources or archaeological resources or artifacts are encountered.</p> <p>The program will emphasize the requirement for confidentiality and culturally-appropriate treatment of any discovery of significance to Native Americans and will discuss appropriate behaviors and responsive actions, consistent with Native American Tribal values.</p>	<p>This mitigation measure shall be implemented prior to construction or earthmoving activities.</p>	<p>City of Sacramento; Archeologist or Qualified Cultural Resource Monitor; and Construction Contractor</p>		
<p>MM CUL-02: Avoid and minimize impacts to previously unknown archaeological resources. If archaeological resources, or tribal cultural resources, are</p>	<p>Prior to and during construction – this mitigation measure shall be included in all</p>	<p>City of Sacramento; Archeologist or Qualified Cultural Resource Monitor;</p>		

<p>encountered in the project area during construction, the following performance standards shall be met prior to continuance of construction and associated activities that may result in damage to or destruction of tribal cultural resources:</p> <ul style="list-style-type: none"> • Each resource will be evaluated for California Register of Historical Resources (CRHR) eligibility through application of established eligibility criteria (California Code of Regulations 15064.636), in consultation with consulting Native American Tribes. <p>If a tribal cultural resource is determined to be eligible for listing on the CRHR, the City will avoid damaging effects to the resource in accordance with California PRC Section 21084.3, if feasible. If the City determines that the project may cause a significant impact to a tribal cultural resource, and measures are not otherwise identified in the consultation process, the following are examples of mitigation capable of avoiding or substantially lessening potential significant impacts to a tribal cultural resource or alternatives that would avoid significant impacts to the resource. These measures may be considered to avoid or minimize significant adverse impacts and constitute the standard by which an impact conclusion of less-than significant may be reached:</p> <ol style="list-style-type: none"> i. Avoid and preserve resources in place, including, but not limited to, planning construction to avoid the resources and protect the cultural and natural context, or planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria. ii. Treat the resource with culturally appropriate dignity taking into account the Tribal cultural values and meaning of the resource, including, but not limited to, the following: <ol style="list-style-type: none"> iii. Protect the cultural character and integrity of the resource. iv. Protect the traditional use of the resource. i. Protect the confidentiality of the resource. ii. Establish permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or using the resources or places. <ol style="list-style-type: none"> iii. Rebury the resource in place. iv. Protect the resource. 	<p>construction documents for implementation during construction.</p>	<p>and Construction Contractor</p>		
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<p>Avoidance and preservation in place is the preferred manner of mitigating impacts to tribal cultural resources and archaeological resources and will be accomplished, if feasible, by several alternative means, including:</p> <ul style="list-style-type: none"> • Planning construction to avoid tribal cultural resources, archaeological sites and/ or other resources; incorporating sites within parks, green-space or other open space; covering archaeological sites; deeding a site to a permanent conservation easement; or other preservation and protection methods agreeable to consulting parties and regulatory authorities with jurisdiction over the activity. • Recommendations for avoidance of Tribal Cultural Resources and Native American archaeological sites will be reviewed by the City representative, interested culturally affiliated Native American Tribes and other appropriate agencies, in light of factors such as costs, logistics, feasibility, design, technology and social, cultural and environmental considerations, and the extent to which avoidance is consistent with project objectives. Avoidance and design alternatives may include realignment within the project area to avoid cultural resources, modification of the design to eliminate or reduce impacts to cultural resources or modification or realignment to avoid highly significant features within a cultural resource. • Native American Representatives from interested culturally affiliated Native American Tribes will be allowed to review and comment on these analyses and shall have the opportunity to meet with the City representative and its representatives who have technical expertise to identify and recommend feasible avoidance and design alternatives, so that appropriate and feasible avoidance and design alternatives can be identified. • If the discovered resource can be avoided, the construction contractor(s), will install protective fencing outside the site boundary, including a 100-foot buffer area, before construction restarts. The boundary of a Tribal Cultural Resource or a Native American archaeological site will be determined in consultation with interested culturally affiliated Native American Tribes and such Tribes will be invited to monitor the installation of fencing. Use of temporary and permanent forms of protective fencing will 				
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<p>be determined in consultation with Native American Representatives from interested culturally affiliated Native American Tribes.</p> <ul style="list-style-type: none"> • The construction contractor(s) will maintain the protective fencing throughout construction to avoid the site during all remaining phases of construction. The area will be demarcated as an “Environmentally Sensitive Area”. • Native American Representatives from interested culturally affiliated Native American Tribes and the City representative will also consult to develop measures for long term management of any discovered Tribal Cultural Resources. Consultation will be limited to actions consistent with the jurisdiction of the City and taking into account ownership of the subject property. To the extent that the City has jurisdiction, routine operation and maintenance within Tribal Cultural Resources retaining tribal cultural integrity shall be consistent with the avoidance and minimization standards identified in this mitigation measure. <p>To implement these avoidance and minimization standards, the following procedures shall be followed in the event of the discovery of a tribal cultural resource:</p> <ul style="list-style-type: none"> • If any tribal archaeological resources or Native American materials, such as structural features, unusual amounts of bone or shell, artifacts, human remains, or Native American architectural remains or articulated or disarticulated human remains are discovered on the project site, work shall be suspended within 100 feet of the find (based on the apparent distribution of cultural resources), and the construction contractor shall immediately notify the project’s City representative. • The City shall coordinate the investigation of the find with a qualified (meeting the Secretary of the Interior’s Qualification Standards for Archaeology) archaeologist approved by the City and with one or more interested culturally affiliated Native American Tribes that respond to the City’s invitation. As part of the site investigation and resource assessment, the City and the archaeologist shall consult with interested culturally affiliated Native American Tribes to assess the significance of the find, make recommendations for further evaluation and treatment as necessary and provide proper management recommendations 				
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<p>should potential impacts to the resources be determined by the City to be significant. A written report detailing the site assessment, coordination activities, and management recommendations shall be provided to the City representative by the qualified archaeologist. These recommendations will be documented in the project record. For any recommendations made by interested culturally affiliated Native American Tribes which are not implemented, a justification for why the recommendation was not followed will be provided in the project record.</p> <ul style="list-style-type: none"> • The City shall consider management recommendations for tribal cultural resources, including Native American archaeological resources, that are deemed appropriate, including resource avoidance or, where avoidance is infeasible in light of project design or layout or is unnecessary to avoid significant effects, preservation in place or other measures. The contractor shall implement any measures deemed by the City to be necessary and feasible to avoid or minimize significant impacts to the cultural resources. These measures may include inviting an interested culturally affiliated Native American Tribe to monitor ground-disturbing activities whenever work is occurring within 100 feet of the location of a discovered Tribal Cultural Resource or Native American archaeological site. • If an adverse impact to tribal cultural resources, including Native American archaeological resources, occurs then consultation with interested culturally affiliated Tribes regarding mitigation contained in the Public Resources Code sections 21084.3(a) and (b) and CEQA Guidelines section 15370 shall occur, in order to identify mitigation for the impact. 				
<p>MM CUL-03: Implement Procedures in the Event of the Inadvertent Discovery of Native American Remains. If an inadvertent discovery of Native American human remains is made at any time during project-related construction activities or project planning, the City will implement the procedures listed above in Mitigation Measure 2. The following performance standards shall be met prior to implementing or continuing actions such as construction, that may result in damage to or destruction of human remains: In accordance with the California Health and Safety Code, if human remains are encountered during ground-disturbing activities, the City shall immediately halt potentially</p>	<p>Prior to and during construction – this mitigation measure shall be included in all construction documents for implementation during construction.</p>	<p>City of Sacramento; Archeologist and/or Qualified Cultural Resource Monitor; and Construction Contractor.</p>		

