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February 10, 2010

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DOCKET	
08-AFC-11	
DATE	<u>FEB 10 2010</u>
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Subject: CPV Vaca Station (08-AFC-11)
Biological Assessment, Biological Assessment for Central Valley Steelhead,
Preliminary Jurisdictional Waters Delineation Study, and 404 Permit Application

Dear Mr. Jones:

Attached please find one original and 12 hard copies and 1 CD of CPV Vaca Station, LLC's Biological Assessment, Biological Assessment for Central Valley Steelhead, Preliminary Jurisdictional Waters Delineation Study, and 404 Permit Application for the CPV Vaca Station Project (08-AFC-11).

If you have any questions about this matter, please contact me at (916) 286-0278 or Sarah Madams at (916) 286-0249.

Sincerely,

CH2M HILL

Douglas M. Davy, Ph.D.
AFC Project Manager

Attachment

cc: A. Welch (CPV)
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Biological Assessment

CPV Vaca Station

Submitted by



CPV Vacaville, LLC

With Technical Assistance by

CH2MHILL

February 2010

Biological Assessment

Biological Assessment for the
CPV Vaca Station Project
Vacaville, Solano County, California
(08-AFC-11)

Prepared for
U.S. Fish and Wildlife Service

2800 Cottage Way, Room W-2605
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Submitted by

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February 2010

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Acronyms and Abbreviations

BA	biological assessment
CAISO	California Independent System Operator
CEC	California Energy Commission
CF	community facilities
CFR	Code of Federal Regulations
City	City of Vacaville
CNDDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CPV	CPV Vacaville, LLC
CPVVS	CPV Vaca Station
CTG	combustion turbine generator
ESA	Endangered Species Act
EWTP	Easterly Wastewater Treatment Plant
FR	Federal Register
HRSG	heat recovery steam generator
kV	kilovolt(s)
kW	kilowatt(s)
mgd	million gallon(s) per day
MHCP	Multispecies Habitat Conservation Plan
MW	megawatt(s)
NMFS	National Marine Fisheries Service
PG&E	Pacific Gas and Electric Company
SCR	selective catalytic reduction
STG	steam turbine generator
TSD	treatment, storage, and disposal
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
ZLD	zero liquid discharge

SECTION 1

Introduction

This Biological Assessment (BA) provides a review of the proposed CPV Vaca Station (CPVVS or Project) to determine to what extent the Project may affect federally listed endangered, threatened, proposed, or candidate species and critical habitats within the action area of the proposed Project under the jurisdiction of the U.S. Fish and Wildlife Service (USFWS). The proposed federal action is the issuance of a permit by the U.S. Army Corps of Engineers (USACE) under Clean Water Act Section 404 to authorize potential Project effects to Waters of the U.S. under the jurisdiction of the USACE. This BA has been prepared in accordance with legal requirements set forth under Section 7 of the Endangered Species Act (16 U.S.C. 1536 [c]) (ESA), and follows the standards established in the ESA guidance. A separate BA is being prepared and an ESA Section 7 consultation is being conducted with the National Marine Fisheries Service (NMFS) for federal species under its regulatory jurisdiction.

1.1 Purpose and Need of the Proposed Action

CPV Vacaville, LLC (CPV or Applicant) proposes to construct, own, and operate an electrical generating plant in Vacaville, Solano County, California. The CPVVS will be a natural gas-fired, combined-cycle electrical generating facility rated at a nominal generating capacity of 660 megawatts (MW). Because the Project may impact jurisdictional Waters of the U.S., a Clean Water Act Section 404 authorization is necessary to construct and operate the Project.

The CPVVS would provide needed electric generation capacity with improved efficiency and operational flexibility to help meet Northern California's long-term electricity needs. Pacific Gas and Electric Company (PG&E) has identified a near-term need for new power facilities that can be online by or before 2015 and that can support easily dispatchable and flexible system operation. PG&E has recently issued a Request for Offers to obtain these energy resources from qualified bidders. The CPVVS's project objectives are consistent with this need as follows:

- Provide the most efficient, reliable, and predictable power supply available by using combined-cycle natural gas-fired combustion turbine technology capable of supporting the growing power needs of Solano County and the Vacaville area.
- Use state-of-the-art technology to provide operational flexibility and rapid-start and dispatch capability.
- Site the project adjacent to or near a wastewater treatment plant with the capacity to provide up to 6.3 million gallons per day (mgd) of recycled water for cooling and other plant makeup water uses.

- Site the project as near as possible to 230-kilovolt (kV) high-voltage electrical transmission lines and a high-pressure natural gas transmission pipeline.
- Minimize environmental impacts.

1.2 Section 7 Endangered Species Act Consultation

Informal consultation with the USFWS regarding the Project has included the following communications:

- June 23, 2008. Call to John Cleckler to determine appropriate avoidance measures related to potential federally listed vernal pool branchiopod habitat near the CPVVS site. Photographs of and a narrative description of the basin were e-mailed on June 25 and forwarded to Michelle Tovar. Call received on July 1, 2008, advising that a request for technical assistance be prepared.
- April 6 through July 2, 2009. Left messages with Michelle Tovar requesting guidance on giant garter snake (*Thamnophis gigas*) consultation.
- April 21, 2009. E-mail correspondence between Rod Jones from the California Energy Commission (CEC) and Michelle Tovar regarding plant surveys and potential effects to giant garter snake.
- July 7, 2009. Call received from Michelle Tovar advising formal consultation and preparation of a BA to address potential take of giant garter snake.

Consultation will be initiated by the USACE through the Section 7 process. A preliminary jurisdictional wetland delineation report and preconstruction notification will be submitted to USACE in support of Clean Water Act Section 404 Nationwide Permits 7 and 12 to address impacts to potential Waters of the U.S. associated with a detention basin stormwater outfall that drains to a roadside ditch. The installation of this outfall drain represents a possible direct effect to potential giant garter snake aquatic habitat.¹

The California Department of Fish and Game has been consulted on potential issues related to streambed alteration, Swainson's hawk, and western pond turtle incidental take. A California Endangered Species Act Section 2081 permit for this project may also be required.

The Project is within the plan area of the Draft Solano Multispecies Habitat Conservation Plan (MHCP); however, the project is not pursuing coverage under the Draft Solano MHCP because the plan has not been finalized.

¹ It may not be possible for the Project to satisfy its consultation obligation through the *Programmatic Formal Consultation for U.S. Army Corps of Engineers 404 Permitted Projects with Relatively Small Effects on the Giant Garter Snake within Butte, Colusa, Glenn, Fresno, Merced, Sacramento, San Joaquin, Solano, Stanislaus, Sutter and Yolo Counties, California* (USFWS, 1997). Direct effects to potential giant garter snake upland habitat are limited to the area within 200 feet of this roadside ditch. Because this ditch has been determined to provide suitable habitat, permanent effects to adjacent uplands within 200 feet will exceed the 3.0 acre limit stipulated in the Programmatic Formal Consultation.

SECTION 2

Description of the Proposed Project

The CPVVS is proposed for a 24-acre site at the intersection of Lewis and Fry roads in a rural area within the city limits of Vacaville, California. The project site is located in the United States Geological Survey 7.5-minute *Elmira* quadrangle in Township 6N, Range 1E, in the northeast quarter of Section 30. Surrounding land uses include the City of Vacaville's (City) wastewater treatment plant to the northwest and agricultural uses to the east, west, and south. Figure 2-1 shows the proposed Project and vicinity.

Assuming the project receives a CEC license early in 2010, detailed design and construction of the CPVVS will begin in spring 2011 and will last approximately 30 months. Pre-operational testing of the power plant will begin in fall 2012, and full-scale commercial operation is expected to commence by spring 2013.

The Project will include the following features:

- The Project is a 660-MW nominal, natural-gas-fired, combined-cycle generating plant with either two General Electric Frame 7FA or two Siemens SGT6 5000F combustion turbine generators (CTGs), a single condensing steam turbine generator (STG), a de-aerating surface condenser, a 12-cell mechanical draft cooling tower, and associated support equipment.
- The CTGs will be equipped with evaporative coolers on the inlet air system and dry low NO_x combustors.
- The heat recovery steam generators (HRSGs) will be of the horizontal, natural circulation type, equipped with duct burners. The emission reduction system will include a selective catalytic reduction (SCR) unit to control NO_x stack emissions and an oxidation catalyst to control carbon monoxide and volatile organic compound emissions.
- A nominal 1,000-kilowatt (kW), diesel-fired emergency backup generator will also be included in the Project.
- The Project makeup water supply will consist entirely of reclaimed secondary-treated wastewater from the Easterly Wastewater Treatment Plant (EWTP). The secondary-treated wastewater supply from the EWTP will be treated on site to meet California Title 22 requirements for the industrial reuse of secondary-treated wastewaters. Tertiary treatment filter backwash will be returned to the headworks of the EWTP.
- A zero liquid discharge (ZLD) treatment system will process all plant wastewater streams not recovered for reuse within the project. Small quantities of specific wastewaters (such as some equipment cleaning wastewaters) that cannot be made suitable for treatment in the ZLD system or plant reuse will be collected for offsite disposal at a licensed treatment, storage, and disposal (TSD) facility. As a result, no process wastewater (except for the tertiary-treatment system filter backwash) will be discharged from the Project.

- The Project will use a small amount of the local municipal drinking water supply for plant personnel potable water uses.
- The natural gas pipeline will be trenched within the north shoulder of Fry Road and will be bored beneath agricultural drainages and irrigation canals to avoid effects to potential giant garter snake aquatic habitat and potentially jurisdictional Waters of the U.S.
- The electrical transmission towers will not be placed within agricultural drainages or irrigation canals.
- An onsite detention basin is intended to temporarily capture and continuously release onsite stormwater runoff into the existing downstream drainage facilities.
- One permanent and several temporary access routes from Lewis Road will be created to support heavy construction equipment (drill rig, bulldozers, pipe truck, etc.) and operational traffic.

2.1 Construction Activities

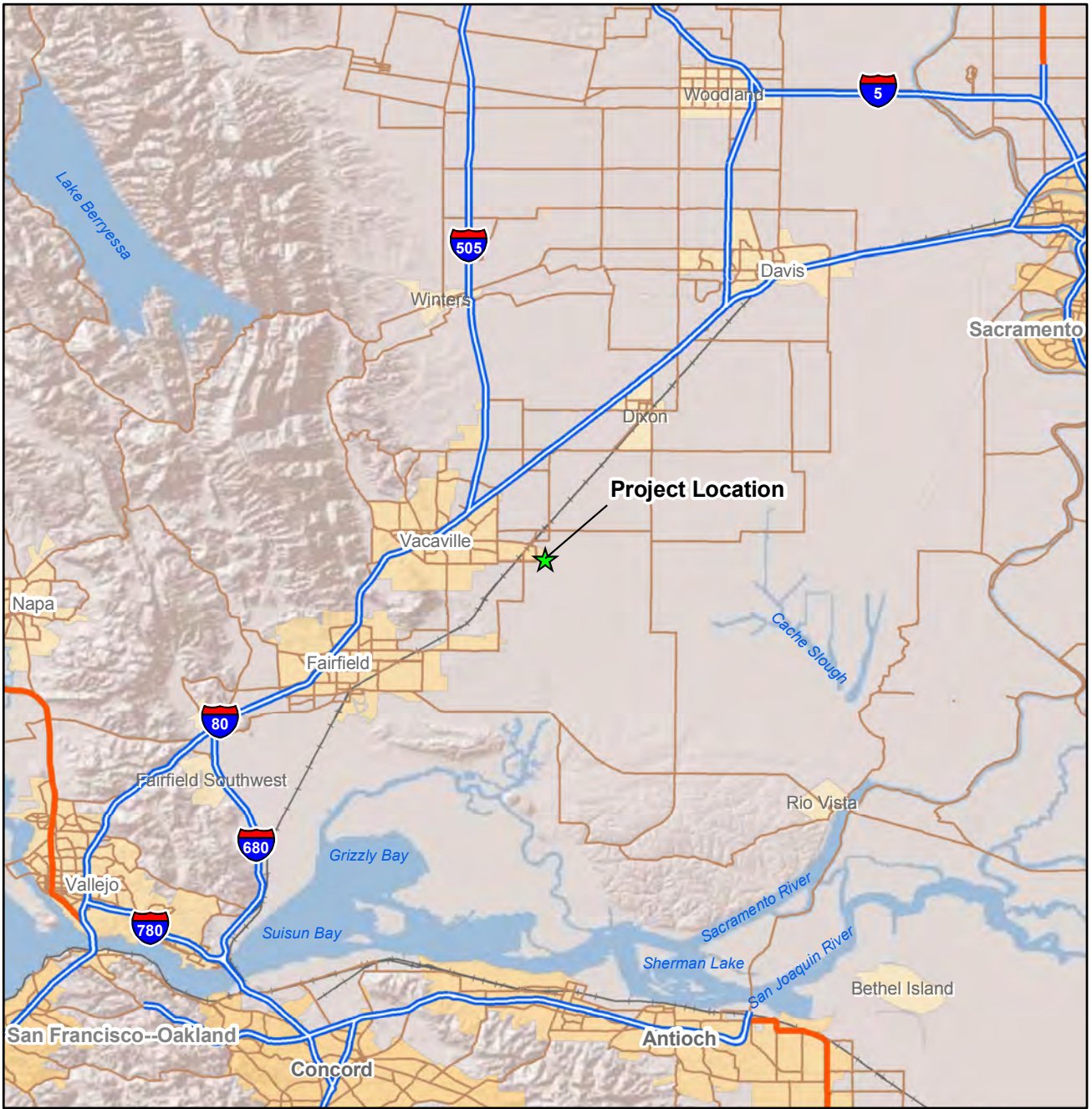
It is anticipated that the project will receive a license decision from the CEC by fall 2010, and that detailed design and construction of the CPVVS will begin in spring 2011 and last approximately 30 months. Pre-operational testing of the power plant will begin in fall 2012, and full-scale commercial operation is expected to begin by spring 2013. Major milestones are listed in Table 2-1.

TABLE 2-1
CPVVS Project Schedule Major Milestones

Activity	Date
Begin construction	Spring 2011
Startup and test	Fall 2012
Commercial operation	Spring 2013

During construction, an onsite workforce composed of construction workers and supervisory, support, and construction management personnel is estimated to average 300 and peak at approximately 670 individuals.

Typically, noisy construction will be scheduled to occur between 6:00 a.m. and 7:00 p.m. on weekdays and Saturdays. Additional hours may be necessary to make up schedule deficiencies or to complete critical construction activities (for example, pouring concrete at night during hot weather, or working around time-critical shutdowns and constraints). During some construction periods and during the startup phase of the Project, some activities will continue 24 hours per day, 7 days per week.



VICINITY MAP

LEGEND
 ★ Project Location

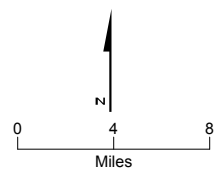


FIGURE 2-1
REGIONAL LOCATION MAP
 CPV VACA STATION
 VACAVILLE, CA

The peak construction site workforce level is expected to last from months 10 through 17 of the 24-month construction period, with the peak being month 14. Table 2-2 provides an estimate of the average and peak construction traffic during the 24-month construction period.

TABLE 2-2
Estimated Average and Peak Construction Traffic for the CPVVS

Vehicle Type	Average Daily Trips	Peak Daily Trips
Construction workers	298	664
Deliveries	4	24
Total	302	688

Construction laydown and parking areas will be within existing site boundaries and on City property on a 24-acre parcel immediately north of the 24-acre plant site (see Figure 2-2). Construction access will generally be from Lewis Road via Fry Road. Materials and equipment will be delivered by truck.

The proposed new substation and 230-kV transmission line between the substation and the CPVVS facility will be located west of the facility and north of Fry Road (Figure 2-2). The proposed substation is approximately 150 feet southeast of the Dally Main irrigation canal and is hydrologically separated from the canal. Eight proposed 100-square-foot transmission tower pads would permanently disturb a collective total of 0.018 acre. Except for locations that would cross existing roads and associated drainage ditches, the substation and 230-kV transmission line would be placed entirely within active and inactive agriculture areas (Figure 2-2).

The new gas pipeline between the CPVVS and the PG&E natural gas pipeline located east of Lewis Road would be placed within the paved shoulder of Fry Road, adjacent to active agriculture fields primarily comprising pasture and row crops. The pipeline trench would be approximately 1.03 miles long and 4 feet wide, and would result in the temporary disturbance of approximately 0.62 acre. The pipeline would be bored beneath agricultural drains and irrigation ditches to minimize effects to potential jurisdictional wetlands and potential giant garter snake aquatic habitat. Pipeline installation will be conducted early in the dry season and will be revegetated prior to winter rains; therefore, no effects are expected to occur in potential habitat downgradient of the pipeline.

2.2 Facility Operation

The facility will be capable of being dispatched throughout the year and will have annual availability in the general range of 92 to 98 percent. It will be possible for plant availability to exceed 98 percent for a given 12-month period.

The CPVVS will employ a staff of 31, including plant operation technicians, supervisors, administrative personnel, mechanics, engineers, chemists, and electricians (Table 2-3) in three rotating shifts. The facility will be capable of operating 24 hours per day, 7 days per week.

The CPVVS is designed as a base load facility. Because the combined-cycle configuration will be more efficient than any of the aging gas-fired steam generation facilities in

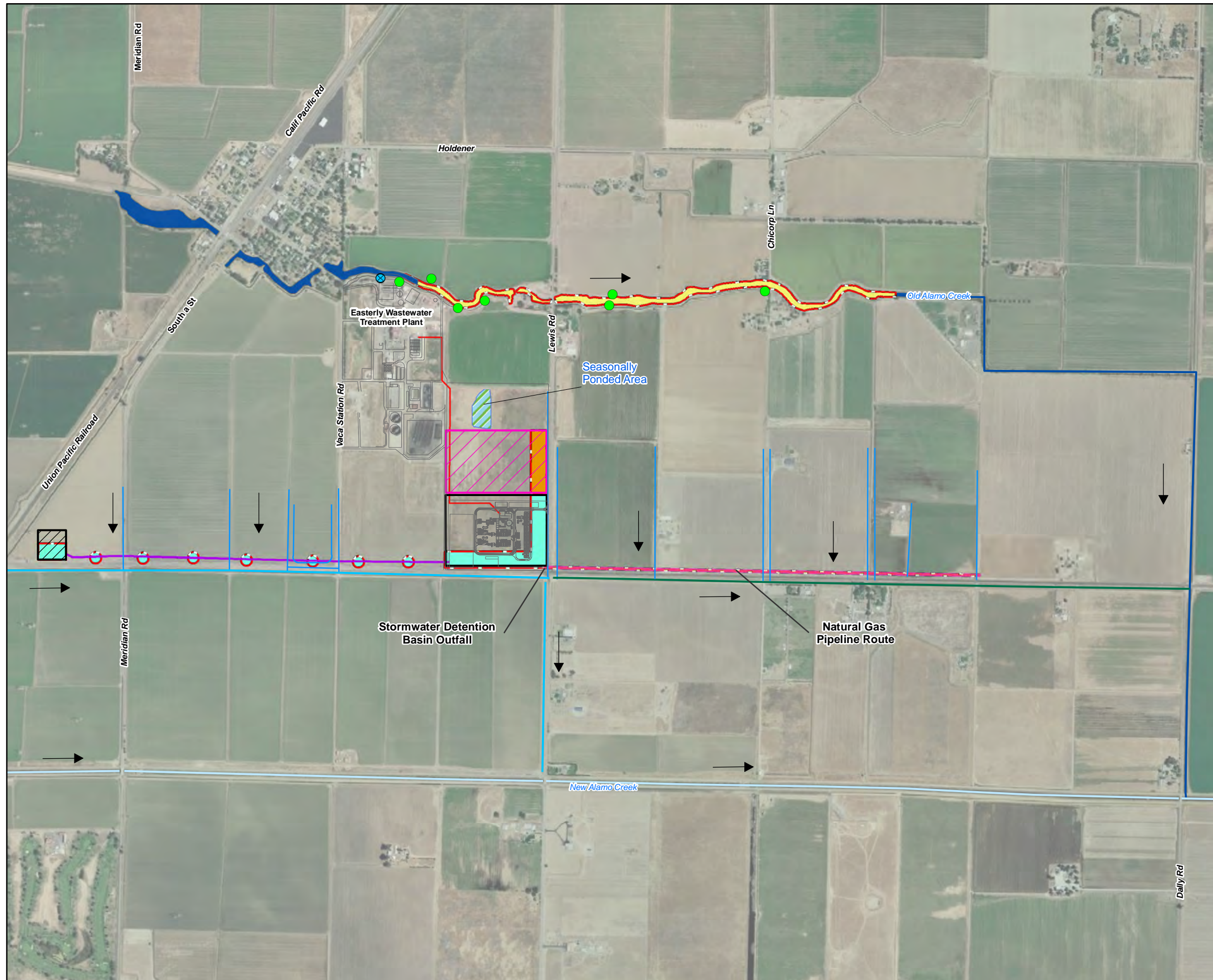
TABLE 2-3
Operating Employees

Classification	Number
Power Plant Technicians	13
Lead Power Plant Technicians	4
Operations Supervisor	1
Engineer	1
Environmental Health and Safety Coordinator	1
Chemist	1
Plant Manager	1
Procurement Specialist	1
Administrative Supervisor	1
Administrative Assistant	1
Maintenance Supervisor	1
Maintenance Safety Engineer	1
Instrument and Control Technicians	2
Electrician	1
Mechanic	1
Total	31

Northern California, the CPVVS will be frequently dispatched and will operate on the order of approximately a 60 to 80 percent annual capacity factor. The actual capacity factor in any month or year will depend on weather-related customer demand, load growth, hydroelectric supplies, generating unit retirements and replacements, the level of generating unit and transmission outages, and other factors. The exact operational profile of the plant will be dependent on weather conditions and the power purchaser's economic dispatch decisions.

The facility could be operated in one or all of the following modes:

- **Base Load.** The facility would be operated at maximum continuous output for as many hours per year as dispatched by load dispatch. During high ambient temperature periods, when gas turbine output would otherwise decrease, duct firing and/or power augmentation by steam injection into the combustion turbines may be used to keep plant output at the desired load.
- **Load Following.** The facility would be available at contractual load but operated at less than maximum available output at high load times of the day. The output of each unit would therefore be adjusted periodically, either by schedule or automatic generation control, to meet whatever load proved profitable to the power purchaser or necessary by California Independent System Operator (CAISO).



- LEGEND**
- EWTP Outflow Location
 - Elderberry Shrub Location
 - Canals, Ditches and Drainages
 - Eastern Primary Drainage
 - New Alamo Creek
 - Old Alamo Creek
 - Western Primary Drainage
 - ➔ Direction of Flow
 - Electrical Transmission Line Route
 - ▨ Seasonally Pounded Area
- Project Elements**
- Footers
 - Utility Corridor to EWTP
 - Natural Gas Pipeline Route
 - ▨ New Substation
 - ▨ Laydown Area
 - ▭ Project Site
- Project Effects in Species Habitat**
- ▨ Temporary
 - ▨ Permanent
 - ▨ Indirect
 - ▨ Action Area

This map was compiled from various scale source data and maps and is intended for use as only an approximate representation of actual locations.

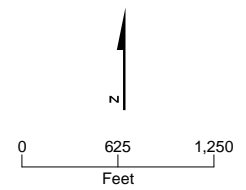


FIGURE 2-2
CPVVS PROJECT LAYOUT AND
ACTION AREAS
 CPV VACA STATION
 VACAVILLE, CALIFORNIA

- **Partial Shutdown.** One of the CTGs/HRSGs would be shut down and the other would be operating at full load or in load following mode. If the shutdown unit is not undergoing maintenance, it will in most cases be available to the power purchaser and the CAISO as non-spinning reserve unit. This mode of operation can be expected to occur during average- to low-load hours (off-peak hours, weekends).
- **Full Shutdown.** This would occur if forced by equipment malfunction, fuel supply interruption, transmission line disconnect, or scheduled maintenance of equipment common to all units.

In the unlikely event of a situation that causes a longer-term cessation of operations, security of the facilities will be maintained on a 24-hour basis, and the CEC will be notified. Depending on the length of shutdown, a contingency plan for the temporary cessation of operations may be implemented. Such a contingency plan will conform with all applicable regulations and protection of public health, safety, and the environment. The plan, depending on the expected duration of the shutdown, could include the draining of all chemicals from storage tanks and other equipment and the safe shutdown of all equipment. All wastes will be disposed of according to applicable regulations. If the cessation of operations becomes permanent, the plant will be decommissioned.

SECTION 3

Description of the Action Area

The action area² is the combined area of direct and indirect effects to federally listed species. This section addresses possible effects of the proposed action in areas subject to direct effects that could occur during construction (site grading and utility trenching) and operations, as well as indirect effects caused by or resulting from the Project that are reasonably certain to occur later in time. Direct and indirect effects are discussed further in Sections 5.1 and 5.2, respectively.

Potentially suitable habitat for one federally listed species has been identified within the project site and linear appurtenances. The Project may affect, and is likely to adversely affect, giant garter snake potential aquatic and upland habitat, including potential habitat in the Old Alamo Creek riparian corridor and portions of the project footprint within 200 feet of agricultural drainages and irrigation canals (Figure 2-2). The giant garter snake Mid-Valley Recovery Unit is within 0.25 mile of the eastern limit of the project site. With the implementation of conservation measures discussed in Section 5.4, direct and indirect effects to giant garter snake will be limited to areas within 200 feet of potentially suitable aquatic habitat; therefore, the action area includes areas downstream of the EWTP outflow and areas within 200 feet of agricultural drainages and irrigation canals that are within the limit of permanent and temporary construction-related disturbance (Figure 2-2).

Habitat and plant community surveys were conducted within the area of the proposed action, including the CPVVS site, the natural gas pipeline alignment, and the 230-kV transmission line alignment, to classify habitat and plant communities and to assess the likelihood of federally listed species occurrence.

Currently, the CPVVS facility and temporary construction laydown sites are zoned Community Facilities (CF) and are designated in the Vacaville General Plan as Unique Farmland, or farmland that is other than Prime or of Statewide importance, with lesser quality soils (City of Vacaville, 2007). During initial field surveys, it was determined that the CPVVS facility and construction laydown sites occupy 48 contiguous acres of former agricultural land that had become heavily vegetated with ruderal herbaceous species including black mustard (*Brassica nigra*), wild radish (*Raphanus sativa*), and milk thistle (*Silybum marianum*).

No trees are present within the CPVVS facility and construction laydown areas. A riparian woodland associated with Old Alamo Creek is located 0.18 mile north of the temporary construction laydown area. The dominant trees in riparian woodland are most commonly winter-deciduous, broadleaved trees, up to 60 feet in height, with a canopy cover ranging from relatively open to very dense. The riparian woodland community is dominated by

² The size of the action area is determined by identifying and combining all potential federally listed species habitat that will potentially be directly or indirectly affected by the proposed action. Certain species (e.g., Swainson's hawk) with large home ranges may require evaluation up to 10 miles, while other species (e.g., giant garter snake) require a much smaller action area evaluation.

valley oak, California buckeye (*Aesculus californica*), blue elderberry (*Sambucus mexicana*), and poison oak (*Toxicodendron diversiloba*).

Old Alamo Creek has been disconnected from its natural watershed about 2.6 miles upstream of the EWTP. As a result, nearly all of the runoff in this watershed is now conveyed by New Alamo Creek (Figure 2-2). It is for this reason that the average monthly flow in Old Alamo Creek upstream of the EWTP is zero or near zero for all months of the year, although there is some irrigation return water during the summer and some stormwater runoff during the winter months. The flows from the EWTP downstream to its confluence with New Alamo Creek consist mostly of water discharged from the EWTP and agricultural return flows entering Old Alamo Creek downstream of the EWTP (Figure 2-2). Riparian habitat within Old Alamo Creek is well established both upstream and downstream of the EWTP, with overhanging trees that shade the creek, exposed banks, and emergent vegetation.

The Draft Solano MHCP describes Alamo Creek as a priority drainage and watershed area that represents a high value conservation area (LSA, 2007). This riparian area provides a movement corridor as well as cover, roosting, and nesting opportunities for numerous species. It may also provide habitat for valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*) because blue elderberry (*Sambucus mexicana*) shrubs occur in the riparian zone (Figure 2-2). This riparian corridor extends from the interior Coast Range east of the CPVVS site through the City to agricultural fields west of the CPVVS site. Within 1 mile of the CPVVS site, Old Alamo Creek becomes channelized as an irrigation canal prior to its confluence with New Alamo Creek. Water flow at the confluence is regulated by a series of flap gates that prevent fish migration from New Alamo Creek into Old Alamo Creek. Potential effects that the Project may have to the federally threatened Central Valley Steelhead (*Oncorhynchus mykiss*) and the federal species of concern Central Valley fall- and late-fall-run chinook salmon (*Oncorhynchus tshawytscha*) that may occur in New Alamo Creek are addressed in a separate BA prepared for the USACE (CH2M HILL, 2009).

A shallow basin, constructed sometime after 1997 as an area for drying sludge for later transport off site, is located more than 30 feet north of the temporary construction laydown area. The basin is no longer used as a sludge drying area, but is still bound on all sides by a constructed berm that hydrologically separates it from the CPVVS and construction laydown sites. The National Wetlands Inventory characterizes this basin as artificially and permanently flooded palustrine wetlands, but no permanent water source currently supplies this area (Econmon, 2008). During field surveys, vegetation in this basin was composed of weedy plant species similar to those observed within the CPVVS site and construction laydown area, with the lowest elevations of the basin shallowly ponded and unvegetated. Although currently disked, this basin may seasonally pond water for a sufficient period to provide potential habitat for federally listed vernal pool branchiopod species. The sludge basin will not be adversely affected by the Project and is not within the action area.

The proposed new substation and 230-kV transmission line between the substation and the CPVVS are located within an area zoned for agriculture (A40). The proposed substation is approximately 150 feet southeast and downgradient of the Dally Main irrigation canal, so it is hydrologically separated from the canal. Except for locations that would cross existing roads and associated drainage ditches, the substation and 230-kV transmission line would be placed entirely within active and inactive agriculture areas (Figure 2-2). The inactive

agricultural areas are east of Vaca Station Road, adjacent and similar to the disked CPVVS and construction laydown sites discussed previously. Active agricultural areas are located west of Vaca Station Road and are planted in various crops including grain and alfalfa. Agricultural drains and adjacent areas within agricultural habitat may provide aquatic and upland foraging habitat for giant garter snake.

The pipeline between the CPVVS and the PG&E natural gas pipeline located approximately 1.03 miles east of the CPVVS site would be placed within the paved shoulder of Fry Road, adjacent to active agriculture fields primarily comprising pasture and row crops. The eastern limit of this pipeline is within 0.25 mile of the Mid-Valley Recovery Unit for giant garter snake.

Status of Species in the Action Area

4.1 Technical Support Studies Relevant to the Proposed Action

Technical support studies, literature review, USFWS Ecological Field Services online queries (Appendix A), California Natural Diversity Database (CNDDDB) queries (Appendix B), and distribution data available from USFWS recovery plans relevant to the action area were used to identify potential listed species and listed species habitat that may be present within the action area. Two studies, a general reconnaissance survey and a botanical survey, have been conducted to determine the status of federally listed species and suitable habitat within the CPVVS action area.

4.1.1 Sensitive and Special-status Plant Species

The USFWS official species list for the CPVVS project was evaluated to determine species habitat requirements. These requirements were then compared with habitat observed in the action area to develop a list of plant species with potential to occur within the CPVVS action area (Appendix C, Table 1). This list includes regulatory status, habitat requirements, occurrence determination, and a rationale for the occurrence determination. Figure 4-1 shows the previously recorded locations of special-status plant species within the vicinity of the CPVVS site. The results of a botanical survey for the Project are included in Appendix D.

The CNDDDB reports the historical (1892–1909) occurrence of one federally endangered plant species, two-fork clover (*Trifolium amoenum*), in “rich swales” near the town of Elmira, north of the CPVVS project. The record does not contain a specific location, and no similar swale habitat is present in the Project area. Although the CNDDDB record lists the occurrence as presumed extant, the California Native Plant Society (CNPS) has determined that this species is extirpated from Solano County (CNPS, 2008), and the official USFWS species list for Solano County does not include this species (Appendix D). Therefore, two-fork clover is presumed to be extirpated from the action area and is not addressed further in this BA.

All habitats within the CPVVS site have been previously altered, and there are no natural plant communities within areas of ground disturbance for the CPVVS main facility site, the construction laydown area, the 230-kV transmission line, or the natural gas pipeline. Based on the results of field surveys for rare plants, no federally listed plant species are expected to occur within the CPVVS action area.

4.1.2 Sensitive or Special-status Wildlife Species

During field surveys, the USFWS official species list was evaluated against observed conditions to develop a list of species with potential to occur within the CPVVS action area. Appendix C, Table 2, contains a table of federally listed wildlife species determined during the pre-field investigation to have potential to occur within the area of the proposed action.

The table lists each species, its status, habitat requirements, and occurrence potential determination, and a rationale for the occurrence determination within the action area.

4.1.3 Wetland Delineation

A preliminary delineation of wetlands and other Waters of the U.S. was conducted on July 10, 2008, and March 17, 2009 (Appendix E). The Project has been designed to minimize direct impacts to USACE jurisdictional waters associated with the basin north of the temporary construction laydown area and 14 agricultural drainages and irrigation canals that run north to south within the action area. Construction of the towers for the 230-kV electrical transmission line in the western portion of the action area and the natural gas pipeline in the eastern portion of the action area will minimize impacts to agricultural drainages and irrigation canals.

4.2 Species Considered for Analysis

A species list of federally endangered, threatened, proposed, or candidate species within Solano County was obtained from the USFWS Sacramento Ecological Field Services via an online query system on May 13, 2008 (Appendix A). This list functions as the official species list issued by the Ecological Services Office pursuant to 50 Code of Federal Regulations (CFR) 402.12(e). Tables 1 and 2 in Appendix C summarize the seven federally listed plant and 23 federally listed animal species that were identified in the official species list and provides the habitat requirements for each species, its potential to occur within the action area, and a rationale for the occurrence potential determination. Figure 4-1 shows the known distribution of these species within 10 miles of the project. Of the 30 federally listed species identified, habitat evaluations determined that the following seven species have potential to occur within the CPVVS action area:

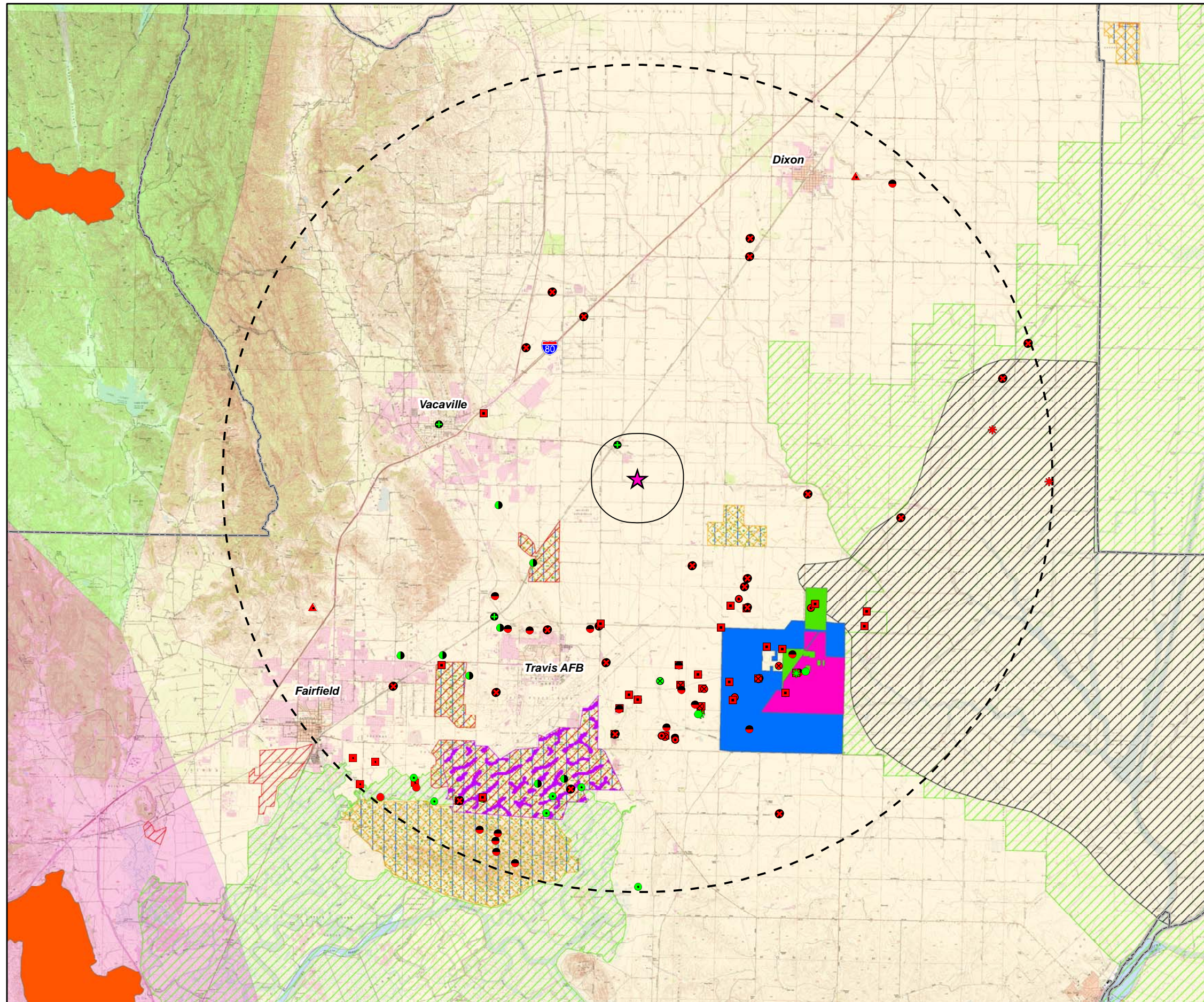
- Conservancy fairy shrimp (*Branchinecta conservatio*), endangered
- Vernal pool fairy shrimp (*Branchinecta lynchi*), threatened
- Vernal pool tadpole shrimp (*Lepidurus packardii*), endangered
- Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), threatened
- California red-legged frog (*Rana aurora draytonii*), threatened
- Giant garter snake (*Thamnophis gigas*), threatened
- Least tern (*Sternula [=Sterna, =albifrons] antillarum*), endangered

The following sections summarize the species description, listing status, life history, ecology, distribution, threats, and status within the action area for these seven species.

4.2.1 Conservancy Fairy Shrimp

Species Description and Listing Status

The Conservancy fairy shrimp (*Branchinecta conservatio*) was listed on September 19, 1994, (59 CFR 48136) as endangered. Critical habitat was designated on August 6, 2003, (68 CFR 46683) and subsequently revised on February 10, 2006 (71 CFR 7117). The USFWS published a recovery plan that included this species, entitled *Recovery Plan for Vernal Pool Ecosystems of California and Southern Oregon* (USFWS, 2005). Fairy shrimp are aquatic species in the order Anostraca; the Conservancy fairy shrimp is a small crustacean in the



LEGEND

★ Project Site

Plants

- soft bird's-beak
- ★ Crampton's tuctoria or Solano grass
- San Joaquin Valley orcutt grass
- two-fork clover
- Contra Costa goldfields
- Colusa grass

Animals

- California clapper rail
- Conservancy fairy shrimp
- salt-marsh harvest mouse
- ▲ valley elderberry longhorn beetle
- vernal pool fairy shrimp
- California tiger salamander
- vernal pool tadpole shrimp
- ★ giant garter snake
- Delta green ground beetle

Critical Habitat

- California Red-Legged Frog
- Delta green ground beetle
- Solano County Jepson Paraire Preserve
- Contra Costa Goldfields
- Vernal Pool Tadpole Shrimp
- California Tiger Salamander
- Giant Garter Snake Recovery Unit
- Delta Smelt

Ecoregions

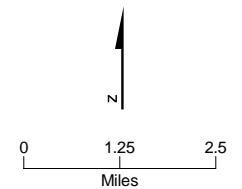
- Central California Coast Section
- Great Valley Section
- Northern California Interior Coast Ranges

Other Areas of Interest

- Ten Mile Study Area
- One Mile Study Area
- Solano County Line

Notes:

1. Source - California Dept. of Fish and Game, California Natural Diversity Database (CNDDDB) April, 2008, Solano HCP EIS/EIR, 2007, Commission for Environmental Cooperation, 1997, U.S. Environmental Protection Agency, 2005.
2. CNDDDB data lists only Federal threatened or endangered species only.



This map was compiled from various scale source data and maps and is intended for use as only an approximate representation of actual locations.

FIGURE 4-1
REGIONAL BIOLOGICAL RESOURCES
 CPV VACA STATION
 VACAVILLE, CA

Branchinectidae family. They have delicate elongated bodies, large stalked compound eyes, no carapaces, and 11 pairs of swimming legs. Males range from 0.6 to 1.1 inches long, with females measuring slightly smaller between 0.6 and 0.9 inch (USFWS, 2005). They glide gracefully upside down, swimming by beating their legs in a complex, wavelike movement that passes from front to back. Fairy shrimp feed on algae, bacteria, protozoa, rotifers, and bits of detritus.

Distribution and Threats

The historical distribution of this species is not known (USFWS, 2005); however, the distribution of vernal pool habitats in the areas where this species is currently known to occur were once more continuous and larger in area than they are today (Holland, 1998). It is likely the Conservancy fairy shrimp once occupied vernal pool habitats throughout a large portion of the Central Valley and southern coastal regions of California (USFWS, 2005). The USFWS is currently aware of eight populations of Conservancy fairy shrimp, which include (from north to south): (1) Vina Plains, Butte, and Tehama counties; (2) Sacramento National Wildlife Refuge, Glenn County; (3) Yolo Bypass Wildlife Area, Yolo County; (4) Jepson Prairie, Solano County; (5) Mapes Ranch, Stanislaus County; (6) University of California, Merced, Merced County; (7) Grasslands Ecological Area, Merced County; and (8) Los Padres National Forest, Ventura County (USFWS, 2007a). The CNDDDB reports 29 occurrences of the Conservancy fairy shrimp throughout California with 13 occurrences from Solano County (CNDDDB, 2009).

Habitat loss and fragmentation is the largest threat to the survival and recovery of vernal pool species. Habitat loss generally is a result of urbanization, agricultural conversion, and mining. Habitat loss also occurs in the form of habitat alteration and degradation as a result of changes to natural hydrology; invasive species; incompatible grazing regimes, including insufficient grazing for prolonged periods; infrastructure projects (such as roads, water storage and conveyance, utilities); recreational activities (such as off-highway vehicles and hiking); erosion; climatic and environmental change; and contamination (USFWS, 2007a).

Life History and Ecology

Conservancy fairy shrimp are uniquely adapted to ephemeral conditions characterized by vernal pool habitats. Helm (1998) determined that this species reaches sexual maturity in an average of 46 days and lives as long as 154 days, although growth rates are dependent on water temperature, which can vary greatly. Conservancy fairy shrimp produce one large cohort of offspring each wet season (Eriksen and Belk, 1999). Conservancy fairy shrimp co-occur with several other vernal pool crustacean species, including the vernal pool fairy shrimp and the vernal pool tadpole shrimp (USFWS, 2005). Conservancy fairy shrimp are filter feeders, and leg movements described previously also play a role in straining small particles from the water.

Conservancy fairy shrimp have been observed to co-occur in the same pool with vernal pool fairy shrimp on only two occasions (Eriksen and Belk, 1999). One hypothesis for the lack of co-occurrences is that the observed feeding habits of Conservancy fairy shrimp are “hyperactive,” with a high swimming and feeding pace compared with vernal pool fairy shrimp. Consequently, because Conservancy fairy shrimp produce only a large, single cohort in the season and vernal pool fairy shrimp produce smaller, multiple cohorts, the

Conservancy fairy shrimp could out-compete as well as consume vernal pool fairy shrimp nauplii before a second cohort is produced by vernal pool fairy shrimp.

Status within the Action Area

Conservancy fairy shrimp have not been reported within the action area. The nearest reported occurrence of Conservancy fairy shrimp is approximately 3.7 miles south of the Project (CNDDDB, 2009). The shallow basin north of the proposed temporary construction laydown area provides marginal potential habitat for Conservancy fairy shrimp; however, a constructed berm hydrologically separates this basin from the temporary construction laydown area.

4.2.2 Vernal Pool Fairy Shrimp

Species Description and Listing Status

The vernal pool fairy shrimp (*Branchinecta lynchi*) was listed on September 19, 1994 (59 CFR 48136) as endangered. Critical habitat was designated on August 6, 2003 (68 CFR 46683), and subsequently revised on February 10, 2006 (71 CFR 7117). The USFWS published a recovery plan that included this species entitled *Recovery Plan for Vernal Pool Ecosystems of California and Southern Oregon* (USFWS, 2005). Fairy shrimp are aquatic species in the order Anostraca; the vernal pool fairy shrimp is a small crustacean in the Branchinectidae family. They are characterized by the presence and size of several mounds on the male's second antennae, and by the female's short, pyriform brood pouch (USFWS, 2005). The species range in size from 0.4 to 1.0 inch (Eng et al., 1990; USFWS, 2005). Fairy shrimp feed on algae, bacteria, protozoa, rotifers, and bits of detritus.

Distribution and Threats

The vernal pool fairy shrimp was identified relatively recently (1990), and there is little information on the historical range of the species. However, the vernal pool fairy shrimp is currently known to occur in a wide range of vernal pool habitats in the southern and Central Valley areas of California, and in two vernal pool habitats within the "Agate Desert" area of Jackson County, Oregon (USFWS, 2007b). The distribution of vernal pool habitats in the areas where this species is now known to occur was once more continuous and larger in area than it is today (Holland, 1998). It is likely the vernal pool fairy shrimp once occupied vernal pool habitats throughout a large portion of the Central Valley and southern coastal regions of California (USFWS, 2005). Holland (1978) estimated that nearly 4,000,000 acres of vernal pool habitat existed in the Central Valley prior to intensive land use practices of the mid-1800s. The CNDDDB reports 599 occurrences of vernal pool fairy shrimp in California, and 23 occurrences from Solano County (CNDDDB, 2009).

Habitat loss and fragmentation is the largest threat to the survival and recovery of vernal pool species. Habitat loss generally is a result of urbanization, agricultural conversion, and mining. Habitat loss also occurs in the form of habitat alteration and degradation as a result of changes to natural hydrology; invasive species; incompatible grazing regimes, including insufficient grazing for prolonged periods; infrastructure projects (such as roads, water storage and conveyance, and utilities); recreational activities (such as off-highway vehicles and hiking); erosion; climatic and environmental change; and contamination (USFWS, 2007b).

Life History and Ecology

Vernal pool fairy shrimp are uniquely adapted to ephemeral conditions characterized by vernal pool habitats. Helm (1998) determined that this species reaches sexual maturity in an average of 41 days, but as few as 18 days at optimal conditions. Life cycles are reported to range from 63 to 147 days, and growth rates are dependent on water temperature, which can vary greatly. Vernal pool fairy shrimp co-occur with several other vernal pool crustacean species, including the Conservancy fairy shrimp and the vernal pool tadpole shrimp (USFWS, 2005).

Status within the Action Area

Vernal pool fairy shrimp have not been reported within the action area. The nearest reported occurrence of vernal pool fairy shrimp is approximately 4 miles east of the CPVVS action area (CNDDDB, 2009). The shallow basin north of the proposed temporary construction laydown area provides marginal potential habitat for vernal pool fairy shrimp; however, a constructed berm hydrologically separates this basin from the temporary construction laydown area.

4.2.3 Vernal Pool Tadpole Shrimp

Species Description and Listing Status

The vernal pool tadpole shrimp (*Lepidurus packardii*) was listed on September 19, 1994, (59 CFR 48136) as endangered. Critical habitat was designated on August 6, 2003, (68 CFR 46683) and subsequently revised on February 10, 2006 (71 CFR 7117). The USFWS published a recovery plan that included this species entitled *Recovery Plan for Vernal Pool Ecosystems of California and Southern Oregon* (USFWS, 2005). Tadpole shrimp are aquatic species in the order Notostraca; vernal pool tadpole shrimp is a small crustacean in the Triopsidae family. Members of order Notostraca are known as living fossils because of their morphological continuity in the fossil record over the past 2 million years (Longhurst, 1955). Vernal pool tadpole shrimp are distinguished by a large, shield-like carapace that covers the anterior side of the body. The adult form of this species measures 0.6 to 3.3 inches long.

Distribution and Threats

The vernal pool tadpole shrimp has a patchy distribution across the Central Valley of California, from Shasta County southward to northwestern Tulare County, with isolated occurrences in Alameda and Contra Costa counties. Although vernal pool tadpole shrimp are spread over a wide geographic range, their habitat is highly fragmented and they are uncommon where they are found (Helm, 1998; USFWS, 2005). The CNDDDB reports 249 occurrences of the vernal pool tadpole shrimp in northern California and 30 occurrences located within Solano County (CNDDDB, 2009).

Habitat loss and fragmentation is the largest threat to the survival and recovery of vernal pool species. Habitat loss generally is a result of urbanization, agricultural conversion, and mining. Habitat loss also occurs in the form of habitat alteration and degradation as a result of changes to natural hydrology; invasive species; incompatible grazing regimes, including insufficient grazing for prolonged periods; infrastructure projects (such as roads, water storage and conveyance, and utilities); recreational activities (such as off-highway vehicles and hiking); erosion; climatic and environmental change; and contamination (USFWS, 2007c).

Life History and Ecology

Vernal pool tadpole shrimp are uniquely adapted to ephemeral conditions characterized by vernal pool habitats. Helm (1998) determined that this species reaches sexual maturity on an average of 54 days. Life cycles are reported to last longer than other vernal pool crustaceans and have relatively higher reproduction rates. After winter rains begin filling a vernal pool, dormant tadpole shrimp cysts may hatch within 4 days (USFWS, 2005) and will emerge from cysts as metanauplii, a short stage that lasts 1.5 to 2 hours before molting into a larval form. Vernal pool tadpole shrimp co-occur with several other vernal pool crustacean species, including Conservancy fairy shrimp and the vernal pool fairy shrimp (USFWS, 2005).

Status within the Action Area

Vernal pool tadpole shrimp have not been reported within the action area. The nearest reported occurrence of vernal pool tadpole fairy shrimp is approximately 5 miles northwest of the action area (CNDDDB, 2009). The shallow basin north of the proposed temporary construction laydown area provides marginal potential habitat for vernal pool tadpole shrimp; however, a constructed berm hydrologically separates this basin from the temporary construction laydown area.

4.2.4 Valley Elderberry Longhorn Beetle

Species Description and Listing Status

The valley elderberry longhorn beetle was listed on August 8, 1980, (45 CFR 52803) as threatened. The USFWS published a recovery plan on June 28, 1984, that is currently outdated (USFWS, 2009a). On February 14, 2007, the USFWS completed a 5-year review that recommended the species be delisted. A delisting proposal has not yet been released.

Longhorn beetles (family Cerambyidae) are characterized by somewhat elongate, cylindrical bodies with long antennae, often more than two-thirds of the body length. Valley elderberry longhorn beetles are stout-bodied. Males range in length from about 0.5 to nearly 1 inch (measured from the front of the head to the end of the abdomen) with antennae about as long as their bodies. Females are slightly more robust than males, measuring about 0.75 to 1 inch, with somewhat shorter antennae. Adult males have red-orange elytra (wing covers) with four elongate spots. The red-orange fades to yellow on some museum specimens. Adult females have dark colored elytra (USFWS, 2009a).

Distribution and Threats

At the time of listing in 1980, the beetle was known from less than 10 locations on the American River, Putah Creek, and Merced River. The species is now known to occur from southern Shasta County to Fresno County (USFWS, 2009a). The CNDDDB reports 201 occurrences of this species in California and 7 occurrences located within Solano County (CNDDDB, 2009).

Extensive destruction of California's Central Valley riparian forests has occurred during the last 150 years as a result of agricultural and urban development. According to some estimates, riparian forests in the Central Valley have declined by as much as 89 percent during that time period. The valley elderberry longhorn beetle, though wide-ranging, is in long-term decline because of human activities that have resulted in widespread alteration and fragmentation of riparian habitats, and to a lesser extent, upland habitats, which support the beetle.

The primary threats to survival of the beetle are as follows:

- Loss and alteration of habitat by agricultural conversion
- Inappropriate grazing
- Levee construction, stream and river channelization, removal of riparian vegetation, and rip-rapping of shoreline
- Nonnative animals such as the Argentine ant, which may eat the early phases of the beetle
- Recreational, industrial, and urban development

Insecticide and herbicide use in agricultural areas and along road rights-of-way may be factors limiting the beetle's distribution. The age and quality of individual elderberry shrubs/trees and stands as a food plant for the beetle may also be a factor in its limited distribution (USFWS, 2009a).

Life History and Ecology

The species is nearly always found on or close to its host plant, elderberry (*Sambucus* species). Females lay their eggs on the bark. Larvae hatch and burrow into the stems. The larval stage may last 2 years, after which the larvae enter the pupal stage and transform into adults. Adults are active from March to June, feeding and mating.

To be suitable as longhorn beetle habitat, elderberry shrubs must have stems 1 inch or greater in diameter at ground level. Use of the plants by the animal is rarely apparent. Frequently, the only exterior evidence of the shrub's use by the beetle is an exit hole created by the larva just before the pupal stage. Field work along the Cosumnes River and in the Folsom Lake area suggests that larval galleries can be found in elderberry stems with no evidence of exit holes. The larvae either succumb before constructing an exit hole or are not far enough along in the developmental process to construct an exit hole.

Status within the Action Area

Valley elderberry longhorn beetles have not been previously reported within the action area. The nearest reported occurrence of this species is approximately 11 miles southwest of the project (CNDDDB, 2009). Approximately 30 elderberry shrubs with stems between 1 and 3 inches in diameter have been identified in 7 locations along the upper banks of the Old Alamo creek corridor, approximately 10 feet above the observed water surface elevation. Therefore, these shrubs likely obtain water from precipitation and adjacent subsurface infiltration of agricultural irrigation. The CPVVS would cause a reduction in flow to Old Alamo Creek by using a portion of this water during times the project is in operation. This use of water would vary with plant operation and so would be variable, both daily and seasonally, rather than continuous. As the elderberry shrubs do not depend directly on the amount of water in an adjacent stream channel for survival, but rather on the availability of subsurface water in the root zone, it is unlikely that the changes in the flows within Old Alamo Creek that would result from CPVVS operation would significantly reduce the amount of water available to these shrubs or adversely affect their viability as habitat for this species.

4.2.5 California Red-legged Frog

Species Description and Listing Status

The California red-legged frog (*Rana aurora draytonii*) was listed on May 23, 1996, (Federal Register [FR] 61:25813) as threatened. Critical habitat was designated on April 13, 2006, (FR 71:19243) and was proposed for revision on September 16, 2008. The USFWS published a recovery plan on September 12, 2002 (USFWS, 2009b).

The California red-legged frog is the largest native frog in the western United States, ranging from 1.5 to 5 inches long. The abdomen and hind legs of adults are often red. The back has small black flecks and larger irregular dark blotches, usually with light centers. These have indistinct outlines on a brown, gray, olive, or reddish background color. Lateral folds are prominent on the back. Larvae (tadpoles) range from 0.6 to 3 inches in length, and the background color of the body is dark brown and yellow with darker spots (USFWS, 2009b).

Distribution and Threats

The historical range of the California red-legged frog extended along the coast from the vicinity of Point Reyes National Seashore, Marin County and inland from the vicinity of Redding, Shasta County southward to northwestern Baja California, Mexico. California red-legged frogs have been documented in 46 counties in California, but now remain in only 238 streams or drainages in 31 counties. California red-legged frogs are still locally abundant within portions of the San Francisco Bay area (including Marin County) and the Central Coast. Within the remaining distribution of the species, only isolated populations have been documented in the Sierra Nevada, northern Coast Ranges, and northern Transverse Ranges. The species is believed to be extirpated from the southern Transverse Ranges and Peninsular Ranges, but is still present in Baja California (CNDDDB, 2009).

California red-legged frogs are currently threatened by the following human activities:

- Degradation and loss of habitat through urbanization
- Mining
- Improper management of grazing
- Recreation
- Invasion of nonnative plants
- Impoundments
- Water diversions
- Degraded water quality
- Introduced predators

These factors have resulted in the isolation and fragmentation of habitats within many watersheds. This often prevents dispersal between sub-populations. The fragmentation of existing habitat and the continued colonization of existing habitat by nonnative species may represent the most significant current threats to California red-legged frogs (USFWS, 2009b).

Life History and Ecology

California red-legged frogs are pond-dwelling amphibians that generally live near permanent aquatic habitats, including livestock ponds and pools in perennial streams (Jennings and Hayes, 1994). The optimal habitat is characterized by dense, shrubby riparian

vegetation associated with deep (> 2.3 feet), still, or slow-moving water (Hayes and Jennings, 1988; Jennings, 1988). The shrubby riparian vegetation that structurally seems to be most suitable for this frog is that provided by arroyo willow, although cattails (*Typha* spp.) and bulrushes (*Scirpus* spp.) also can provide suitable habitat (Jennings, 1988).

Although California red-legged frogs are found in ephemeral streams and ponds, populations cannot be maintained where all surface water disappears (Jennings and Hayes, 1994). This frog is infrequent or absent in habitats where introduced aquatic predators such as green sunfish (*Lepomis cyanellus*), Louisiana red-swamp crayfish (*Procambarus clarkii*), and bullfrogs (*Rana catesbeiana*) are present (Hayes and Jennings, 1986; 1988), probably because the larval stages are susceptible to such predators (Jennings and Hayes, 1994).

Reproduction occurs at night in permanent ponds or the slack water pools of streams during the winter and early spring (late November through April) after the onset of warm rains (Storer, 1925; Hayes and Jennings, 1988; Jennings and Hayes, 1994). Males generally appear at breeding sites from 2 to 4 weeks before females (Storer, 1925). Eggs hatch after 6 to 14 days (depending on the prevailing water temperature), and the resulting larvae require 3.5 to 7 months to attain metamorphosis (Storer, 1925). Some tadpoles may also overwinter (Fellers et al., 2001). Juvenile frogs are about 1 inch long at metamorphosis and commonly sun themselves during the day at the edge of the riparian zone next to the breeding site. As they grow, they gradually shift from diurnal and nocturnal periods of activity to largely nocturnal activity (Hayes and Tennant, 1986). During periods of rainfall, juveniles and a few adults may disperse from breeding sites and they may be found some distance (up to 0.5 mile) away from the nearest waterbody.

Status within the Action Area

No California red-legged frogs have been reported within the action area and no occurrences have been reported within 10 miles of the project (CNDDDB, 2009). Because it is disconnected from its historical upper watershed, Old Alamo Creek is not expected to provide suitable habitat for this species.

4.2.6 Giant Garter Snake

Species Description and Listing Status

The giant garter snake (*Thamnophis gigas*) was listed as threatened on October 20, 1993 (FR 58: 54053). Critical habitat has not been designated. The USFWS published a draft recovery plan on July 2, 1999, and completed a 5-year review of the recovery plan in September 2006 (USFWS, 2005).

The giant garter snake is one of the largest garter snakes, reaching a total length of at least 63 inches. Females tend to be slightly longer and proportionately heavier than males. Female giant garter snakes typically weigh 1 to 1.5 pounds. Garter snakes are in the family Colubridae, which includes most of the species of snakes found in the western United States (USFWS, 2009c).

Dorsal background coloration (the basic color on the snake's back) varies from brownish to olive with a checkered pattern of black spots, separated by a yellow dorsal stripe and two light colored lateral stripes. Background coloration and prominence of a black

checkered pattern and the three light stripes are geographically and individually variable. The ventral surface (the snake's underside) is cream to olive or brown and sometimes infused with orange, especially in northern populations (USFWS, 2009c).

Distribution and Threats

The giant garter snake inhabits agricultural wetlands and other waterways such as irrigation and drainage canals, sloughs, ponds, small lakes, low gradient streams, and adjacent uplands in the Central Valley. Because of the direct loss of natural habitat, the giant garter snake relies heavily on rice fields in the Sacramento Valley, but also uses managed marsh areas in federal National Wildlife Refuges and state Wildlife Areas. There have been only a few recent sightings of giant garter snakes in the San Joaquin Valley (USFWS, 2009c).

Giant garter snakes are typically absent from larger rivers because of lack of suitable habitat and emergent vegetative cover, and absent from wetlands with sand, gravel, or rock substrates. Riparian woodlands typically do not provide suitable habitat because of excessive shade, lack of basking sites, and absence of prey populations. However, some riparian woodlands do provide good habitat (USFWS, 2009c).

The main causes for the decline of this species are as follows:

- Habitat loss and fragmentation
- Flood control activities
- Changes in agricultural and land management practices
- Predation from introduced species
- Parasites
- Water pollution

Giant garter snakes can inhabit water bodies that contain predatory fish. When sufficient cover is available, they seem to hold their own, even when numerous predators share the same habitats. Giant garter snakes are probably absent from larger rivers because the habitat is not suitable (not because of the presence of predatory fish). The major rivers within its range have been highly channelized, removing oxbows and backwater areas that probably at one time provided suitable habitat (USFWS, 2009c).

Life History and Ecology

Giant garter snakes feed primarily on small fishes, tadpoles, and frogs. Habitat requirements consist of (1) adequate water during the snake's active season (early spring through mid fall) to provide food and cover; (2) emergent, herbaceous wetland vegetation, such as cattails and bulrushes, for escape cover and foraging habitat during the active season; (3) grassy banks and openings in waterside vegetation for basking; and (4) higher elevation uplands for cover and refuge from flood waters during the snake's dormant season in the winter (USFWS, 2009c).

The giant garter snake inhabits small mammal burrows and other soil crevices above prevailing flood elevations throughout its winter dormancy period. Giant garter snakes typically select burrows with sunny exposure along south- and west-facing slopes. The breeding season extends through March and April, and females give birth to live young from late July through early September (USFWS, 2009c).

Brood size is variable, ranging from 10 to 46 young, with a mean of 23. Young immediately scatter into dense cover and absorb their yolk sacs, after which they begin feeding on their own. Although growth rates are variable, young typically more than double in size within the first year. Sexual maturity averages 3 years for males and 5 years for females (USFWS, 2009c).

Status within the Action Area

Giant garter snake has not been reported within the action area. No portion of the CPVVS project is within any areas currently identified as having high value habitat for the species; however, the eastern extent of the natural gas pipeline is within 0.25 mile of the USFWS-designated Mid-Valley Recovery Unit for giant garter snake. This unit extends from the American and Yolo basins south to the City of Stockton. The nearest giant garter snake observation reported in the CNDDDB (occurrence #82) is approximately 9 miles west of the CPVVS action area in an agricultural canal with tules and cattail margins.

Potentially suitable giant garter snake habitat is present in riparian habitat within Old Alamo Creek and within 14 agricultural drains and irrigation canals in the vicinity of the 230-kV electrical transmission line and natural gas pipeline alignments. No direct effects to potential giant garter snake aquatic habitat in creeks or irrigation canals would occur from CPVVS construction; however, Project construction activities may affect giant garter snake aquatic habitat in one roadside drainage and upland habitat that is within 200 feet of potential aquatic habitat. Indirect operational effects to potential giant garter snake habitat downstream of the EWTP outflow may also occur as a result of decreased EWTP outflows to Old Alamo Creek.

4.2.7 Least Tern

Species Description and Listing Status

The California least tern (*Sternula* [=*Sterna*, =*albifrons*] *antillarum*) was listed as endangered on October 13, 1970 (35 CFR16047), and has been recommended for downlisting to threatened status (72 FR 7064). Critical habitat has not been designated. A revised Recovery Plan was published on September 27, 1985, and 5-year review was published in September 2006.

The California least tern has a distinctive black cap with black stripes running from the cap across the eyes to the beak that contrast with a white forehead. Other upper parts are gray and underparts are white. California least terns have short, forked tails. Their bills and legs are orange (USFWS, 2007d).

The least tern is the smallest of North American terns. It is 8.25 to 9 inches long with a wingspan of 19 to 21 inches. Their diet consists of small fish, shrimp, and sometimes other invertebrates (USFWS, 2007d).

Life History and Ecology

Most least terns begin breeding in their third year. Mating begins in April or May and nesting starts shortly afterward in colonies on relatively open beaches kept free of vegetation by natural scouring from tidal action. Most terns rely on degraded habitat on the beaches of densely populated Southern California. Nesting habitat is often separated from

the ocean by recreational beach use. The typical colony is 25 pairs. The nest is a simple scrape in the sand or shell fragments. The typical clutch is two eggs. Both parents incubate and care for the young (USFWS, 2007d).

Distribution and Threats

California least tern is distributed along the Pacific Coast of California, from San Francisco to Baja California (USFWS, 2007d).

Threats include the following:

- People and domestic animals walking too close to nests
- Noise pollution from construction or other human activities
- Aircraft flying low or landing in nesting areas
- Military training exercises

Predators include larger birds, mammals such as raccoons and foxes, domestic dogs, and cats.

Status within the Action Area

The CPVVS action area does not provide suitable nesting or forage habitat for California least tern; however, this species may fly over the action area while en route to suitable habitat elsewhere. The closest foraging habitat for terns is along the shorelines of the Sacramento–San Joaquin Delta waterways, which is located outside the action area.

4.3 Critical Habitat

Critical habitat for listed species consists of the following:

1. The specific areas within the geographical area occupied by the species, at the time it is listed in accordance with the provisions of Section 4 of the ESA, on which are found those physical or biological features (constituent elements) (a) essential to the conservation of the species, and (b) which may require special management considerations or protection.
2. Specific areas outside the geographic area occupied by the species at the time it is listed in accordance with the provisions of Section 4 of the ESA, upon a determination by the Secretary that such areas are essential for the conservation of the species (USFWS, 2003).

No designated critical habitat is located within the CPVVS action area. The nearest critical habitat unit for Contra Costa goldfields is located approximately 2 miles to the southwest of the action area. Critical habitat units for vernal pool fairy shrimp and vernal pool tadpole shrimp are located approximately 2 miles to the southeast of the action area. Other critical habitat units for Conservancy fairy shrimp, delta green ground beetle, and California tiger salamander are located more than 4 miles to the south and southeast of the action area (Figure 4-1). Because no designated critical habitat units occur within the action area, there will be no direct or indirect effects to primary constituent elements within any designated critical habitat.

SECTION 5

Effects of the Proposed Action on Listed Species

The project description was evaluated to determine the potential for the CPVVS Project to have permanent and temporary effects on federally listed species. This section describes the potential direct and indirect effects of the Project on the federally listed species within the action area.

5.1 Direct Effects

Direct effects are considered to be those effects that occur at the time of the proposed action (USFWS, 1998). A construction activity may be described as initiating a temporary direct effect or a permanent direct effect, depending on the duration of each construction activity component.

For the purposes of this BA, permanent direct effects are defined as direct effects that will remove listed species habitat for 1 year or longer and/or that will result in direct harm or harassment to any listed species individuals. Temporary direct effects are defined as direct effects on listed species habitat that will be restored within 1 year.

5.1.1 Permanent Effects

Permanent direct effects to federally listed species and habitat may occur as a result of CPVVS Project-related construction.

Giant Garter Snake

Although no occurrences of giant garter snake have been reported within the action area, the giant garter snake Mid-Valley Recovery Unit is located approximately 0.25 mile east of the Project, and potentially suitable upland and aquatic giant garter snake habitat is present within the action area. Giant garter snakes may forage in water conveyances that support prey species and that hold water for extended periods; therefore, individual snakes could be harmed during construction activities. Construction disturbance will be minimized by limiting surface work in giant garter snake habitat to the active period of the snakes from May 1 to October 1. A qualified biological monitor will be on site during construction activities in habitat, to move snakes if encountered.

Although effects to giant garter snake habitat will be minimized, permanent direct effects to approximately 0.01 acre (120 square feet) of potential giant garter snake aquatic habitat and 8.97 acres of upland habitat within 200 feet of potential aquatic habitat is expected to occur as a result of project construction. Permanent construction effects are presumed to be continuous throughout operation. Permanent effects are summarized in Table 5-1.

TABLE 5-1
Permanent Effects to Giant Garter Snake (acres)

Project Activity	Aquatic Habitat (acres)	Upland Habitat (acres)
Project site and laydown within 200 of potential aquatic habitat	0	7.58
Permanent access road crossing	0.01	0
Electrical transmission line footings	0	0.02
Areas of substation within 200 feet of potential aquatic habitat	0	1.38
Construction of stormwater detention basin outfall	0.01	0
Total	0.01	8.97

Minimization measures to mitigate for permanent direct effects to giant garter snake are discussed in Section 5.4.

No other federally listed species or designated critical habitat were identified within the action area for the CPVVS project; therefore, no additional permanent direct effects to listed species or habitat are anticipated to occur as a result of the project.

5.1.2 Temporary Effects

Temporary direct effects to federally listed species and habitat in the action area may occur as a result of Project-related construction activities.

Giant Garter Snake

Temporary direct effects to approximately 0.01 acre of potential giant garter snake aquatic habitat and 4.30 acres of upland habitat within 200 feet of potential aquatic habitat is expected to occur as a result of project construction. Temporary loss of approximately 0.01 acre (610 square feet) of potentially suitable giant garter snake aquatic habitat may occur as a result of the construction of a stormwater detention basin outfall structure and approximately five temporary access routes to the site from Lewis Road. Temporary loss of approximately 3.67 acres of potentially suitable giant garter snake upland habitat may occur from areas of the temporary construction laydown area within 200 feet of potential aquatic habitat. Trenching activities associated with the construction of the 1.03-mile-long, 4-foot-wide natural gas pipeline may result in an additional 0.62 acre of temporary upland habitat loss.

Temporary effects are summarized in Table 5-2 below.

Temporary direct effects to giant garter snake may also include air quality effects related to dust and equipment emissions and noise and vibration related to equipment operation and other construction-related activities

Minimization measures to mitigate for temporary direct effects are discussed in Section 5.4.

TABLE 5-2
Temporary Effects to Giant Garter Snake (acres)

Project Activity	Aquatic Habitat (acres)	Upland Habitat (acres)
Areas of the temporary laydown within 200 feet of potential aquatic habitat	0	3.67
Trenching for natural gas pipeline	0	0.62
Temporary access road crossings	0.01	0
Total	0.01	4.30

5.2 Indirect Effects

Indirect effects are defined under the ESA as “...those effects that are caused by, or will result from, the Proposed Action later in time but are still reasonably certain to occur...” (50 CFR 402.02).

Because the project makeup water supply will consist entirely of reclaimed secondary-treated wastewater from the EWTP, the EWTP will discharge a reduced volume of treated wastewater to Old Alamo Creek during operation of the proposed facility. Because the data necessary to evaluate the extent of effects related to the use of reclaimed secondary-treated wastewater from the EWTP to Old Alamo Creek are not available at this time, these effects are considered to be indirect pending formal consultation with the USFWS.

Where Old Alamo Creek becomes channelized and makes a right-angle bend to the south approximately 1 mile east of the EWTP, an irrigation canal discharges water into the channel during the irrigation season, which would somewhat lessen the reduced flow effects in this reach of the creek. The creek, however, is broad and shallow in this reach that flows southward and, therefore, reduced EWTP flows could reduce the quality of aquatic habitat here as well. Because EWTP effluent discharge, assumed to be 5 mgd on a daily average basis, is the primary source of flow to Old Alamo Creek, the Project’s operational use of EWTP effluent is reasonably certain to affect aquatic habitat within the Old Alamo Creek channel downstream of the EWTP outflow. This would particularly be the case in the reach of Old Alamo Creek between the EWTP outflow and the agricultural returns approximately 1 mile downstream of the EWTP.

New Alamo Creek, upstream of its confluence with Old Alamo Creek, is an ephemeral system that does not receive watershed runoff during the summer months of the year. Thus, New Alamo Creek conveys only agricultural return and conveyance flows and urban runoff from about June through November, annually.

During the precipitation season (primarily November through April), the water in lower New Alamo Creek comprises runoff from the upper watershed, urban runoff, runoff from agricultural lands, and EWTP effluent (RBI, 2007). The relative fraction of effluent throughout the precipitation season varies depending on the size of each storm event and the frequency and size of antecedent storms. A dilution study found the portion of EWTP effluent present in March 2004 to be approximately 50 percent of the flow in New Alamo Creek (Flow Science, 2005). The range of production rates and seasonal variation in EWTP discharges are provided in Table 5-3.

TABLE 5-3
EWTP Flows, January 2006 through December 2008

Month	Discharge Rate (mgd)			
	3-Year Mean	3-Year Median	High (daily average)	Low (daily average)
January	10.2	9.6	23.3	7.4
February	9.6	9.3	15.5	7.3
March	10.2	10.2	18.5	7.5
April	10.0	10.0	18.9	6.7
May	8.8	8.8	10.9	6.8
June	8.5	8.5	10.9	6.8
July	8.2	8.2	9.1	6.7
August	8.0	8.0	9.3	6.5
September	7.9	8.0	9.0	6.7
October	7.9	8.0	9.2	6.3
November	7.8	7.8	9.9	4.9
December	8.1	8.0	12.3	6.0

The Project's operational use of EWTP effluent is reasonably expected to affect approximately 1 mile of the Old Alamo Creek channel that may provide suitable giant garter snake aquatic habitat downstream of the EWTP outflow. Riparian habitat within Old Alamo Creek is well established both upstream and downstream of the EWTP, with overhanging trees that shade the creek, exposed banks, and emergent vegetation.

Potential effects that the Project may have to the federally threatened Central Valley Steelhead (*Oncorhynchus mykiss*) and the federal species of concern Central Valley fall- and late-fall-run chinook salmon (*Oncorhynchus tshawytscha*) that may occur in New Alamo Creek are addressed in a separate BA prepared for the USACE for review by the NMFS. No other indirect effects to federally listed species are expected to occur as a result of the CPVVS project.

5.3 Cumulative Effects Analysis

Cumulative effects, as defined by the ESA, are those effects of future state or private activities, not involving federal activities, that are reasonably certain to occur within the area of the action subject to consultation (50 CFR 402.02). Cumulative effects can include the residual effects of more than one project that can reach a level of significance when combined with others. This could take place as a result of a combination of effects that are individually less than significant, but are significant when taken together.

Applications for several residential projects have been filed in the City and Solano County. In the same way that potential effects to federally listed species associated with the CPVVS project will be avoided or minimized by the measures discussed in Section 5.4, these projects will undergo a similar environmental review process by which effects to federally listed species must be quantified and mitigated prior to project implementation. As a result of the nature of the environmental review system in place, cumulative effects to federally protected species will be avoided or mitigated through either habitat creation or the purchase of credits from an

approved mitigation bank. Therefore, the CPVVS project is not expected to contribute to any cumulative adverse effects to any of the federally listed species addressed in this BA.

5.4 Conservation Measures to Offset Direct and Indirect Effects

Construction of the CPVVS Project *may affect, and is likely to adversely effect*, potentially suitable habitat for giant garter snake.

Conservation and protection measures implemented during the construction of the project will be followed to minimize adverse direct and indirect effects to giant garter snake. The measures will be used primarily as avoidance measures to ensure that potentially suitable offsite habitat is not disturbed with the implementation of the CPVVS Project. A summary of effects and mitigation is provided in Table 5-4.

TABLE 5-4
Summary of Effects and Mitigation

Project Component	Temporary (Effect Duration)	Permanent	Mitigation
Project site and laydown within 200 feet of potential aquatic habitat (upland effects)		7.58	Compensation
Permanent access road crossing (aquatic effects)		0.00	Compensation
Electrical transmission line footings		0.02	Compensation
Areas of substation within 200 feet of potential aquatic habitat (upland effects)		1.38	Compensation
Stormwater basin outfall structure (aquatic effects)		0.00	Compensation
Areas of the temporary laydown within 200 feet of potential aquatic habitat (upland effects)	3.67 (11 months)		Restoration
Trenching for the natural gas pipeline (upland effects)	0.62 (3 months)		Restoration
Temporary access road crossings (aquatic effects)	0.01 (11 months)		Restoration
Total	4.31	8.97	

5.4.1 Giant Garter Snake

Construction activities will include the following measures to avoid and minimize adverse effects to giant garter snake and giant garter snake habitat:

- Construction activities within 200 feet from the banks of giant garter snake aquatic habitat will be minimized. Movement of heavy equipment will be confined to established roadways to minimize habitat disturbance.
- Clearing will be confined to the minimal area necessary to facilitate construction activities. Avoided giant garter snake habitat within or adjacent to the Project area will be flagged and designated as Environmentally Sensitive Areas.
- Construction personnel will receive USFWS-approved worker environmental awareness training. This training instructs workers to recognize giant garter snakes and their habitat(s).

- The Project area will be surveyed for giant garter snakes 24 hours before construction activities begin. If a lapse in construction activity of 2 weeks or greater has occurred, a Project area survey will be repeated. If a snake is encountered during construction, activities will cease in the vicinity of the find until appropriate corrective measures have been completed or it has been determined that the snake will not be harmed. Any sightings and any incidental take will be immediately reported to USFWS by telephone at (916) 414-6600.
- All work will be performed in accordance with a Storm Water Pollution Prevention Plan. Best Management Practices will be implemented and may include the use of silt fences, sandbags, detention basins, and other means as appropriate to prevent erosion into any identified giant garter snake aquatic habitat.
- If construction results in any dewatered habitat, the habitat will be maintained in dry condition for at least 15 consecutive days after April 15 and before excavating or filling of the dewatered habitat.
- After completion of construction in giant garter snake habitats that are temporarily affected, any temporary fill and construction debris will be removed and, where feasible, disturbed areas will be restored to pre-Project conditions. The topography and grade will be restored to preconstruction conditions. Following all grading, earthwork and trenching, these areas will either be replanted or reseeded with the appropriate plant species, if determined necessary, or they will be monitored following construction to determine that vegetation comparable to the pre-existing condition has naturally regenerated.

The following measures will mitigate and compensate for adverse effects to giant garter snake that cannot be avoided:

- The Project owner will mitigate permanent effects to 0.01 acre of giant garter snake aquatic habitat by providing offsite replacement habitat at a USFWS-approved mitigation bank at a mitigation-to-effect ratio of 3:1.
- The Project owner will mitigate permanent effects to 8.97 acres of giant garter snake upland habitat from Project construction by providing offsite replacement habitat at a USFWS-approved mitigation bank at a mitigation-to-effect ratio of 3:1.
- The Project owner will mitigate temporary effects to 0.01 acre of giant garter snake aquatic habitat from construction of the stormwater detention basin outfall structure and temporary access roads by providing offsite replacement habitat at a USFWS-approved mitigation bank at a mitigation-to-effect ratio of 3:1.
- The Project owner will mitigate temporary effects to 4.30 acre of giant garter snake upland habitat from construction of the natural gas pipeline by providing offsite replacement habitat at a USFWS-approved mitigation bank at a mitigation-to-effect ratio of 3:1.

SECTION 6

Conclusion and Determination

Effect determinations for each of the federally listed species that could potentially be affected by the proposed action in the action area were discussed in Section 5. This section summarizes the effect determinations for those species.

6.1 Federally Listed Species

6.1.1 May Effect, Likely to Adversely Affect

Suitable habitat for the following species addressed in this BA may be adversely affected by the proposed action:

- Giant garter snake (*Thamnophis gigas*), threatened

6.1.2 No Effect

The proposed action is expected to have no effect on the following 6 species:

- Conservancy fairy shrimp (*Branchinecta conservatio*), endangered
- Vernal pool fairy shrimp (*Branchinecta lynchi*), threatened
- Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), threatened
- Vernal pool tadpole shrimp (*Lepidurus packardii*), endangered
- California red-legged frog (*Rana aurora draytonii*), threatened
- Least tern (*Sternula* [=*Sterna*, =*albifrons*] *antillarum*), endangered

SECTION 7

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updated: May 13, 2009.

Appendix A
USFWS Official Species List



United States Department of the Interior
FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office
2800 Cottage Way, Room W-2605
Sacramento, California 95825



May 13, 2008

Document Number: 080513052342

Michael Clary
CH2M HILL
155 Grand Avenue, Suite 1000
Oakland, CA 94612

Subject: Not specified

Dear: Mr. Clary

We are sending this official species list in response to your May 13, 2008 request for information about endangered and threatened species. The list covers the California counties and/or U.S. Geological Survey 7½ minute quad or quads you requested.

Our database was developed primarily to assist Federal agencies that are consulting with us. Therefore, our lists include all of the sensitive species that have been found in a certain area *and also ones that may be affected by projects in the area*. For example, a fish may be on the list for a quad if it lives somewhere downstream from that quad. Birds are included even if they only migrate through an area. In other words, we include all of the species we want people to consider when they do something that affects the environment.

Please read Important Information About Your Species List (below). It explains how we made the list and describes your responsibilities under the Endangered Species Act.

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be August 11, 2008.

Please contact us if your project may affect endangered or threatened species or if you have any questions about the attached list or your responsibilities under the Endangered Species Act. A list of Endangered Species Program contacts can be found at www.fws.gov/sacramento/es/branches.htm.

Endangered Species Division



**Federal Endangered and Threatened Species that Occur in
or may be Affected by Projects in the Counties and/or
U.S.G.S. 7 1/2 Minute Quads you requested**

Document Number: 080513052342

Database Last Updated: January 31, 2008

No quad species lists requested.

County Lists

Solano County

Listed Species

Invertebrates

Branchinecta conservatio

Conservancy fairy shrimp (E)

Critical habitat, Conservancy fairy shrimp (X)

Branchinecta lynchi

Critical habitat, vernal pool fairy shrimp (X)

vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus

valley elderberry longhorn beetle (T)

Elaphrus viridis

Critical habitat, delta green ground beetle (X)

delta green ground beetle (T)

Lepidurus packardii

Critical habitat, vernal pool tadpole shrimp (X)

vernal pool tadpole shrimp (E)

Speyeria callippe callippe

callippe silverspot butterfly (E)

Fish

Acipenser medirostris

green sturgeon (T) (NMFS)

Hypomesus transpacificus

Critical habitat, delta smelt (X)

delta smelt (T)

Oncorhynchus kisutch

coho salmon - central CA coast (E) (NMFS)

Oncorhynchus mykiss

Central California Coastal steelhead (T) (NMFS)

Central Valley steelhead (T) (NMFS)

Critical habitat, Central California coastal steelhead (X) (NMFS)

Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha

Central Valley spring-run chinook salmon (T) (NMFS)

Critical Habitat, Central Valley spring-run chinook (X) (NMFS)

Critical habitat, winter-run chinook salmon (X) (NMFS)

winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense

California tiger salamander, central population (T)

Critical habitat, CA tiger salamander, central population (X)

Rana aurora draytonii

California red-legged frog (T)

Critical habitat, California red-legged frog (X)

Reptiles

Masticophis lateralis euryxanthus

Alameda whipsnake [=striped racer] (T)

Thamnophis gigas

giant garter snake (T)

Birds

Charadrius alexandrinus nivosus

western snowy plover (T)

Pelecanus occidentalis californicus

California brown pelican (E)

Rallus longirostris obsoletus

California clapper rail (E)

Sternula antillarum (=Sterna, =albifrons) browni

California least tern (E)

Mammals

Reithrodontomys raviventris
salt marsh harvest mouse (E)

Plants

Cirsium hydrophilum var. *hydrophilum*
Suisun thistle (E)

Cordylanthus mollis ssp. *mollis*
soft bird's-beak (E)

Lasthenia conjugens
Contra Costa goldfields (E)
Critical habitat, Contra Costa goldfields (X)

Neostapfia colusana
Colusa grass (T)

Tuctoria mucronata
Solano grass (=Crampton's tuctoria) (E)

Proposed Species

Plants

Cirsium hydrophilum var. *hydrophilum*
Critical habitat, Suisun thistle (PX)

Cordylanthus mollis ssp. *mollis*
Critical habitat, soft bird's-beak (PX)

Key:

(E) *Endangered* - Listed as being in danger of extinction.

(T) *Threatened* - Listed as likely to become endangered within the foreseeable future.

(P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.

(NMFS) Species under the Jurisdiction of the [National Oceanic & Atmospheric Administration Fisheries Service](#). Consult with them directly about these species.

Critical Habitat - Area essential to the conservation of a species.

(PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.

(C) *Candidate* - Candidate to become a proposed species.

(V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.

(X) *Critical Habitat* designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online [Inventory of Rare and Endangered Plants](#).

Surveying

Some of the species on your list may not be affected by your project. A trained biologist or botanist, familiar with the habitat requirements of the species on your list, should determine whether their habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list.

For plant surveys, we recommend using the [Guidelines for Conducting and Reporting Botanical Inventories](#). The results of your surveys should be published in any environment documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal [consultation](#) with the Service.

During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed proposed species. The opinion may authorize a limited level of incidental take.

- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as [critical habitat](#). These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our [critical habitat page](#) for maps.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. [More info](#)

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6580.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem.

However, we recommend that you get an updated list every 90 days. That would be August 11, 2008.

Appendix B
CNDDDB

Actinemys marmorata

western pond turtle

Element Code: ARAAD02030

Status _____	NDDB Element Ranks _____	Other Lists _____
Federal: None	Global: G3G4	CDFG Status: SC
State: None	State: S3	

Habitat Associations _____

General: A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES WITH AQUATIC VEGETATION.
Micro: NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT FOR EGG-LAYING.