<p>damaging excavation in the area of the burial and notify the Sacramento County Coroner and a professional archaeologist to determine the nature of the remains. The Coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or State lands (California Health and Safety Code Section 7050.5[b]). If the Coroner determines that the remains are those of a Native American, he or she must contact the Native American Heritage Commission (NAHC) by phone within 24 hours of making that determination (California Health and Safety Code Section 7050[c]). After the Coroner's findings have been made, the archaeologist and the NAHC-designated Most Likely Descendant (MLD), in consultation with the landowner, shall determine the ultimate treatment and disposition of the remains. The responsibilities of the City for acting upon notification of a discovery of Native American human remains are identified in California PRC Section 5097.9 et seq.</p> <p>If the human remains are of historic age and are determined to be not of Native American origin, the City will follow the provisions of the California Health and Safety Code Section 7000 (et seq.) regarding the disinterment and removal of non-Native American human remains.</p>				
<p>MM CUL-04: Paleontological Resources Should paleontological resources be identified during any phase of project development, the construction manager shall cease operation at the site of the discovery and immediately notify the City of Sacramento Community Development Department. The project applicant shall retain a qualified paleontologist to provide an evaluation of the find and to prescribe mitigation measures to reduce impacts to a less than significant level. In considering any suggested mitigation proposed by the consulting paleontologist, the Community Development Department shall determine whether avoidance is necessary and feasible in light of factors such as the nature of the find, project design, costs, land use assumptions, and other considerations. If avoidance is unnecessary or</p>	<p>Prior to and during construction – this mitigation measure shall be included in all construction documents for implementation during construction.</p>	<p>City of Sacramento; Archeologist and/or Construction Contractor.</p>		

infeasible, other appropriate measures (e.g., data recovery) shall be instituted. Work may proceed on other parts of the project site while mitigation for paleontological resources is carried out.				
Noise				
MM NOI-01: Operational Noise. Rooftops with HVAC units located within 107 feet of the adjacent assisted living and memory care facility shall include an architectural parapet to reduce noise levels. The parapet shall be constructed along the edges of the structures' roofs. The parapet shall be at least one foot higher than the tallest rooftop equipment. No gaps or perforations shall be constructed in the parapet.	After construction – this mitigation measure shall be added as a condition of approval.	City of Sacramento; Construction Contractor		
MM NOI-02: Subsequent Analysis Subsequent projects, which utilize this ISMND, shall submit a separate noise analysis demonstrating that the design, construction, and operation of the buildings would not exceed City thresholds as outlined in the City's General Plan.	Prior to implementation and approval of subsequent projects related to this ISMND, this mitigation measure shall be added as a condition of approval.	City of Sacramento; Property Owner		
Transportation				
MM T-01: Fair Share Contribution. The project applicant shall pay a fair share contribution for impacts to bicycle and pedestrian access to the City of Sacramento, or construct equivalent improvements consistent with City standards.	Before construction this mitigation measure shall be added as a condition of approval	City of Sacramento; Project Applicant		

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