Occurrence No. 139	Map Index: 39692	EO Index: 34694	Dates Last Seen _____
Occ Rank: Good			Element: 1998-08-14
Origin: Natural/Native occurrence			Site: 1998-08-14
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1998-09-10

Quad Summary: Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.33447° / -122.01421°	Township: 06N
UTM: Zone-10 N4243386 E586155	Range: 01W
Radius: 80 meters	Section: 30
Elevation: 210 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: NW END OF LAGOON VALLEY RESERVOIR, SW OF VACAVILLE.
Location Detail: SITE CONSISTS OF A CHANNEL NEAR THE OUTLET OF LAGOON VALLEY RESERVOIR.
Ecological: CHANNEL HAS MODERATE RIPARIAN COVER OF WILLOW, WITH SPARSE STANDS OF SCIRPUS AND TYPHA ALONG THE MARGINS. RORIPPA AND ALGAL MATS COVER ~30% OF THE WATER SURFACE. BASKING SITES CONSISTS OF LARGE, DOWNED WILLOW LIMBS.
General: 3 ADULTS OBSERVED BASKING ON WOODY DEBRIS. BULLFROGS AND RIVERS OTTERS ARE ALSO PRESENT AT THIS SITE.
Owner/Manager: UNKNOWN

Occurrence No. 200	Map Index: 48008	EO Index: 48008	Dates Last Seen _____
Occ Rank: Good			Element: 2002-04-02
Origin: Natural/Native occurrence			Site: 2002-04-02
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-05-28

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.15213° / -122.11682°	Township: 04N
UTM: Zone-10 N4223063 E577381	Range: 02W
Radius: 80 meters	Section: 32
Elevation: 16 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: WEST SIDE OF HIGHWAY 680, 7.25 MILES SSW OF FAIRFIELD
Ecological: HABITAT CONSISTS OF A STOCK POND WITH LOTS OF EMERGENT VEGETATION (MAINLY COCKLEBUR); POND IS SITUATED IN AN EPHEMERAL DRAINAGE, SURROUNDED BY NON-NATIVE GRASSLAND. TARICHA TOROSA, HYLIA REGILLA, AND CYZICUS CALIFORNICUS ALSO PRESENT.
Threat: THREATENED BY ERSOION OF THE EARTHEN DAM THAT HOLDS BACK THE WATER IN THE DRAINAGE.
General: 7 INDIVIDUALS OBSERVED ON 1-2 APR 2002.
Owner/Manager: PVT

Actinemys marmorata marmorata

northwestern pond turtle

Element Code: ARAAD02031

Status: _____ NDDB Element Ranks: _____ Other Lists: _____
 Federal: None Global: G3G4T3 CDFG Status: SC
 State: None State: S3

Habitat Associations

General: ASSOCIATED WITH PERMANENT OR NEARLY PERMANENT WATER IN A WIDE VARIETY OF HABITATS.
 Micro: REQUIRES BASKING SITES. NESTS SITES MAY BE FOUND UP TO 0.5 KM FROM WATER.

Occurrence No. 41 Map Index: 32701 EO Index: 1329 Dates Last Seen: _____
 Occ Rank: Unknown Element: 1990-05-29
 Origin: Natural/Native occurrence Site: 1990-05-29
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1995-11-07

Quad Summary: Allendale (3812148/498B), Winters (3812158/514C)
 County Summary: Yolo, Solano

Lat/Long: 38.50940° / -121.97557° Township: 08N
 UTM: Zone-10 N4262833 E589317 Range: 01W
 Radius: 1 mile Mapping Precision: NON-SPECIFIC Section: 28 Qtr: XX
 Elevation: 125 ft Symbol Type: POINT Meridian: M

Location: SSE OF WINTERS; ALONG PUTAH CREEK AND UNNAMED TRIBUTARY.
 General: UNKNOWN NUMBERS OBSERVED DURING SURVEY; NO OTHER INFORMATION GIVEN.
 Owner/Manager: UNKNOWN

Occurrence No. 101 Map Index: 38446 EO Index: 33453 Dates Last Seen: _____
 Occ Rank: Fair Element: 1997-04-08
 Origin: Natural/Native occurrence Site: 1997-04-08
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1998-03-25

Quad Summary: Mt. Vaca (3812241/499A)
 County Summary: Solano

Lat/Long: 38.43951° / -122.11486° Township: 07N
 UTM: Zone-10 N4254952 E577247 Range: 02W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 20 Qtr: NW
 Elevation: 2,360 ft Symbol Type: POINT Meridian: M

Location: JUST SOUTH OF WILD HORSE CANYON, IN THE VACA MOUNTAINS.
 Ecological: SMALL, CIRCULAR, ARTIFICIAL POND IN DENSE CHAPARRAL ON DIVIDE BETWEEN MILLER & WILD HORSE CYNS. -1-2 YRS OLD (NO EMERGENT VEG YET). USED AS IRRIGATION SOURCE. GRAVELLY/ROCKY SHORE, NO LOGS FOR PERCHING. NO SIGN OF FISH/AMPHIBIANS IN POND.
 General: A SINGLE ADULT WAS OBSERVED IN THE WATER; NO OTHER TURTLES EVIDENT.
 Owner/Manager: PVT

Occurrence No. 200 Map Index: 54936 EO Index: 54936 Dates Last Seen: _____
 Occ Rank: Good Element: 2004-03-24
 Origin: Natural/Native occurrence Site: 2004-03-24
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2004-03-29

Quad Summary: Fairfield South (3812221/482A)
 County Summary: Solano

Lat/Long: 38.18311° / -122.08119° Township: 04N
 UTM: Zone-10 N4226530 E580468 Range: 02W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 22 Qtr: XX
 Elevation: 0 ft Symbol Type: POINT Meridian: M

Location: VICINITY OF CHADBOURNE SLOUGH, 4 MILES SSW OF FAIRFIELD
 Ecological: HABITAT CONSISTS OF DRAINAGE WATER (WHICH IS PUMPED INTO CHADBOURNE SLOUGH) FROM DUCK CLUBS; CHANNEL LINED WITH TYPHA SP. AND DISTICHLIS SPICATA.
 General: 1 ADULT OBSERVED ON 24 MAR 2004.
 Owner/Manager: PVT

Actinemys marmorata marmorata

northwestern pond turtle

Element Code: ARAAD02031

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3G4T3	CDFG Status: SC
State: None	State: S3	

Habitat Associations

General: ASSOCIATED WITH PERMANENT OR NEARLY PERMANENT WATER IN A WIDE VARIETY OF HABITATS.
Micro: REQUIRES BASKING SITES. NESTS SITES MAY BE FOUND UP TO 0.5 KM FROM WATER.

Occurrence No. 255	Map Index: 68577	EO Index: 68943	Dates Last Seen
Occ Rank: Excellent			Element: 2006-06-11
Origin: Natural/Native occurrence			Site: 2006-06-11
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-04-04

Quad Summary: Mt. Vaca (3812241/499A)
County Summary: Solano

Lat/Long: 38.48574° / -122.08607°	Township: 07N
UTM: Zone-10 N4260107 E579708	Range: 02W
Radius: 80 meters	Section: 04
Elevation: 1,160 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: WILD HORSE CREEK, ~1.2 MILES UPSTREAM OF THE CONFLUENCE WITH COLD CANYON CREEK, STEBBINS COLD CANYON RESERVE
Ecological: HABITAT CONSISTS OF A SMALL CREEK THAT NORMALLY FLOWS YEAR-ROUND, BUT MAY GO DRY IN PLACES DURING PERIODS OF LOW RAINFALL; SUBSTRATE IS ROCKY, WITH PLUNGE POOLS AND RIFFLES. VEGETATION IS TYPICAL OF RIPARIAN ALONG INNER COAST RANGE STREAMS.
General: TURTLES HAVE BEEN OBSERVED AT THIS SITE CONSISTENTLY SINCE 2002. 5 ADULT TURTLES OBSERVED ON 11 JUN 2006.
Owner/Manager: UCNR-COLD CANYON RESERVE

Occurrence No. 287	Map Index: 70209	EO Index: 71090	Dates Last Seen
Occ Rank: Unknown			Element: 2002-02-21
Origin: Natural/Native occurrence			Site: 2002-02-21
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-16

Quad Summary: Denverton (3812128/481B), Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.24988° / -121.88706°	Township: 05N
UTM: Zone-10 N4234126 E597381	Range: 01E
Radius: 80 meters	Section: 29
Elevation: 31 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: 4.5 MILES SW OF DOZIER.
Ecological: HABITAT CONSISTS OF A DITCH.
General: UNKNOWN NUMBER/LIFESTAGE OBSERVED ON 21 FEB 2002.
Owner/Manager: UNKNOWN

Agelaius tricolor

tricolored blackbird

Element Code: ABPBXB0020

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G2G3 **CDFG Status:** SC
 State: None **State:** S2

Habitat Associations

General: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.
Micro: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Occurrence No. 106 **Map Index:** 10245 **EO Index:** 11811 **Dates Last Seen** _____
Occ Rank: None **Element:** 1932-05-06
Origin: Natural/Native occurrence **Site:** 1932-05-06
Presence: Possibly Extirpated
Trend: Unknown **Record Last Updated:** 1991-07-25

Quad Summary: Honker Bay (3812118/481C), Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.13519° / -121.90579° **Township:** 03N
UTM: Zone-10 N4221380 E595893 **Range:** 01E
Radius: 1 mile **Mapping Precision:**NON-SPECIFIC **Section:** 06 **Qtr:** XX
Elevation: 10 ft **Symbol Type:**POINT **Meridian:** M

Location: MARSH 2 MI W OF BIRDS LANDING.
Location Detail: SMALL COLONY OF 9 BIRDS OBS BY NEFF IN CATTAILS.
General: PRESUMED EXTIRPATED BY BEEDY 1991.
Owner/Manager: UNKNOWN

Occurrence No. 107 **Map Index:** 10580 **EO Index:** 30792 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1981-04-20
Origin: Natural/Native occurrence **Site:** 1981-04-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1997-03-27

Quad Summary: Birds Landing (3812127/481A), Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25355° / -121.80747° **Township:** 05N
UTM: Zone-10 N4234620 E604341 **Range:** 01E
Radius: 2/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 25 **Qtr:** NE
Elevation: 5 ft **Symbol Type:**POINT **Meridian:** M

Location: ALONG HWY 113, JUST SOUTH OF CALHOUN CUT, 7 MILES EAST OF TRAVIS AFB.
Location Detail: LOCATED ADJACENT TO TNC'S JEPSON PRAIRIE PRESERVE, COLONY OCCUPIED APPROXIMATELY 0.25 ACRE.
Ecological: NESTING SUBSTRATE CONSISTS OF CATTAILS.
General: NEST-BUILDING OBSERVED ON 20 APRIL 1981, BUT SITE WAS LATER ABANDONED.
Owner/Manager: UNKNOWN

Ambystoma californiense

California tiger salamander

Element Code: AAAAA01180

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G2G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: CENTRAL VALLEY DPS LISTED AS THREATENED. SANTA BARBARA & SONOMA COUNTIES DPS LISTED AS ENDANGERED.
Micro: NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS & VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING

Occurrence No. 59	Map Index: 10665	EO Index: 28402	Dates Last Seen
Occ Rank: None			Element: 1953-10-10
Origin: Natural/Native occurrence			Site: 1953-10-10
Presence: Extirpated			
Trend: Unknown			Record Last Updated: 2001-11-14

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.44629° / -121.78412°	UTM: Zone-10 N4256033 E606102	Township: 07N	Range: 02E
Radius: 1 mile	Elevation: 50 ft	Mapping Precision: NON-SPECIFIC	Section: 17
		Symbol Type: POINT	Meridian: M
			Qtr: SW

Location: 2.0 MI EAST OF DIXON.
General: UCD COLLECTION #2223 (S. BERRY). JENNINGS CONSIDERS THIS SITE EXTIRPATED.
Owner/Manager: UNKNOWN

Occurrence No. 81	Map Index: 68807	EO Index: 28388	Dates Last Seen
Occ Rank: Excellent			Element: 2006-XX-XX
Origin: Natural/Native occurrence			Site: 2006-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-04-04

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27051° / -121.82689°	UTM: Zone-10 N4236480 E602617	Township: 05N	Range: 01E
Area: 78.0 acres	Elevation: 20 ft	Mapping Precision: SPECIFIC	Section: 23
		Symbol Type: POLYGON	Meridian: M
			Qtr: NE

Location: OLCOTT LAKE, JEPSON PRAIRIE PRESERVE, WEST OF COOK LANE & EAST OF SACRAMENTO NORTHERN RAILROAD, SW OF DOZIER.
Location Detail: FORMERLY TNC JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS AND OPEN SPACE IN AUG 1997. SHAFFER SITE 95.
Ecological: HABITAT CONSISTS OF A LARGE VERNAL POOL. SHEEP GRAZING AND EXOTIC PLANTS PRESENT. BRANCHINECTA CONSERVATIO, LEPIDURUS PACKARDI, AND ELAPHRUS VIRIDIS ARE ALSO FOUND AT THIS SITE.
General: UCD RECORD FROM FEB 1972. SSC 714 (LARVA) ON 7 APR 1973. 5 LARVAE NETTED, 9 APR 1998. 653 ADS/7749 JUVS OBSERVED, 2005-06 WET SEASON (88 VISITS). 4483 JUVS CAPTURED (PITFALL TRAPS & DRIFT FENCES), 13 MAY-28 JUN 2005.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 336	Map Index: 34153	EO Index: 1961	Dates Last Seen
Occ Rank: Unknown			Element: 2002-05-13
Origin: Natural/Native occurrence			Site: 2002-05-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-06-21

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26970° / -121.84368°	UTM: Zone-10 N4236371 E601150	Township: 05N	Range: 01E
Area:	Elevation: 25 ft	Mapping Precision: NON-SPECIFIC	Section: 22
		Symbol Type: POLYGON	Meridian: M
			Qtr: XX

Location: 1.8 MILES SW OF DOZIER, 2.2 MILES WNW OF HIGHWAY 113 AT CALHOUN CUT, WEST OF JEPSON PRAIRIE.
Location Detail: LOCATED ALONG PG&E/PGT UNDERGROUND GAS PIPELINE RIGHT-OF-WAY. PLAYA-2 LOCATION MAPPED TO WITHIN SAMPLE AREA, DETAILS NOT GIVEN AS TO ACTUAL LOCATION.
Ecological: HABITAT CONSISTS OF RESTORED VERNAL POOLS IN CENTRAL VALLEY GRASSLAND; PLAYA POOLS CONTAINING WATER INTO JUNE, WITH HIGH TURBIDITY DUE TO CONSTANT WIND CAUSING SUSPENSION OF FINE SEDIMENTS.
Threat: POSSIBLE THREATS INCLUDE OVERGRAZING, CONVERSION TO CROPLAND, DEVELOPMENT.
General: CAS #187388-89 COLL 20 APR 1978. CAS #178428 COLL 19 FEB 1982. SHAFFER SITE #57 COLL 21 APR 1990. SHAFFER SITE #89 COLLECTED 11 MAR 1990. SHAFFER SITE #274 COLLECTED 3 MAY 1991. PLAYA-2: LARVAE OBS, 1995. OBSERVED, 13 MAY 2002.
Owner/Manager: PVT

Ambystoma californiense

California tiger salamander

Element Code: AAAAA01180

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G2G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: CENTRAL VALLEY DPS LISTED AS THREATENED. SANTA BARBARA & SONOMA COUNTIES DPS LISTED AS ENDANGERED.
Micro: NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS & VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING

Occurrence No. 485	Map Index: 42796	EO Index: 42796	Dates Last Seen
Occ Rank: Good			Element: 2006-05-12
Origin: Natural/Native occurrence			Site: 2006-06-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-02-14

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.21351° / -121.96751°	UTM: Zone-10 N4230008 E590387	Area: 0.7 acres	Elevation: 100 ft	Mapping Precision: SPECIFIC	Symbol Type: POLYGON	Township: 04N	Range: 01W	Section: 10	Qtr: NW
						Meridian: M			

Location: POTRERO HILLS, 1 MILE SOUTH OF HIGHWAY 12, SE OF FAIRFIELD
Location Detail: POND 1, WHICH IS 1 OF 7 STOCK PONDS LOCATED IN A VALLEY ENVELOPED WITHIN THE POTRERO HILLS. ADULT CTS HAVE BEEN OBSERVED THROUGHOUT SPRING BRANCH CREEK VALLEY. 1999 OBSERVATION IN UPLAND AREAS.
Ecological: POND 1 IS A FORMER QUARRY POND; HABITAT SURROUNDING POND CONSISTS OF GRAZED NON-NATIVE GRASSLAND; SURROUNDED BY OPEN SPACE AND A LANDFILL.
Threat: THREATENED BY A PROPOSED LANDFILL EXPANSION.
General: 1 ADULT/4 SUBADULTS OBSERVED 18 JAN 1999. ADULT OBS 4 JAN 2000, & 6 OTHERS IN BURROWS/UNDER DEBRIS IN THE VICINITY. 47 LARVAE OBS 8 APR 2003. 7 LARVAE OBS ON 14 MAY 2004. 77 & 38 LARVAE CAPTURED ON 28 MAR & 12 MAY 2006. NONE OBS 7 JUN 2006

Owner/Manager: PVT

Occurrence No. 547	Map Index: 45867	EO Index: 45867	Dates Last Seen
Occ Rank: Unknown			Element: 2007-02-26
Origin: Natural/Native occurrence			Site: 2007-02-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-06-06

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27709° / -121.82823°	UTM: Zone-10 N4237209 E602491	Area:	Elevation: 23 ft	Mapping Precision: NON-SPECIFIC	Symbol Type: POLYGON	Township: 05N	Range: 01E	Section: 14	Qtr: XX
						Meridian: M			

Location: CALHOUN CUT (BARKER SLOUGH) ECOLOGICAL RESERVE. EAST OF FAIRFIELD, 0.6 AIR MILES SSW OF DOZIER.
Location Detail: SOUTHWEST OF THE INTERSECTION OF COOK ROAD AND RAILROAD CROSSING.
General: 207 ADULTS CAPTURED IN 16, 33 FOOT DRIFT FENCE ARRAYS WITH A PIT FALL TRAP AT EACH END, BETWEEN 14 NOV 2006 & 26 FEB 2007. ARRAYS RUN PER USFWS SURVEY PROTOCOLS. CAS# 178446, LARVA COLLECTED 2 APR 1983 BY D. MUTH & L. SPENCER (DFG).

Owner/Manager: DFG-CALHOUN CUT ER

Occurrence No. 601	Map Index: 46378	EO Index: 46378	Dates Last Seen
Occ Rank: Unknown			Element: 1990-04-29
Origin: Natural/Native occurrence			Site: 1990-04-29
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-07-18

Quad Summary: Birds Landing (3812127/481A), Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25043° / -121.84741°	UTM: Zone-10 N4234229 E600850	Radius: 1/5 mile	Elevation: 25 ft	Mapping Precision: NON-SPECIFIC	Symbol Type: POINT	Township: 05N	Range: 01E	Section: 27	Qtr: XX
						Meridian: M			

Location: ABOUT 0.6 MI NORTHEAST OF CREED. VERNAL POOLS ON BOTH SIDES OF THE RR TRACKS.
Ecological: VERNAL POOLS
General: SHAFFER SITES 73 AND 74 . CTS OBSERVED 29 APR 1990.
Owner/Manager: UNKNOWN

Ambystoma californiense

California tiger salamander

Element Code: AAAAA01180

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G2G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: CENTRAL VALLEY DPS LISTED AS THREATENED. SANTA BARBARA & SONOMA COUNTIES DPS LISTED AS ENDANGERED.
Micro: NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS & VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING

Occurrence No. 828	Map Index: 60705	EO Index: 60741	Dates Last Seen
Occ Rank: Fair			Element: 2005-03-08
Origin: Natural/Native occurrence			Site: 2005-03-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-03-28

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.29626° / -121.96218°	Township: 05N
UTM: Zone-10 N4239196 E590750	Range: 01W
Area:	Section: 10
Elevation: 100 ft	Qtr: NW
Mapping Precision: NON-SPECIFIC	
Symbol Type: POLYGON	Meridian: M

Location: 1.5 MILES NW OF TRAVIS FIELD, TRAVIS AIR FORCE BASE
Ecological: HABITAT CONSISTS OF NON-NATIVE GRASSLAND, WITH MAN-MADE POOLS AND SHALLOW, NATURAL POOLS.
General: 2 LARVAE OBSERVED IN A LARGE, MAN-MADE POOL ON 8 MAR 2005.
Owner/Manager: UNKNOWN

Occurrence No. 872	Map Index: 63832	EO Index: 63927	Dates Last Seen
Occ Rank: Good			Element: 2001-07-06
Origin: Natural/Native occurrence			Site: 2001-07-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-01-31

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.21237° / -121.95933°	Township: 04N
UTM: Zone-10 N4229891 E591105	Range: 01W
Area: 2.0 acres	Section: 10
Elevation: 200 ft	Qtr: XX
Mapping Precision: SPECIFIC	
Symbol Type: POLYGON	Meridian: M

Location: POTRERO HILLS, 1.05 MILE SOUTH OF HIGHWAY 12, SE OF FAIRFIELD
Location Detail: POND 2, WHICH IS 1 OF 7 STOCK PONDS LOCATED IN A VALLEY ENVELOPED WITHIN THE POTRERO HILLS.
Ecological: HABITAT SURROUNDING POND CONSISTS OF GRAZED NON-NATIVE GRASSLAND; SURROUNDED BY OPEN SPACE AND A LANDFILL.
Threat: THREATENED BY A PROPOSED LANDFILL EXPANSION.
General: A SINGLE LARVA OBSERVED IN POND 2 DURING MAR 2000. EGGS OBSERVED IN POND 2 EARLY IN 2001 SEASON, BUT ONLY A FEW LARVAE WERE FOUND WHEN POND WAS SAMPLED LATER IN THE SEASON.
Owner/Manager: PVT

Occurrence No. 873	Map Index: 63833	EO Index: 63928	Dates Last Seen
Occ Rank: Good			Element: 2006-06-07
Origin: Natural/Native occurrence			Site: 2006-06-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-02-14

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.20973° / -121.96029°	Township: 04N
UTM: Zone-10 N4229597 E591023	Range: 01W
Area: 0.5 acres	Section: 10
Elevation: 120 ft	Qtr: NE
Mapping Precision: SPECIFIC	
Symbol Type: POLYGON	Meridian: M

Location: POTRERO HILLS, 1.3 MILES SOUTH OF HIGHWAY 12, SE OF FAIRFIELD
Location Detail: POND 3, WHICH IS 1 OF 7 STOCK PONDS LOCATED IN A VALLEY ENVELOPED WITHIN THE POTRERO HILLS. POND 3 IS A LARGE STOCK POND THAT SUPPORTS LARGE NUMBERS OF LARVAE EVERY YEAR. ADULT CTS HAVE BEEN OBSERVED THROUGHOUT SPRING VALLEY CREEK WATERSHED
Ecological: HABITAT SURROUNDING POND CONSISTS OF GRAZED NON-NATIVE GRASSLAND; SURROUNDED BY OPEN SPACE AND A LANDFILL.
Threat: THREATENED BY A PROPOSED LANDFILL EXPANSION.
General: 10'S TO 100'S OF LARVAE OBSERVED IN POND 3 DURING MAR AND JUN 2000. NO LARVAE OBSERVED IN POND 3 DURING 2001. 261 LARVAE WERE CAPTURED ON 8 APR 2003. 5 LARVAE CAPTURED ON 28 MAR, 31 CAPTURED ON 12 MAY & 12 CAPTURED ON 7 JUN 2006.
Owner/Manager: PVT

Ambystoma californiense

California tiger salamander

Element Code: AAAAA01180

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G2G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: CENTRAL VALLEY DPS LISTED AS THREATENED. SANTA BARBARA & SONOMA COUNTIES DPS LISTED AS ENDANGERED.
Micro: NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS & VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING

Occurrence No. 874	Map Index: 63834	EO Index: 63929	Dates Last Seen
Occ Rank: Good			Element: 2006-05-12
Origin: Natural/Native occurrence			Site: 2006-06-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-02-14

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.20582° / -121.95994°	Township: 04N
UTM: Zone-10 N4229163 E591059	Range: 01W
Radius: 80 meters	Section: 10
Elevation: 150 ft	Qtr: SE
Mapping Precision: SPECIFIC	Meridian: M
Symbol Type: POINT	

Location: POTRERO HILLS, 1.6 MILES SOUTH OF HIGHWAY 12, SE OF FAIRFIELD
Location Detail: POND 5, WHICH IS 1 OF 7 STOCK PONDS LOCATED IN A VALLEY ENVELOPED WITHIN THE POTRERO HILLS. POND 5 IS A LARGE STOCK POND THAT SUPPORTS LARGE NUMBERS OF LARVAE EVERY YEAR. ADULT CTS HAVE BEEN OBSERVED THROUGHOUT SPRING VALLEY CREEK WATERSHED
Ecological: HABITAT SURROUNDING POND CONSISTS OF GRAZED NON-NATIVE GRASSLAND; SURROUNDED BY OPEN SPACE AND A LANDFILL.
Threat: THREATENED BY A PROPOSED LANDFILL EXPANSION.
General: 10'S TO 100'S OF LARVAE OBSERVED IN MAR AND JUN 2000. 1000'S OF CTS LARVAE OBS 30 MAR 2001. 160 LARVAE CAPTURED 8 APR 2003. 118 LARVAE CAPTURED ON 14 MAY 2004. 134 LARVAE CAPTURED ON 28 MAR, 117 CAPTURED ON 12 MAY 2006. NONE OBS 7 JUN 2006.

Owner/Manager: PVT

Occurrence No. 875	Map Index: 63835	EO Index: 63930	Dates Last Seen
Occ Rank: Good			Element: 2006-05-12
Origin: Natural/Native occurrence			Site: 2006-05-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-02-14

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.20195° / -121.95145°	Township: 04N
UTM: Zone-10 N4228742 E591807	Range: 01W
Area: 2.1 acres	Section: 11
Elevation: 250 ft	Qtr: SW
Mapping Precision: SPECIFIC	Meridian: M
Symbol Type: POLYGON	

Location: POTRERO HILLS, 1.8 MILES SOUTH OF HIGHWAY 12, SE OF FAIRFIELD
Location Detail: POND 7, IS 1 OF 7 STOCK PONDS LOCATED IN A VALLEY ENVELOPED WITHIN POTRERO HILLS. POND 7 IS A LARGE STOCK POND THAT SUPPORTS LARGE NUMBERS OF LARVAE EVERY YEAR. ADULT CTS HAVE BEEN OBSERVED THROUGHOUT SPRING BRANCH CREEK VALLEY TO THE NORTH
Ecological: HABITAT SURROUNDING POND CONSISTS OF HEAVILY-GRAZED NON-NATIVE GRASSLAND; SURROUNDED BY OPEN SPACE AND A LANDFILL TO THE WEST.
Threat: THREATENED BY A PROPOSED LANDFILL EXPANSION.
General: 600 LARVAE WERE CAPTURED ON 8 APR 2003. 130 LARVAE CAPTURED ON 14 MAY 2004. 64 LARVAE CAPTURED ON 12 MAY 2006.

Owner/Manager: PVT

Ambystoma californiense

California tiger salamander

Element Code: AAAAA01180

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G2G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: CENTRAL VALLEY DPS LISTED AS THREATENED. SANTA BARBARA & SONOMA COUNTIES DPS LISTED AS ENDANGERED.

Micro: NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS & VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING

Occurrence No. 876	Map Index: 64134	EO Index: 64229	Dates Last Seen
Occ Rank: Fair			Element: 1999-02-10
Origin: Natural/Native occurrence			Site: 1999-02-10
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-03-06

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.28418° / -121.94649°	Township: 05N
UTM: Zone-10 N4237871 E592137	Range: 01W
Area:	Section: 14
Elevation: 140 ft	Qtr: NW
Mapping Precision: NON-SPECIFIC	Meridian: M
Symbol Type: POLYGON	

Location: ON THE NORTH EDGE OF TRAVIS AFB

Ecological: HABITAT CONSISTS OF GRAZED ANNUAL GRASSLAND. PORTIONS DEVELOPED INTO NEW BASE HOUSING, WITH SOME OPEN SPACE REMAINING.

Threat: THREATENED BY DEVELOPMENT (THIS SITE WAS SUBSEQUENTLY DEVELOPED INTO BASE HOUSING).

General: 1 DEAD ADULT OBSERVED ON 10 FEB 1999.

Owner/Manager: DOD-TRAVIS AFB

Occurrence No. 883	Map Index: 64470	EO Index: 64549	Dates Last Seen
Occ Rank: Good			Element: 2006-03-13
Origin: Natural/Native occurrence			Site: 2006-03-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-02-26

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.28508° / -121.91944°	Township: 05N
UTM: Zone-10 N4237998 E594502	Range: 01W
Radius: 80 meters	Section: 13
Elevation: 70 ft	Qtr: NE
Mapping Precision: SPECIFIC	Meridian: M
Symbol Type: POINT	

Location: NE OF TRAVIS FIELD, 7 MILES NE OF FAIRFIELD

Ecological: HABITAT CONSISTS OF A LARGE MAN-MADE POOL SURROUNDED BY NON-NATIVE GRASSLAND WITH A GENTLE MOUND AND SWALE TOPOGRAPHY. SHALLOW NATURAL POOLS AND AN INTERMITTENT STREAM ARE ALSO PRESENT NEARBY.

General: 1 LARVA OBSERVED ON 13 MAR 2006.

Owner/Manager: PVT

Occurrence No. 889	Map Index: 66597	EO Index: 66736	Dates Last Seen
Occ Rank: Fair			Element: 2006-03-22
Origin: Natural/Native occurrence			Site: 2006-03-22
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-10-04

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.28463° / -121.95627°	Township: 05N
UTM: Zone-10 N4237912 E591282	Range: 01W
Radius: 80 meters	Section: 15
Elevation: 82 ft	Qtr: NE
Mapping Precision: SPECIFIC	Meridian: M
Symbol Type: POINT	

Location: 0.3 MILE NE OF VANDEN HIGH SCHOOL, FAIRFIELD.

Location Detail: POND IS THE SOUTHERNMOST OF THREE PONDS FOUND ALONG A RAISED RAILROAD TRACK BERM; NO CTS WERE FOUND IN THE OTHER PONDS.

Ecological: HABITAT CONSISTS OF A MAN-MADE POND LOCATED ALONG THE WEST SIDE OF A RAISED RAILROAD TRACK BERM; POND IS ~40' X 20', WITH A MAXIMUM PONDING DEPTH OF ~2', AND THE WATER WAS MURKY. CRAWDADS AND MOSQUITO FISH WERE ALSO CAPTURED DURING SEINING.

Threat: THREATENED BY FUTURE DEVELOPMENT OF THE AREA.

General: 3 LARVAE WERE CAPTURED USING A SEINE ON 22 MAR 2006.

Owner/Manager: UNKNOWN

Ambystoma californiense

California tiger salamander

Element Code: AAAAA01180

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G2G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: CENTRAL VALLEY DPS LISTED AS THREATENED. SANTA BARBARA & SONOMA COUNTIES DPS LISTED AS ENDANGERED.
Micro: NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS & VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING

Occurrence No. 940	Map Index: 64319	EO Index: 68397	Dates Last Seen
Occ Rank: Fair			Element: 2004-11-29
Origin: Natural/Native occurrence			Site: 2004-11-29
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-02-26

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.28697° / -121.91476°	Township: 05N
UTM: Zone-10 N4238213 E594909	Range: 01W
Radius: 80 meters	Section: 12
Elevation: 60 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: TRAVIS AFB, AT INTERSECTION OF MERIDIAN ROAD AND RAILROAD TRACKS.
Location Detail: MAPPED ACCORDING TO LAT/LONG COORDINATES AND MAP PROVIDED BY SOURCE.
Ecological: SHALLOW TURBID POOL AREA ALONG THE SOUTH SIDE OF THE RAILROAD TRACKS. NO VEGETATION OBSERVED. VERNAL POOLS/SEASONAL WETLANDS IN ADJACENT GRASSLANDS.
General: 1 ADULT OBSERVED BY D. CHRISTOPHER ROGERS DURING VERNAL POOL INVERTEBRATE SURVEY ON 29 NOV 2004. SPECIES NOT OBSERVED DURING SUBSEQUENT VISITS TO SITE; ANIMAL PRESUMED TO BE IN TRANSIT.
Owner/Manager: DOD-TRAVIS AFB

Occurrence No. 995	Map Index: 70198	EO Index: 71068	Dates Last Seen
Occ Rank: Unknown			Element: 2002-05-13
Origin: Natural/Native occurrence			Site: 2002-05-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-15

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26403° / -121.87804°	Township: 05N
UTM: Zone-10 N4235705 E598152	Range: 01E
Area: 5.0 acres	Section: 21
Elevation: 32 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POLYGON	

Location: 2.4 MILES NW OF THE INTERSECTION OF CREED ROAD AND GOOSE HAVEN ROAD, ~ 3MILES EAST OF TRAVIS FIELD.
Location Detail: LARRY SERPA'S POOL 3
Ecological: HABITAT CONSISTS OF A VERNAL POOL.
General: UNKNOWN NUMBER/LIFESTAGE OBSERVED ON 13 MAY 2002.
Owner/Manager: UNKNOWN

Occurrence No. 996	Map Index: 70210	EO Index: 71070	Dates Last Seen
Occ Rank: Unknown			Element: 2002-03-25
Origin: Natural/Native occurrence			Site: 2002-03-25
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-16

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26010° / -121.87180°	Township: 05N
UTM: Zone-10 N4235276 E598703	Range: 01E
Area: 15.0 acres	Section: 21
Elevation: 32 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POLYGON	

Location: 2 MILES NW OF THE INTERSECTION OF CREED ROAD AND GOOSE HAVEN ROAD, ~ 3MILES EAST OF TRAVIS FIELD.
Location Detail: LARRY SERPA'S POOL 4
Ecological: HABITAT CONSISTS OF A VERNAL POOL.
General: UNKNOWN NUMBER/LIFESTAGE OBSERVED ON 25 MAR 2002.
Owner/Manager: UNKNOWN

Ambystoma californiense

California tiger salamander

Element Code: AAAAA01180

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G2G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: CENTRAL VALLEY DPS LISTED AS THREATENED. SANTA BARBARA & SONOMA COUNTIES DPS LISTED AS ENDANGERED.
Micro: NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS & VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING

Occurrence No. 997	Map Index: 61647	EO Index: 71071	Dates Last Seen
Occ Rank: Unknown			Element: 2002-05-13
Origin: Natural/Native occurrence			Site: 2002-05-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-15

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.26016° / -121.89766°	Township: 05N
UTM: Zone-10 N4235255 E596440	Range: 01E
Area: 4.8 acres	Section: 20
Elevation: 37 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: 1 MILE EAST OF MERIDIAN ROAD, ~5 MILES SW OF DOZIER.

Location Detail: LARRY SERPA'S POOL 11

Ecological: HABITAT CONSISTS OF A VERNAL POOL.

General: UNKNOWN NUMBER/LIFESTAGE OBSERVED ON 13 MAY 2002.

Owner/Manager: UNKNOWN

Occurrence No. 998	Map Index: 61648	EO Index: 71074	Dates Last Seen
Occ Rank: Unknown			Element: 2002-05-13
Origin: Natural/Native occurrence			Site: 2002-05-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-31

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.25712° / -121.90577°	Township: 05N
UTM: Zone-10 N4234910 E595735	Range: 01E
Area: 21.7 acres	Section: 30
Elevation: 47 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: 0.5 MILE EAST OF MERIDIAN ROAD, ~5 MILES SW OF DOZIER.

Location Detail: LARRY SERPA'S POOL 12

Ecological: HABITAT CONSISTS OF A VERNAL POOL.

General: UNKNOWN NUMBER/LIFE STAGE OBSERVED ON 13 MAY 2002.

Owner/Manager: UNKNOWN

Occurrence No. 999	Map Index: 70200	EO Index: 71075	Dates Last Seen
Occ Rank: Unknown			Element: 2002-02-15
Origin: Natural/Native occurrence			Site: 2002-02-15
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-15

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.24728° / -121.88071°	Township: 05N
UTM: Zone-10 N4233844 E597940	Range: 01E
Area: 13.0 acres	Section: 29
Elevation: 36 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: ~4.3 MILES SW OF DOZIER.

Location Detail: LARRY SERPA'S POOL 15 AND 16

Ecological: HABITAT CONSISTS OF VERNAL POOLS.

General: UNKNOWN NUMBER/LIFESTAGE OBSERVED ON 15 FEB 2002.

Owner/Manager: UNKNOWN

Ambystoma californiense

California tiger salamander

Element Code: AAAAA01180

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G2G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: CENTRAL VALLEY DPS LISTED AS THREATENED. SANTA BARBARA & SONOMA COUNTIES DPS LISTED AS ENDANGERED.
Micro: NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS & VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING

Occurrence No. 1000	Map Index: 70201	EO Index: 71076	Dates Last Seen
Occ Rank: Unknown			Element: 2002-02-15
Origin: Natural/Native occurrence			Site: 2002-02-15
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-15

Quad Summary: Denverton (3812128/481B), Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.25070° / -121.88447°	Township: 05N
UTM: Zone-10 N4234220 E597606	Range: 01E
Area: 9.0 acres	Section: 29
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: ~4.4 MILES SW OF DOZIER.
Location Detail: LARRY SERPA'S POOL 18
Ecological: HABITAT CONSISTS OF VERNAL POOL.
General: UNKNOWN NUMBER/LIFESTAGE OBSERVED ON 15 FEB 2002.
Owner/Manager: UNKNOWN

Occurrence No. 1001	Map Index: 61673	EO Index: 71077	Dates Last Seen
Occ Rank: Unknown			Element: 2002-05-13
Origin: Natural/Native occurrence			Site: 2002-05-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-15

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.27269° / -121.87934°	Township: 05N
UTM: Zone-10 N4236665 E598026	Range: 01E
Area: 22.3 acres	Section: 17
Elevation: 34 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: ~3.4 MILES WSW OF DOZIER.
Location Detail: LARRY SERPA'S POOL 24
Ecological: HABITAT CONSISTS OF VERNAL POOL.
General: UNKNOWN NUMBER/LIFESTAGE OBSERVED ON 13 MAY 2002.
Owner/Manager: UNKNOWN

Occurrence No. 1002	Map Index: 61676	EO Index: 71079	Dates Last Seen
Occ Rank: Unknown			Element: 2002-04-02
Origin: Natural/Native occurrence			Site: 2002-04-02
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-31

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.26705° / -121.85667°	Township: 05N
UTM: Zone-10 N4236064 E600017	Range: 01E
Radius: 80 meters	Section: 22
Elevation: 32 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: ~2.5 MILES SW OF DOZIER.
Location Detail: LARRY SERPA'S POOL 30. POOL DOES NOT SHOW ON TOPO MAP; LOCATION TAKEN FROM UTM COORDINATES IN SOURCE DOCUMENT TABLE.
Ecological: HABITAT CONSISTS OF A VERNAL POOL WITH AN IRREGULAR MARGIN.
General: UNKNOWN NUMBER/LIFESTAGE OBSERVED ON 2 APR 2002.
Owner/Manager: UNKNOWN

Ammodramus savannarum

grasshopper sparrow

Element Code: ABPBXA0020

Status _____	NDDB Element Ranks _____	Other Lists _____
Federal: None	Global: G5	CDFG Status: SC
State: None	State: S2	

Habitat Associations _____

General: DENSE GRASSLANDS ON ROLLING HILLS, LOWLAND PLAINS, IN VALLEYS & ON HILLSIDES ON LOWER MOUNTAIN SLOPES.
Micro: FAVORS NATIVE GRASSLANDS WITH A MIX OF GRASSES, FORBS & SCATTERED SHRUBS. LOOSELY COLONIAL WHEN NESTING.

Occurrence No.: 16	Map Index: 69694	EO Index: 70479	Dates Last Seen _____
Occ Rank: Fair			Element: 2007-06-19
Origin: Natural/Native occurrence			Site: 2007-06-19
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-26

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.37841° / -121.73067°	Township: 06N
UTM: Zone-10 N4248565 E610870	Range: 02E
Radius: 80 meters	Mapping Precision: SPECIFIC
Elevation: 240 ft	Symbol Type: POINT
	Section: 11 Qtr: SW
	Meridian: M

Location: WEST SIDE OF ETZEL ROAD, 0.4 MILE NORTH OF DELHI ROAD, SE OF DIXON.

Ecological: HABITAT CONSISTS OF NON-NATIVE GRASSLAND/AGRICULTURE.

General: 1 ADULT OBSERVED ON 19 JUN 2007. THIS SPECIES HAS BEEN OBSERVED BY SEVERAL PEOPLE IN THIS AREA WITHIN THE PAST WEEK, WHILE SEARCHING FOR A LARK BUNTING REPORTED HERE.

Owner/Manager: UNKNOWN

Andrena blennospermatis

Blennosperma vernal pool andrenid bee

Element Code: IIHYM35030

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CDFG Status:
State: None	State: S2	

Habitat Associations

General: THIS BEE IS OLIGOLECTIC ON VERNAL POOL BLENNOSPERMA.
Micro: BEES NEST IN THE UPLANDS AROUND VERNAL POOLS.

Occurrence No. 10	Map Index: 59380	EO Index: 59416	Dates Last Seen
Occ Rank: Unknown			Element: 19XX-XX-XX
Origin: Natural/Native occurrence			Site: 19XX-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-01-18

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.31145° / -121.82199°	Township: 05N
UTM: Zone-10 N4241029 E602988	Range: 01E
Radius: 1 mile	Section: 01
Elevation: 30 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: 8 MILES SOUTH OF DIXON.
Ecological: THIS SPECIES IS OLIGOLECTIC ON VERNAL POOL FLOWERS, ESPECIALLY BLENNOSPERMA.
General: NO ADDITIONAL COLLECTING INFORMATION GIVEN.
Owner/Manager: UNKNOWN

Occurrence No. 11	Map Index: 10559	EO Index: 59418	Dates Last Seen
Occ Rank: Unknown			Element: 1993-03-18
Origin: Natural/Native occurrence			Site: 1993-03-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-07-07

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26903° / -121.82215°	Township: 05N
UTM: Zone-10 N4236321 E603034	Range: 01E
Radius: 1 mile	Section: 24
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: N
Symbol Type: POINT	

Location: JEPSON PRAIRIE PRESERVE, 11 MILES SOUTH OF DIXON.
Ecological: THIS BEE IS OLIGOLECTIC ON VERNAL POOL FLOWERS, ESPECIALLY BLENNOSPERMA.
General: FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONSERVATION EASEMENT. MARKED BEES WERE OBSERVED TO FORAGE ALMOST ENTIRELY WITHIN A SINGLE FLOWER PATCH.
Owner/Manager: SOLANO LAND TRUST

Anthicus antiochensis

Antioch Dunes anthicid beetle

Element Code: IICOL49020

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1	CDFG Status:
State: None	State: S1	

Habitat Associations

General: EXTIRPATED FROM ANTIOCH DUNES BUT PRESENT IN SEVERAL LOCALITIES ALONG THE SACRAMENTO AND FEATHER RIVERS.
Micro:

Occurrence No. 2	Map Index: 57250	EO Index: 57266	Dates Last Seen
Occ Rank: Unknown			Element: 1987-06-13
Origin: Natural/Native occurrence			Site: 1987-06-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-10-08

Quad Summary: Rio Vista (3812126/480B)
County Summary: Solano

Lat/Long: 38.18273° / -121.68784°	Township: 04N
UTM: Zone-10 N4226904 E614919	Range: 03E
Radius: 3/5 mile	Section: 19
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: DREDGE DISPOSAL SITE ABOUT 0.5 MI INLAND FROM THE SACRAMENTO RIVER AT RM 13.8. JUST NORTH OF RIO VISTA AIRPORT.
Ecological: DREDGED MATERIAL DISPOSAL SITE
General: COLLECTED IN PITFALL TRAPS. 23 ADULTS COLLECTED 30 MAY 1987 IN 12 TRAPS, 83 COLLECTED 13 JUN 1987 IN 9 TRAPS.
Owner/Manager: STATE (RECLAMATION BOARD)

Anthicus sacramento

Sacramento anthicid beetle

Element Code: IICOL49010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1	CDFG Status:
State: None	State: S1	

Habitat Associations

General: RESTRICTED TO SAND DUNE AREAS OF THE SACRAMENTO-SAN JOAQUIN DELTA.
Micro: INHABIT SAND SLIPFACES AMONG BAMBOO AND WILLOW BUT MAY NOT DEPEND ON PRESENCE OF THESE PLANT SPECIES.

Occurrence No. 1	Map Index: 10897	EO Index: 12141	Dates Last Seen
Occ Rank: Unknown			Element: 1977-06-27
Origin: Natural/Native occurrence			Site: 1977-06-27
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-10-05

Quad Summary: Isleton (3812125/480A), Rio Vista (3812126/480B)
County Summary: Sacramento

Lat/Long: 38.17458° / -121.63030°	Township: 04N
UTM: Zone-10 N4226072 E619972	Range: 03E
Radius: 1 mile	Section: 22
Elevation: 15 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: WEST END OF GRAND ISLAND, 1 MI W OF ISLETON.
General: TYPE LOCALITY; TYPE SPECIMEN DEPOSITED AT CAS. 2 PARATYPES AND ONE NON-TYPE SPECIMEN DEPOSITED IN THE CALIFORNIA STATE COLLECTION OF ARTHROPODS (CDFA).
Owner/Manager: UNKNOWN

Occurrence No. 2	Map Index: 10835	EO Index: 14460	Dates Last Seen
Occ Rank: Unknown			Element: 1974-08-21
Origin: Natural/Native occurrence			Site: 1979-09-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1989-08-11

Quad Summary: Rio Vista (3812126/480B)
County Summary: Solano

Lat/Long: 38.13510° / -121.69802°	Township: 03N
UTM: Zone-10 N4221605 E614102	Range: 02E
Area: 164.9 acres	Section: 1
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: SAND DUNE AREA IMMEDIATELY S OF RIO VISTA.
Ecological: SAND IS DREDGE SPOIL.
General: 21 PARATYPES COLLECTED IN SAND DUNE AREA.
Owner/Manager: UNKNOWN

Occurrence No. 3	Map Index: 57250	EO Index: 57325	Dates Last Seen
Occ Rank: Unknown			Element: 2004-05-30
Origin: Natural/Native occurrence			Site: 2004-06-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-10-08

Quad Summary: Rio Vista (3812126/480B)
County Summary: Solano

Lat/Long: 38.18273° / -121.68784°	Township: 04N
UTM: Zone-10 N4226904 E614919	Range: 03E
Radius: 3/5 mile	Section: 19
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: DREDGE DISPOSAL SITE ABOUT 0.5 MI INLAND FROM THE SACRAMENTO RIVER AT RM 13.8. JUST NORTH OF RIO VISTA AIRPORT.
Ecological: DREDGED MATERIAL DISPOSAL SITE.
General: 3 ADULTS COLLECTED IN 12 PITFALL TRAPS ON 30 MAY 1987, NONE COLLECTED IN 9 TRAPS ON 13 JUN 1987.
Owner/Manager: STATE (RECLAMATION BOARD)

Ardea alba

great egret

Element Code: ABNGA04040

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: None	State: S4	

Habitat Associations

General: COLONIAL NESTER IN LARGE TREES.

Micro: ROOKERY SITES LOCATED NEAR MARSHES, TIDE-FLATS, IRRIGATED PASTURES, AND MARGINS OF RIVERS AND LAKES.

Occurrence No. 16	Map Index: 17134	EO Index: 12063	Dates Last Seen
Occ Rank: Good			Element: 1990-06-24
Origin: Natural/Native occurrence			Site: 1990-06-24
Presence: Presumed Extant			
Trend: Stable			Record Last Updated: 1990-11-14

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.28888° / -121.82541°	Township: 05N
UTM: Zone-10 N4238520 E602721	Range: 01E
Radius: 80 meters	Section: 11
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: 0.25 MI NNW OF HWY 113 INTERSECTION WITH COOK LANE, EAST OF TRAVIS AFB.

Location Detail: ROOKERY OF 20+ ADULTS OBSERVED IN A GROVE OF TALL EUCALYPTUS LOCATED BEHIND A RESIDENCE AND UTILITY BUILDINGS. 15-20 NESTS EASILY OBSERVED FROM ROADWAY.

Ecological: SURROUNDING HABITAT IS INDUSTRIAL/AGRICULTURAL.

Threat: SITE IS LOCATED ON A CEMENT COMPANY EQUIPMENT YARD; POTENTIAL THREAT OF HUMAN DISTURBANCE APPEARS HIGH.

General: VERY LITTLE ALTERNATE NESTING HABITAT OCCURS IN THE AREA. ADULTS WERE OBSERVED CONVERGING ON THE ROOKERY FROM VARIOUS DIRECTIONS.

Owner/Manager: PVT

Asio flammeus

short-eared owl

Element Code: ABNSB13040

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status: SC
State: None	State: S3	

Habitat Associations

General: FOUND IN SWAMP LANDS, BOTH FRESH AND SALT; LOWLAND MEADOWS; IRRIGATED ALFALFA FIELDS.
Micro: TULE PATCHES/TALL GRASS NEEDED FOR NESTING/DAYTIME SECLUSION. NESTS ON DRY GROUND IN DEPRESSION CONCEALED IN VEGETATION.

Occurrence No. 12	Map Index: 10076	EO Index: 14706	Dates Last Seen
Occ Rank: Unknown			Element: 1987-XX-XX
Origin: Natural/Native occurrence			Site: 1987-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1989-08-10

Quad Summary: Honker Bay (3812118/481C), Denverton (3812128/481B), Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.13569° / -121.97352°	Township: 04N
UTM: Zone-10 N4221368 E589957	Range: 01W
Area: 19,083.4 acres	Section: 4
Elevation:	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: GRIZZLY ISLAND WILDLIFE AREA.

Ecological: HABITAT IS COASTAL MARSH AND FLAT GRASSLAND.

General: 39 NESTS AND 130 INDIVIDUALS OBSERVED BY ROBERT MCLANDRESS DURING THE 1987 BREEDING SEASON.

Owner/Manager: DFG-GRIZZLY ISLAND WA

Astragalus tener var. ferrisiae

Ferris' milk-vetch

Element Code: PDFAB0F8R3

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G1T1 State: S1.1	CNPS List: 1B.1

Habitat Associations

General: MEADOWS, VALLEY AND FOOTHILL GRASSLAND.
Micro: SUBALKALINE FLATS ON OVERFLOW LAND IN THE CENTRAL VALLEY; USUALLY SEEN IN DRY, ADOBE SOIL. 5-75M.

Occurrence No. 6	Map Index: 22755	EO Index: 19963	Dates Last Seen
Occ Rank: None			Element: 1978-05-08
Origin: Natural/Native occurrence			Site: 2002-05-16
Presence: Possibly Extirpated			
Trend: Unknown			Record Last Updated: 2003-03-21

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.46128° / -121.65670°	Township: 07N
UTM: Zone-10 N4257851 E617198	Range: 03E
Radius: 1/5 mile	Section: 09
Elevation: 8 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: 1/4 MILE SOUTH OF SAXON.
Location Detail: AREA IMMEDIATELY SOUTH OF SAXON STATION PART OF THE DFG GLIDE TULE RANCH.
Ecological: VALLEY GRASSLAND AND SWALES. CAPAY SOIL, FLOODED WITH LASTHENIA GLABRATA, DOWNINGIA INSIGNIS, ALOOCARYA STIPITATA, ETC. AREA CURRENTLY CATTLE GRAZED (2002).
Threat: HABITAT DEGRADED; OVERGRAZED COW PASTURE. VERY WEEDY IN 2002.
General: COLLECTION BY CRAMPTON IN 1978 (#9579 AHUC) ORIGINAL SOURCE. SITE VISITED 3/21/02, 4/8/02, & 5/16/02, NO PLANTS FOUND. ACCORDING TO WITHAM, HABITAT PRESENT AND RELATIVELY NATURAL LANDSCAPE. WILL BE SURVEYED AGAIN IN 2003.

Owner/Manager: DFG-YOLO BASIN WA

Occurrence No. 7	Map Index: 22135	EO Index: 7756	Dates Last Seen
Occ Rank: Unknown			Element: 2002-03-19
Origin: Natural/Native occurrence			Site: 2002-03-19
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-03-21

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.35443° / -121.75855°	Township: 06N
UTM: Zone-10 N4245870 E608471	Range: 02E
Radius: 1/5 mile	Section: 21
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: 7.13 MILES SOUTHEAST OF DIXON, 0.25 MILE NORTH OF BUNKER.
Ecological: IN A VERNAL MEADOW. HABITAT PRESENT IN 2002.
Threat: AREAS ON EITHER SIDE OF BUNKER STATION ROAD USED AS CATTLE PASTURE.
General: HERBARIUM COLLECTION IS ONLY SOURCE OF INFORMATION FOR THIS SITE; SAYS "NOT COMMON." IN 2002 HABITAT PRESENT ON EAST SIDE OF BUNKER STATION ROAD NORTH OF BUNKER STATION, BUT NOT SURVEYED DUE TO PVT PROPERTY. NO PLANTS OBSERVED.

Owner/Manager: UNKNOWN

Occurrence No. 14	Map Index: 53728	EO Index: 53728	Dates Last Seen
Occ Rank: Fair			Element: 2003-04-26
Origin: Natural/Native occurrence			Site: 2003-04-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-03-03

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.43610° / -121.67069°	Township: 07N
UTM: Zone-10 N4255039 E616017	Range: 03E
Radius: 80 meters	Section: 20
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: PLAYA POOL ABOUT 1.4 AIRMILES NNE OF VAUGHN RANCH, GLIDE TULE ER, EAST OF THE SACRAMENTO NORTHERN CANAL, YOLO BYPASS.
Location Detail: MAPPED WITHIN THE NW 1/4 OF THE SW 1/4 OF SECTION 20.
Ecological: VERNAL POOL/GRASSLAND MOSAIC ON CAPAY-CLEAR LAKE SOIL. SOME PESCADERO CLAY. MESIC GRASSLAND ON MARGIN OF PLAYA POOL. ASSOCIATES INCLUDE LASTHENIA GLABRATA, LOLIUM MULTIFLORUM, HESPEREVAX CAULESCENS, AND POGOGYNE ZIZYPHOIDES.
General: 12 PLANTS SEEN IN 2003.
Owner/Manager: DPR-TULE ELK SR

Astragalus tener var. tener

alkali milk-vetch

Element Code: PDFAB0F8R1

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1T1	CNPS List: 1B.2
State: None	State: S1.1	

Habitat Associations

General: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.

Micro: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 1-170M.

Occurrence No. 20	Map Index: 24764	EO Index: 30169	Dates Last Seen
Occ Rank: Good			Element: 2006-04-25
Origin: Natural/Native occurrence			Site: 2006-04-25
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-01-03

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.22661° / -121.97093°	Township: 04N
UTM: Zone-10 N4231458 E590071	Range: 01W
Area: 5.4 acres	Section: 04
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: SOUTHWEST OF SCALLEY RD / KILLDEER RD INTERSECTION, SOUTHWEST OF TRAVIS AIR FORCE BASE.

Location Detail: PLANTS SCATTERED OVER VERNAL FLAT. LARGE AND SHOWY POPULATION EASILY OBSERVED FROM THE ROAD IN 2002. GRASSLAND BURNED IN 2003.

Ecological: VERNAL FLAT IN COW PASTURE. ASSOCIATES INCLUDE FRANKENIA GRANDIFOLIA, ORTHOCARPUS, PLAGIOBOTHRYIS, DOWNINGIA, MYOSURUS MINIMUS, ERYNGIUM, PLEUROPOGON CALIFORNICUS, PSILOCARPHUS, LASTHENIA CONJUGENS, ATRIPLEX JOAQUINIANA, AND L. PLATYCARPHA.

Threat: INVASIVE PLANTS, CATTLE GRAZING & TRAMPLING, NEARBY LANDFILL, POSSIBLE FUTURE DEVELOPMENT, DISKING, BURNING.

General: SEEN DURING 1992 SURVEY FOR LASTHENIA CONJUGENS. IN 2002 SITE OBSERVED THROUGH BINOCES; ABOUT 2000 PLANTS ON SW CORNER & ABOUT 200 IN SE CORNER. 500-750 OBSERVED IN 2004. A DEFINITE DECLINE IN 2006 WITH ~100 PLANTS.

Owner/Manager: PVT-SOLANO LANDFILL

Occurrence No. 21	Map Index: 24744	EO Index: 4691	Dates Last Seen
Occ Rank: Good			Element: 1994-03-25
Origin: Natural/Native occurrence			Site: 2002-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-07-02

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.30199° / -121.85816°	Township: 05N
UTM: Zone-10 N4239939 E599839	Range: 01E
Area: 28.6 acres	Section: 10
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: 4 KM (2.5 MI) WNW OF DOZIER.

Location Detail: SIX COLONIES WITHIN THE NW 1/4 OF SECTION 10, THE SW 1/4 OF THE SW 1/4 OF SECTION 3, AND THE NE 1/4 OF THE NE 1/4 OF SECTION 9.

Ecological: GROWING IN MESIC ALKALI AREAS AND IN VERNAL POOLS. ASSOCIATES INCLUDE DOWNINGIA PUSILLA, LEPIDIUM LATIPES, ELEOCHARIS MACROSTACHYA, LASTHENIA FREMONTII, ERYNGIUM ARISTULATUM, AND DISTICHLIS SPICATA. PRIMARILY ON SOLANO-PESCADERO SOILS.

Threat: CATTLE AND SHEEP GRAZING.

General: > 150 PLANTS SEEN IN 5 COLONIES IN 1994. SOME PERMANENT CATTLE PASTURE BUT CONDITION RELATIVELY GOOD. MOST NOT SEEN UNTIL AFTER SITE DISTURBED BY PIPELINE CONSTRUCTION. HABITAT PRESENT IN 2002, UNABLE TO ACCESS SITE TO SEE PLANTS.

Owner/Manager: PVT

Astragalus tener var. tener

alkali milk-vetch

Element Code: PDFAB0F8R1

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1T1	CNPS List: 1B.2
State: None	State: S1.1	

Habitat Associations

General: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.
Micro: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 1-170M.

Occurrence No. 22	Map Index: 24747	EO Index: 7663	Dates Last Seen
Occ Rank: Good			Element: 2003-04-12
Origin: Natural/Native occurrence			Site: 2003-04-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-03-08

Quad Summary: Dozier (3812137/498D), Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.27532° / -121.86058°	Township: 05N
UTM: Zone-10 N4236977 E599664	Range: 01E
Area: 333.1 acres	Section: 16
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: 4 KM (1.5 MI) WSW OF DOZIER.
Location Detail: MAPPED 3.2 KM (2 MI) DUE WEST OF OLCOTT. THREE VERNAL POOLS ALONG THE DIRT ROAD SEPARATING SECTIONS 15 AND 16. MORE PLANTS IN LG AREA IN SEC 16, 17.
Ecological: GROWING IN VERNAL POOLS. ASSOCIATES INCLUDE LEPIDIUM LATIPES, DESCHAMPSIA DANTHONIODES, LASTHENIA FREMONTII, PSILOCARPHUS BREVISSIMUS, DISTICHILIS SPICATA NANA, AND PHALARIS LEMMONII.
Threat: CATTLE GRAZING.
General: AREA IS UNDER PERMANENT CATTLE PASTURE BUT OVERALL CONDITION APPEARS TO BE RELATIVELY GOOD. WITHAM REPORTS PLANTS SEEN IN VICINITY IN 2002 BY BARBOUR ET AL AND TNC. 1000-2000 INDIVIDUALS OBSERVED IN 2003 IN SEC 16, 17.

Owner/Manager: PVT

Occurrence No. 23	Map Index: 24751	EO Index: 6815	Dates Last Seen
Occ Rank: Good			Element: 1991-05-07
Origin: Natural/Native occurrence			Site: 2002-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-07-02

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25688° / -121.85534°	Township: 05N
UTM: Zone-10 N4234936 E600148	Range: 01E
Area: 8.0 acres	Section: 22
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POLYGON	

Location: 4.5 KM (3 MI) SOUTHWEST OF DOZIER, 1 KM (0.7 MI) WEST OF RR TRACKS.
Location Detail: FOUND IN TWO VERNAL POOLS IN THE S 1/2 OF THE SW 1/4 OF SECTION 22.
Ecological: GROWING IN VERNAL POOLS. ASSOCIATES INCLUDE LEPIDIUM LATIPES, HORDEUM GENICULATUM, DISTICHILIS SPICATA NANA, CRESSA TRUXILLENIS VALLICOLA, LASTHENIA FREMONTII, L. PLATYCARPHA, AND PSILOCARPHUS BREVISSIMUS.
Threat: GRAZING MAY THREATEN.
General: FOUND IN TWO VERNAL POOLS IN 1991. SITE NOT SURVEYED IN 2002 DUE TO PVT LANDOWNER RESTRICTIONS. HABITAT PRESENT AND READILY OBSERVABLE FROM ROAD AND ADJACENT TNC RANCH. COLONIES PRESUMED EXTANT.

Owner/Manager: PVT

Astragalus tener var. tener

alkali milk-vetch

Element Code: PDFAB0F8R1

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G1T1 State: S1.1	CNPS List: 1B.2

Habitat Associations

General: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.
Micro: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 1-170M.

Occurrence No. 24	Map Index: 24754	EO Index: 6789	Dates Last Seen
Occ Rank: Unknown			Element: 1991-05-01
Origin: Natural/Native occurrence			Site: 2002-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1994-02-04

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25765° / -121.84308°	Township: 05N
UTM: Zone-10 N4235035 E601219	Range: 01E
Radius: 80 meters	Section: 22
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: 4 KM (2.4 MI) SOUTHWEST OF DOZIER ALONG THE RR TRACKS.
Location Detail: GROWING IN A POOL IN THE EXTREME SOUTHEAST CORNER OF SECTION 22, JUST WEST OF THE RR TRACKS.
Ecological: GROWING IN A VERNAL POOL IN ASSOCIATION WITH LEGENERE LIMOSA, DOWNINGIA PUSILLA, LEPIDIUM LATIPES, HORDEUM GENICULATUM, LASTHENIA FREMONTII, DESCHAMPSIA DANTHANOIDES, AND VULPIA BROMOIDES.
Threat: GRAZING.
General: SEEN IN 1991. SITE NOT SURVEYED IN 2002 DUE TO PVT LANDOWNER RESTRICTIONS. HABITAT PRESENT AND READILY OBSERVABLE FROM ROAD AND ADJACENT JEPSON PRAIRIE PRESERVE. COLONIES PRESUMED EXTANT.

Owner/Manager: PVT

Occurrence No. 25	Map Index: 24755	EO Index: 6788	Dates Last Seen
Occ Rank: Good			Element: 199X-XX-XX
Origin: Natural/Native occurrence			Site: 199X-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-01-03

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26725° / -121.83193°	Township: 05N
UTM: Zone-10 N4236113 E602181	Range: 01E
Radius: 80 meters	Section: 23
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: 1.5 KM (1 MI) SOUTHWEST OF OLCOTT, JUST EAST OF THE RR TRACKS.
Location Detail: FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONSERVATION EASEMENT.
Ecological: MOSTLY ON PESCADERO CLAY, VERNAL POOL MARGIN, OR VERNALLY WET GRASSLAND.
Threat: POSSIBLE SHEEP GRAZING ON THE PROPERTY.
General: APPROX. 15 PLANTS OBSERVED IN 1990. UNKNOWN NUMBER SEEN 1993-1998 DURING PIPELINE RESTORATION MONITORING. HABITAT PRESENT IN 2002.

Owner/Manager: SOLANO LAND TRUST

Astragalus tener var. tener

alkali milk-vetch

Element Code: PDFAB0F8R1

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1T1	CNPS List: 1B.2
State: None	State: S1.1	

Habitat Associations

General: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.

Micro: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 1-170M.

Occurrence No. 26	Map Index: 24758	EO Index: 6787	Dates Last Seen
Occ Rank: Good			Element: 2001-04-XX
Origin: Natural/Native occurrence			Site: 2001-04-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-01-03

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.27148° / -121.82177°	Township: 05N
UTM: Zone-10 N4236593 E603064	Range: 01E
Area: 26.2 acres	Section: 13
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POLYGON	

Location: AROUND NORTHERN MARGINS OF OLCOTT LAKE, 2 KM (1.2 MILES) SOUTHWEST OF DOZIER.

Location Detail: THREE COLONIES; NORTHWEST OF LAKE MARGIN ALONG RR TRACKS, NORTHEAST MARGIN OF LAKE 200 M EAST OF COOK LANE, AND JUST EAST OF COOK LANE 0.8 KM (0.5 MILE) SOUTH OF THE RR TRACKS.

Ecological: MOSTLY ON PESCADERO CLAY, VERNAL POOL MARGIN, OR VERNALLY WET GRASSLAND.

Threat: SHEEP GRAZING OCCURS ON A PORTION OF THE PROPERTY.

General: APPROX. 140 PLANTS OBSERVED IN 1990. FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONSERVATION EASEMENT. SMALL NUMBERS OF PLANTS SEEN IN 2001 ACCORDING TO WITHAM (2002).

Owner/Manager: SOLANO LAND TRUST

Occurrence No. 27	Map Index: 24761	EO Index: 6807	Dates Last Seen
Occ Rank: Good			Element: 1990-04-XX
Origin: Natural/Native occurrence			Site: 1990-04-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-01-03

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.25888° / -121.81342°	Township: 05N
UTM: Zone-10 N4235204 E603812	Range: 01E
Area: 17.8 acres	Section: 24
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: S
Symbol Type: POLYGON	

Location: 3 KM (2 MI) SOUTH OF DOZIER, JUST NORTH OF CALHOUN CUT.

Location Detail: FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONSERVATION EASEMENT.

Ecological: MOSTLY ON PESCADERO CLAY, VERNAL POOL MARGIN, OR VERNALLY WET GRASSLAND.

Threat: SHEEP GRAZING OCCURS ON A PORTION OF THE PROPERTY.

General: APPROX. 50 PLANTS OBSERVED IN TWO COLONIES IN 1990. WITHAM HAS SEEN SMALL NUMBERS OF PLANTS IN THIS GENERAL VICINITY SINCE INITIAL OBSERVATION, EXACT DATE UNKNOWN. CURRENTLY PROTECTED AS PART OF TNC'S JEPSON PRAIRIE PRESERVE.

Owner/Manager: SOLANO LAND TRUST

Astragalus tener var. tener

alkali milk-vetch

Element Code: PDFAB0F8R1

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G1T1 **CNPS List:** 1B.2
 State: None **State:** S1.1

Habitat Associations

General: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.
Micro: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 1-170M.

Occurrence No. 29 **Map Index:** 24743 **EO Index:** 8368 **Dates Last Seen** _____
Occ Rank: None **Element:** 1966-03-31
Origin: Natural/Native occurrence **Site:** 2002-03-19
Presence: Possibly Extirpated
Trend: Unknown **Record Last Updated:** 2008-01-02

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.35095° / -121.76792° **Township:** 06N
UTM: Zone-10 N4245473 E607657 **Range:** 02E
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 20 **Qtr:** XX
Elevation: 20 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST OF BUNKER STATION, NEAR INTERSECTION OF NORTON RD AND BINGHAMTON RD.

Ecological: GROWING ON CLAY SOILS.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1966 COLLECTION BY CRAMPTON. WITHAM CHECKED THIS VICINITY IN 1990 BUT NO PLANTS WERE OBSERVED. SURVEYED IN 2002, NO NATURAL HABITAT OR PLANTS OBSERVED.

Owner/Manager: UNKNOWN

Occurrence No. 30 **Map Index:** 24709 **EO Index:** 2457 **Dates Last Seen** _____
Occ Rank: None **Element:** 1896-05-15
Origin: Natural/Native occurrence **Site:** 1896-05-15
Presence: Possibly Extirpated
Trend: Unknown **Record Last Updated:** 2008-01-03

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.32825° / -121.96125° **Township:** 06N
UTM: Zone-10 N4242747 E590791 **Range:** 01W
Radius: 3/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 34 **Qtr:** XX
Elevation: 150 ft **Symbol Type:**POINT **Meridian:** M

Location: LITTLE OAK, NEAR VACAVILLE.

Location Detail: MAPPED IN THE VICINITY WHERE THE JEPSON FAMILY'S LITTLE OAK RANCH WAS LOCATED, EAST OF PEABODY RD AND SOUTH OF ALAMO

General: COLLECTED IN THIS AREA SEVERAL TIMES BY JEPSON BETWEEN 1891 AND 1896. WITHAM (2002) BELIEVES SITE IS PROBABLY EXTIRPATED. MOST OF THE IMMEDIATE VICINITY IS URBANIZED OR UNDER INTENSIVE AGRICULTURE.

Owner/Manager: UNKNOWN

Occurrence No. 31 **Map Index:** 24741 **EO Index:** 7754 **Dates Last Seen** _____
Occ Rank: None **Element:** 1978-05-08
Origin: Natural/Native occurrence **Site:** 2002-05-16
Presence: Possibly Extirpated
Trend: Unknown **Record Last Updated:** 2008-01-02

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.45952° / -121.65795° **Township:** 07N
UTM: Zone-10 N4257654 E617091 **Range:** 03E
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 17 **Qtr:** NE
Elevation: 15 ft **Symbol Type:**POINT **Meridian:** M

Location: 1/4 MILE SOUTH OF SAXON STATION.

Location Detail: MAPPED IN THE NE 1/4 OF THE NE 1/4 OF SECTION 17.

Ecological: GROWING IN A LARGE VERNAL MEADOW, ON CAPAY SOIL, WITH LASTHENIA GLABRATA, DOWNINGIA INSIGNIS, ALLOCARYA STIPITATA, BOISDUVALIA CLEISTOGAMA, PSILOCARPUS BREVISSIMUS, P. OREGANUS, MYOSURUS MINIMIS.

Threat: HABITAT DEGRADED; MOSTLY OVERGRAZED COW PASTURE.

General: ONLY SOURCE OF INFO IS COLLECTION BY CRAMPTON IN 1978 (#9578). WITHAM VISITED SITE IN MAR & APR 2002, DID NOT SEE PLANTS BUT BELIEVES SITE IS EXTANT. BITTMAN VISITED SITE 5/16/02, BUT NO PLANTS FOUND. WITHAM WILL RESURVEY IN 2003.

Owner/Manager: UNKNOWN

Astragalus tener var. tener

alkali milk-vetch

Element Code: PDFAB0F8R1

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1T1	CNPS List: 1B.2
State: None	State: S1.1	

Habitat Associations

General: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.

Micro: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 1-170M.

Occurrence No. 32	Map Index: 24742	EO Index: 7753	Dates Last Seen
Occ Rank: Good			Element: 2003-04-XX
Origin: Natural/Native occurrence			Site: 2003-04-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-01-03

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.45668° / -121.67393°	Township: 07N
UTM: Zone-10 N4257320 E615701	Range: 03E
Area: 4.2 acres	Mapping Precision: SPECIFIC
Elevation: 15 ft	Section: 17
	Meridian: M
	Qtr: NW
	Symbol Type: POLYGON

Location: 1 MILE SOUTHWEST OF SAXON STATION, 0.5 MILE WEST OF RR TRACKS, YOLO BYPASS AREA.

Location Detail: SEVERAL COLONIES MAPPED WITHIN THE NW 1/4 OF SECTION 17. 1960 COLLECTION BY CRAMPTON FROM 1.25 MILE SOUTHWEST OF SAXON STATION ALSO ATTRIBUTED TO THIS SITE.

Ecological: GROWING IN VALLEY GRASSLAND ON ADOBE SOIL, ALKALI VERNAL POOLS AND SWALES. DOMINATED BY LOLIUM MULTIFLORUM, LASTHENIA GLABRATA. ASSOC: LAYIA CHRYSANTHEMOIDES, BLENNOSPERMA NANUM, DOWNINGIA, ALOPECURUS HOWELLII, ET AL.

Threat: HABITAT DEGRADED. CONVERSION TO PASTURE. SOIL/VEG MODERATELY IMPACTED BY GRAZING, BUT OPEN AREAS CREATED BY GRAZING.

General: ORIGINAL SOURCE OF INFORMATION IS 1966 COLLECTION BY B. CRAMPTON IN DITCH ALONG ROAD. PLANTS FOUND IN APRIL 2002 BUT NOT ON 5/16/02. >100 PLANTS OBSERVED IN 2003 BETWEEN THIS & OCCURRENCES #64, #69 & #70.

Owner/Manager: UNKNOWN

Occurrence No. 33	Map Index: 24740	EO Index: 7746	Dates Last Seen
Occ Rank: None			Element: 1979-04-09
Origin: Natural/Native occurrence			Site: 2002-03-21
Presence: Extirpated			
Trend: Unknown			Record Last Updated: 2008-01-02

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo, Solano

Lat/Long: 38.49520° / -121.72071°	Township: 08N
UTM: Zone-10 N4261536 E611560	Range: 02E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 40 ft	Section: 35
	Meridian: M
	Qtr: XX
	Symbol Type: POLYGON

Location: SSE OF DAVIS ALONG TREMONT ROAD.

Location Detail: MAPPED ALONG TREMONT ROAD IN SECTIONS 34, 35, AND 36.

Ecological: GROWING ON A LEVELLED ALKALINE FLAT.

General: ONLY SOURCE OF INFORMATION ON THIS SITE IS 1979 COLLECTION BY B. CRAMPTON. WITHAM SEARCHED THE AREA IN 1990 BUT DID NOT FIND ANY PLANTS. IN 2002, WITHAM FOUND NO PLANTS AND NO NATURAL HABITAT ALONG TREMONT ROAD.

Owner/Manager: UNKNOWN

Astragalus tener var. tener

alkali milk-vetch

Element Code: PDFAB0F8R1

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1T1	CNPS List: 1B.2
State: None	State: S1.1	

Habitat Associations

General: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.
Micro: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 1-170M.

Occurrence No. 34	Map Index: 24738	EO Index: 19248	Dates Last Seen
Occ Rank: None			Element: 1959-04-13
Origin: Natural/Native occurrence			Site: 2002-03-21
Presence: Possibly Extirpated			Record Last Updated: 2008-01-14
Trend: Unknown			

Quad Summary: Dixon (3812147/498A), Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.45978° / -121.75096°	Township: 07N
UTM: Zone-10 N4257569 E608976	Range: 02E
Radius: 1 mile	Section: 16
Elevation: 50 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: 6 MILES SOUTH OF DAVIS.
Threat: AGRICULTURE.
General: ONLY SOURCE OF INFORMATION IS A 1959 COLLECTION BY B. CRAMPTON. WITHAM SEARCHED THE AREA IN 1990 AND 2002 BUT DID NOT OBSERVE ANY PLANTS. NO NATURAL HABITAT FOUND ALONG SIKES, HACKMAN, & TREMONT RDS; ALL AG LAND.
Owner/Manager: UNKNOWN

Occurrence No. 38	Map Index: 34144	EO Index: 6955	Dates Last Seen
Occ Rank: Good			Element: 2002-04-25
Origin: Natural/Native occurrence			Site: 2002-04-25
Presence: Presumed Extant			Record Last Updated: 2008-01-03
Trend: Unknown			

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.23954° / -122.05739°	Township: 05N
UTM: Zone-10 N4232813 E582489	Range: 02W
Radius: 80 meters	Section: 35
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: NEAR SUISUN, EAST OF LEDGEWOOD CREEK, ABOUT 0.33 AIRMILE NORTHWEST OF JUNCTION OF PENNSYLVANIA AVE AND CORDELIA ROAD.
Location Detail: WEST OF SUISUN AND SOUTH OF FAIRFIELD.
Ecological: SEASONALLY WET ANNUAL GRASSLAND, ON SILTY CLAY SOIL.
Threat: DEVELOPMENT.
General: ORIGINAL INFO IS 1886 COLLECTION BY E.L. GREENE. 10 PLANTS FOUND BY VOLLMAR IN 2002.
Owner/Manager: UNKNOWN

Occurrence No. 40	Map Index: 24735	EO Index: 6852	Dates Last Seen
Occ Rank: None			Element: 1922-04-21
Origin: Natural/Native occurrence			Site: 2002-03-19
Presence: Possibly Extirpated			Record Last Updated: 2008-01-03
Trend: Unknown			

Quad Summary: Fairfield North (3812231/499D), Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26500° / -122.00517°	Township: 05N
UTM: Zone-10 N4235686 E587028	Range: 01W
Radius: 1 mile	Section: 20
Elevation: 30 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: 3 MILES NORTHEAST OF SUISUN.
Location Detail: MAPPED ALONG SOUTHERN PACIFIC RR TRACKS AT TOLENAS.
Ecological: GROWING ON LOW SUBALKALINE FLATS.
General: ONLY SOURCE OF INFORMATION IS 1922 COLLECTION BY JEPSON. NO HABITAT PRESENT AND NO PLANTS OBSERVED IN 2002. PROBABLY EXTIRPATED.
Owner/Manager: UNKNOWN

Astragalus tener var. tener

alkali milk-vetch

Element Code: PDFAB0F8R1

Status: _____ NDDB Element Ranks: _____ Other Lists: _____
 Federal: None Global: G1T1 CNPS List: 1B.2
 State: None State: S1.1

Habitat Associations

General: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.
 Micro: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 1-170M.

Occurrence No. 44 Map Index: 24806 EO Index: 25844 Dates Last Seen: _____
 Occ Rank: Good Element: 2004-04-06
 Origin: Natural/Native occurrence Site: 2004-04-06
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2008-01-03

Quad Summary: Saxon (3812146/497B)
 County Summary: Yolo

Lat/Long: 38.48980° / -121.68505° Township: 08N
 UTM: Zone-10 N4260981 E614678 Range: 03E
 Area: 11.7 acres Mapping Precision: SPECIFIC Section: 31 Qtr: SE
 Elevation: 25 ft Symbol Type: POLYGON Meridian: M

Location: AIR FORCE COMMUNICATIONS FACILITY, SOUTH OF DAVIS.
 Location Detail: DAVIS COMMUNICATIONS ANNEX. EAST OF ROAD 104 AND BETWEEN ROADS 35 AND 36. MANY SMALL COLONIES MAPPED BY CNDDDB AS 5 POLYGONS.
 Ecological: ON PESCADERO SOIL ADJACENT TO PONDED AREAS, IN AREAS OF LOWER PLANT COVER. ASSOCIATES INCLUDE SEVERAL ALKALINE WETLAND SPECIES SUCH AS FRANKENIA, PLAGIOBOTHRYUS STIPITATA STIPITATA, AND POGOGYNE ZIZYPHOROIDES. OTHER RARE PLANTS ALSO HERE.
 Threat: COMPETITION FROM SALSOLA, LEPIDIUM LATIFOLIUM, ETC. HISTORIC DISKING, HERBICIDE USE, AND FIRE SUPPRESSION.
 General: 65 PLANTS OBSERVED OVER 2.5 ACRES IN 1993 IN THE SOUTHERNMOST POLYGON. NONE FOUND IN 1995, 1996, OR 2002. 912 OBSERVED IN 2004 IN THE 4 NORTHERN POLYGONS.

Owner/Manager: DOD-MCCLELLAN AFB

Occurrence No. 47 Map Index: 10073 EO Index: 12761 Dates Last Seen: _____
 Occ Rank: Unknown Element: 1893-04-03
 Origin: Natural/Native occurrence Site: 1893-04-03
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2008-01-02

Quad Summary: Elmira (3812138/498C)
 County Summary: Solano

Lat/Long: 38.28879° / -121.96247° Township: 05N
 UTM: Zone-10 N4238367 E590735 Range: 01W
 Radius: 1 mile Mapping Precision: NON-SPECIFIC Section: 10 Qtr: SW
 Elevation: 80 ft Symbol Type: POINT Meridian: M

Location: VANDEN STATION.
 Location Detail: VANDEN STATION = TRAINSTOP ABOUT 5 MILES SOUTH OF VACAVILLE.
 General: SITE IS BASED ON 2 1893 COLLECTIONS FROM THE SAME DATE.
 Owner/Manager: UNKNOWN

Occurrence No. 48 Map Index: 26313 EO Index: 4690 Dates Last Seen: _____
 Occ Rank: Good Element: 1994-03-24
 Origin: Natural/Native occurrence Site: 2002-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2008-01-02

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.27609° / -121.84696° Township: 05N
 UTM: Zone-10 N4237077 E600854 Range: 01E
 Area: 21.0 acres Mapping Precision: SPECIFIC Section: 15 Qtr: SE
 Elevation: 25 ft Symbol Type: POLYGON Meridian: M

Location: 2 MILES WSW OF DOZIER & 1 MILE WEST OF OLCOTT LAKE.
 Ecological: MESIC ALKALI AREAS SUCH AS SWALE TRIBUTARIES TO LARGE PLAYA POOLS AND/OR VERNAL POOLS. ASSOCIATED WITH BLENNOSPERMA NANUM, DISTICHLIS SPICATA, LASTHENIA PLATYCARPHA, AND LAYIA CHRYSANTHEMOIDES. SOLANO-PESCADERO SOILS.
 Threat: CATTLE & SHEEP GRAZING.
 General: MORE THAN 350 PLANTS OBSERVED IN FOUR COLONIES IN 1994. SITE VISITED MANY TIMES DURING 1991-1994; PLANTS SEEN ONLY AFTER RECENT DISTURBANCE DUE TO UNDERGROUND PIPELINE CONSTRUCTION. HABITAT OBSERVED THROUGH BINOCES IN 2002, PRESUMED EXTANT.

Owner/Manager: PVT

Astragalus tener var. tener

alkali milk-vetch

Element Code: PDFAB0F8R1

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G1T1 **CNPS List:** 1B.2
 State: None **State:** S1.1

Habitat Associations

General: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.
Micro: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 1-170M.

Occurrence No. 52 **Map Index:** 30543 **EO Index:** 13273 **Dates Last Seen** _____
Occ Rank: Good **Element:** 1994-XX-XX
Origin: Natural/Native occurrence **Site:** 1994-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1994-11-14

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26679° / -121.97445° **Township:** 05N
UTM: Zone-10 N4235913 E589714 **Range:** 01W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 21 **Qtr:** NE
Elevation: 45 ft **Symbol Type:**POINT **Meridian:** M

Location: TRAVIS AIR FORCE BASE, SOUTH OF LANDING STRIP AND RAILROAD TRACKS, 0.5 MILE SOUTH OF PEABODY ROAD AT AIR BASE PARKWAY.
Location Detail: WEST OF TRAVIS AFB HOSPITAL AND PARALLEL TO THE RAILROAD TRACKS ON FURTHERMOST PROPERTY OWNED BY THE BASE.
Ecological: IN UPLAND GRASSLAND ADJACENT TO ALKALINE VERNAL POOL. LASTHENIA CONJUGENS IS ALSO PRESENT IN HEALTHY POPULATION.
Threat: POOL IS SEASONALLY USED AS A HORSE PASTURE.
General: OVERALL SITE QUALITY IS GOOD. IN 1994, BIOSYSTEMS ANALYSIS FOUND 27 PLANTS IN 10 SCATTERED POOLS. WITHAM WAS UNABLE TO OBTAIN ACCESS TO SITE IN 2002.

Owner/Manager: DOD-TRAVIS AFB

Occurrence No. 59 **Map Index:** 51703 **EO Index:** 51703 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2002-04-27
Origin: Natural/Native occurrence **Site:** 2002-04-27
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2008-01-10

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.29562° / -121.79876° **Township:** 05N
UTM: Zone-10 N4239298 E605042 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 07 **Qtr:** NW
Elevation: 10 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST OF SALEM ROAD, 0.75 MILE SOUTH OF ULATIS CREEK, DFG CALHOUN CUT ECOLOGICAL RESERVE, NORTH OF RIO VISTA.
Location Detail: ABOUT 0.25 MILE ESE OF WINDMILL. MAPPED WITHIN THE SE 1/4 OF THE NW 1/4 OF SECTION 7.
Ecological: ALKALI VERNAL POOLS AND SWALES. ASSOCIATED WITH HORDEUM DEPRESSUM, LASTHENIA FREMONTII, AND LEPIDIUM DICTYOTUM.
Threat: SOIL/VEG MODERATELY IMPACTED BY GRAZING, BUT MAY NOT THREATEN THIS SPECIES.
General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2002, AS PART OF RELEVÉ DATA COLLECTED BY THE UC DAVIS VERNAL POOL TEAM DURING THE 2002 FIELD SEASON. NO POPULATION CENSUS CONDUCTED, BUT THIS 10 SQUARE M PLOT CONTAINED 1% COVER OF A. TENER TENER.

Owner/Manager: DFG-CALHOUN CUT ER

Occurrence No. 60 **Map Index:** 51704 **EO Index:** 51704 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2002-04-02
Origin: Natural/Native occurrence **Site:** 2002-04-02
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2008-01-10

Quad Summary: Dozier (3812137/498D), Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26944° / -121.87560° **Township:** 05N
UTM: Zone-10 N4236309 E598358 **Range:** 01E
Area: 10.0 acres **Mapping Precision:**SPECIFIC **Section:** 21 **Qtr:** NW
Elevation: 35 ft **Symbol Type:**POLYGON **Meridian:** M

Location: WILCOX RANCH SITE #4, 3.2 AIRMILES WSW OF DOZIER, EAST OF TRAVIS AIR FORCE BASE.
Location Detail: MAPPED WITHIN THE NW 1/4 OF THE NW 1/4 OF SECTION 21.
Ecological: ALKALI VERNAL POOLS AND SWALES ON A COMPLEX OF PESCADERO CLAY LOAM. DOMINATED BY LOLIUM MULTIFLORUM AND PLEUROPOGON CALIFORNICUS. LOWER POLYGON ALSO ASSOCIATED WITH DOWNINGIA CONCOLOR, LASTHENIA FREMONTII, & PLAGIOBOTHRYUS LEPTOCLADUS.
Threat: SOIL/VEG MODERATELY IMPACTED BY CATTLE GRAZING, BUT MAY NOT THREATEN THIS SPECIES.
General: UNKNOWN NUMBER OF PLANTS OBSERVED IN APRIL 2002. PLANTS FOUND IN TWO ADDITIONAL UNMAPPED POOLS IN THIS VICINITY ON 3/30/02. RECENTLY ACQUIRED BY TNC TO BE TRANSFERRED TO DFG OR STATE LANDS.

Astragalus tener var. tener

alkali milk-vetch

Element Code: PDFAB0F8R1

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G1T1 CNPS List: 1B.2
 State: None State: S1.1

Habitat Associations _____

General: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.
 Micro: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 1-170M.

Owner/Manager: TNC

Occurrence No. 61 Map Index: 51705 EO Index: 51705 Dates Last Seen _____
 Occ Rank: Good Element: 2002-03-30
 Origin: Natural/Native occurrence Site: 2002-03-30
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2003-07-07

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.26438° / -121.86270° Township: 05N
 UTM: Zone-10 N4235761 E599493 Range: 01E
 Area: 7.7 acres Mapping Precision: SPECIFIC Section: 21 Qtr: NE
 Elevation: 35 ft Symbol Type: POLYGON Meridian: M

Location: WILCOX RANCH SITE #1 AND #2, ABOUT 2.2 MILES WSW OF OLCOTT, WSW OF DOZIER.
 Location Detail: MAPPED WITHIN THE SE 1/4 OF THE NE 1/4 OF SECTION 21.
 Ecological: ALKALINE VERNAL FLAT WITH LASTHENIA FREMONTII, BLENNOSPERMA NANUM, LOLIUM MULTIFLORUM, PLEUROPOGON, DESCHAMPSIA DANTHONIODES, LEPIDIUM NITIDUM, LEPIDIUM OXYCARPUM, FRANKENIA, CRESSA TRUXILLENIS, ALOPECURUS SACCATUS, COTULA CORONOPIFOLIA.
 Threat: TRAMPLING, DEER HOOFPRIENTS.
 General: 2,200 PLANTS OBSERVED IN 2002. WILCOX RANCH IS BEING PURCHASED BY TNC. THE RARE LEPIDIUM LATIPES VAR. LATIPES AND LEPIDIUM LATIPES VAR. HECKARDII ALSO OCCUR AT THIS SITE.

Owner/Manager: TNC

Occurrence No. 62 Map Index: 51706 EO Index: 51706 Dates Last Seen _____
 Occ Rank: Good Element: 2001-04-04
 Origin: Natural/Native occurrence Site: 2001-04-04
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2003-07-07

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.25267° / -121.78616° Township: 05N
 UTM: Zone-10 N4234546 E606206 Range: 02E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 29 Qtr: NW
 Elevation: 10 ft Symbol Type: POINT Meridian: M

Location: DFG CALHOUN CUT ECOLOGICAL RESERVE, 1.15 AIR MILES ESE OF CALHOUN CUT AT HWY 113.
 Location Detail: MAPPED WITHIN THE W 1/2 OF THE NW 1/4 OF SECTION 29.
 Ecological: ALKALI VERNAL POOLS AND SWALES.
 Threat: SOIL/VEG MODERATELY IMPACTED BY GRAZING, BUT OPEN SPACE CREATED BY THIS TYPE OF DISTURBANCE CRITICAL TO THIS SPECIES.
 General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2001. RECORDED AS RELEVÉ DATA COLLECTED BY THE UC DAVIS VERNAL POOL TEAM.
 Owner/Manager: DFG-CALHOUN CUT ER

Astragalus tener var. tener

alkali milk-vetch

Element Code: PDFAB0F8R1

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1T1	CNPS List: 1B.2
State: None	State: S1.1	

Habitat Associations

General: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.
Micro: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 1-170M.

Occurrence No. 63	Map Index: 51707	EO Index: 51707	Dates Last Seen
Occ Rank: Good			Element: 2002-03-30
Origin: Natural/Native occurrence			Site: 2002-03-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-07-07

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.25906° / -121.89532°	Township: 05N
UTM: Zone-10 N4235136 E596647	Range: 01E
Radius: 80 meters	Section: 20
Elevation: 35 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: WILCOX RANCH SITE #3, NORTH OF OLD RR GRADE ABOUT 0.5 MILE WEST OF POWERLINE, EAST OF TRAVIS AIR FORCE BASE.
Location Detail: MAPPED WITHIN THE SW 1/4 OF THE SW 1/4 OF SECTION 20.
Ecological: SMALL ALKALI DEPRESSION (VERNAL POOL) ALONG MESIC SWALE ON SOLANO LOAM. ASSOCIATES INCLUDE PLAGIOBOTHRYIS LEPTOCLADUS, LEPIDIUM MULTIFLORUM, PLEUROPOGON CALIFORNICUS, ALOPECURUS, PILULARIA AMERICANA AND POGOYNE ZIZYPHOROIDES.
Threat: SOIL/VEG MODERATELY IMPACTED BY GRAZING, BUT OPEN SPACE CREATED BY THIS TYPE OF DISTURBANCE CRITICAL TO THIS SPECIES.
General: 300 PLANTS OBSERVED IN 2002. RECENTLY ACQUIRED BY TNC AND TO BE TRANSFERRED TO DFG OR THE SOLANO LAND TRUST.
Owner/Manager: TNC

Occurrence No. 64	Map Index: 51708	EO Index: 51708	Dates Last Seen
Occ Rank: Good			Element: 2003-04-09
Origin: Natural/Native occurrence			Site: 2003-04-09
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-01-10

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.43951° / -121.67286°	Township: 07N
UTM: Zone-10 N4255415 E615822	Range: 03E
Area: 15.0 acres	Section: 20
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: DFG GLIDE-TULE RANCH ECOLOGICAL RESERVE, APPROXIMATELY 2 MILES SOUTHWEST OF SAXON.
Location Detail: MAPPED AS 3 POLYGONS IN THE WESTERN PORTION OF SECTION 20. INCLUDES GLIDE SITE #2.
Ecological: ALKALI VERNAL POOLS AND SWALES ON DEEPLY CHURNING SOILS OF THE PESCADERO CLAY AND CLEAR LAKE CLAY SERIES. ASSOCIATES INCLUDE LASTHENIA FREMONTII, LOLIUM MULTIFLORUM, TRIPHYSARIA ERIANTHA SSP. ERIANTHA, AND LUPINUS BICOLOR.
Threat: SOIL/VEG MODERATELY IMPACTED BY GRAZING, BUT MAY NOT THREATEN THIS SPECIES.
General: 5 PLANTS OBSERVED OVER SEVERAL VISITS AS PART OF THE KINDER-MORGAN PIPELINE SURVEY (2002). >100 PLANTS OBSERVED IN 2003 BETWEEN THIS & OCC #32. RECENTLY ACQUIRED BY DFG AS PART OF THE YOLO BASIN ECOLOGICAL AREA. INCLUDES FORMER EO #69.
Owner/Manager: DFG

Astragalus tener var. tener

alkali milk-vetch

Element Code: PDFAB0F8R1

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G1T1 CNPS List: 1B.2
 State: None State: S1.1

Habitat Associations _____

General: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.
 Micro: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 1-170M.

Occurrence No. 65 Map Index: 51709 EO Index: 51709 Dates Last Seen _____
 Occ Rank: Good Element: 2002-04-25
 Origin: Natural/Native occurrence Site: 2002-04-25
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2008-01-10

Quad Summary: Fairfield South (3812221/482A)
 County Summary: Solano

Lat/Long: 38.23028° / -122.06194° Township: 05N
 UTM: Zone-10 N4231782 E582101 Range: 02W
 Area: 6.0 acres Mapping Precision: SPECIFIC Section: 35 Qtr: SW
 Elevation: 7 ft Symbol Type: POLYGON Meridian: M

Location: WEST OF LEDGEWOOD CREEK, ABOUT 0.55 MILE SW OF JUNCTION OF PENNSYLVANIA AVE AND CORDELIA ROAD, SOUTH OF FAIRFIELD.
 Location Detail: WEST OF SUISUN CITY.
 Ecological: SEASONALLY WET ANNUAL GRASSLAND, SILTY CLAY SOIL, LEVEL. FOUND ON MARGINS OF SLOWLY SLOPING ALKALI POOL. DOMINANT SPECIES WERE BROMUS HORDEACEUS, HORDEUM MARINUM GUSSONEANUM, TRIFOLIUM VARIEGATUM, & LASTHENIA CONJUGENS.
 General: 200 PLANTS OBSERVED ON APRIL 16, 2002, MORE THAN 300 PLANTS OBSERVED ON APRIL, 25 2002. THE RARE LASTHENIA CONJUGENS IS FOUND 100 FT TO THE NW OF THIS SITE. SITE IS REPORTED AS UPSLOPE OF ATRIPLEX PERSISTENS. CATTLE GRAZING PRESENT ON SITE.
 Owner/Manager: PVT-GENTRY CO

Occurrence No. 69 Map Index: 54631 EO Index: 54631 Dates Last Seen _____
 Occ Rank: Good Element: 2003-04-XX
 Origin: Natural/Native occurrence Site: 2003-04-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2004-03-09

Quad Summary: Saxon (3812146/497B)
 County Summary: Yolo

Lat/Long: 38.43748° / -121.67135° Township: 07N
 UTM: Zone-10 N4255192 E615957 Range: 03E
 Area: 0.5 acres Mapping Precision: SPECIFIC Section: 20 Qtr: W
 Elevation: 15 ft Symbol Type: POLYGON Meridian: M

Location: DFG GLIDE-TULE RANCH ECOLOGICAL RESERVE, EAST OF RAILROAD, APPROX 1.5 AIRMILE NNE OF VAUGHN RANCH PUMP HOUSE.
 Location Detail: ONE SMALL COLONY MAPPED IN THE CENTER OF THE WESTERN HALF OF SECTION 20.
 Ecological: MESIC GRASSLAND DOMINATED BY LASTHENIA GLABRATA AND LOLIUM MULTIFLORUM. ASSOCIATES INCLUDE LAYIA CHRYSANTHEMOIDES, BLENNOSPERMA NANUM ET AL.
 Threat: CATTLE GRAZING.
 General: >100 PLANTS OBSERVED IN 2003 BETWEEN THIS OCC #32 & #64.
 Owner/Manager: DFG

Occurrence No. 70 Map Index: 54633 EO Index: 54633 Dates Last Seen _____
 Occ Rank: Excellent Element: 2003-04-XX
 Origin: Natural/Native occurrence Site: 2003-04-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-03-01

Quad Summary: Saxon (3812146/497B)
 County Summary: Yolo

Lat/Long: 38.45262° / -121.67215° Township: 07N
 UTM: Zone-10 N4256871 E615863 Range: 03E
 Area: 0.8 acres Mapping Precision: SPECIFIC Section: 17 Qtr: NW
 Elevation: 15 ft Symbol Type: POLYGON Meridian: M

Location: DFG GLIDE-TULE RANCH ER, ABOUT 0.25 MILE WEST OF RAILROAD TRACKS ALONG SLOUGH, 1.9 AIRMILES SOUTHWEST OF GLIDE RANCH.
 Location Detail: ONE SMALL COLONY MAPPED IN THE SW 1/4 OF THE NW 1/4 OF SECTION 17.
 Ecological: MESIC GRASSLAND DOMINATED BY LASTHENIA GLABRATA AND LOLIUM MULTIFLORUM. ASSOCIATES INCLUDE LAYIA CHRYSANTHEMOIDES, BLENNOSPERMA NANUM ET AL.
 Threat: CATTLE GRAZING.
 General: LESS THAN 100 PLANTS OBSERVED IN 2003 BETWEEN THIS OCCURRENCE & OCCURRENCES #32, #64 & #69.
 Owner/Manager: DFG

Astragalus tener var. tener

alkali milk-vetch

Status	NDDB Element Ranks	Element Code: PDFAB0F8R1	Other Lists
Federal: None State: None	Global: G1T1 State: S1.1		CNPS List: 1B.2

Habitat Associations

General: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.

Micro: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 1-170M.

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 32	Map Index: 10886	EO Index: 9970	Dates Last Seen
Occ Rank: Unknown			Element: 2003-05-05
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-05-06

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.41582° / -121.67981°	Township: 07N
UTM: Zone-10 N4252778 E615254	Range: 03E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 15 ft	Section: 31 Qtr: NE
	Symbol Type: POLYGON
	Meridian: M

Location: VICINITY OF THE VAUGHN RANCH, ALONG MIDWAY ROAD (AKA ROAD 152), ABOUT 12 MILES ESE OF DIXON.
Location Detail: 2003: OWL SPOTTED PERCHED ON A WOOD FENCE POST JUST NORTH OF THE DITCH THAT RUNS ALONG THE NORTH SIDE OF MIDWAY ROAD, EAST OF THE MOBILE HOME & CABOOSE & WEST OF THE POWER LINES.
Ecological: SURROUNDING LAND USE IS AGRICULTURE. 2003: GRASSLANDS TO THE NORTH AND SOUTH OF MIDWAY ROAD. A FEW RODENT BURROWS OBSERVED ALONG THE FENCELINE AT THE TOP OF THE DITCH.
General: ONE OBSERVATION IN 1987. ONE OBSERVED IN 1989; PRESUMED BURROW SITE NEARBY. ONE OBSERVED 5 MAY 2003.
Owner/Manager: PVT

Occurrence No. 33	Map Index: 10823	EO Index: 19677	Dates Last Seen
Occ Rank: Good			Element: 2004-05-XX
Origin: Natural/Native occurrence			Site: 2004-05-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-11-29

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.40133° / -121.71376°	Township: 06N
UTM: Zone-10 N4251128 E612312	Range: 02E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 20 ft	Section: 02 Qtr: NE
	Symbol Type: POLYGON
	Meridian: M

Location: IN THE VICINITY OF THE INTERSECTION OF YOLANO ROAD, KING ROAD, AND LIBERTY ISLAND ROAD, 11 MILES SE OF DIXON
Location Detail: 1987: OWLS USING MASONRY BLOCKS. 1990: OWLS ON FENCE NEXT TO CEMENT FOUNDATION. 2001: OWLS USING METAL CULVERT & CONCRETE FOUNDATION. 2002: OWLS ON RR GRADE SOUTH OF KING RD. 2003: OWL IN BURROW JUST WEST OF FOUNDATION.
Ecological: BURROWS CONSIST OF ABANDONED MASONRY BLOCKS, CULVERTS AND OTHER MAN-MADE STRUCTURES; SURROUNDED BY A MIX OF GRAZED ANNUAL GRASSLAND AND AGRICULTURE.
Threat: THREATENED BY HABITAT LOSS AND CONVERSION TO AGRICULTURE.
General: 1987: LARGE COLONY OBS. 1989: 2 ADULTS OBS/"DOR" FLEDGLING FOUND. 1990: 2 ADULTS OBS. 12 DEC 2001: 2 AD/3 JUV OBS. 24 JAN 2002: 1 ADULT OBS AT BURROW AT RR GRADE. 5 MAY 2003: 1 ADULT FLUSHED FROM BURROW. MAY 2004: 2 AD/2 JUV OBS AT BURROW.
Owner/Manager: PVT

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 70	Map Index: 09716	EO Index: 25452	Dates Last Seen
Occ Rank: Unknown			Element: 1987-06-06
Origin: Natural/Native occurrence			Site: 1987-06-06
Presence: Presumed Extant			
Trend: Increasing			Record Last Updated: 1989-08-10

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.23018° / -122.06359°	Township: 05N
UTM: Zone-10 N4231769 E581957	Range: 02W
Radius: 1/5 mile	Section: 35
Elevation: 10 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: CORDELIA ROAD JCT W/ OREHR RD, APPROX 1.5 MI S OF HWY 12 JCT W/I-80, FAIRFIELD.

Threat: THREATENED BY LIVESTOCK AND A PROPOSED BUSINESS PARK.

General: BREEDING COLONY OF MANY BURROWS, LOCATED ALONG A DRY DITCH; IN 1982, 9 ADULTS AND 4 JUVENILES OBSERVED. SITE QUALITY EXCELLENT, ACCORING TO LEONG.

Owner/Manager: UNKNOWN

Occurrence No. 103	Map Index: 17253	EO Index: 12007	Dates Last Seen
Occ Rank: Fair			Element: 1990-06-30
Origin: Natural/Native occurrence			Site: 1990-06-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1992-07-03

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.39610° / -121.78607°	Township: 06N
UTM: Zone-10 N4250462 E606005	Range: 02E
Radius: 1/5 mile	Section: 06
Elevation: 30 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: ALONG WEST SIDE OF ROBBEN ROAD, 1.4 MI SOUTH OF MIDWAY ROAD, APPROXIMATELY 3 MI SE OF DIXON.

Ecological: SITE IS A GAS WELL OR GAS STORAGE SITE, SURROUNDED BY AGRICULTURAL GRAIN CROPS.

Threat: MAIN THREAT IS ASSOCIATED WITH THE PROXIMITY OF THE SITE TO AGRICULTURAL ACTIVITIES.

General: IN 1989, ONE ADULT OWL WAS OBSERVED BY WHISLER. OWL FLUSHED FROM SITE WHEN DISTURBED, BUT IMMEDIATELY RETURNED TO THE SAME LOCATION. ONE ADULT OWL OBSERVED IN 1990 BY MYERS AND DOUGLAS.

Owner/Manager: UNKNOWN

Occurrence No. 104	Map Index: 17254	EO Index: 13607	Dates Last Seen
Occ Rank: Fair			Element: 1989-07-01
Origin: Natural/Native occurrence			Site: 1989-07-01
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1990-12-19

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.43289° / -121.78632°	Township: 07N
UTM: Zone-10 N4254544 E605929	Range: 02E
Radius: 1/5 mile	Section: 19
Elevation: 40 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: 200 YDS NORTH OF MILLER ROAD, ALONG ROBBEN ROAD, APPROXIMATELY 2 MI ESE OF DIXON.

Owner/Manager: UNKNOWN

Athene cunicularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 105	Map Index: 17255	EO Index: 13604	Dates Last Seen
Occ Rank: Fair			Element: 1989-07-01
Origin: Natural/Native occurrence			Site: 1989-07-01
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-08-27

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.41746° / -121.78626°	Township: 07N
UTM: Zone-10 N4252832 E605957	Range: 02E
Area: 57.9 acres	Section: 30
Elevation: 40 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: 2 MI SE DIXON. 0.2 MILE NORTH ALONG ROBBEN ROAD & 800 FT EAST ALONG MIDWAY ROAD FROM INTERSECT OF MIDWAY & ROBBEN.
Location Detail: 1 INDIVIDUAL (NEAR BURROW THAT IS DIFFICULT TO VIEW) AND 2 OTHER ADULTS OBSERVED AT 2 DIFFERENT LOCATIONS (ALONG IRRIGATION DITCH) ON WEST SIDE OF ROBBENS ROAD. 1 ADULT OBSERVED USING CULVERT AT NE CORNER OF ROBBENS ROAD AND MIDWAY ROAD.

Ecological: HABITAT CONSISTS OF FALLOW FIELDS AND IS SURROUNDED BY AGRICULTURAL GRAIN CROPS.
Threat: IRRIGATION DITCH MAINTENANCE COULD IMPACT OWL.

General: 3 INDIVIDUALS WEST OF ROBBENS ROAD OBSERVED ON 1 JULY 1989. ADULT AT NE CORNER OF MIDWAY ROAD AND ROBBENS ROAD OBSERVED ON 1 JAN 1989.

Owner/Manager: UNKNOWN

Occurrence No. 113	Map Index: 17304	EO Index: 11960	Dates Last Seen
Occ Rank: None			Element: 1983-XX-XX
Origin: Natural/Native occurrence			Site: 1989-03-12
Presence: Extirpated			
Trend: Unknown			Record Last Updated: 1996-01-11

Quad Summary: Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.28286° / -122.02487°	Township: 05N
UTM: Zone-10 N4237649 E585284	Range: 02W
Radius: 2/5 mile	Section: 13
Elevation: 80 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: HILLSIDE DRIVE, OFF OF DOVER AVE, FAIRFIELD.
Location Detail: THREE OWLS OBSERVED LIVING IN HOLES BURROWED BY GOPHERS NEAR FENCE POSTS, IN 1983; NO BIRDS OBSERVED IN 1989.

Ecological: IN 1983, SURROUNDING HABITAT WAS VALLEY GRASSLAND.
Threat: MAIN THREAT IS A HOUSING DEVELOPMENT WHICH IS ENVELOPING THE HILL.

General: ACCORDING TO LEONG, THE SITE IS "BEYOND PROTECTION."

Owner/Manager: UNKNOWN

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 114	Map Index: 17308	EO Index: 11957	Dates Last Seen
Occ Rank: Fair			Element: 1989-09-04
Origin: Natural/Native occurrence			Site: 1989-09-04
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1991-01-16

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.31610° / -121.87061°	Township: 06N
UTM: Zone-10 N4241491 E598731	Range: 01E
Radius: 80 meters	Section: 33
Elevation: 45 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: JUST NW OF THE INTERSECTION OF HAY ROAD AND DALLY ROAD, APPROXIMATELY 3 MI ESE OF ELMIRA.
Location Detail: TWO ADULTS AND BURROW OBSERVED IN THE EMBANKMENT BUILT TO INSULATE SILOS ON THE NORTH SIDE OF THE EMBANKMENT.
Ecological: AREA IS DEVOID OF PLANTS AND IS USED AS A PARKING LOT FOR FARM IMPLEMENTS. SURROUNDING AREA IS PLANTED IN OAT HAY.
General: 3 OWLS AND BURROW OBSERVED AT THIS SITE ON 8 MARCH 1984 BY JOHN LOVIO.
Owner/Manager: UNKNOWN

Occurrence No. 115	Map Index: 17309	EO Index: 9211	Dates Last Seen
Occ Rank: Excellent			Element: 1989-04-09
Origin: Natural/Native occurrence			Site: 1989-04-09
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1992-05-01

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.27528° / -121.91323°	Township: 05N
UTM: Zone-10 N4236917 E595059	Range: 01E
Area:	Section: 18
Elevation: 70 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SW
Symbol Type: POLYGON	

Location: AT THE END OF MERIDIAN ROAD, ON THE EAST SIDE, ONE MI EAST OF TRAVIS FIELD.
Location Detail: AT LEAST FIVE BURROWS, WITH 8 ADULTS (AT LEAST 3 PAIRS), LOCATED ON THE SLOPES OF A SEASONAL POND.
Ecological: AREA IS NOT PLOWED BECAUSE OF DRY POND AREA.
Threat: CATTLE GRAZING.
General: MANY GROUND SQUIRRELS IN THE AREA. BIRDS ARE NOT PERTURBED BY AIRPLANE RUNWAY NEARBY.
Owner/Manager: UNKNOWN

Occurrence No. 116	Map Index: 17310	EO Index: 13587	Dates Last Seen
Occ Rank: Good			Element: 1989-03-12
Origin: Natural/Native occurrence			Site: 1989-03-12
Presence: Presumed Extant			
Trend: Stable			Record Last Updated: 1991-01-17

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26862° / -121.97049°	Township: 05N
UTM: Zone-10 N4236120 E590058	Range: 01W
Radius: 1/5 mile	Section: 21
Elevation: 50 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: AERO CLUB AIRPORT, JUST SOUTH OF THE JUNCTION OF PEABODY ROAD WITH AIR BASE PARKWAY, TRAVIS AFB, FAIRFIELD.
Owner/Manager: DOD-TRAVIS AFB

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 117	Map Index: 17311	EO Index: 12261	Dates Last Seen
Occ Rank: Good			Element: 1982-XX-XX
Origin: Natural/Native occurrence			Site: 1989-03-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1991-01-17

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.27647° / -121.93731°	Township: 05N
UTM: Zone-10 N4237024 E592951	Range: 01W
Radius: 1/5 mile	Section: 14
Elevation: 75 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: IN THE VICINITY OF THE OFFICER'S CLUB AT TRAVIS AFB, NEAR FAIRFIELD.
Ecological: HABITAT IS GRASSY, OPEN FIELDS WITH CULVERTS THAT DO NOT HAVE WATER IN THEM DURING THE BREEDING SEASON.
Threat: POTENTIAL THREAT OF DISTURBANCE DUE TO THE HIGH LEVEL OF HUMAN ACTIVITY.
General: NAPA-SOLANO AUDUBON REPORTS THAT THE BIRDS BREED HERE AND RESIDE YEAR-ROUND. THEY HAVE RECEIVED YEARLY REPORTS OF THE BIRDS PRESENCE SINCE 1982, ALTHOUGH NO BIRDS WERE OBSERVED ON A VISIT THERE IN 1989 (SHORTLY AFTER A HEAVY RAIN).
Owner/Manager: DOD-TRAVIS AFB

Occurrence No. 118	Map Index: 17312	EO Index: 13600	Dates Last Seen
Occ Rank: Good			Element: 1982-XX-XX
Origin: Natural/Native occurrence			Site: 1989-03-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1991-01-17

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26885° / -121.95404°	Township: 05N
UTM: Zone-10 N4236162 E591497	Range: 01W
Radius: 2/5 mile	Section: 22
Elevation: 60 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: IN THE VICINITY OF TRAVIS ELEMENTARY SCHOOL, THE POST OFFICE, VET CENTER, AND BASE EXCHANGE, TRAVIS AFB, NEAR FAIRFIELD.
Owner/Manager: DOD-TRAVIS AFB

Occurrence No. 119	Map Index: 17317	EO Index: 13595	Dates Last Seen
Occ Rank: Good			Element: 1989-03-12
Origin: Natural/Native occurrence			Site: 1989-03-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1991-01-17

Quad Summary: Elmira (3812138/498C), Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.28413° / -122.00173°	Township: 05N
UTM: Zone-10 N4237812 E587307	Range: 01W
Radius: 2/5 mile	Section: 17
Elevation: 75 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: NW OF CEMENT HILL ROAD JUNCTION WITH CLAY BANK ROAD, SOUTH OF CEMENT HILL, NEAR FAIRFIELD.
Owner/Manager: FAIRFIELD SANITATION

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 120	Map Index: 17337	EO Index: 11953	Dates Last Seen
Occ Rank: Good			Element: 1989-03-12
Origin: Natural/Native occurrence			Site: 1989-03-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1991-01-23

Quad Summary: Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.41347° / -121.89770°	Township: 07N
UTM: Zone-10 N4252267 E596234	Range: 01E
Radius: 1/5 mile	Section: 31
Elevation: 75 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: OLD VACA VALLEY RACEWAY, SW OF THE INTERSECTION LEWIS AND MIDWAY RDS, JUST EAST OF I-80, NE OF VACAVILLE.

Location Detail: OWLS FOUND IN BURROWS MADE BY GROUND SQUIRRELS.

Ecological: HABITAT IS MADE UP OF MOUNDS OF DIRT THAT IS HEAVILY SODDED.

Threat: POTENTIAL THREAT OF DEVELOPMENT.

Owner/Manager: UNKNOWN

Occurrence No. 121	Map Index: 17357	EO Index: 11951	Dates Last Seen
Occ Rank: Fair			Element: 1982-02-12
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Decreasing			Record Last Updated: 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo, Solano

Lat/Long: 38.41619° / -121.69328°	Township: 07N
UTM: Zone-10 N4252802 E614077	Range: 03E
Radius: 1/5 mile	Section: 30
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: 200 YDS EAST OF THE INTERSECTION OF MIDWAY RD (152) AND LEEVEE RD, APPROXIMATELY 12.5 MI SOUTH OF DAVIS.

Location Detail: TWO ADULTS AND THREE JUVENILES OBSERVED ON 30 JAN 1982 OCCUPYING GOPHER HOLES ALONG THE FENCE LINE NORTH OF THE DITCH; ALSO OBSERVED ON 12 FEB 1982. 5/5/2003 NO BIRDS SEEN.

Ecological: SURROUNDING HABITAT IS FARMLAND WITH SOME CATTLE GRAZING. 5/5/2003- HEAVY VEGETATION COVER ON THE DITCH LINE.

Threat: POTENTIAL THREAT OF DISTURBANCE BY CATTLE AND/OR AGRICULTURAL PRACTICES.

General: ON SUBSEQUENT TRIPS TO THIS SITE IN 1986, 1987, AND 1989, NO BIRDS WERE FOUND, AND IT APPEARED THAT THE BURROWS HAD BEEN DISTURBED. 5/5/2003- NO BIRDS OBSERVED, HIGH GREEN GRASS FROM LATE RAINS MAYBE HIDING BURROWS.

Owner/Manager: PVT-VAUGHN RANCH

Occurrence No. 131	Map Index: 21012	EO Index: 9167	Dates Last Seen
Occ Rank: Fair			Element: 1992-04-04
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.47465° / -121.69828°	Township: 07N
UTM: Zone-10 N4259283 E613549	Range: 02E
Radius: 80 meters	Section: 01
Elevation: 25 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: JUST NW OF THE JUNCTION OF MAXWELL LANE AND ROAD 104, APPROXIMATELY 8 MI SOUTH OF DAVIS.

Ecological: HABITAT IS AN OPEN, GRASSY FIELD DOMINATED BY WEEDY SPECIES. ALTHOUGH SOMEWHAT DISTURBED, IT IS FAR LESS SO THAN SURROUNDING AGRICULTURAL FIELDS. 5/5/2003 ALFALFA SOUTH, GRASS NORTH, A FEW CATTLE SEEN, DRY RAISED AREA NEAR TROUGH.

Threat: 4/4/1992 - NEIGHBORING LANDOWNER INDICATED THAT THIS SITE IS SCHEDULED FOR DEVELOPMENT. 5/5/2003 NO DEVELOPMENT SEEN.

General: ALTHOUGH FAIRLY UNDISTURBED, LAND AT THIS SITE MAY BE LIGHTLY GRAZED. IN 1990, TWO FAMILY GROUPS, EACH WITH TWO ADULTS AND AT LEAST TWO YOUNG EACH OBSERVED. IN 1992, THREE ADULT OWLS OBSERVED AT BURROW ENTRANCE. 5/5/2003 NO OWLS WERE SEEN.

Owner/Manager: PVT

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 133	Map Index: 21534	EO Index: 19692	Dates Last Seen
Occ Rank: Unknown			Element: 1989-07-02
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.38207° / -121.73024°	Township: 06N
UTM: Zone-10 N4248971 E610902	Range: 02E
Radius: 80 meters	Section: 11
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: JUST SOUTH OF ETZEL ROAD JUNCTION WITH OLD SACRAMENTO NORTHERN RR TRACKS, APPROXIMATELY 6 MI NORTH OF LIBERTY FARMS.
Location Detail: BURROW SITE LOCATED IN A PILE OF OLD PIPES UNDER THE POWERLINES, NEXT TO A POWER POLE.
Ecological: SURROUNDING HABITAT CONSISTS OF AGRICULTURE, CANALS, PONDS, AND WATER PIPE STORAGE.
General: 7/2/1989-TWO BURROWING OWLS OBSERVED; ONE ADULT AND ONE OF UNKNOWN AGE. 5/5/2003 NO OWLS WERE SEEN.
Owner/Manager: UNKNOWN

Occurrence No. 134	Map Index: 21528	EO Index: 9597	Dates Last Seen
Occ Rank: Unknown			Element: 1989-07-02
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.44687° / -121.70719°	Township: 07N
UTM: Zone-10 N4256189 E612815	Range: 02E
Radius: 3/5 mile	Section: 13
Elevation: 25 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: NORTH HALF OF THE BLOCK OF LAND DEFINED BY HACKMAN RD (NORTH), BUCKLEY RD (WEST), THOMSEN RD (SOUTH), AND RD 104 (EAST).
Ecological: HABITAT CONSISTS OF AGRICULTURAL FIELDS. 5/5/2003 AGRICULTURE IS STILL PRESENT, TALL GRAIN AND ALFALFA CROPS. DITCH ON THE N SIDE OF HACKMAN ROAD POTENTIAL BURROW SITE.
General: 7/2/1989 - 4 ADULTS OBSERVED HOVER-FORAGING OVER A FLOODED, LOW CROP (ALFALFA?); ONE OR MORE BURROWS PRESUMED TO BE IN THE VICINITY. 5/5/2003 NO OWLS WERE SEEN.
Owner/Manager: UNKNOWN

Occurrence No. 135	Map Index: 21529	EO Index: 19658	Dates Last Seen
Occ Rank: Unknown			Element: 1989-07-02
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.43183° / -121.71686°	Township: 07N
UTM: Zone-10 N4254509 E611994	Range: 02E
Radius: 1/5 mile	Section: 23
Elevation: 25 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: ALONG THE WESTERN THIRD OF THOMSEN ROAD, ON THE NORTH SIDE, APPROXIMATELY 10 MI EAST OF DIXON.
Ecological: SURROUNDING HABITAT CONSISTS OF FALLOW FIELDS AND LOW CROPS. 5/5/2003 HABITAT STILL PRESENT.
General: A SINGLE ADULT OBSERVED PERCHING ON A TELEPHONE POLE; BURROW SITE PRESUMED NEARBY. 5/5/2003- 0 BIRDS OBSERVED, PROBABLY DUE TO HIGH GREEN GRASS FROM LATE RAINS.
Owner/Manager: UNKNOWN

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G4 **CDFG Status:** SC
State: None **State:** S2

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 136 **Map Index:** 21530 **EO Index:** 19657 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1989-07-02
Origin: Natural/Native occurrence **Site:** 2003-05-05
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.42421° / -121.71969° **Township:** 07N
UTM: Zone-10 N4253660 E611759 **Range:** 02E
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 26 **Qtr:** NE
Elevation: 30 ft **Symbol Type:**POINT **Meridian:** M

Location: ON THE EAST SIDE OF BUCKLEY ROAD, BETWEEN MIDWAY RRAD & THOMSEN ROADS, 10 MI EAST OF DIXON.
Location Detail: OWLS UTILIZE AREA BEHIND HOUSES FOR PERCHING AND FORAGING.
Ecological: SURROUNDING HABITAT CONSISTS OF AGRICULTURAL/FALLOW FIELDS. 5/5/2003 SITE IS STILL AGRICULTURAL LAND, HOUSES ARE STILL PRESENT.
General: TWO ADULTS OBSERVED PERCHED ON FENCES; BURROW SITE PRESUMED TO BE NEARBY. 5/5/2003- 0 BIRDS OBSERVED, PROBABLY DUE TO HIGH GREEN GRASS FROM LATE RAINS HIDING BURROWS.

Owner/Manager: UNKNOWN

Occurrence No. 137 **Map Index:** 21533 **EO Index:** 5305 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 1996-07-19
Origin: Natural/Native occurrence **Site:** 1996-07-19
Presence: Presumed Extant
Trend: Stable **Record Last Updated:** 1996-09-11

Quad Summary: Saxon (3812146/497B)
County Summary: Solano, Yolo

Lat/Long: 38.38743° / -121.69300° **Township:** 06N
UTM: Zone-10 N4249611 E614147 **Range:** 03E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 06 **Qtr:** SW
Elevation: 15 ft **Symbol Type:**POINT **Meridian:** M

Location: NORTH SIDE OF ROAD 155, EAST OF WEST LEVEE ROAD, APPROXIMATELY 13 MILES SE OF DIXON.
Ecological: SURROUNDING HABITAT CONSISTS MOSTLY OF FALLOW FIELDS AND IRRIGATED PASTURELAND.
General: HISTORICAL LOCATION. 1 ADULT OBSERVED IN THE CORRAL VICINITY IN 1989. IN 1990, 3 ADULTS OBSERVED PERCHED ON FENCES NEAR BURROW; 5 YOUNG AND 2 OF UNKNOWN-AGE PERCHED AT BURROW. 2 ADULTS OBSERVED IN 1993 AND ON 19 JULY 1996.

Owner/Manager: PVT

Occurrence No. 138 **Map Index:** 21531 **EO Index:** 8351 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 1996-07-23
Origin: Natural/Native occurrence **Site:** 2003-05-05
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.42196° / -121.68992° **Township:** 07N
UTM: Zone-10 N4253446 E614361 **Range:** 03E
Area: 22.4 acres **Mapping Precision:**SPECIFIC **Section:** 30 **Qtr:** SW
Elevation: 20 ft **Symbol Type:**POLYGON **Meridian:** M

Location: EAST SIDE OF ROAD 104, BETWEEN THOMSEN ROAD AND MIDWAY ROAD, 12 MI EAST OF DIXON. 2003- POSTED WITH NO TRESPASSING.
Location Detail: OWLS INHABIT FENCELINE BETWEEN DITCH AND PASTURE. NUMEROUS BURROWS ARE FOUND IN BOTH THE NORTH AND SOUTH LEVEES OF THE IRRIGATION DITCH WHICH RUNS WEST-EAST ACROSS THE FIELD.
Ecological: HABITAT IS SHORT, DRY GRASSLAND, SURROUNDED BY DRY PASTURE AND AN AGRICULTURAL DITCH. IN 2003 HARVESTED ALFALFA AND GRAZED GRASS NEARBY.
Threat: POSSIBLE THREAT FROM ACTIVITIES RELATED TO LEVEE REPAIR. AREA IS GRAZED.
General: TWO FAMILY GROUPINGS OBSERVED (2 ADULTS, 8 JUVENILES, AND 1 UNKNOWN-AGE) ON 30 JUNE 1990. 3 BIRDS OF UNKNOWN-AGE OBSERVED ON 23 JULY 1996. 0 BIRDS OBSERVED, HIGH GREEN GRASS FROM LATE RAINS MAYBE HIDING BURROWS 5/5/2003.

Owner/Manager: PVT

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 139	Map Index: 21532	EO Index: 9969	Dates Last Seen
Occ Rank: Unknown			Element: 1990-06-30
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.41916° / -121.66267°	Township: 07N
UTM: Zone-10 N4253170 E616745	Range: 03E
Radius: 1/5 mile	Section: 29
Elevation: 10 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: NORTH SIDE OF ROAD 152, EAST OF VAUGHN RANCH, 14 MI EAST OF DIXON.
Location Detail: OWLS INHABIT GRASSY DITCH ADJACENT TO SHEEP PASTURE.
Ecological: SURROUNDING LAND USE IS AGRICULTURE/GRAZING. 5/5/2003 GRASSLAND WITH POWER LINES OVER HEAD WERE OBSERVED.
General: 6/30/1990 - TWO ADULTS AND FOUR JUVENILES OBSERVED. 5/5/2003- 0 BIRDS OBSERVED, PROBABLY DUE TO HIGH GREEN GRASS FROM LATE RAINS HIDING BURROWS.
Owner/Manager: DFG

Occurrence No. 140	Map Index: 21527	EO Index: 9598	Dates Last Seen
Occ Rank: Unknown			Element: 1990-06-30
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.45632° / -121.71817°	Township: 07N
UTM: Zone-10 N4257225 E611842	Range: 02E
Radius: 1/5 mile	Section: 14
Elevation: 30 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: EAST SIDE OF BUCKLEY ROAD, JUST NORTH OF ROAD 38A (HACKMAN), APPROXIMATELY 9 MI ENE OF DIXON.
Location Detail: 6/30/1990 OWL LOCATED IN AN OVERGROWN AREA AROUND AN OLD BARN, WITH A NEARBY DITCH FULL OF RUNNING WATER. 5/5/2003 GRAIN CROPS AND TALL GRASS NEARBY, BARN APPEARS TO BE GONE, OR IS HIDDEN BEHIND THE HOUSE.
Ecological: SURROUNDING HABITAT IS AGRICULTURE.
General: 6/30/1990 ONE ADULT OBSERVED; BURROW SITE PRESUMED TO BE NEARBY. 5/5/2003 NO OWLS WERE SEEN.
Owner/Manager: UNKNOWN

Occurrence No. 141	Map Index: 21535	EO Index: 19691	Dates Last Seen
Occ Rank: Fair			Element: 1990-06-30
Origin: Natural/Native occurrence			Site: 1990-06-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-23

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.37869° / -121.74563°	Township: 06N
UTM: Zone-10 N4248577 E609563	Range: 02E
Radius: 1/5 mile	Section: 10
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: ALONG THE EAST SIDE OF SIKES ROAD, BETWEEN TREFOIL ROAD AND DELHI ROAD, 12 MI SE OF DIXON.
Location Detail: INHABITING AN AREA WITH LARGE CHUNKS OF CONCRETE AND RUSTED PIPES.
Ecological: SURROUNDING FORAGING HABITAT CONSISTS OF IRRIGATED PASTURE.
General: HISTORICAL LOCATION. ONE OWL OBSERVED ON 30 JUN 1990. ONE OWL OBSERVED ON 29 NOV 1999, BUT NO OWLS WERE PRESENT AFTER 1 FEB 2000.
Owner/Manager: PVT

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 145	Map Index: 23678	EO Index: 7322	Dates Last Seen
Occ Rank: None			Element: 1992-02-25
Origin: Natural/Native occurrence			Site: 1992-05-07
Presence: Possibly Extirpated			
Trend: Unknown			Record Last Updated: 1993-07-15

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.22334° / -121.97889°	Township: 04N
UTM: Zone-10 N4231088 E589379	Range: 01W
Radius: 80 meters	Section: 04
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: WEST SIDE OF POTRERO HILLS LANE, 0.6 MILE SE OF THE JUNCTION OF SCALLEY ROAD AND HWY 12, SE OF FAIRFIELD.
Location Detail: BURROW IS LOCATED IN A RUBBLE PILE COMPOSED OF CONCRETE BLOCKS.
Ecological: HABITAT SURROUNDING BURROW SITE CONSISTS OF ANNUAL GRASSLAND, WHICH IS DISKED FOR FIRE SUPPRESSION.
Threat: BURROW IS LOCATED IN AN EXPANSION PARCEL USED FOR ACCESS TO POTRERO HILLS LANDFILL.
General: A SINGLE BIRD WAS OBSERVED ON 15 OCT 1991 AND AGAIN ON 25 FEB 1992; BURROW APPEARED TO BE INACTIVE ON 7 MAY 1992.
Owner/Manager: PVT-SOLANO GARBAGE CO

Occurrence No. 146	Map Index: 23675	EO Index: 16767	Dates Last Seen
Occ Rank: Fair			Element: 1992-01-07
Origin: Natural/Native occurrence			Site: 1992-01-07
Presence: Presumed Extant			
Trend: Decreasing			Record Last Updated: 1993-09-08

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.37066° / -121.80154°	Township: 06N
UTM: Zone-10 N4247621 E604691	Range: 02E
Radius: 1/5 mile	Section: 18
Elevation: 30 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: EAST SIDE OF PEDRICK ROAD, 1.3 MILES NORTH OF BINGHAMTON ROAD, 5 MILES SSE OF DIXON.
Ecological: HABITAT CONSISTS OF ANNUAL GRASSLAND INTERSECTED BY SEVERAL SHALLOW, INTERMITTENT DRAINAGE COURSES. SURROUNDING HABITAT CONSISTS OF IRRIGATED CROPLAND AND PASTURELAND.
Threat: POSSIBLE THREAT FROM OIL/GAS EXPLORATION AND DEVELOPMENT.
General: ON FIRST VISIT TO THIS SITE ON 7 SEP 1989, 12 OWLS WERE PRESENT. 3 INDIVIDUALS OBSERVED AT BURROW SITE IN 1992.
Owner/Manager: UNKNOWN

Occurrence No. 147	Map Index: 23674	EO Index: 16752	Dates Last Seen
Occ Rank: Unknown			Element: 1992-05-18
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-08-22

Quad Summary: Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.47834° / -121.94776°	Township: 07N
UTM: Zone-10 N4259414 E591781	Range: 01W
Radius: 80 meters	Section: 02
Elevation: 110 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: S
Symbol Type: POINT	

Location: WEST OF I-505, 2 MILES NORTH OF SWEANY CREEK, EAST OF THE ENGLISH HILLS.
Location Detail: BURROW IS LOCATED IN THE NORTH BANK OF A CREEK DRAINAGE LOCATED ON RANCH LAND. BURROW MAY BE OUT OF SIGHT FROM ROAD.
General: 18 MAR 1992: SINGLE OWL FLUSHED FROM BURROW, WHERE CASTINGS & OTHER OWL SIGN (FEATHERS, DROPPINGS, DEAD INSECT PARTS) WAS OBSERVED. RETURN VISIT (18 MAY 1992): 2 ADULTS AT BURROW ENTRANCE. OWLS NOT OBS ON 5 MAY 2003 (BURROW OUT OF SIGHT?).
Owner/Manager: PVT?

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 172	Map Index: 23879	EO Index: 16116	Dates Last Seen
Occ Rank: Unknown			Element: 1989-07-01
Origin: Natural/Native occurrence			Site: 1989-07-01
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1993-07-28

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.40178° / -121.88228°	Township: 06N
UTM: Zone-10 N4250986 E597596	Range: 01E
Radius: 1/5 mile	Section: 05
Elevation: 65 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: SOUTH SIDE OF WEBER ROAD, 0.8 MILES EAST OF LEWIS ROAD, 6.5 MILES NE OF VACAVILLE.

Ecological: HABITAT CONSISTS OF ANNUAL GRASSLAND, DOMINATED BY WILD OATS.

General: ONE ADULT OBSERVED.

Owner/Manager: UNKNOWN

Occurrence No. 173	Map Index: 23878	EO Index: 7349	Dates Last Seen
Occ Rank: Unknown			Element: 1990-06-30
Origin: Natural/Native occurrence			Site: 1990-06-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-26

Quad Summary: Liberty Island (3812136/497C)

County Summary: Solano

Lat/Long: 38.35874° / -121.74585°	Township: 06N
UTM: Zone-10 N4246363 E609574	Range: 02E
Radius: 1/10 mile	Section: 15
Elevation: 15 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: NORTH SIDE OF SWAN ROAD, 1.3 MILES WEST OF WINSHIP ROAD, WEST OF THE YOLO BYPASS.

Location Detail: BURROWS ARE LOCATED IN A GRAVEL PILE IN THE VICINITY OF NATURAL GAS TANKS.

Ecological: SURROUNDING FORAGING HABITAT CONSISTS OF SHEEP AND CATTLE PASTURE.

General: BURROW WITH LOTS OF WHITEWASH AND 2 ADULT OWLS OBSERVED.

Owner/Manager: UNKNOWN

Occurrence No. 174	Map Index: 24512	EO Index: 6652	Dates Last Seen
Occ Rank: Unknown			Element: 1990-06-30
Origin: Natural/Native occurrence			Site: 1990-06-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1993-07-29

Quad Summary: Saxon (3812146/497B), Liberty Island (3812136/497C)

County Summary: Solano, Yolo

Lat/Long: 38.37670° / -121.69457°	Township: 06N
UTM: Zone-10 N4248418 E614026	Range: 02E
Radius: 1/5 mile	Section: 12
Elevation: 15 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: WEST SIDE OF WEST LEVEE ROAD, 0.3 MILE NORTH OF DELHI ROAD, WEST OF THE YOLO BYPASS.

Location Detail: SEVERAL BURROWS LOCATED IN THE WEST SLOPE OF THE LEVEE ROAD.

General: SEVERAL BURROWS, ONE WITH PELLETS, AN OWL WING, NESTING MATERIAL, AND SMALL MAMMAL BONES OUT FRONT, AND ONE ADULT OWL OBSERVED.

Owner/Manager: UNKNOWN

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 175	Map Index: 24511	EO Index: 6655	Dates Last Seen
Occ Rank: Unknown			Element: 1990-06-30
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-05-09

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.38595° / -121.72879°	Township: 06N
UTM: Zone-10 N4249403 E611023	Range: 02E
Radius: 1/5 mile	Section: 11
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: NW OF THE NORTHERN PACIFIC RAILROAD TRACKS, ABOUT 0.35 MI NE OF ETZEL ROAD AND RR INTERSECTION, 15 MILES S OF DAVIS.
Location Detail: BURROWS WERE LOCATED ON A SMALL LEVEE BANK, ON THE WEST SIDE OF THE ROW OF TRANSMISSION LINES.

General: APPROXIMATELY 10 INDIVIDUALS OBSERVED, CONSISTING OF AT LEAST 2 FAMILY GROUPS, DURING A 1990 SURVEY. 5/5/2000 HABITAT APPEARS INTACT, HIGH GREEN GRASS DUE TO LATE RAINS MAY HAVE HIDDEN BURROWS.

Owner/Manager: UNKNOWN

Occurrence No. 177	Map Index: 24514	EO Index: 6657	Dates Last Seen
Occ Rank: Fair			Element: 1993-08-09
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-03-03

Quad Summary: Saxon (3812146/497B), Davis (3812156/513C)
County Summary: Yolo, Solano

Lat/Long: 38.49418° / -121.68648°	Township: 08N
UTM: Zone-10 N4261465 E614547	Range: 03E
Area:	Section: 31
Elevation: 25 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: GLOBAL COMMUNICATIONS STATION, AT THE N END OF RD 105 & RD 36, 6.5 MI S OF DAVIS. YOLO REGIONAL GRASSLANDS PRK ON WEST.
Location Detail: BURROWS SPREAD THROUGHOUT THE ONE SQUARE MILE COMMUNICATIONS FACILITY. WESTERN ACCESS IS OFF MACE RD. - YOLO REGIONAL GRASSLANDS PARK, SACRAMENTO VALLEY SOARING SOCIETY (SVSS) PARKING AREA.

Ecological: HABITAT CONSISTS OF DISTURBED ANNUAL GRASSLAND WITH VERNAL POOLS. OTHER SENSITIVE TAXA: TUCTORIA MUCRONATA & NEOSTAPFIA COLUSANA. 2003: SITE IS SIGNED AS "FEDERALLY PROTECTED HABITAT AREA". GRASS WAS HIGH WITH NO SIGN OF DISKING. AG TO EAST

Threat: 1993: THREATENED BY DISKING ACTIVITIES (FIREBREAK) & PESTICIDE APPLICATION TO CLEAR ANTENNA PADS.

General: AT LEAST 4 FAMILY GROUPINGS OBS IN 1989, MOSTLY ALONG THE ENTRY ROAD. 1990: 3 GROUPS; 3 ADULTS & 6 JUV OBS, W SIDE OF ENTRY RD. 1993, SEVERAL BURROWS & OWLS OBS. 2003: 0 BIRDS AT SE ENTRANCE RD. 2-PRS SEEN AT BURROWS, E OF SVSS- PARKING.

Owner/Manager: DOD-MCCLELLAN AFB

Occurrence No. 178	Map Index: 24513	EO Index: 6656	Dates Last Seen
Occ Rank: Unknown			Element: 1990-06-30
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.47654° / -121.65226°	Township: 07N
UTM: Zone-10 N4259550 E617560	Range: 03E
Radius: 2/5 mile	Section: 04
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: EAST SIDE OF ROAD 106, 0.75 MI N OF GLIDE TULE RANCH, 9 MILES SOUTH OF DAVIS. ACCESS ROAD, SIGN TO HOSSELKUS & KEARNY.

Location Detail: BURROWS LOCATED WHERE THE MARSH CROSSES THE ROAD, SOUTH OF THE BARN. 5/5/2003 MARSH ON THE EAST SIDE OF THE ROAD NOT VISIBLE.

Ecological: HABITAT CONSISTS OF SHORT, DRY GRASSLAND/PASTURE. 5/5/2003 SURROUNDING AREA IS GRAIN FIELD (ABOUT 2 FEET TALL) AND ALFALFA TO THE SOUTH.

Threat: A GRAIN FIELD IN 2003.

General: 22 INDIVIDUALS OBSERVED, AT LEAST 10 OF WHICH WERE YOUNG, IN 4 FAMILY GROUPINGS. 5/5/2003- 0 BIRDS OBSERVED, PROBABLY DUE TO

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G4 CDFG Status: SC
 State: None State: S2

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
 Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

HIGH GREEN GRASS FROM LATE RAINS.

Owner/Manager: UNKNOWN

Occurrence No. 179 Map Index: 24515 EO Index: 6653 Dates Last Seen _____
 Occ Rank: Unknown Element: 1990-06-30
 Origin: Natural/Native occurrence Site: 1990-06-30
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1993-12-27

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.38763° / -121.6875° Township: 06N
 UTM: Zone-10 N4249640 E614627 Range: 03E
 Radius: 1/5 mile Mapping PrecisionNON-SPECIFIC Section: 06 Qtr: SW
 Elevation: 15 ft Symbol Type:POINT Meridian: M

Location: NORTH SIDE OF ROAD 155, 0.9 MILE EAST OF WEST LEVEE ROAD, 13 MILES SE OF DIXON.
 Location Detail: OWLS PERCHED ON FENCEPOSTS IN THE VICINITY OF THE BURROW.
 Ecological: HABITAT SURROUNDING BURROW CONSISTS OF FALLOW FIELDS, ADJACENT TO A WATER-FILLED DITCH.
 General: IN 1990, 2 ADULTS AND 4 JUVENILES WERE OBSERVED.

Owner/Manager: UNKNOWN

Occurrence No. 219 Map Index: 30605 EO Index: 4370 Dates Last Seen _____
 Occ Rank: Fair Element: 1994-11-20
 Origin: Natural/Native occurrence Site: 1994-11-20
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1994-12-06

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.45119° / -121.82087° Township: 07N
 UTM: Zone-10 N4256536 E602888 Range: 01E
 Radius: 1/5 mile Mapping PrecisionNON-SPECIFIC Section: 13 Qtr: SW
 Elevation: 55 ft Symbol Type:POINT Meridian: M

Location: EAST OF THE INTERSECTION OF HWY 113 AND "H" STREET, DIXON.
 Location Detail: BURROW SITE IS LOCATED 400 FEET EAST OF THE INTERSECTION.
 Ecological: HABITAT CONSISTS OF A LARGE VACANT LOT WITH PILES OF CONCRETE RUBBLE; LOT IS CHARACTERIZED BY FALLOW FIELDS WITH RUDERAL VEGETATION, SURROUNDED BY DEVELOPMENT.
 General: 1 ADULT OBSERVED ON 19 AND 20 NOVEMBER 1994; WINTERING SITE.

Owner/Manager: UNKNOWN

Occurrence No. 227 Map Index: 32019 EO Index: 3789 Dates Last Seen _____
 Occ Rank: Good Element: 1994-07-12
 Origin: Natural/Native occurrence Site: 2004-07-29
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2004-11-10

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.45646° / -121.94343° Township: 07N
 UTM: Zone-10 N4256990 E592187 Range: 01W
 Radius: 80 meters Mapping PrecisionSPECIFIC Section: 14 Qtr: NW
 Elevation: 115 ft Symbol Type:POINT Meridian: M

Location: WEST SIDE OF WINTERS ROAD, ~5.5 MILES SOUTH OF WINTERS.
 Location Detail: OWLS WERE OBSERVED PERCHED ON STEEL FENCE POSTS ON THE WEST SIDE OF WINTERS ROAD; BURROWS WERE LOCATED ON TOP OF THE EAST BANK OF A CANAL PARALLELING THE FENCE LINE.
 Ecological: HABITAT CONSISTS OF LOW-GROWING ANNUAL GRASSLAND, WHICH TURNS BROWN DURING THE SUMMER; SURROUNDING AREA IS MADE UP OF IRRIGATED PASTURE AND ROW CROPS AND RANCHETTES.
 General: 4 BURROWING OWLS OBSERVED ON 12 JULY 1994. ALTHOUGH HABITAT APPEARED EXTANT, OWLS WERE NOT OBSERVED ON 5 MAY 2003 OR 29 JUL 2004.

Owner/Manager: UNKNOWN

Athene cucularia			
burrowing owl		Element Code: ABNSB10010	
Status		NDDB Element Ranks	
Federal: None	Global: G4	Other Lists	
State: None	State: S2	CDFG Status: SC	
Habitat Associations			
General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.			
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.			

Occurrence No. 228	Map Index: 32020	EO Index: 4406	Dates Last Seen	
Occ Rank: Fair	Origin: Natural/Native occurrence		Element: 2005-09-03	Site: 2005-09-03
Presence: Presumed Extant	Trend: Unknown		Record Last Updated: 2005-10-18	
Quad Summary: Allendale (3812148/498B)				
County Summary: Solano				
Lat/Long: 38.45378° / -121.95303°	UTM: Zone-10 N4256684 E591352	Radius: 80 meters	Elevation: 115 ft	Mapping Precision: SPECIFIC
		Symbol Type: POINT	Township: 07N	Range: 01W
			Section: 15	Qtr: NE
			Meridian: M	
Location: NORTH SIDE OF ALLENDALE ROAD, JUST EAST OF THE PUTAH SOUTH CANAL INTERSECTION, WEST OF I-505, 6 MILES SOUTH OF WINTERS				
Location Detail: 1 OWL OBSERVED PERCHED ON A STEEL FENCE LINE ON THE NORTH SIDE OF A CEMENT-LINED CANAL WHICH PARALLELS ALLENDALE ROAD, -0.15 EAST OF PUTAH SOUTH CANAL. BURROW IS LOCATED WITHIN THE FENCED CANAL AREA.				
Ecological: HABITAT CONSISTS OF LOW-GROWING ANNUAL GRASSLAND, WHICH DRIES OUT DURING THE SUMMER; SURROUNDING AREA IS DEVELOPED WITH VARIOUS-SIZED RANCHETTES (1-20 ACRES) TO THE SOUTH AND GRAZING LANDS (SHEEP) TO THE NORTH.				
Threat: POSSIBLY THREATENED BY ROAD/CANAL MAINTENANCE.				
General: 1 OWL OBSERVED ON 12 JULY 1994. NO OWLS OBSERVED ON 5 MAY 2003 - SITE VISIT LIKELY TOO EARLY. 1 OWL OBSERVED AT THE BURROW ENTRANCE ON 4 JUL 2004. 2 OBSERVED AT BURROW ON 29 JUL 2004. 4 OWLS (1 AD, 3 JUV) OBSERVED ON 3 SEP 2005.				
Owner/Manager: UNKNOWN				

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G4 CDFG Status: SC
 State: None State: S2

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
 Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 235 Map Index: 33488 EO Index: 17229 Dates Last Seen _____
 Occ Rank: Fair Element: 1996-07-23
 Origin: Natural/Native occurrence Site: 1996-07-23
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1996-09-11

Quad Summary: Dixon (3812147/498A)
 County Summary: Solano

Lat/Long: 38.38658° / -121.77620° Township: 06N
 UTM: Zone-10 N4249417 E606881 Range: 02E
 Radius: 80 meters Mapping PrecisionSPECIFIC Section: 08 Qtr: NE
 Elevation: 25 ft Symbol Type:POINT Meridian: M

Location: JUST SOUTH OF RADIO STATION ROAD AND WEST OF THE ROAD TO THE OLD RADIO STATION HEADQUARTERS AREA, 4 MILES SE OF DIXON.
 Location Detail: BURROWS ARE LOCATED INSIDE A CYCLONE-FENCED AREA THAT SERVES AS AN ELECTRICAL SUBSTATION FOR THE ANTENNA FIELDS IN THE AREA.
 Ecological: SITE IS SURROUNDED BY IRRIGATED AGRICULTURE.
 General: 2 ADULTS OBSERVED AT THE BURROW SITE ON 23 JULY 1996.
 Owner/Manager: DOD-NAVY

Occurrence No. 236 Map Index: 33489 EO Index: 8461 Dates Last Seen _____
 Occ Rank: Fair Element: 1996-07-23
 Origin: Natural/Native occurrence Site: 1996-07-23
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1996-09-11

Quad Summary: Dixon (3812147/498A)
 County Summary: Solano

Lat/Long: 38.38795° / -121.77892° Township: 06N
 UTM: Zone-10 N4249566 E606641 Range: 02E
 Radius: 80 meters Mapping PrecisionSPECIFIC Section: 05 Qtr: SW
 Elevation: 34 ft Symbol Type:POINT Meridian: M

Location: JUST NORTH OF RADIO STATION ROAD AND 0.4 MILE EAST OF ROBBEN ROAD, 4 MILES SSE OF DIXON.
 Location Detail: BURROWS ARE IN A DIRT AND GRAVEL MOUND LOCATED IN THE NW CORNER OF A GAS WELL PAD.
 Ecological: SITE IS SURROUNDED BY IRRIGATED AGRICULTURE (CROP TYPE CHANGES YEARLY).
 Threat: POSSIBLE THREAT FROM REMOVAL OF OLD GAS WELL TO RETURN THE AREA TO AGRICULTURAL USE.
 General: 2 ADULTS AND 2 JUVENILES OBSERVED ON 23 JULY 1996.
 Owner/Manager: PVT

Occurrence No. 237 Map Index: 33490 EO Index: 25048 Dates Last Seen _____
 Occ Rank: Good Element: 1996-07-19
 Origin: Natural/Native occurrence Site: 1996-07-19
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1996-09-11

Quad Summary: Dixon (3812147/498A)
 County Summary: Solano

Lat/Long: 38.46822° / -121.80294° Township: 07N
 UTM: Zone-10 N4258445 E604428 Range: 02E
 Radius: 80 meters Mapping PrecisionSPECIFIC Section: 07 Qtr: NW
 Elevation: 55 ft Symbol Type:POINT Meridian: M

Location: JUST EAST OF PEDRICK ROAD AND NORTH OF VAUGHN ROAD, 1 MILE NE OF DIXON.
 Location Detail: BURROWS ARE LOCATED IN OR ADJACENT TO A CYCLONE-FENCED AREA THAT CONTAINS 3 GRAIN STORAGE BINS.
 Ecological: SITE IS CLEARED OF "WEEDS" ABOUT ONCE A YEAR; IRRIGATED CROPLANDS ARE ADJACENT TO THE NORTH AND EAST AND A RAILROAD SPUR FOR LOADING SUGAR BEETS IS ADJACENT TO THE WEST.
 General: 1 ADULT AND 2 JUVENILES WERE OBSERVED ON 19 JULY 1996; HOWEVER, OWLS HAVE INHABITED THIS SITE YEAR-ROUND FOR AT LEAST THE PAST TWO YEARS.
 Owner/Manager: PVT

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 238	Map Index: 33491	EO Index: 24226	Dates Last Seen
Occ Rank: Fair			Element: 1996-07-23
Origin: Natural/Native occurrence			Site: 1996-07-23
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1996-09-11

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.48977° / -121.80093°	Township: 08N
UTM: Zone-10 N4260839 E604573	Range: 02E
Area: 12.1 acres	Section: 31
Elevation: 60 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POLYGON	

Location: JUST SOUTH OF SPAULDING ROAD, 0.2 MILE EAST OF PEDRICK ROAD, 2.5 MILES NNE OF DIXON.
Location Detail: BURROWS ARE LOCATED ALONG A CYCLONE FENCE THAT DELINEATES THE SOUTHERN BOUNDARY OF THE CALTRANS MAINTENANCE STATION AND THE TRUCKING YARD ADJACENT TO CALTRANS ON THE EAST.
Ecological: SITE IS SURROUNDED BY IRRIGATED AGRICULTURE TO THE SOUTH AND SOUTHWEST.
Threat: POSSIBLE THREAT FROM COMMERCIAL DEVELOPMENT OF THE AREA SOUTH OF THE CALTRANS YARD.
General: 2 ADULTS AND 2 UNKNOWN-AGE OWLS OBSERVED ON 23 JULY 1996.
Owner/Manager: CALTRANS

Occurrence No. 239	Map Index: 33492	EO Index: 8347	Dates Last Seen
Occ Rank: Fair			Element: 1996-07-19
Origin: Natural/Native occurrence			Site: 1996-07-19
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1996-09-11

Quad Summary: Liberty Island (3812136/497C)
County Summary: Solano

Lat/Long: 38.37309° / -121.72563°	Township: 06N
UTM: Zone-10 N4247980 E611319	Range: 02E
Area: 30.3 acres	Section: 11
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POLYGON	

Location: JUST NORTH OF DELHI ROAD, BETWEEN ETZEL ROAD AND WINSHIP ROAD, 2 MILES SE OF LIBFARM.
Ecological: LAND USE ON BOTH SIDES OF DELHI ROAD CONSISTS OF IRRIGATED PASTURELAND, PREDOMINANTLY GRASSES.
Threat: POSSIBLE THREAT FROM DITCH REPAIR/CLEANOUT.
General: 2 PAIRS OF ADULTS, ONE WITH 4 JUVENILES, WERE OBSERVED ON 19 JULY 1996.
Owner/Manager: PVT

Occurrence No. 240	Map Index: 33493	EO Index: 8346	Dates Last Seen
Occ Rank: Good			Element: 2004-05-XX
Origin: Natural/Native occurrence			Site: 2004-05-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-11-29

Quad Summary: Liberty Island (3812136/497C), Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.37727° / -121.73441°	Township: 06N
UTM: Zone-10 N4248433 E610545	Range: 02E
Area:	Section: 10
Elevation: 15 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: OLD RAILROAD GRADE, BETWEEN ETZEL ROAD AND DELHI ROAD, 2 MILES SE OF LIBFARM
Location Detail: BURROWS ARE LOCATED IN THE EAST AND WEST LEVEES (BANKS) OF A LARGE CANAL WHICH TRAVERSES SW-NE FROM DELHI ROAD; OCCUPIED BURROWS BEGIN ABOUT 300 FEET NORTH OF DELHI ROAD, EXTENDING TO AT LEAST 1000 FEET NORTH OF DELHI ROAD.
Ecological: HABITAT CONSISTS OF A CANAL BANK SURROUNDED BY PASTURELAND TO THE SW (ACROSS DELHI ROAD) AND IRRIGATED CROPLAND TO THE WEST AND SE. 5/5/2003 HABITAT APPEARS AS DESCRIBED.
Threat: POSSIBLE THREAT FROM LEVEE MAINTENANCE.
General: 5 ADULTS AND 8 JUVENILES OBSERVED ON 23 JULY 1996. AT LEAST ONE ADULT OWL FLUSHED FROM BURROWS ON 20 FEB 2002 AND AGAIN ON 7 MAY 2002. 5 MAY 2003, NO OWLS WERE SEEN. 6 ACTIVE BURROWS OBSERVED DURING MAY 2004.
Owner/Manager: PVT

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G4 **CDFG Status:** SC
 State: None **State:** S2

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 241 **Map Index:** 33494 **EO Index:** 5306 **Dates Last Seen** _____
Occ Rank: Good **Element:** 1996-07-19
Origin: Natural/Native occurrence **Site:** 1996-07-19
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1996-09-12

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.38286° / -121.71286° **Township:** 06N
UTM: Zone-10 N4249079 E612419 **Range:** 02E
Area: 17.7 acres **Mapping Precision:**SPECIFIC **Section:** 11 **Qtr:** NE
Elevation: 20 ft **Symbol Type:**POLYGON **Meridian:** M

Location: WEST SIDE OF LIBERTY ISLAND ROAD, 1.3 MILES SOUTH OF KING ROAD, 11 MILES EAST OF DIXON.
Location Detail: BURROWS ARE LOCATED IN THE WEST BANK OF A DITCH THAT PARALLELS LIBERTY ISLAND ROAD.
Ecological: SURROUNDING HABITAT CONSISTS OF IRRIGATED PASTURELANDS.
General: 2 ADULTS OBSERVED ON 19 JULY 1996.
Owner/Manager: PVT

Occurrence No. 242 **Map Index:** 33495 **EO Index:** 25508 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 1996-07-19
Origin: Natural/Native occurrence **Site:** 2003-05-05
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.44332° / -121.72058° **Township:** 07N
UTM: Zone-10 N4255779 E611652 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 23 **Qtr:** NE
Elevation: 30 ft **Symbol Type:**POINT **Meridian:** M

Location: JUST EAST OF BULKLEY ROAD, 0.6 MILE SOUTH OF HACKMAN ROAD, 9 MILES EAST OF DIXON.
Location Detail: BURROW SITE IS LOCATED 200 FEET EAST OF BULKLEY ROAD, ALONG THE SOUTH EDGE OF AN IRRIGATION DITCH. 5/5/2003 BROKEN CONCRETE RUBBLE PRESENT NEAR THE CULVERT, POSSIBLE BURROW AREAS.
Ecological: SURROUNDING LAND USE IS PRIMARILY IRRIGATED AGRICULTURE.
Threat: POSSIBLE THREAT FROM ACTIVITIES RELATED TO DITCH EROSION REPAIR.
General: 4 OWLS OF UNKNOWN-AGE OBSERVED ON 19 JULY 1996. 5/5/2003 NO OWLS WERE SEEN.
Owner/Manager: PVT

Occurrence No. 243 **Map Index:** 33496 **EO Index:** 8350 **Dates Last Seen** _____
Occ Rank: Good **Element:** 1996-07-23
Origin: Natural/Native occurrence **Site:** 2003-05-05
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Solano, Yolo

Lat/Long: 38.44083° / -121.69427° **Township:** 07N
UTM: Zone-10 N4255535 E613952 **Range:** 02E
Area: 31.0 acres **Mapping Precision:**SPECIFIC **Section:** 24 **Qtr:** NE
Elevation: 20 ft **Symbol Type:**POLYGON **Meridian:** M

Location: JUST WEST OF COUNTY ROAD 104, 0.6 MILE SOUTH OF HACKMAN ROAD, 10.5 MILES EAST OF DIXON.
Location Detail: BURROW SITE IS LOCATED ALONG THE WEST BANK OF A DITCH THAT RUNS PARALLEL TO COUNTY ROAD 104; ONE ACTIVE BURROW IS LOCATED ADJACENT TO THE NE CORNER OF A CORRAL. 5/5/2003- HABITAT APPEARED THE SAME, CORRAL STILL PRESENT
Ecological: SURROUNDING HABITAT CONSISTS OF IRRIGATED PASTURE/AGRICULTURE.
Threat: POSSIBLE THREAT FROM ACTIVITIES RELATED TO DITCH REPAIR WORK. CORRAL PRESENT.
General: 3 ADULTS AND 2 JUVENILES OBSERVED ON 23 JULY 1996. 5/5/2003- 0 BIRDS OBSERVED, HIGH GREEN GRASS DUE TO LATE RAINS MAYBE HIDING BURROWS.
Owner/Manager: PVT

Athene cunicularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 272	Map Index: 39425	EO Index: 34427	Dates Last Seen
Occ Rank: None			Element: 2002-06-08
Origin: Natural/Native occurrence			Site: 2004-07-29
Presence: Possibly Extirpated			
Trend: Unknown			Record Last Updated: 2004-11-09

Quad Summary: Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.39343° / -121.94531°	Township: 06N
UTM: Zone-10 N4249994 E592103	Range: 01W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 95 ft	Section: 02 Qtr: XX
	Symbol Type: POLYGON Meridian: M

Location: NORTH SIDE OF VACA VALLEY PARKWAY, APPROXIMATELY 100 YDS WEST OF THE INTERSECTION WITH ACKERLY DRIVE, NORTH OF VACAVILLE

Location Detail:BURROWS ARE LOCATED BENEATH ROWS OF PLANTED TREES ADJACENT TO THE ROADWAYS.

Ecological: HABITAT SURROUNDING BURROWS CONSISTS OF DISTURBED, NON-NATIVE GRASSLAND. GROUND HAS BEEN PLOWED TO WITHIN FEET OF TREES. AREA IS FUTURE SITE OF DEVELOPMENT.

Threat: POSSIBLE THREATS INCLUDE PARKWAY WIDENING AND DEVELOPMENT.

General: 2 ADULTS AND 4 JUVENILES OBSERVED ON 22 JUNE 1998. 2 ADULTS OBSERVED ABOUT 400 FT NORTH OF VACA VALLEY PARKWAY ON 8 JUN 2002. SPECIES NOT OBSERVED ON 29 JUL 2004.

Owner/Manager: UNKNOWN

Occurrence No. 361	Map Index: 43203	EO Index: 43203	Dates Last Seen
Occ Rank: Excellent			Element: 2000-06-18
Origin: Natural/Native occurrence			Site: 2000-06-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-07-12

Quad Summary: Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.41243° / -121.94462°	Township: 07N
UTM: Zone-10 N4252104 E592139	Range: 01W
Radius: 80 meters	Mapping Precision: SPECIFIC
Elevation: 110 ft	Section: 35 Qtr: NW
	Symbol Type: POINT Meridian: M

Location: NE OF THE INTERSECTION OF I-505 AND GIBSON CANYON CREEK (NORTH FORK), 2 MILES WEST OF VACA VALLEY RACEWAY.

Location Detail:BURROWS ARE LOCATED AT THE TOP OF THE BANK OF AN INCISED CHANNEL.

Ecological: BURROWS ARE SURROUNDED BY GRAZED NON-NATIVE GRASSLAND, WITH NUMEROUS GROUND SQUIRRELS IN THE VICINITY.

Threat: THREATS INCLUDE DEVELOPMENT AND EROSION OF CREEK CHANNEL (CAUSING BURROW COLLAPSE).

General: SITE HAS BEEN ACTIVE SINCE AT LEAST 1997, WITH 1-2 PAIRS PRESENT. 2 PAIRS OBSERVED, ONE WITH 2 YOUNG, ON 18 JUN 2000.

Owner/Manager: PVT

Athene cunicularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 369	Map Index: 43953	EO Index: 43953	Dates Last Seen
Occ Rank: Fair			Element: 2000-04-28
Origin: Natural/Native occurrence			Site: 2000-04-28
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-03

Quad Summary: Rio Vista (3812126/480B)
County Summary: Solano

Lat/Long: 38.17784° / -121.74166°	Township: 04N
UTM: Zone-10 N4226295 E610213	Range: 02E
Area: 11.0 acres	Section: 22
Elevation: 90 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: AZEVEDO ROAD, 0.9 MILE SOUTH OF THE CARTWRIGHT ROAD JUNCTION, NW OF RIO VISTA.
Location Detail: 5+ BURROWS LOCATED ALONG BOTH SIDES (MOST ACTIVITY FOUND ON THE EAST SIDE) OF AZEVEDO ROAD, AT LEAST SEVERAL OF WHICH SHOWED SIGNS OF OWL USE.
Ecological: HABITAT SURROUNDING BURROWS CONSISTS OF RUDERAL GRASS AND FORBS.
General: 1 ADULT OBSERVED ON 28 APR 2000 AT THE BURROW SITE; LATER, SAME OWL (PRESUMABLY) FOUND DEAD ON THE ROAD.
Owner/Manager: SOL COUNTY

Occurrence No. 370	Map Index: 43955	EO Index: 43955	Dates Last Seen
Occ Rank: Good			Element: 2000-05-20
Origin: Natural/Native occurrence			Site: 2000-05-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-03

Quad Summary: Rio Vista (3812126/480B)
County Summary: Solano

Lat/Long: 38.16119° / -121.74842°	Township: 04N
UTM: Zone-10 N4224439 E609646	Range: 02E
Radius: 80 meters	Section: 27
Elevation: 100 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: ALONG EMIGH ROAD, 0.35 MILE WEST OF THE AZEVEDO ROAD JUNCTION, WEST OF RIO VISTA
Location Detail: OWL OBSERVED OCCUPYING A BURROW SOUTH OF THE ROAD, JUST OVER THE FENCE LINE, ON THE MARGINS OF A GRAIN FARM.
Ecological: HABITAT CONSISTS OF A SOUTH-FACING BURROW ON THE SOUTH SIDE OF THE ROAD AND A SECOND, LESS-USED BURROW ON THE NORTH SIDE OF THE ROAD.
General: 1 ADULT FIRST OBSERVED ON 21 JAN 2000 AT THE SOUTH BURROW.
Owner/Manager: PVT

Occurrence No. 371	Map Index: 43958	EO Index: 43958	Dates Last Seen
Occ Rank: Good			Element: 2000-02-XX
Origin: Natural/Native occurrence			Site: 2000-02-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-03

Quad Summary: Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.16018° / -121.75251°	Township: 04N
UTM: Zone-10 N4224322 E609289	Range: 02E
Radius: 80 meters	Section: 28
Elevation: 140 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: SOUTH SIDE OF EMIGH ROAD, 1.4 MILES EAST OF THE ANDERSON ROAD JUNCTION, WEST OF RIO VISTA
Ecological: HABITAT CONSISTS OF A MAMMAL BURROW IN THE ROADCUT OF EMIGH ROAD; BURROW FACES NORTH, ON THE SOUTH SIDE OF THE ROAD, ABOUT 6-7 FEET UP THE ROAD CUT. SURROUNDING LAND USE IS GRAIN CROPS.
General: 1 ADULT OBSERVED NUMEROUS TIMES BETWEEN 2 DEC 1999 THROUGH FEB 2000.
Owner/Manager: SOL COUNTY

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 372	Map Index: 43961	EO Index: 43961	Dates Last Seen
Occ Rank: Good			Element: 2000-01-03
Origin: Natural/Native occurrence			Site: 2000-01-24
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-03

Quad Summary: Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.13728° / -121.75496°	Township: 03N
UTM: Zone-10 N4221779 E609109	Range: 02E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 80 ft	Section: 04 Qtr: NE
	Symbol Type: POLYGON
	Meridian: M

Location: ALONG ANDERSON ROAD, 0.25-0.50 MILE NW OF THE MONTEZUMA HILLS ROAD JUNCTION, SW OF RIO VISTA.
Location Detail: MOST OF THE BURROWS WERE LOCATED IN THE UPHILL SIDE OF THE ROAD CUT FOR MONTEZUMA HILLS ROAD.
Ecological: HABITAT CONSISTS OF A MAMMAL BURROWS IN THE ROAD CUT OF ANDERSON ROAD. SURROUND LAND IS PASTURE AND GRAIN FARMS.
Threat: THREATENED BY DOMESTIC CATS.
General: 3 ADULT OWLS OBSERVED AT 3 ADJACENT BURROWS ON 8 DEC 1999. 1 ADULT OWL OBSERVED AT A FOURTH BURROW ON 3 JAN 2000; THIS BURROW WAS FLOODED ON 24 JAN 2000.
Owner/Manager: PVT, SOL COUNTY

Occurrence No. 373	Map Index: 43971	EO Index: 43971	Dates Last Seen
Occ Rank: Fair			Element: 2000-04-XX
Origin: Natural/Native occurrence			Site: 2000-04-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-04

Quad Summary: Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.21953° / -121.76010°	Township: 04N
UTM: Zone-10 N4230899 E608536	Range: 02E
Radius: 80 meters	Mapping Precision: SPECIFIC
Elevation: 30 ft	Section: 04 Qtr: SW
	Symbol Type: POINT
	Meridian: M

Location: SW CORNER OF A 90-DEGREE TURN IN ROBINSON ROAD, 0.5 MILE NORTH OF FLANNERY ROAD, NW OF RIO VISTA.
Location Detail: BURROW IS LOCATED IN THE BOTTOM OF A ROADSIDE DITCH.
Ecological: HABITAT CONSISTS OF A ROADSIDE DITCH WITH BROKEN CONCRETE.
Threat: THREATENED BY DOMESTIC CATS AND FLOODING.
General: 1 ADULT OBSERVED ON MULTIPLE VISITS BETWEEN NOV 1999-APR 2000.
Owner/Manager: SOL COUNTY

Occurrence No. 374	Map Index: 43973	EO Index: 43973	Dates Last Seen
Occ Rank: Good			Element: 2000-05-20
Origin: Natural/Native occurrence			Site: 2000-05-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-04

Quad Summary: Antioch North (3812117/481D), Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.12518° / -121.76441°	Township: 03N
UTM: Zone-10 N4220425 E608298	Range: 02E
Radius: 80 meters	Mapping Precision: SPECIFIC
Elevation: 200 ft	Section: 09 Qtr: NW
	Symbol Type: POINT
	Meridian: M

Location: ALONG MONTEZUMA HILLS ROAD, 1 MILE SW OF THE ANDERSON ROAD JUNCTION, SW OF RIO VISTA
Location Detail: BURROW ABOUT 15 FT UP ON TOP OF ROADCUT, NEAR FENCE ON SOUTH SIDE OF ROAD.
Ecological: HABITAT CONSISTS OF A NUMBER OF BURROWS IN THE ROADCUT ON THE PASS OF MONTEZUMA HILLS ROAD.
General: 1 ADULT FIRST OBSERVED IN A BURROW ON 13 JAN 2000.
Owner/Manager: SOL COUNTY

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 375	Map Index: 43974	EO Index: 43974	Dates Last Seen
Occ Rank: Fair			Element: 2002-02-07
Origin: Natural/Native occurrence			Site: 2002-02-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-06-19

Quad Summary: Liberty Island (3812136/497C), Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.35974° / -121.74964°	Township: 06N
UTM: Zone-10 N4246470 E609241	Range: 02E
Area: 20.8 acres	Mapping Precision: SPECIFIC
Elevation: 20 ft	Section: 16 Qtr: SW
	Symbol Type: POLYGON
	Meridian: M

Location: EAST SIDE OF SIKES ROAD, JUST NORTH OF SWAN ROAD, AND SW OF SIKES ROAD ALONG THE RR GRADE, NNE OF DOZIER
Ecological: HABITAT CONSISTS OF CONCRETE IRRIGATION PIPES USED AS BURROWS; SURROUNDED BY IRRIGATED PASTURE AND GRASSLAND USED FOR GRAZING GOATS.
Threat: THREATENED BY SEASONAL FLOODING, OVER-GRAZING, AND DOMESTIC CATS.
General: A SINGLE OWL WAS OBSERVED USING TWO DIFFERENT PIPES ON 29 NOV 1999; DITCH WAS FLOODED OUT BY 1 FEB 2000. AT LEAST ONE OWL OBSERVED USING A RUSTY PIPE AS A BURROW ON 7 FEB 2002.

Owner/Manager: PVT

Occurrence No. 376	Map Index: 43979	EO Index: 43979	Dates Last Seen
Occ Rank: Unknown			Element: 2000-02-01
Origin: Natural/Native occurrence			Site: 2000-02-01
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-04

Quad Summary: Liberty Island (3812136/497C)
County Summary: Solano

Lat/Long: 38.37342° / -121.74926°	Township: 06N
UTM: Zone-10 N4247988 E609254	Range: 02E
Radius: 80 meters	Mapping Precision: SPECIFIC
Elevation: 20 ft	Section: 10 Qtr: SW
	Symbol Type: POINT
	Meridian: M

Location: EAST SIDE OF SIKES ROAD, 7 MILES SE OF DIXON.
Ecological: HABITAT CONSISTS OF SEVERAL CONCRETE IRRIGATION PIPES IN AN IRRIGATION DITCH; SURROUNDED BY IRRIGATED PASTURE.
Threat: THREATENED BY USE OF IRRIGATION DITCH/FLOODING.
General: 1 OWL OBSERVED AT BURROW ON 29 NOV 1999. POSSIBLY A WINTERING SITE; OWL NOT OBSERVED AFTER 1 FEB 2000.

Owner/Manager: PVT

Occurrence No. 377	Map Index: 43985	EO Index: 43985	Dates Last Seen
Occ Rank: Excellent			Element: 2000-05-20
Origin: Natural/Native occurrence			Site: 2000-05-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-10

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.30605° / -121.78778°	Township: 05N
UTM: Zone-10 N4240468 E605987	Range: 02E
Radius: 80 meters	Mapping Precision: SPECIFIC
Elevation: 10 ft	Section: 06 Qtr: SE
	Symbol Type: POINT
	Meridian: M

Location: NORTH OF ULATIS CREEK, 1.6 MILES SOUTH OF MAINE PRAIRIE SCHOOL, 16 MILES NORTH OF RIO VISTA
Ecological: HABITAT CONSISTS OF A BURROW IN A LOW, CLEARED MOUND IN A SHEEP PATURE; OTHER MOUNDS WITH BURROWS IN THE VICINITY APPEARED TO BE INACTIVE.
Threat: THREATENED BY CLEARING, PLOWING, OR BURNING.
General: 1 OWL FIRST OBSERVED USING THIS BURROW SITE ON 3 FEB 2000.

Owner/Manager: PVT

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 378	Map Index: 44008	EO Index: 44008	Dates Last Seen
Occ Rank: Good			Element: 2000-05-20
Origin: Natural/Native occurrence			Site: 2000-05-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-11

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.29296° / -121.79569°	Township: 05N
UTM: Zone-10 N4239006 E605314	Range: 02E
Radius: 80 meters	Section: 07
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: EAST SIDE OF SALEM ROAD, SOUTH OF ULATIS CREEK, 2.5 MILES SOUTH OF MAINE PRAIRIE SCHOOL, NORTH OF RIO VISTA

Location Detail: BURROW IS LOCATED IN A PILE OF BROKEN CONCRETE, ABOUT 50 FEET EAST OF SALEM ROAD.

Ecological: HABITAT CONSISTS OF AN ACTIVE BURROW IN A PILE OF BROKEN CONCRETE, SURROUNDED BY CATTLE/SHEEP PASTURE.

General: 1 ADULT FIRST OBSERVED AT THE BURROW SITE ON 16 NOV 1999.

Owner/Manager: PVT

Occurrence No. 379	Map Index: 44010	EO Index: 44010	Dates Last Seen
Occ Rank: Fair			Element: 1999-12-15
Origin: Natural/Native occurrence			Site: 1999-12-15
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-11

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.28760° / -121.79583°	Township: 05N
UTM: Zone-10 N4238411 E605310	Range: 02E
Area: 9.5 acres	Section: 07
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: EAST SIDE OF SALEM ROAD, SOUTH OF ULATIS CREEK, 3 MILES SOUTH OF MAINE PRAIRIE SCHOOL, NORTH OF RIO VISTA

Location Detail: TWO BURROWS LOCATED IMMEDIATELY EAST OF THE FENCE ON THE EAST SIDE OF SALEM ROAD.

Ecological: SITE CONSISTS OF TWO BURROWS: ONE BURROW LOCATED IN A CONCRETE "PILLOW" FORTIFICATION AT THE SLOUGH TRIBUTARY AND A METAL PIPE BEING USED AS A BURROW.

Threat: THREATENED BY FLOODING.

General: SINGLE OWL FIRST OBSERVED ON 18 NOV 1999; BOTH BURROWS WERE FLOODED ON 30 NOV 1999, BUT THE OWL RETURNED AFTER THE FLOOD WATERS RECEDED (BY 15 DEC 1999).

Owner/Manager: PVT

Occurrence No. 380	Map Index: 44012	EO Index: 44012	Dates Last Seen
Occ Rank: Fair			Element: 2000-01-31
Origin: Natural/Native occurrence			Site: 2000-01-31
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-12

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.32925° / -121.78297°	Township: 06N
UTM: Zone-10 N4243048 E606374	Range: 02E
Radius: 80 meters	Section: 32
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: 0.2 MILE EAST OF MAINE PRAIRIE SCHOOL, 8 MILE SSE OF DIXON

Location Detail: TWO DRAIN PIPE BURROWS BEING USED BY THIS OWL; ONE ON THE NORTH SIDE AND ONE ON THE SOUTH SIDE OF MAINE PRAIRIE ROAD.

Ecological: HABITAT CONSISTS OF DRAIN PIPE BURROWS ON BOTH SIDES OF THE ROAD; SURROUNDED BY SHEEP PASTURE.

Threat: THREATENED BY FLOODING, ROAD MAINTENANCE, AND FERAL CATS.

General: A SINGLE OWL OBSERVED USING BURROWS BETWEEN 26 JAN-31 JAN 2000.

Owner/Manager: PVT, SOL COUNTY

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	
State: None	State: S2	CDFG Status: SC

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 381	Map Index: 44013	EO Index: 44013	Dates Last Seen
Occ Rank: Fair			Element: 2000-05-XX
Origin: Natural/Native occurrence			Site: 2000-05-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-12

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.33658° / -121.75848°	Township: 06N
UTM: Zone-10 N4243889 E608504	Range: 02E
Radius: 80 meters	Section: 28
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: ALONG BUNKER ROAD, 1.5 MILES ENE OF MAINE PRAIRIE SCHOOL, 8 MILES SE OF DIXON

Ecological: HABITAT CONSISTS OF A METAL PIPE RUNNING UNDER THE ROAD; OPEN AT BOTH ENDS. SURROUNDING AREA IS ROW CROPS AND PASTURE.

Threat: THREATENED BY POTENTIAL PIPE MOVEMENT AND FERAL CATS.

General: 1 OWL OBSERVED USING BURROWS BETWEEN JAN-MAY 2000.

Owner/Manager: PVT

Occurrence No. 382	Map Index: 44037	EO Index: 44037	Dates Last Seen
Occ Rank: Good			Element: 2000-05-20
Origin: Natural/Native occurrence			Site: 2000-05-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-16

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.35749° / -121.75254°	Township: 06N
UTM: Zone-10 N4246217 E608991	Range: 02E
Radius: 80 meters	Section: 21
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: 0.1 MILE SOUTH OF SWAN ROAD AND 0.2 MILE WEST OF SIKES ROAD, SE OF DIXON

Ecological: BURROW CONSISTS OF A CORRUGATED METAL PIPE IN AN ABANDONED ELEVATED RAILROAD RIGHT-OF-WAY; SURROUNDED BY GRAZED PASTURE.

Threat: THREATENED BY NON-NATIVE PREDATORS (FERAL CATS).

General: SINGLE ADULT FIRST OBSERVED AT BURROW ON 18 DEC 1999.

Owner/Manager: PVT

Occurrence No. 383	Map Index: 44038	EO Index: 44038	Dates Last Seen
Occ Rank: Good			Element: 2000-05-20
Origin: Natural/Native occurrence			Site: 2000-05-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-10-16

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.35821° / -121.75550°	Township: 06N
UTM: Zone-10 N4246293 E608732	Range: 02E
Radius: 80 meters	Section: 21
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: NORTH AND SOUTH OF SWAN ROAD, 0.3 MILE WEST OF SIKES ROAD, SE OF DIXON

Ecological: BURROWS LOCATED IN GRAZED GRASSLAND HABITAT; AREA AROUND BURROWS IS WELL-CLEARED. BURROWS ARE SURROUNDED BY GRAZED PASTURELAND.

Threat: THREATENED BY ROAD MAINTENANCE AND NON-NATIVE PREDATORS (FERAL CATS).

General: 3 OWLS (2 ADULTS/1 JUV) FIRST OBSERVED AT THE BURROW SOUTH OF THE ROAD ON 3 JAN 2000 AND 2 ADULT OWLS OBSERVED AT THE BURROW NORTH OF THE ROAD ON 24 JAN 2000.

Owner/Manager: SOL COUNTY

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G4 **CDFG Status:** SC
 State: None **State:** S2

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 384 **Map Index:** 44044 **EO Index:** 44044 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2000-04-28
Origin: Natural/Native occurrence **Site:** 2000-04-28
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2000-10-16

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.35736° / -121.75862° **Township:** 06N
UTM: Zone-10 N4246195 E608460 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 21 **Qtr:** XX
Elevation: _____ **Symbol Type:**POINT **Meridian:** M

Location: JUST SOUTH OF THE SWAN ROAD/BINGHAMPTON ROAD CURVE, SE OF DIXON

Ecological: HABITAT CONSISTS OF A VACANT CORNER WITH RUDERAL VEGETATION.

Threat: THREATENED BY NON-NATIVE PREDATORS (FERAL CATS) AND VEHICLES.

General: A SINGLE OWL WAS OBSERVED AT THE NORTHERNMOST BURROW ON THE EAST SIDE OF THE ROAD ON 19 JAN 2000. ON 28 APR 2000, A SINGLE OWL WAS OBSERVED USING A BURROW ON THE WEST EDGE OF THE ROAD; OWL EASILY FLUSHED BY VEHICLE TRAFFIC.

Owner/Manager: SOL COUNTY

Occurrence No. 385 **Map Index:** 44099 **EO Index:** 44099 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2000-05-20
Origin: Natural/Native occurrence **Site:** 2000-05-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2000-10-24

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.38755° / -121.74942° **Township:** 06N
UTM: Zone-10 N4249556 E609219 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 03 **Qtr:** SE
Elevation: 25 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF SIKES ROAD, 0.5 MILE SOUTH OF TREFOIL ROAD, SE OF DIXON

Location Detail:BURROW ENTRANCE IS NEARLY VERTICAL AND IS LOCATED ABOUT 20 FEET WEST OF SIKES ROAD.

Ecological: BURROW SITE CONSISTS OF AN OLD GROUND SQUIRREL BURROW, LOCATED AT THE EDGE OF A GUNITE-LINED CULVERT CROSSING AN IRRIGATION CANAL

Threat: THREATENED BY VEHICLE TRAFFIC AND POTENTIAL BLOCKAGE OF BURROW ENTRANCE.

General: 1 OWL FIRST OBSERVED AT THE BURROW SITE ON 24 NOV 1999.

Owner/Manager: PVT

Occurrence No. 386 **Map Index:** 44101 **EO Index:** 44101 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2000-05-20
Origin: Natural/Native occurrence **Site:** 2000-05-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2000-10-24

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.39422° / -121.74898° **Township:** 06N
UTM: Zone-10 N4250296 E609247 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 03 **Qtr:** SW
Elevation: 25 ft **Symbol Type:**POINT **Meridian:** M

Location: EAST SIDE OF SIKES ROAD, JUST SOUTH OF TREFOIL ROAD, ESE OF DIXON

Location Detail:BURROW IS LOCATED ABOUT 30 FEET EAST OF SIKES ROAD.

Ecological: BURROW CONSISTS OF A 4-INCH IRRIGATION PIPE IN A DITCH ADJACENT TO IRRIGATED PASTURE.

Threat: THREATENED BY FLOODING (IF IRRIGATION PIPE IS UTILIZED).

General: 1 OWL FIRST OBSERVED AT THE BURROW ON 13 JAN 2000.

Owner/Manager: PVT

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G4 **CDFG Status:** SC
State: None **State:** S2

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 387 **Map Index:** 44102 **EO Index:** 44102 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2000-05-20
Origin: Natural/Native occurrence **Site:** 2000-05-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2000-10-24

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.39446° / -121.74393° **Township:** 06N
UTM: Zone-10 N4250329 E609688 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 03 **Qtr:** NW
Elevation: 20 ft **Symbol Type:**POINT **Meridian:** M

Location: TREFOIL ROAD, 0.3 MILE EAST OF SIKES ROAD, ESE OF DIXON
Location Detail: BURROWS OPEN TO THE SOUTH, FACING THE ROAD.
Ecological: BURROWS CONSIST OF TWO 4-INCH PVC IRRIGATION PIPES IN AN IRRIGATION DITCH.
Threat: THREATENED BY FLOODING (IF IRRIGATION PIPE IS UTILIZED) AND FERAL CATS.
General: 1 OWL FIRST OBSERVED USING BOTH BURROWS ON 17 JAN 2000.
Owner/Manager: PVT

Occurrence No. 388 **Map Index:** 44122 **EO Index:** 44122 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2003-05-05
Origin: Natural/Native occurrence **Site:** 2003-05-05
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.40059° / -121.72126° **Township:** 06N
UTM: Zone-10 N4251037 E611658 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 02 **Qtr:** NE
Elevation: 25 ft **Symbol Type:**POINT **Meridian:** M

Location: EAST SIDE OF BULKLEY ROAD, JUST SOUTH OF KING ROAD, ESE OF DIXON
Location Detail: 1989 BURROW LOCATED IN A BARNYARD CORRAL. 1999 BURROW OBSERVED IN EQUIPMENT/LUMBER STORED ON A PRIVATE LOT; BURROW FACES EAST, AWAY FROM THE ROAD. 5/5/2003 2 BIRDS OBSERVED USING CENTRAL WOOD POLE (S. CLOTHES LINE POLE) FOR PERCH.
Ecological: BURROW SURROUNDED BY RANCH BUILDINGS AND AGRICULTURAL FIELDS. 5/5/2003 ALFALFA TO THE SOUTH AND SHEEP GRAZING NEARBY.
Threat: THREATENED BY FERAL CATS AND MOVEMENT OF EQUIPMENT WHERE THE BURROWS LIE.
General: 1 ADULT OWL OBSERVED AT THE BURROW ON 2 JUL 1989. 1 OWL OBSERVED AT THE BURROW ON 18 NOV 1999. 5/5/2003 2 BIRDS SEEN, BURROW ASSUMED NEARBY.
Owner/Manager: PVT

Occurrence No. 389 **Map Index:** 44131 **EO Index:** 44131 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2000-05-20
Origin: Natural/Native occurrence **Site:** 2003-05-05
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.47758° / -121.72194° **Township:** 07N
UTM: Zone-10 N4259579 E611480 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 02 **Qtr:** SW
Elevation: 35 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF BULKLEY ROAD, 1.25 MILES SOUTH OF TREMONT ROAD, 8 MILES SOUTH OF DAVIS
Location Detail: OWL USES TWO BURROWS ON THE WEST SIDE OF BULKLEY ROAD.
Ecological: HABITAT CONSISTS OF A BURROW AT THE BASE OF A CULVERT AND A BURROW AT THE BERM OF AN IRRIGATION DITCH. 5/5/2003 DITCH AND CULVERT STILL PRESENT, HOLES WERE NOTED, UNSURE IF THEY WERE BURROWS. SURROUNDING AREA IS CULTIVATED AGRICULTURE.
Threat: THREATENED BY CANAL USE AND HOUSE PETS.
General: SINGLE OWL OBSERVED SEVERAL TIMES; FIRST OBSERVED AT BURROW AT THE BASE OF CULVERT ON 13 JAN 2000 AND AT BERM OF IRRIGATION DITCH BURROW ON 11 FEB 2000. 5/5/2003 NO OWLS SEEN.

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G4 CDFG Status: SC
 State: None State: S2

Habitat Associations _____

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
 Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Owner/Manager: UNKNOWN

Occurrence No. 390 Map Index: 44140 EO Index: 44140 Dates Last Seen _____
 Occ Rank: Fair Element: 2000-05-20
 Origin: Natural/Native occurrence Site: 2000-05-20
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-10-25

Quad Summary: Dixon (3812147/498A)
 County Summary: Solano

Lat/Long: 38.41090° / -121.82302° Township: 07N
 UTM: Zone-10 N4252062 E602758 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 35 Qtr: NE
 Elevation: 50 ft Symbol Type: POINT Meridian: M

Location: WEST SIDE OF HIGHWAY 113, 0.4 MILE SOUTH OF MIDWAY ROAD, 2 MILES SOUTH OF DIXON
 Location Detail: BURROW IS LOCATED ALONG AN AGRICULTURAL CANAL BANK, FACING EAST TOWARD HIGHWAY 113, ABOUT 50 FEET FROM THE ROAD.
 Ecological: BURROW IS AN OLD GROUND SQUIRREL BURROW, ON A CANAL BANK THAT IS CLEARED OF ALL VEGETATION.
 Threat: THREATENED BY CANAL USE/MAINTENANCE.
 General: BREEDING PAIR FIRST OBSERVED AT THE BURROW ON 7 MAR 2000.

Owner/Manager: UNKNOWN

Occurrence No. 440 Map Index: 47371 EO Index: 47371 Dates Last Seen _____
 Occ Rank: Good Element: 2001-03-XX
 Origin: Natural/Native occurrence Site: 2001-03-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2002-03-06

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.21330° / -121.96547° Township: 04N
 UTM: Zone-10 N4229987 E590566 Range: 01W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 10 Qtr: NW
 Elevation: 150 ft Symbol Type: POINT Meridian: M

Location: POTRERO HILLS, SE OF FAIRFIELD
 Ecological: HABITAT CONSISTS OF GRAZED ANNUAL GRASSLAND WITH SCATTERED STOCK PONDS; SPRING BRANCH CREEK FLOWS THROUGH THE CENTER OF THE VALLEY. CTS FOUND IN THE VICINITY.
 Threat: THREATENED BY LANDFILL EXPANSION.
 General: A SINGLE OWL WAS OBSERVED ON THE SOUTH SIDE OF THE VALLEY IN JUN 2000. A PAIR WAS OBSERVED AT A BURROW ON 1 FEB 2001; AT LEAST ONE OWL WAS OBSERVED ON TWO SUBSEQUENT VISITS IN MAR 2001.

Owner/Manager: PVT

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 455	Map Index: 48023	EO Index: 48023	Dates Last Seen
Occ Rank: Poor			Element: 2002-05-07
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.38828° / -121.72473°	Township: 06N
UTM: Zone-10 N4249666 E611374	Range: 02E
Radius: 80 meters	Section: 02
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: SACRAMENTO NORTHERN RAILROAD GRADE, 0.5 MILE NE OF THE ETZEL ROAD INTERSECTION, 5/5/2003 ACCESS IS LOCKED.
Location Detail: BURROW IS LOCATED ON THE SIDE OF THE OLD RAILROAD GRADE, WHICH IS USED INFREQUENTLY AS AN ACCESS ROAD.
Ecological: HABITAT SURROUNDING THE BURROW SITE CONSISTS OF GRAZED GRASSLAND AND AGRICULTURE. 5/5/2003 HABITAT APPEARS THE SAME.
General: AT LEAST 1 ADULT OWL WAS FLUSHED FROM THE BURROW ON 7 MAY 2002. 5/5/2003 NO OWLS WERE SEEN.
Owner/Manager: UNKNOWN

Occurrence No. 458	Map Index: 48142	EO Index: 48142	Dates Last Seen
Occ Rank: Fair			Element: 2002-04-18
Origin: Natural/Native occurrence			Site: 2002-04-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-06-19

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.35330° / -121.75624°	Township: 06N
UTM: Zone-10 N4245747 E608674	Range: 02E
Radius: 80 meters	Section: 21
Elevation: 17 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: ALONG THE SACRAMENTO NORTHERN RR GRADE, 0.2 MILE NE OF THE INTERSECTION OF BINGHAMTOM AND SWAN ROADS, NNE OF DOZIER.
Ecological: HABITAT SURROUNDING BURROWS CONSISTS OF GRAZED NON-NATIVE GRASSLAND, WITH SOME VERNAL POOLS AND AGRICULTURAL FIELDS.
General: 1+ OWLS OBSERVED USING BURROW ON 7 FEB AND 18 APR 2002.
Owner/Manager: PVT

Occurrence No. 459	Map Index: 48143	EO Index: 48143	Dates Last Seen
Occ Rank: Fair			Element: 2002-05-XX
Origin: Natural/Native occurrence			Site: 2003-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.45231° / -121.66769°	Township: 07N
UTM: Zone-10 N4256842 E616253	Range: 03E
Area:	Section: 17
Elevation: 15 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: ALONG THE ABANDONED SACRAMENTO NORTHERN RR, EXTENDING 1 MILE SW FROM ROAD 38.
Location Detail: BURROWS ARE PRESENT IN OLD RR GRADE AND IN BERMS THAT BORDER SOME DITCHES. FENCE POSTS AND OLD RAILROAD DETRITUS PROVIDE PERCHES.
Ecological: HABITAT SURROUNDING BURROWS CONSISTS OF GRAZED NON-NATIVE GRASSLAND, WITH SOME VERNAL POOLS. 5/5/2003 CATTLE GRAZING ON THE SITE.
Threat: THREATENED BY THE LACK OF BURROWING MAMMALS (GROUND SQUIRRELS); MOST OF THE EXISTING BURROWS ARE ARTIFICIAL. CATTLE.
General: 4+ OWLS OBSERVED AT BURROW SITES IN FEB AND MAY 2002. 5/5/2003- 0 BIRDS OBSERVED, HIGH GREEN GRASS DUE TO LATE RAINS MAYBE HIDING BURROW SITES.
Owner/Manager: DFG

Athene cunicularia

burrowing owl

Element Code: ABNSB10010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G4 **CDFG Status:** SC
 State: None **State:** S2

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 479 **Map Index:** 48649 **EO Index:** 48649 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2002-03-26
Origin: Natural/Native occurrence **Site:** 2002-03-26
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2002-08-22

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.43112° / -121.83323° **Township:** 07N
UTM: Zone-10 N4254295 E601838 **Range:** 01E
Area: 23.0 acres **Mapping Precision:**SPECIFIC **Section:** 26 **Qtr:** NW
Elevation: 56 ft **Symbol Type:**POLYGON **Meridian:** M

Location: 1.1 MILES NW OF INTERSECTION OF HWY 113 & MIDWAY RD, 0.75 MILE SSW OF DIXON
Location Detail: BURROWS ARE LOCATED ALONG THE BERM SURROUNDING THE "POND A" WATER RETENTION BASIN WHICH COLLECTS RUN-OFF FOR THE CITY OF DIXON.
Ecological: HABITAT SURROUNDING BURROWS IS DOMINATED BY WEEDY, INVASIVE PLANT SPECIES.
Threat: THREATENED BY DEVELOPMENT OF SURROUNDING AREA.
General: 4 ADULTS AND ONE JUVENILE OBSERVED AT TWO BURROWS ON 26 MAR 2002.
Owner/Manager: CITY OF DIXON

Occurrence No. 482 **Map Index:** 48654 **EO Index:** 48654 **Dates Last Seen** _____
Occ Rank: None **Element:** XXXX-XX-XX
Origin: Natural/Native occurrence **Site:** 1989-07-01
Presence: Possibly Extirpated
Trend: Unknown **Record Last Updated:** 2002-08-22

Quad Summary: Dixon (3812147/498A), Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.40223° / -121.86956° **Township:** 06N
UTM: Zone-10 N4251049 E598706 **Range:** 01E
Radius: 2/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 04 **Qtr:** XX
Elevation: 60 ft **Symbol Type:**POINT **Meridian:** M

Location: 3.8 MILES SW OF DIXON; ALONG WEBER ROAD BETWEEN BATAVIA ROAD AND FOX ROAD.
General: HISTORIC SITE. INDIVIDUALS NOT DETECTED ON 1 JUL 1989.
Owner/Manager: UNKNOWN

Occurrence No. 483 **Map Index:** 48655 **EO Index:** 48655 **Dates Last Seen** _____
Occ Rank: None **Element:** XXXX-XX-XX
Origin: Natural/Native occurrence **Site:** 1989-07-01
Presence: Possibly Extirpated
Trend: Unknown **Record Last Updated:** 2002-08-22

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.43114° / -121.82266° **Township:** 07N
UTM: Zone-10 N4254309 E602760 **Range:** 01E
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 26 **Qtr:** XX
Elevation: 55 ft **Symbol Type:**POINT **Meridian:** M

Location: 1 MILE DIRECTLY SOUTH OF DIXON ON RIO-DIXON ROAD (SR 113).
General: HISTORIC SITE. INDIVIDUALS NOT DETECTED ON 1 JUL 1989.
Owner/Manager: UNKNOWN

Athene cunicularia

burrowing owl

Element Code: ABNSB10010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G4 **CDFG Status:** SC
 State: None **State:** S2

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 484 **Map Index:** 48656 **EO Index:** 48656 **Dates Last Seen** _____
Occ Rank: None **Element:** XXXX-XX-XX
Origin: Natural/Native occurrence **Site:** 1989-07-01
Presence: Possibly Extirpated
Trend: Unknown **Record Last Updated:** 2002-08-22

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.44354° / -121.81439° **Township:** 07N
UTM: Zone-10 N4255694 E603464 **Range:** 01E
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 24 **Qtr:** XX
Elevation: 55 ft **Symbol Type:**POINT **Meridian:** M

Location: DIXON; SOUTH OF DIXON AVENUE EAST AT THE LITTLE LEAGUE FIELD.

General: HISTORIC SITE. INDIVIDUALS NOT DETECTED ON 1 JUL 1989.

Owner/Manager: UNKNOWN

Occurrence No. 485 **Map Index:** 48658 **EO Index:** 48658 **Dates Last Seen** _____
Occ Rank: None **Element:** XXXX-XX-XX
Origin: Natural/Native occurrence **Site:** 1989-07-01
Presence: Possibly Extirpated
Trend: Unknown **Record Last Updated:** 2002-08-22

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.41754° / -121.80615° **Township:** 07N
UTM: Zone-10 N4252818 E604221 **Range:** 01E
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 25 **Qtr:** SE
Elevation: 45 ft **Symbol Type:**POINT **Meridian:** M

Location: 2 MILES SE OF DIXON; NW CORNER OF INTERSECT OF PEDRICK ROAD AND MIDWAY ROAD.

General: HISTORIC SITE. INDIVIDUALS NOT DETECTED ON 1 JUL 1989.

Owner/Manager: UNKNOWN

Occurrence No. 490 **Map Index:** 48680 **EO Index:** 48680 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 1989-01-07
Origin: Natural/Native occurrence **Site:** 2003-05-05
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2003-05-07

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.41539° / -121.72042° **Township:** 07N
UTM: Zone-10 N4252680 E611709 **Range:** 02E
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 35 **Qtr:** NE
Elevation: 30 ft **Symbol Type:**POINT **Meridian:** M

Location: SE CORNER OF MIDWAY ROAD AND BUCKLEY ROAD; 1 MILE NNW LIBFARM.

Ecological: AREA PRIMARILY IN FARMING. 5/5/2003 DITCH AREA SOUTH OF ROAD HAS LITTLE VEGETATION, PROBABLY NEWLY CUT. AGRICULTURE ON SE RECENTLY PLOWED. SEVERAL HOLES SPOTTED IN THE DITCH EDGE.

Threat: FARMING MAY BE A THREAT

General: 2 INDIVIDUALS OBSERVED ROOSTING IN CULVERTS ON 30 JAN 1982. NOT SEEN IN 1987 OR 1988. SEEN AGAIN 7 JAN 1989. 5/5/2003 NO BIRDS SEEN.

Owner/Manager: UNKNOWN

Athene cunicularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 556	Map Index: 50573	EO Index: 50573	Dates Last Seen
Occ Rank: Excellent			Element: 2002-12-10
Origin: Natural/Native occurrence			Site: 2002-12-10
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-03-12

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.15599° / -122.11612°	Township: 04N
UTM: Zone-10 N4223492 E577438	Range: 02W
Radius: 80 meters	Section: 32
Elevation: 132 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: AT INTERSECTION OF LOPES RD & GATED ACCESS ROAD, 0.2 MILE N OF MARSH VIEW RD CROSSING OVER I-680, 7 MI SSW OF FAIRFIELD
Ecological: HABITAT CONSISTS OF AN AREA OF LOW-GROWING MIXED HERBACEOUS PLANTS CONTAINING 100+ POTENTIAL BURROWS, SOME WITH BUOW WHITEWASH AND PELLETS. SURROUNDING AREA DOMINATED BY CATTLE GRAZING.
Threat: THREATENED BY CONSTRUCTION OF A PROPOSED FIRING RANGE.
General: 2 INDIVIDUALS OBSERVED IN NOV-DEC 2002.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 658	Map Index: 53965	EO Index: 53965	Dates Last Seen
Occ Rank: Excellent			Element: 2005-06-30
Origin: Natural/Native occurrence			Site: 2005-06-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-12

Quad Summary: Dozier (3812137/498D), Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.27762° / -121.87958°	Township: 05N
UTM: Zone-10 N4237212 E597999	Range: 01E
Area:	Section: 17
Elevation: 40 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: E OF THE END OF THE TRAVIS AIR FORCE BASE RUNWAY, MOSTLY S OF THE NORTHERN PACIFIC TRACKS, 2 MILES EAST OF TRAVIS FIELD.
Location Detail: MUZZY RANCH HAS BEEN PROPOSED AS A MITIGATION BANK. PART OF OCCURRENCE: SW 1/4 OF SW 1/4 OF SEC 10 MAPPED ACCORDING TO T-R-S DATA PROVIDED BY SOURCE.
Ecological: HABITAT CONSISTS OF OPEN GRASSLAND, WITH VERNAL/PLAYA POOLS, PRIMARILY ON SOLANO LOAM SOIL. OWLS USE CALIFORNIA GROUND SQUIRREL BURROWS, MOST COMMONLY FOUND ON MIMA MOUNDS, AND CULVERTS ALONG THE TRAVIS AFB FENCELINE.
Threat: 2003: POSSIBLE THREAT FROM CATTLE GRAZING. 2005: DEVELOPMENT.
General: 8 ADULTS (PAIRS AND INDIVIDUALS) OBSERVED, FEB-DEC 2003. 5 ADULTS (1 HIGHLY TERRITORIAL) OBSERVED BETWEEN SW 1/4 OF SW 1/4 & SW 1/4 OF SE 1/4 OF SECTION 10 (EO#932) ON 30 JUN 2005. NO NESTS OBS BUT NEST IN SAME AREA REPORTED 2 WKS LATER.
Owner/Manager: PVT

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G4 State: S2	CDFG Status: SC

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 713	Map Index: 58070	EO Index: 58106	Dates Last Seen
Occ Rank: Poor			Element: 2004-07-29
Origin: Natural/Native occurrence			Site: 2004-07-29
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-11-15

Quad Summary: Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.40217° / -121.89112°	Township: 06N
UTM: Zone-10 N4251020 E596823	Range: 01E
Radius: 80 meters	Section: 05
Elevation: 70 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: ALONG SOUTH SIDE OF WEBER ROAD, 1.25 MILES EAST OF INTERSTATE 80, 6 MILES NORTHEAST OF VACAVILLE.

Ecological: BURROW CONSISTS OF A WOODPILE.

Threat: RELOCATION OF WOODPILE.

General: 2 INDIVIDUALS AND MANY FEATHERS OBSERVED AT WOODPILE ON 29 JUL 2004.

Owner/Manager: PVT

Occurrence No. 720	Map Index: 58227	EO Index: 58263	Dates Last Seen
Occ Rank: Unknown			Element: 2004-05-XX
Origin: Natural/Native occurrence			Site: 2004-05-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-11-29

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.46625° / -121.65433°	Township: 07N
UTM: Zone-10 N4258406 E617396	Range: 03E
Radius: 80 meters	Section: 09
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: ALONG THE ROAD TO GLIDE RANCH, ON THE EAST SIDE OF ROAD 106, 0.5 MILE NORTH OF ROAD 38 JUNCTION, WEST OF SACRAMENTO

Ecological: HABITAT SURROUNDING BURROWS CONSISTS OF GRAZED GRASSLAND.

General: 2 ADULTS AND 4 JUVENILES WERE OBSERVED AT A SERIES OF BURROWS UNDERNEATH POWERLINES DURING MAY 2004.

Owner/Manager: DFG-YOLO BASIN WA

Occurrence No. 721	Map Index: 58229	EO Index: 58265	Dates Last Seen
Occ Rank: Good			Element: 2004-05-XX
Origin: Natural/Native occurrence			Site: 2004-05-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-11-29

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.35390° / -121.76295°	Township: 06N
UTM: Zone-10 N4245807 E608086	Range: 02E
Radius: 80 meters	Section: 21
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: NEAR SWAN ROAD, WEST OF BUNKER STATION ROAD, 7 MILES SSE OF DIXON

Ecological: HABITAT CONSISTS OF GRAZED GRASSLAND.

Threat: THREATENED BY HABITAT LOSS.

General: ONE CLUTCH OF 6-8 EGGS DID NOT HATCH, BUT A SECOND CLUTCH SUCCESSFULLY HATCHED, AS INDICATED BY THE PRESENCE OF 2 ADULTS AND 2 JUVENILES DURING MAY 2004.

Owner/Manager: PVT

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 722	Map Index: 58230	EO Index: 58266	Dates Last Seen
Occ Rank: Unknown			Element: 2004-05-28
Origin: Natural/Native occurrence			Site: 2004-05-28
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-11-29

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.31644° / -121.93445°	Township: 06N
UTM: Zone-10 N4241463 E593149	Range: 01W
Radius: 80 meters	Section: 35
Elevation: 80 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: AT THE INTERSECTION OF MCCORY ROAD AND NORTH GATE ROAD, SE OF VACAVILLE

Location Detail: SINCE NO GROUND SQUIRREL BURROWS ARE FOUND WITHIN THE AREA; BURROWS ARE LOCATED UNDERNEATH A CEMENT BLOCK. A NEARBY CONCRETE RUBBLE PILE SERVES AS A POPULAR ROOSTING AREA.

Ecological: HABITAT CONSISTS OF GRAZED GRASSLAND.

Threat: THREATENED BY HABITAT LOSS.

General: 2 ADULTS AND 4 JUVENILES OBSERVED ON 28 MAY 2004.

Owner/Manager: PVT

Occurrence No. 789	Map Index: 64581	EO Index: 64660	Dates Last Seen
Occ Rank: Poor			Element: 2006-04-27
Origin: Natural/Native occurrence			Site: 2006-04-27
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-05-01

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.40934° / -121.95412°	Township: 07N
UTM: Zone-10 N4251752 E591313	Range: 01W
Radius: 80 meters	Section: 34
Elevation: 115 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: ALONG THE EAST EDGE OF EUBANKS ROAD, 0.55 MILE SOUTH OF MIDWAY ROAD, VACAVILLE

Location Detail: BURROW WAS LOCATED IN THE INTERCHANGE BUSINESS PARK.

Ecological: BURROW WAS LOCATED IN A SINK HOLE ALONG THE ROAD EDGE; SURROUNDED BY A VACANT LOT THAT IS RAPIDLY MOVING TOWARD DEVELOPMENT (MOST LOTS HAVE BEEN GRADED AND FILLED).

Threat: THREATENED BY FUTURE INDUSTRIAL PARK DEVELOPMENT, TRAFFIC, AND ROAD MAINTENANCE.

General: 2 ADULTS PRESENT, 19-23 APR 2006; 1 ADULT (PRESUMABLY, THE MALE) WAS GUARDING THE BURROW ENTRANCE, 24-27 APR 2006.

Owner/Manager: CITY OF VACAVILLE

Occurrence No. 858	Map Index: 66304	EO Index: 66386	Dates Last Seen
Occ Rank: Good			Element: 2006-02-06
Origin: Natural/Native occurrence			Site: 2006-02-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-09-21

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.23905° / -122.04768°	Township: 05N
UTM: Zone-10 N4232768 E583339	Range: 02W
Area:	Section: 35
Elevation: 5 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: EAST OF SOUTH PENNSYLVANIA AVENUE, BETWEEN CORDELIA STREET AND HIGHWAY 12, SOUTH OF FAIRFIELD AND WEST OF SUISUN CITY.

Location Detail: SITE IS SURROUNDED BY SUBURBAN DEVELOPMENT TO THE NORTH AND EAST, PASTURE LAND AND LIGHT INDUSTRIAL TO THE WEST, AND PASTURE LAND AND ESTUARY TO THE SOUTH.

Ecological: HABITAT SURROUNDING BURROW SITE CONSISTS OF NON-NATIVE GRASSLAND, SEASONAL/PERENNIAL MARSHES, VERNAL POOLS, SEASONALLY-SATURATED GRASSLAND, RIPARIAN WETLANDS, AND DRAINAGE CHANNELS.

Threat: THREATENED BY PROPOSED DEVELOPMENT.

General: 2 ADULTS OBSERVED AT AN ACTIVE BURROW ON 6 FEB 2006.

Athene cucularia

burrowing owl

Element Code: ABNSB10010

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G4 CDFG Status: SC
 State: None State: S2

Habitat Associations _____

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
 Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Owner/Manager: UNKNOWN

Occurrence No. 932 Map Index: 69285 EO Index: 70069 Dates Last Seen _____
 Occ Rank: Excellent Element: 2005-06-30
 Origin: Natural/Native occurrence Site: 2005-06-30
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-05-16

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.28766° / -121.84899° Township: 05N
 UTM: Zone-10 N4238359 E600660 Range: 01E
 Area: Mapping PrecisionNON-SPECIFIC Section: 10 Qtr: SE
 Elevation: 25 ft Symbol Type:POLYGON Meridian: M

Location: ABOUT 1.4 MILES WEST OF HIGHWAY 113, ALONG SACRAMENTO NORTHERN RAILROAD GRADE.
 Location Detail: MAPPED IN SW 1/4 OF SE 1/4 OF SECTION 10 ACCORDING TO T-R-S DATA PROVIDED BY SOURCE.

Threat: DEVELOPMENT.

General: 5 ADULTS (1 HIGHLY TERRITORIAL) OBSERVED BETWEEN HERE AND SW 1/4 OF SW 1/4 OF SECTION 10 ON 30 JUN 2005. NO NESTS OBSERVED BUT NEST IN SAME AREA REPORTED TWO WEEKS LATER.

Owner/Manager: PVT

Occurrence No. 952 Map Index: 69412 EO Index: 70188 Dates Last Seen _____
 Occ Rank: Fair Element: 2005-07-08
 Origin: Natural/Native occurrence Site: 2005-07-08
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-06-13

Quad Summary: Allendale (3812148/498B)
 County Summary: Solano

Lat/Long: 38.38257° / -121.93842° Township: 06N
 UTM: Zone-10 N4248797 E592718 Range: 01W
 Area: Mapping PrecisionNON-SPECIFIC Section: 11 Qtr: SE
 Elevation: 87 ft Symbol Type:POLYGON Meridian: M

Location: NORTH AND SOUTH OF GILLEY WAY, BETWEEN LEISURE TOWN ROAD AND ORANGE DRIVE, VACAVILLE.
 Location Detail: ACTIVE BURROWS FOUND IN FIVE LOCATIONS IN 2005; TWO BURROWS CONTAINED ACTIVE JUVENILES.

Ecological: HABITAT CONSISTS OF A MOWED AREA ADJACENT TO A GOLF COURSE, DOMINATED BY BERMUDA GRASS AND YELLOW STAR THISTLE. BURROWS WERE LOCATED QUITE CLOSE TOGETHER, AND SOME WERE LOCATED ADJACENT TO ROADWAYS.

Threat: THREATENED BY TRAFFIC ASSOCIATED WITH THE GOLF COURSE AND GOLF MAINTENANCE ACTIVITIES.

General: ON 8 JUL 2005, 5 ADULTS/3+ JUVENILES OBSERVED AT ONE LOCATION, 2 ADULTS/2 JUVENILES OBSERVED AT A SECOND LOCATION, AND SINGLE ADULTS OBSERVED AT BURROWS AT THE OTHER THREE SITES.

Owner/Manager: UNKNOWN

Athene cunicularia

burrowing owl

Element Code: ABNSB10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

Occurrence No. 962	Map Index: 69441	EO Index: 70220	Dates Last Seen
Occ Rank: Fair			Element: 2005-11-30
Origin: Natural/Native occurrence			Site: 2005-11-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-05-31

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.35890° / -121.89692°	Township: 06N
UTM: Zone-10 N4246213 E596374	Range: 01E
Radius: 80 meters	Section: 20
Elevation: 63 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: JUST SW OF THE INTERSECTION OF LEWIS ROAD AND HAWKINS ROAD, 0.9 MILE NE OF ELMIRA.
Location Detail: BURROW WAS LOCATED AT THE TOP OF A DRAINAGE DITCH, ADJACENT TO A FALLOW FIELD.
Ecological: HABITAT SURROUNDING BURROW CONSISTS OF AN ALFALFA FIELD ACROSS THE ROAD AND A FALLOW FIELD DOMINATED BY 2-4' TALL INVASIVE WEEDS.
Threat: THREATENED BY BUSY TRAFFIC ROADS ADJACENT TO BURROW.
General: BUOW OBSERVED FEEDING ON A SMALL RODENT ON 29 NOV; ON 30 NOV 2005, HEAVY DROPPINGS WERE OBSERVED AROUND THE BURROW ENTRANCE.
Owner/Manager: UNKNOWN

Atriplex cordulata

heartscale

Element Code: PDCHE040B0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2?	CNPS List: 1B.2
State: None	State: S2.2?	

Habitat Associations

General: CHENOPOD SCRUB, VALLEY AND FOOTHILL GRASSLAND, MEADOWS.
Micro: ALKALINE FLATS AND SCALDS IN THE CENTRAL VALLEY, SANDY SOILS. 1-150(600)M.

Occurrence No. 5	Map Index: 24709	EO Index: 2456	Dates Last Seen
Occ Rank: None			Element: 1892-08-16
Origin: Natural/Native occurrence			Site: 1892-08-16
Presence: Extirpated			
Trend: Unknown			Record Last Updated: 2005-09-20

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.32825° / -121.96125°	Township: 06N
UTM: Zone-10 N4242747 E590791	Range: 01W
Radius: 3/5 mile	Section: 34
Elevation: 150 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: LITTLE OAK, NEAR VACAVILLE.
Location Detail: MAPPED IN THE HISTORICAL VICINITY OF THE JEPSON FAMILY'S LITTLE OAK RANCH, EAST OF PEABODY RD AND SOUTH OF ALAMO DR.
General: ONLY SOURCES OF INFORMATION FOR THIS SITE ARE 2 COLLECTIONS BY JEPSON FROM 1887 & 1892. D. TAYLOR SUGGESTS THAT HISTORIC COLLECTION LOCATIONS IN SOLANO COUNTY ARE PROBABLY EXTIRPATED.
Owner/Manager: UNKNOWN

Occurrence No. 43	Map Index: 32022	EO Index: 3951	Dates Last Seen
Occ Rank: Excellent			Element: 1994-08-31
Origin: Natural/Native occurrence			Site: 1994-08-31
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-02-10

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27201° / -121.80593°	Township: 05N
UTM: Zone-10 N4236670 E604449	Range: 01E
Radius: 80 meters	Section: 13
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: JEPSON PRAIRIE; ABOUT 50 FT W OF HWY 113, 0.5 MI S OF BRIDGE OVER BARKER SLOUGH.
Location Detail: FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONS. EASEMENT.
Ecological: ALKALINE MEADOW ADJACENT TO INTERMITTENT STREAM. ASSOCIATED WITH DISTICHLIS SPICATA AND HORDEUM MARINUM. NEAR OTHER RARE PLANTS: DOWNINGIA PUSILLA AND LEGENERE LIMOSA.
Threat: SHEEP GRAZING COULD THREATEN.
General: 100-200 PLANTS IN 1994.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 44	Map Index: 32021	EO Index: 3952	Dates Last Seen
Occ Rank: Fair			Element: 1994-08-10
Origin: Natural/Native occurrence			Site: 1994-08-10
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-03-21

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27809° / -121.84193°	Township: 05N
UTM: Zone-10 N4237305 E601292	Range: 01E
Radius: 80 meters	Section: 14
Elevation: 18 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: 1.4 MI SW OF DOZIER, 1 MILE W OF JUNCTION SACRAMENTO NORTHERN RR AND COOK LANE.
Location Detail: AT END OF PRIVATE ROAD.
Ecological: IN INTERMITTENT DRAINAGE.
Threat: GRAZING THREATENS.
General: 12 PLANTS IN 1994. MORE PLANTS AND HABITAT ON OTHER SIDE OF FENCE, BUT ON PRIVATE PROPERTY; NOT SURVEYED.
Owner/Manager: PVT

Atriplex cordulata

heartscale

Element Code: PDCHE040B0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2?	Other Lists
State: None	State: S2.2?	CNPS List: 1B.2

Habitat Associations

General: CHENOPOD SCRUB, VALLEY AND FOOTHILL GRASSLAND, MEADOWS.
Micro: ALKALINE FLATS AND SCALDS IN THE CENTRAL VALLEY, SANDY SOILS. 1-150(600)M.

Occurrence No. 45	Map Index: 32023	EO Index: 3950	Dates Last Seen
Occ Rank: Excellent			Element: 1994-08-10
Origin: Natural/Native occurrence			Site: 1994-08-10
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-11-01

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25581° / -121.80500°	Township: 05N
UTM: Zone-10 N4234873 E604554	Range: 02E
Area: 1.5 acres	Section: 30
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: CALHOUN CUT ECOLOGICAL RESERVE, 2 MILES SOUTH OF WHERE HWY 113 VEERS SOUTHWARD.
Location Detail: 100 FT EAST OF HWY 113.
Ecological: ALKALI MEADOW AT MARGIN OF MARSH. WITH DISTICHLIS SPICATA, FRANKENIA SALINA, & HEMIZONIA PUNGENS.
General: 100-200 PLANTS IN 1994.
Owner/Manager: DFG-CALHOUN CUT ER

Occurrence No. 47	Map Index: 22104	EO Index: 20988	Dates Last Seen
Occ Rank: Fair			Element: 1994-08-31
Origin: Natural/Native occurrence			Site: 1994-08-31
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-11-14

Quad Summary: Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.24152° / -121.80610°	Township: 05N
UTM: Zone-10 N4233286 E604478	Range: 01E
Radius: 80 meters	Section: 36
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: WEST SIDE OF HWY 113 (RIO-DIXON ROAD) JUST SOUTH OF CREED ROAD JUNCTION.
Location Detail: ALONG FENCELINE.
Ecological: ALKALINE MEADOW ALONG INTERMITTENT DRAINAGE. WITH DISTICHLIS SPICATA, HEMIZONIA PUNGENS, HORDEUM MARINUM, BROMUS HORDEACEUS, AND ISOCOMA ARGUTA.
Threat: SITE IS NON-GRADED PORTION OF HWY RIGHT-OF-WAY.
General: 100-200 PLANTS IN 1994.
Owner/Manager: UNKNOWN, CALTRANS

Occurrence No. 69	Map Index: 49733	EO Index: 49733	Dates Last Seen
Occ Rank: Good			Element: 2001-09-12
Origin: Natural/Native occurrence			Site: 2001-09-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-12-26

Quad Summary: Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.21783° / -121.84328°	Township: 04N
UTM: Zone-10 N4230616 E601257	Range: 01E
Area: 3.2 acres	Section: 03
Elevation: 80 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: ALONG WEST SIDE OF GOOSE HAVEN ROAD, 0.25 MILE SOUTH OF LAMBIE ROAD.
Location Detail: POPULATION LOCATED IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 3.
Ecological: ALKALI MEADOW WITH SCALDS; WITH DISTICHLIS SPICATA, CENTROMADIA PARRYI SSP. RUDIS, HORDEUM MARINUM SSP. GUSSONEANUM.
Threat: GRAZING BY GOATS.
General: 100'S OF INDIVIDUALS OBSERVED IN 2001.
Owner/Manager: UNKNOWN

Atriplex cordulata

heartscale

Element Code: PDCHE040B0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2?	CNPS List: 1B.2
State: None	State: S2.2?	

Habitat Associations

General: CHENOPOD SCRUB, VALLEY AND FOOTHILL GRASSLAND, MEADOWS.
Micro: ALKALINE FLATS AND SCALDS IN THE CENTRAL VALLEY, SANDY SOILS. 1-150(600)M.

Occurrence No.: 71	Map Index: 54637	EO Index: 54637	Dates Last Seen
Occ Rank: Good			Element: 2003-06-18
Origin: Natural/Native occurrence			Site: 2003-06-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-03-09

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.30360° / -121.79848°	Township: 05N
UTM: Zone-10 N4240184 E605055	Range: 02E
Radius: 80 meters	Section: 06
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: NORTHEAST OF DOZIER, APPROXIMATELY 0.3 AIRMILE SSW OF RAILROAD CROSSING OF ULATIS CREEK.
Location Detail: ONE COLONY LOCATED IN THE EASTERN HALF OF THE SOUTHWEST 1/4 OF SECTION 6.
Ecological: IN SPARSELY VEGETATED AREAS WITHIN ALKALINE MESIC GRASSLAND AND VERNALLY WET SWALES. ASSOCIATED SPECIES INCLUDE DISTICHLIS SPICATA, LASTHENIA PLATYCARPHA, HORDEUM MARINUM SSP. GUSSONEANUM, BROMUS HORDEACEUS, AND LOLIUM MULTIFLORUM.
Threat: INVASIVE, ANNUAL NON-NATIVE GRASSES. LARGE HERD OF SHEEP KEPT ON SITE FOR SEVERAL MONTHS IN 2003 AND BEFORE.
General: OPEN GRAZED LAND ON GRIDLEY RANCH (PROPOSED MITIGATION BANK). 75+ INDIVIDUALS OBSERVED IN 2003.
Owner/Manager: PVT-WETLANDS RESOURCES

Atriplex depressa

brittlescale

Element Code: PDCHE042L0

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G2Q **CNPS List:** 1B.2
 State: None **State:** S2.2

Habitat Associations

General: CHENOPOD SCRUB, MEADOWS, PLAYAS, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.
Micro: USUALLY IN ALKALI SCALDS OR ALK. CLAY IN MEADOWS OR ANNUAL GRASSLAND; RARELY ASSOC W/RIPARIAN, MARSHES, OR V.P.S. 1-320M.

Occurrence No. 8 **Map Index:** 24321 **EO Index:** 16629 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 1991-09-08
Origin: Natural/Native occurrence **Site:** 1991-09-08
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1996-09-18

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.13249° / -121.88867° **Township:** 03N
UTM: Zone-10 N4221098 E597397 **Range:** 01E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 05 **Qtr:** SE
Elevation: 5 ft **Symbol Type:** POINT **Meridian:** M

Location: 1 MILE WEST OF BIRDS LANDING, NEAR MONTEZUMA SLOUGH. 0.7 MILE NORTHWEST OF MOLENA.
Ecological: RIPARIAN AND SALT MARSH; PART OF DIKED MARSH FED BY SEASONAL DRAINAGE. IN SHALLOW DEPRESSION OF FLOOD PLAIN W/SUAEDA DEPRESSA ERRECTA, HEMIZONIA PUNGENS, BASSIA HYSSOPIFOLIA, NITROPHILA OCCIDENTALIS, SALICORNIA VIRGINICA, S. SUBTERMINALIS.
Threat: AREA IS USED FOR HUNTING. FENCE CONSTRUCTION AND HERBICIDE APPLICATION FOR DUCK HABITAT MANAGEMENT THREATEN.
General: APPROX 300 PLANTS SEEN IN 1991.
Owner/Manager: PVT

Occurrence No. 19 **Map Index:** 10537 **EO Index:** 16613 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1958-09-08
Origin: Natural/Native occurrence **Site:** 1958-09-08
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1993-10-25

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27018° / -121.82719° **Township:** 05N
UTM: Zone-10 N4236443 E602592 **Range:** 01E
Radius: 1/5 mile **Mapping Precision:** NON-SPECIFIC **Section:** 23 **Qtr:** NE
Elevation: 15 ft **Symbol Type:** POINT **Meridian:** M

Location: 1 MI SW OF DOZIER STATION, 12 MI S OF DIXON.
Location Detail: FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97.
Ecological: LARGE BARREN WHITE ALKALI DRY LAKE BED.
General: MAPPED AT OLCOTT LAKE. 1991 COLLECTION BY TAYLOR FROM 1.1 MI SW OF OLCUTT SIDING, VICINITY OF DOZIER ATTRIBUTED TO THIS
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 55 **Map Index:** 35356 **EO Index:** 30166 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 1996-07-17
Origin: Natural/Native occurrence **Site:** 1996-07-17
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1997-02-04

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.22365° / -121.97711° **Township:** 04N
UTM: Zone-10 N4231124 E589534 **Range:** 01W
Area: **Mapping Precision:** NON-SPECIFIC **Section:** 04 **Qtr:** NE
Elevation: 5 ft **Symbol Type:** POLYGON **Meridian:** M

Location: EAST SIDE OF ACCESS ROAD TO POTRERO HILLS LANDFILL, ABOUT 1.5 MILES SOUTHWEST OF TRAVIS AIR FORCE BASE RUNWAY.
Location Detail: IN WETLANDS ALONG THE EAST SIDE OF ROAD. IN SW1/4 OF NE1/4 OF SECTION 4.
Ecological: ALKALI PLAYA ADJACENT TO TIDAL SALT MARSH. SITE DOMINATED BY NON-NATIVE GRASSES IN UPLANDS AND SALICORNIA SPP. IN WETLANDS. ASSOCIATED WITH POLYPOGON MONSPELIENSIS, SALICORNIA EUROPAEA, S. VIRGINICA, FRANKENIA SALINA, ET AL.
Threat: SITE IS PARTIALLY FILLED AND GRADED. POSSIBLE INVASION BY LEPIDIUM LATIFOLIUM OR SALSOLA.
General: 213 PLANTS OBSERVED IN 1996.
Owner/Manager: PVT

Atriplex depressa

brittlescale

Element Code: PDCHE042L0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2Q	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: CHENOPOD SCRUB, MEADOWS, PLAYAS, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.
Micro: USUALLY IN ALKALI SCALDS OR ALK. CLAY IN MEADOWS OR ANNUAL GRASSLAND; RARELY ASSOC W/RIPARIAN, MARSHES, OR V.P.S. 1-320M.

Occurrence No. 59	Map Index: 49738	EO Index: 49738	Dates Last Seen
Occ Rank: Unknown			Element: 1986-09-01
Origin: Natural/Native occurrence			Site: 1986-09-01
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-12-27

Quad Summary: Denverton (3812128/481B), Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.24294° / -121.92663°	Township: 05N
UTM: Zone-10 N4233315 E593928	Range: 01W
Radius: 1 mile	Section: 25
Elevation:	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: ALONG CREED ROAD, APPROXIMATELY 2 MILES EAST OF HIGHWAY 12.
Location Detail: EXACT LOCATION UNKNOWN; MAPPED AS BEST GUESS BY CNDDDB AT CREED ROAD APPROXIMATELY 2 MILES EAST OF HIGHWAY 12 (VIA BRANSCOME RD AS CREED ROAD DOES NOT DIRECTLY CONNECT TO HIGHWAY 12).
Ecological: BED OF LARGE VERNAL POOL.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1986 COLLECTION BY STONE. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Occurrence No. 64	Map Index: 51023	EO Index: 51023	Dates Last Seen
Occ Rank: Good			Element: 2002-08-21
Origin: Natural/Native occurrence			Site: 2002-08-21
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-04-17

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.28553° / -121.98440°	Township: 05N
UTM: Zone-10 N4237983 E588821	Range: 01W
Area: 1.5 acres	Section: 16
Elevation: 50 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: 1.2 AIRMILES SSE OF CEMENT HILL SUMMIT, SOUTH OF CEMENT HILL ROAD, ALONG UNNAMED DRAINAGE.
Location Detail: TWO SMALL COLONIES MAPPED IN THE NW 1/4 OF THE NW 1/4 OF SECTION 16.
Ecological: OPEN AREAS IN ALKALI MEADOW W/ CENTROMADIA PARRYI SSP. PARRYI, FRANKENIA SALINA, HORDEUM MARINUM SSP. GUSSONEANUM. PERIDERIDIA GAIRDNERI ALSO PRESENT.
Threat: CATTLE GRAZING, PROPOSED ROUTE FOR JEPSON PARKWAY.
General: APPROXIMATELY 24 INDIVIDUALS OBSERVED IN 2002. 1891 COLLECTION BY JEPSON, "WEST OF VANDEN, POINT OF THE PELLEJO HILLS" ATTRIBUTED TO THIS SITE. (VANDEN WAS RR STATION 5 MI S OF VACAVILLE).
Owner/Manager: PVT

Occurrence No. 69	Map Index: 62701	EO Index: 62738	Dates Last Seen
Occ Rank: Unknown			Element: 1992-07-17
Origin: Natural/Native occurrence			Site: 1992-07-17
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-09-23

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25531° / -121.87199°	Township: 05N
UTM: Zone-10 N4234745 E598693	Range: 01E
Area:	Section: 28
Elevation: 30 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: JEPSON PRAIRIE; LARGE PLAYA VERNAL POOL 2.4 MILES SSW OF OLCOTT SIDING.
Location Detail: EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB BASED ON T-R-S INFO BY TAYLOR: T5N, R1E, NE 1/4 OF NW 1/4 OF SECTION 28.
Ecological: SEMI-SALINE CLAY WITH DISTICHLIS SPICATA, FRANKENIA CHARACTERISTIC.
General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1992 COLLECTION BY TAYLOR.
Owner/Manager: SOLANO LAND TRUST

Atriplex joaquiniana

San Joaquin spearscale

Element Code: PDCHE041F3

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G2 **CNPS List:** 1B.2
 State: None **State:** S2.1

Habitat Associations

General: CHENOPOD SCRUB, ALKALI MEADOW, VALLEY AND FOOTHILL GRASSLAND.
Micro: IN SEASONAL ALKALI WETLANDS OR ALKALI SINK SCRUB WITH DISTICHLIS SPICATA, FRANKENIA, ETC. 1-250M.

Occurrence No. 22 **Map Index:** 20319 **EO Index:** 16736 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1891-09-16
Origin: Natural/Native occurrence **Site:** 1891-09-16
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1992-03-27

Quad Summary: Rio Vista (3812126/480B)
County Summary: Solano, Sacramento

Lat/Long: 38.15872° / -121.69617° **Township:** 04N
UTM: Zone-10 N4224228 E614228 **Range:** 02E
Radius: 3/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 25 **Qtr:** XX
Elevation: 50 ft **Symbol Type:**POINT **Meridian:** M

Location: RIO VISTA.
General: ONLY NOTES ON HERBARIUM LABEL ARE: "EXHIBITING A TENDENCY TOWARD DIOECISM." FIELDWORK NEEDED.
Owner/Manager: UNKNOWN

Occurrence No. 26 **Map Index:** 20320 **EO Index:** 16735 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1891-07-05
Origin: Natural/Native occurrence **Site:** 1891-07-05
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1993-03-12

Quad Summary: Liberty Island (3812136/497C), Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.30674° / -121.75728° **Township:** 05N
UTM: Zone-10 N4240580 E608653 **Range:** 02E
Radius: 1 mile **Mapping Precision:**NON-SPECIFIC **Section:** 04 **Qtr:** XX
Elevation: 5 ft **Symbol Type:**POINT **Meridian:** M

Location: MAIN PRAIRIE.
Ecological: DAMP, BARREN SPOTS.
Threat: AG COULD THREATEN.
General: OLD HERBARIUM COLLECTION IS ONLY INFORMATION; NEEDS FIELDWORK.
Owner/Manager: PVT

Occurrence No. 49 **Map Index:** 24730 **EO Index:** 30168 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2004-05-20
Origin: Natural/Native occurrence **Site:** 2004-05-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-27

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.22675° / -121.97162° **Township:** 04N
UTM: Zone-10 N4231474 E590010 **Range:** 01W
Area: 11.7 acres **Mapping Precision:**SPECIFIC **Section:** 04 **Qtr:** NE
Elevation: 5 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ABOUT 1 MILE SW OF TRAVIS AFB RUNWAY; 0.2 MILE SOUTH OF JUNCTION OF HWY 12 AND SCALLY ROAD.
Location Detail: IN FIELD ON WEST SIDE OF SCALLY ROAD, JUST SOUTH OF KILLDEER ROAD.
Ecological: IN ALKALINE GRASSLAND WITH LOLIUM MULTIFLORUM, BROMUS HORDEACEUS, FRANKENIA SALINA, PARAPOLIS INCURVA, AND SALICORNIA VIRGINICA. OTHER RARE PLANTS HERE INCLUDE: ASTRAGALUS TENER TENER, ATRIPLEX CORONATA, AND LASTHENIA CONJUGENS.
General: 100-200 PLANTS OBSERVED IN 1994, ~900 IN 2004. UNCERTAIN WHAT FULL EXTENT OF THIS OCCURRENCE IS, MAY EXTEND FARTHER OUT THAN MAPPED. 2004 OBSERVATION SAYS "APPROX 20 COLONIES WITHIN 75-ACRE SITE" BUT ACCOMPANYING MAP ONLY SHOWS A POINT.
Owner/Manager: PVT

Atriplex joaquiniana

San Joaquin spearscale

Element Code: PDCHE041F3

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.1	

Habitat Associations

General: CHENOPOD SCRUB, ALKALI MEADOW, VALLEY AND FOOTHILL GRASSLAND.
Micro: IN SEASONAL ALKALI WETLANDS OR ALKALI SINK SCRUB WITH DISTICHLIS SPICATA, FRANKENIA, ETC. 1-250M.

Occurrence No. 50	Map Index: 35357	EO Index: 30167	Dates Last Seen
Occ Rank: Fair			Element: 1996-07-17
Origin: Natural/Native occurrence			Site: 1996-07-17
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-09-27

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.22283° / -121.97767°	Township: 04N
UTM: Zone-10 N4231034 E589486	Range: 01W
Area: 4.2 acres	Section: 04
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: EAST SIDE OF ACCESS ROAD TO POTRERO HILLS LANDFILL, ABOUT 1.5 MILES SW OF TRAVIS AFB RUNWAY.
Location Detail: IN WETLANDS ALONG THE EAST SIDE OF ROAD. IN THE SW 1/4 OF THE NE 1/4 OF SECTION 4.
Ecological: ALKALI PLAYA ADJACENT TO TIDAL SALT MARSH. SITE DOMINATED BY NONNATIVE GRASSES IN UPLANDS AND SALICORNIA SPP. IN WETLANDS. ASSOCIATED WITH POLYPOGON MONSPELIENSIS, SALICORNIA EUROPAEA, S. VIRGINICA, FRANKENIA SALINA, ET AL.
Threat: SITE IS PARTIALLY FILLED AND GRADED. POSSIBLE INVASION BY LEPIDIUM LATIFOLIUM OR SALSOLA SPP.
General: 33 PLANTS IN 1996.
Owner/Manager: PVT

Occurrence No. 57	Map Index: 46075	EO Index: 46075	Dates Last Seen
Occ Rank: Unknown			Element: 1991-07-XX
Origin: Natural/Native occurrence			Site: 1991-07-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2001-10-09

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.19806° / -122.09572°	Township: 04N
UTM: Zone-10 N4228177 E579180	Range: 02W
Area: 17.3 acres	Section: 16
Elevation: 2 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: NORTH OF PELTIER SLOUGH, ABOUT 1.5 MILES WNW OF JACKSNIPE, SUISUN MARSH, SOUTHWEST OF FAIRFIELD.
General: PLANTS VERY SPARSE IN 1991. ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1991 MAP FROM PEARCY; NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Occurrence No. 59	Map Index: 46077	EO Index: 46077	Dates Last Seen
Occ Rank: Unknown			Element: 1989-08-06
Origin: Natural/Native occurrence			Site: 1989-08-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2001-10-09

Quad Summary: Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.32547° / -122.01094°	Township: 06N
UTM: Zone-10 N4242390 E586452	Range: 01W
Radius: 1/5 mile	Section: 31
Elevation: 220 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: LAGOON VALLEY, ON SOUTHEAST SHORE OF LAKE, REACHED FROM LAGOON VALLEY ROAD, 0.4 MILE EAST OF INTERSTATE 80.
Location Detail: ON SOUTHEAST SHORE OF LAKE, ELEVATION 220 FEET.
Ecological: AT MARGIN OF LAKE BORDERING SCIRPUS ACUTUS MARSH.
General: PLANTS INFREQUENT IN 1989.
Owner/Manager: UNKNOWN

Atriplex joaquiniana

San Joaquin spearscale

Element Code: PDCHE041F3

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.1	

Habitat Associations

General: CHENOPOD SCRUB, ALKALI MEADOW, VALLEY AND FOOTHILL GRASSLAND.

Micro: IN SEASONAL ALKALI WETLANDS OR ALKALI SINK SCRUB WITH DISTICHLIS SPICATA, FRANKENIA, ETC. 1-250M.

Occurrence No. 61	Map Index: 49767	EO Index: 49767	Dates Last Seen
Occ Rank: Fair			Element: 2004-05-19
Origin: Natural/Native occurrence			Site: 2004-05-19
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-09-27

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.20819° / -121.96202°	Township: 04N
UTM: Zone-10 N4229424 E590874	Range: 01W
Area: 2.2 acres	Section: 10
Elevation: 100 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: POTRERO HILLS, 1.3 AIR MILES SOUTH OF STATE HIGHWAY 12, ALONG INTERMITTENT UNNAMED STREAM.

Location Detail: TWO COLONIES MAPPED IN THE SOUTHERN HALF & SE 1/4 OF THE NW 1/4 OF SECTION 10.

Ecological: IN GRAZED NON-NATIVE GRASSLAND / ALKALI FLAT WITH LOLIUM MULTIFLORUM & HORDEUM MARINUM SSP. GUSSONEANUM DOMINANT. ASSOC: MALVELLA LEPROSA, CENTROMADIA PUNGENS, JUNCUS BUFONIUS, BROMUS HORDEACEUS, & PSILOCARPHUS SP.

Threat: GRAZING ON SITE, ACTIVE LANDFILL EXPANSION POSSIBLY THREATENS OCCURRENCE.

General: ~400 INDIVIDUALS OBSERVED IN 1998, 350-400 IN 2004.

Owner/Manager: POTRERO HILLS LANDFILL

Occurrence No. 63	Map Index: 10073	EO Index: 49793	Dates Last Seen
Occ Rank: Unknown			Element: 1892-06-18
Origin: Natural/Native occurrence			Site: 1892-06-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-01-07

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.28879° / -121.96247°	Township: 05N
UTM: Zone-10 N4238367 E590735	Range: 01W
Radius: 1 mile	Section: 10
Elevation: 80 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: NEAR THE CENTER SCHOOL, SOLANO COUNTY.

Location Detail: MAPPED IN VICINITY OF CENTER SCHOOL.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1892 COLLECTION BY UNKNOWN SOURCE. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No. 71	Map Index: 60327	EO Index: 60363	Dates Last Seen
Occ Rank: Unknown			Element: 2001-06-16
Origin: Natural/Native occurrence			Site: 2001-06-16
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-03-04

Quad Summary: Saxon (3812146/497B), Davis (3812156/513C)

County Summary: Yolo

Lat/Long: 38.49860° / -121.68619°	Township: 08N
UTM: Zone-10 N4261955 E614565	Range: 03E
Radius: 1/10 mile	Section: 31
Elevation: 40 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: N
Symbol Type: POINT	

Location: EAST OF DAVIS, 3.5 MILES SOUTH OF I-80 ON MACE BLVD, THEN 0.5 MILE EAST ALONG ENTRANCE RD, THEN SOUTH 400 YARDS.

Location Detail: 10 YARDS WEST OF DEPARTMENT OF DEFENSE FENCE. MAPPED ACC TO COORDINATES PROVIDED IN SOURCE.

Ecological: ASSOC WITH HORDEUM, LOLIUM, BROMUS HORDEACEUS, AND PLAGIOBOTHRYS.

General: TWO PLANTS OBSERVED IN 2001.

Owner/Manager: DOD

Atriplex persistens

vernal pool smallscale

Element Code: PDCHE042P0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: VERNAL POOLS.
 Micro: ALKALINE VERNAL POOLS. 10-115M.

Occurrence No. 10	Map Index: 36786	EO Index: 31783	Dates Last Seen
Occ Rank: Unknown			Element: 1991-10-11
Origin: Natural/Native occurrence			Site: 1991-10-11
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-10-09

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26091° / -121.84223°	Township: 05N
UTM: Zone-10 N4235398 E601289	Range: 01E
Radius: 1/5 mile	Mapping Precision: NON-SPECIFIC
Elevation: 25 ft	Section: 23 Qtr: SW
	Symbol Type: POINT
	Meridian: M

Location: JEPSON PRAIRIE, POPULATION WEST OF THE RR TRACKS ABOUT 1.5 MILES SOUTHWEST OF OLCOTT.
Location Detail: FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONS. EASEMENT.
Ecological: IN LARGE, PLAYA TYPE VERNAL POOL. SILTY, SLIGHTLY ALKALINE SOIL. SPARSE COVER OF DISTICHLIS SPICATA, FRANKENIA GRANDIFLORA, PSILOCARPUS BREVISSIMUS.
General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS 1991 COLLECTION BY CLIFTON AND MAP BY D. TAYLOR FROM SW1/4 SW1/4 SEC 23.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 33	Map Index: 24988	EO Index: 62433	Dates Last Seen
Occ Rank: Unknown			Element: 1992-07-17
Origin: Natural/Native occurrence			Site: 1992-07-17
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-08-24

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25545° / -121.87042°	Township: 05N
UTM: Zone-10 N4234761 E598830	Range: 01E
Radius: 80 meters	Mapping Precision: SPECIFIC
Elevation: 35 ft	Section: 28 Qtr: NE
	Symbol Type: POINT
	Meridian: M

Location: JEPSON PRAIRIE, ABOUT 1.2 MILES NORTHWEST OF CREED.
Location Detail: IN LARGE PLAYA VERNAL POOL IN THE NE 1/4 OF THE NW 1/4 OF SECTION 28.
Ecological: IN LARGE PLAYA VERNAL POOL ON SEMI-SALINE CLAY. ASSOCIATED WITH DISTICHLIS SPICATA AND FRANKENIA.
General: UNKNOWN NUMBER OF PLANTS SEEN IN 1992.
Owner/Manager: SOLANO LAND TRUST

Branchinecta conservatio

Conservancy fairy shrimp

Element Code: ICBRA03010

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G1	CDFG Status:
State: None	State: S1	

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE NORTHERN TWO-THIRDS OF THE CENTRAL VALLEY; FOUND IN LARGE, TURBID POOLS.
Micro: INHABIT ASTATIC POOLS LOCATED IN SWALES FORMED BY OLD, BRAIDED ALLUVIUM; FILLED BY WINTER/SPRING RAINS, LAST UNTIL JUNE.

Occurrence No. 1	Map Index: 34153	EO Index: 1960	Dates Last Seen
Occ Rank: Good			Element: 1998-01-31
Origin: Natural/Native occurrence			Site: 1998-01-31
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-06-21

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26970° / -121.84368°	Township: 05N
UTM: Zone-10 N4236371 E601150	Range: 01E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 25 ft	Section: 22 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: 1.8 MILES SW OF DOZIER, 2.2 MILES WNW OF HIGHWAY 113 AT CALHOUN CUT, WEST OF JEPSON PRAIRIE.
Location Detail: LOCATED ALONG PG&E/PGT UNDERGROUND GAS PIPELINE RIGHT-OF-WAY, 1992 DATA MODIFIED MAPPED AREA TO INCLUDE 2 LAKES. LEPIDURUS PACKARDI ALSO OBSERVED.
Ecological: HABITAT CONSISTS OF RESTORED VERNAL POOLS IN CENTRAL VALLEY GRASSLAND; PLAYA POOLS CONTAINING WATER INTO JUNE, WITH HIGH TURBIDITY DUE TO CONSTANT WIND CAUSING SUSPENSION OF FINE SEDIMENTS.
Threat: POSSIBLE THREATS INCLUDE OVERGRAZING, CONVERSION TO CROPLAND, DEVELOPMENT.
General: 1995: A-1: <10 OBS, 1 FEMALE DEP IN CAS(#JPA-1); PLAYAS 1/3, & 2: >1000; 1996; NUMEROUS ADULTS/JUVENILES OBS IN POOL A-1, PLAYAS 1/3 & 2. 16 POOLS CONTAINED B. CONSERVATIO, 1998. AMBYSTOMA CALIFORNIENSE & HYLARVAE OBS.

Owner/Manager: PVT

Occurrence No. 6	Map Index: 32556	EO Index: 1704	Dates Last Seen
Occ Rank: Good			Element: 1997-01-10
Origin: Natural/Native occurrence			Site: 1997-01-10
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-06-20

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27069° / -121.82633°	Township: 05N
UTM: Zone-10 N4236500 E602666	Range: 01E
Area: 58.5 acres	Mapping Precision: SPECIFIC
Elevation: 18 ft	Section: 23 Qtr: NE
	Symbol Type: POLYGON
	Meridian: M

Location: OLCOTT LAKE, WEST OF COOK LANE & EAST OF SACRAMENTO NORTHERN RAILROAD, SW OF DOZIER.
Location Detail: ONLY NORTHERN PORTION OF LAKE WAS SURVEYED, SO ESTIMATES DO NOT REFLECT ENTIRE LAKE. FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONSERVATION EASEMENT.
Ecological: HABITAT CONSISTS OF A LARGE VERNAL POOL. LEPIDURUS PACKARDI AND ELAPHRUS VIRIDIS ALSO FOUND AT THIS SITE.
General: 1982: UNKNOWN NUMBER OBS. 1992: 2 TRANSECTS PARALLEL & W OF COOK LN FROM NORTH SIDE OF LAKE TO FENCE RUNNING THROUGH LAKE (EAST-WEST); TRANSECT #1: 53 MALES, 135 FEMALES. TRANSECT #2: 41 MALES, 66 FEMALES. ABUNDANT NUMBER OBS 10 JAN 1997.
Owner/Manager: SOLANO LAND TRUST

Branchinecta conservatio

Conservancy fairy shrimp

Element Code: ICBRA03010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: Endangered **Global:** G1 **CDFG Status:** _____
State: None **State:** S1

Habitat Associations _____

General: ENDEMIC TO THE GRASSLANDS OF THE NORTHERN TWO-THIRDS OF THE CENTRAL VALLEY; FOUND IN LARGE, TURBID POOLS.
Micro: INHABIT ASTATIC POOLS LOCATED IN SWALES FORMED BY OLD, BRAIDED ALLUVIUM; FILLED BY WINTER/SPRING RAINS, LAST UNTIL JUNE.

Occurrence No. 11 **Map Index:** 41829 **EO Index:** 41829 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 1999-03-11
Origin: Natural/Native occurrence **Site:** 1999-03-11
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-31

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.29405° / -121.85090° **Township:** 05N
UTM: Zone-10 N4239065 E600485 **Range:** 01E
Area: 19.7 acres **Mapping Precision:** SPECIFIC **Section:** 10 **Qtr:** NW
Elevation: 30 ft **Symbol Type:** POLYGON **Meridian:** M

Location: 1.5 MILES WEST OF HIGHWAY 113, 0.25-0.50 MILE SOUTH OF BURKE ROAD, 2 MILES WNW OF DOZIER

Ecological: SITE CONSISTS OF TWO PLAYA-TYPE VERNAL POOLS, ON PESCADERO CLAY AND/OR SOLANO LOAM SOILS; ONE POOL IS MAN-MADE, WITH A BERM AT THE SOUTH END. A SERIES OF POOLS, SWALES, AND MOUNDS ARE FOUND DOWNSLOPE. PLAYAS ARE UNVEGETATED AND VERY TURBID.

Threat: POSSIBLE THREAT FROM GRAZING (SHEEP AND CATTLE).

General: >1000 INDIVIDUALS OBSERVED ON 11 MAR 1999. SPECIMENS IN FWS COLLECTION.

Owner/Manager: PVT-BURKE RANCH

Occurrence No. 14 **Map Index:** 35356 **EO Index:** 42090 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 1996-02-05
Origin: Natural/Native occurrence **Site:** 1996-02-05
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1999-12-28

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.22365° / -121.97711° **Township:** 04N
UTM: Zone-10 N4231124 E589534 **Range:** 01W
Area: **Mapping Precision:** NON-SPECIFIC **Section:** 04 **Qtr:** NE
Elevation: 5 ft **Symbol Type:** POLYGON **Meridian:** M

Location: POTRERO HILLS LANDFILL, 0.3 MILE SOUTH OF HWY 12, ~2.2 MILES NORTH OF BELDON'S LANDING, 5 MILES EAST OF FAIRFIELD.

Location Detail: DRAINAGE DITCHES AROUND PERIPHERY OF LANDFILL AREA. DITCHES RUN ALONG SOUTH SIDE OF CAPPED LANDFILL & ALONG EAST SIDE OF EMMINGTON RD. DITCHES CONNECTED TO LARGE VERNAL POOLS TO EAST. SHRIMP LIKELY WASHED ONTO SITE FROM VERNAL POOLS.

Ecological: HABITAT CONSISTS OF ARTIFICIAL DRAINAGE DITCHES, CONNECTED TO VERNAL POOLS; DITCH VEGETATION CONSISTS OF SALICORNIA SP AND TYPHA SP.

General: 10'S OF SHRIMP FOUND ALONG THE SOUTH SIDE OF CAPPED LANDFILL, 1996; CAS #106748 & #106751. AREA TO BE RESTORED TO FRESHWATER WETLANDS, PRESERVING HABITAT ON SITE. ALSO ON SITE ARE B. LYNCHI, L. PACKARDI, LASTHENIA CONJUGENS.

Owner/Manager: PVT

Occurrence No. 17 **Map Index:** 42556 **EO Index:** 42558 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1992-XX-XX
Origin: Natural/Native occurrence **Site:** 1992-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2000-03-15

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.26344° / -121.83138° **Township:** 05N
UTM: Zone-10 N4235690 E602235 **Range:** 01E
Radius: 2/5 mile **Mapping Precision:** NON-SPECIFIC **Section:** 23 **Qtr:** XX
Elevation: 20 ft **Symbol Type:** POINT **Meridian:** M

Location: SEASONAL WETLANDS, 1 MILE SOUTH OF OLCOTT, JEPSON PRAIRIE, 1.5 MILES WEST OF CALHOUN CUT CROSSING BY HIGHWAY 113.

Ecological: VERNAL POOL HABITAT TYPE DESCRIBED AS CLAYPAN.

General: OBSERVED THE SPECIES IN 1992, NO NUMBERS GIVEN.

Owner/Manager: UNKNOWN

Branchinecta conservatio

Conservancy fairy shrimp

Element Code: ICBRA03010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: Endangered **Global:** G1 **CDFG Status:**
 State: None **State:** S1

Habitat Associations _____

General: ENDEMIC TO THE GRASSLANDS OF THE NORTHERN TWO-THIRDS OF THE CENTRAL VALLEY; FOUND IN LARGE, TURBID POOLS.
Micro: INHABIT ASTATIC POOLS LOCATED IN SWALES FORMED BY OLD, BRAIDED ALLUVIUM; FILLED BY WINTER/SPRING RAINS, LAST UNTIL JUNE.

Occurrence No. 19 **Map Index:** 54520 **EO Index:** 54520 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2003-04-07
Origin: Natural/Native occurrence **Site:** 2003-04-07
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2004-12-13

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.43662° / -121.66998° **Township:** 07N
UTM: Zone-10 N4255098 E616078 **Range:** 03E
Area: 10.3 acres **Mapping Precision:**SPECIFIC **Section:** 20 **Qtr:** SW
Elevation: 15 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ~1.4 MILES NNE OF VAUGHN RANCH, GLIDE TULE ELK RESERVE
Ecological: HABITAT CONSISTS OF A PLAYA POOL; SURROUNDING AREA GRAZED BY CATTLE. LEPIDURUS PACKARDI AND CYZICUS CALIFORNICUS ALSO FOUND AT THIS SITE.
General: "LOTS" OF INDIVIDUALS OBSERVED ON 7 APR 2003.
Owner/Manager: DPR-TULE ELK SR

Occurrence No. 20 **Map Index:** 57480 **EO Index:** 57496 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1993-02-XX
Origin: Natural/Native occurrence **Site:** 1993-02-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2004-10-19

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27305° / -121.83453° **Township:** 05N
UTM: Zone-10 N4236753 E601945 **Range:** 01E
Radius: 2/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 14 **Qtr:** XX
Elevation: 20 ft **Symbol Type:**POINT **Meridian:** M

Location: POOLS, ACROSS RAILROAD TRACKS FROM OLCOTT LAKE.
Ecological: VERNAL POOLS.
General: NUMBER OF SPECIMENS NOT GIVEN.
Owner/Manager: UNKNOWN

Occurrence No. 23 **Map Index:** 61653 **EO Index:** 61689 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 2002-02-15
Origin: Natural/Native occurrence **Site:** 2002-02-15
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-06-20

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26581° / -121.87815° **Township:** 05N
UTM: Zone-10 N4235903 E598139 **Range:** 01E
Area: 18.7 acres **Mapping Precision:**SPECIFIC **Section:** 21 **Qtr:** XX
Elevation: 32 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ABOUT 3.6 MILES WSW DOZIER.
Location Detail: VERNAL POOLS #3, 10, AND 23. POOL #10 NOT SHOWN ON TOPO MAP.
Ecological: VERNAL POOL.
General: NUMBER OF INDIVIDUALS NOT RECORDED.
Owner/Manager: UNKNOWN

Branchinecta conservatio

Conservancy fairy shrimp

Element Code: ICBRA03010

Status
 Federal: Endangered
 State: None

NDDB Element Ranks
 Global: G1
 State: S1

Other Lists
 CDFG Status:

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE NORTHERN TWO-THIRDS OF THE CENTRAL VALLEY; FOUND IN LARGE, TURBID POOLS.

Micro: INHABIT ASTATIC POOLS LOCATED IN SWALES FORMED BY OLD, BRAIDED ALLUVIUM; FILLED BY WINTER/SPRING RAINS, LAST UNTIL JUNE.

Occurrence No. 24 Map Index: 61654 EO Index: 61690 Dates Last Seen
 Occ Rank: Unknown Element: 2002-03-25
 Origin: Natural/Native occurrence Site: 2002-03-25
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-06-20

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.25895° / -121.87197° Township: 05N
 UTM: Zone-10 N4235149 E598690 Range: 01E
 Area: 29.5 acres Mapping Precision: SPECIFIC Section: 21 Qtr: XX
 Elevation: 33 ft Symbol Type: POLYGON Meridian: M

Location: ABOUT 3.5 MILES SOUTHWEST OF DOZIER.

Location Detail: VERNALS POOLS #4 AND 5.

Ecological: VERNAL POOLS.

General: NUMBER OF INDIVIDUALS NOT RECORDED.

Owner/Manager: UNKNOWN

Occurrence No. 25 Map Index: 61657 EO Index: 61693 Dates Last Seen
 Occ Rank: Unknown Element: 2002-02-15
 Origin: Natural/Native occurrence Site: 2002-02-15
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-06-20

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.26436° / -121.86794° Township: 05N
 UTM: Zone-10 N4235753 E599034 Range: 01E
 Area: 9.9 acres Mapping Precision: SPECIFIC Section: 21 Qtr: XX
 Elevation: 34 ft Symbol Type: POLYGON Meridian: M

Location: ABOUT 3.0 MILES WSW DOZIER.

Location Detail: VERNAL POOLS #7 AND 8. POOL #8 DOES NOT SHOW ON TOPO MAP.

Ecological: VERNAL POOL.

General: NUMBER OF INDIVIDUALS NOT GIVEN.

Owner/Manager: UNKNOWN

Occurrence No. 26 Map Index: 61647 EO Index: 61694 Dates Last Seen
 Occ Rank: Unknown Element: 2002-02-15
 Origin: Natural/Native occurrence Site: 2002-02-15
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-06-20

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.26016° / -121.89766° Township: 05N
 UTM: Zone-10 N4235255 E596440 Range: 01E
 Area: 4.8 acres Mapping Precision: SPECIFIC Section: 20 Qtr: XX
 Elevation: 37 ft Symbol Type: POLYGON Meridian: M

Location: ABOUT 4.6 MILES SOUTHWEST OF DOZIER.

Location Detail: VERNAL POOL #11.

Ecological: VERNAL POOL.

General: NUMBER OF INDIVIDUALS NOT RECORDED.

Owner/Manager: UNKNOWN

Branchinecta conservatio

Conservancy fairy shrimp

Element Code: ICBRA03010

Status
 Federal: Endangered
 State: None

NDDB Element Ranks
 Global: G1
 State: S1

Other Lists
 CDFG Status:

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE NORTHERN TWO-THIRDS OF THE CENTRAL VALLEY; FOUND IN LARGE, TURBID POOLS.
 Micro: INHABIT ASTATIC POOLS LOCATED IN SWALES FORMED BY OLD, BRAIDED ALLUVIUM; FILLED BY WINTER/SPRING RAINS, LAST UNTIL JUNE.

Occurrence No. 27 Map Index: 61659 EO Index: 61695 Dates Last Seen
 Occ Rank: Unknown Element: 2002-02-15
 Origin: Natural/Native occurrence Site: 2002-02-15
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-06-20

Quad Summary: Elmira (3812138/498C)
 County Summary: Solano

Lat/Long: 38.25734° / -121.90547° Township: 05N
 UTM: Zone-10 N4234934 E595761 Range: 01E
 Area: 26.8 acres Mapping Precision: SPECIFIC Section: 30 Qtr: XX
 Elevation: 45 ft Symbol Type: POLYGON Meridian: M

Location: ABOUT 5.0 MILES SOUTHWEST OF DOZIER.
 Location Detail: VERNAL POOLS #12 AND 13.
 Ecological: VERNAL POOLS.
 General: NUMBER OF INDIVIDUALS NOT RECORDED.
 Owner/Manager: UNKNOWN

Occurrence No. 28 Map Index: 61660 EO Index: 61696 Dates Last Seen
 Occ Rank: Unknown Element: 2002-02-15
 Origin: Natural/Native occurrence Site: 2002-02-15
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-06-20

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.24711° / -121.88269° Township: 05N
 UTM: Zone-10 N4233823 E597767 Range: 01E
 Area: 36.9 acres Mapping Precision: SPECIFIC Section: 29 Qtr: XX
 Elevation: 36 ft Symbol Type: POLYGON Meridian: M

Location: ABOUT 4.5 MILES SOUTHWEST OF DOZIER.
 Location Detail: VERNAL POOLS #14, 16, AND 17. POOL #17 NOT SHOWN ON TOPO MAP.
 Ecological: VERNAL POOL.
 General: POOL #17 HAS IRREGULAR MARGIN. NUMBER OF INDIVIDUALS NOT RECORDED.
 Owner/Manager: UNKNOWN

Occurrence No. 29 Map Index: 61661 EO Index: 61697 Dates Last Seen
 Occ Rank: Unknown Element: 2002-02-15
 Origin: Natural/Native occurrence Site: 2002-02-15
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-06-20

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.26950° / -121.87073° Township: 05N
 UTM: Zone-10 N4236321 E598784 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 21 Qtr: XX
 Elevation: 35 ft Symbol Type: POINT Meridian: M

Location: ABOUT 3.1 MILES WEST-SOUTHWEST OF DOZIER.
 Location Detail: VERNAL POOL #25.
 Ecological: VERNAL POOL.
 General: NUMBER OF SPECIMENS NOT RECORDED.
 Owner/Manager: UNKNOWN

Branchinecta lynchi

vernal pool fairy shrimp

Element Code: ICBRA03030

Status

NDDB Element Ranks

Other Lists

Federal: Threatened

Global: G3

CDFG Status:

State: None

State: S2S3

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.

Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Occurrence No. 19 Map Index: 33218 EO Index: 2649 Dates Last Seen

Occ Rank: Fair Element: 1995-02-17

Origin: Natural/Native occurrence Site: 1995-02-17

Presence: Presumed Extant

Trend: Unknown Record Last Updated: 1995-10-24

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.38399° / -121.95028° Township: 06N

UTM: Zone-10 N4248942 E591681 Range: 01W

Radius: 80 meters Mapping PrecisionSPECIFIC Section: 11 Qtr: XX

Elevation: 90 ft Symbol Type:POINT Meridian: M

Location: 0.75 MILE NORTH OF THE INTERSECTION OF I-80 AND I-505, NORTH OF VACAVILLE.

Location Detail: POOL #33.

Ecological: HABITAT CONSISTS OF A VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND. AREA WAS DISKED ABOUT 1990.

Threat: THREATENED BY FUTURE DEVELOPMENT.

General: 1/20/1995-4 OR 5 OBSERVED, 2 MALES AND 1 FEMALE COLLECTED AND DEPOSITED AT CAS; 2/3/1995-2 ADDITIONAL FEMALES OBSERVED; 2/17/1995-6 MALES AND 2 FEMALES OBSERVED; ESTIMATED TOTAL POPULATION SIZED FOR POOL #33 WAS <50.

Owner/Manager: PVT-CHEVRON

Occurrence No. 98 Map Index: 32547 EO Index: 1752 Dates Last Seen

Occ Rank: Unknown Element: 1993-02-07

Origin: Natural/Native occurrence Site: 1993-02-07

Presence: Presumed Extant

Trend: Unknown Record Last Updated: 1995-11-13

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.41739° / -121.85050° Township: 07N

UTM: Zone-10 N4252752 E600349 Range: 01E

Area: 1.4 acres Mapping PrecisionSPECIFIC Section: 27 Qtr: S

Elevation: 60 ft Symbol Type:POLYGON Meridian: M

Location: SW OF DIXON; IMMEDIATELY N OF MIDWAY ROAD X SOUTHERN PACIFIC RAILROAD.

Location Detail: IN RAILROAD DITCH BETWEEN RAILROAD AND ROAD.

Ecological: TURBID VERNAL POOL WITH ALGAE; RIPARIAN BRUSH; RR RIGHT-OF-WAY.

General: 20+ INDIVIDUALS OBSERVED IN POOL.

Owner/Manager: PVT-SPRR

Occurrence No. 171 Map Index: 33701 EO Index: 30601 Dates Last Seen

Occ Rank: Unknown Element: 1993-01-16

Origin: Natural/Native occurrence Site: 1993-01-16

Presence: Presumed Extant

Trend: Unknown Record Last Updated: 1997-03-11

Quad Summary: Birds Landing (3812127/481A)

County Summary: Solano

Lat/Long: 38.22069° / -121.83364° Township: 04N

UTM: Zone-10 N4230944 E602097 Range: 01E

Radius: 3/5 mile Mapping PrecisionNON-SPECIFIC Section: 02 Qtr: XX

Elevation: 60 ft Symbol Type:POINT Meridian: M

Location: NORTHEAST OF THE INTERSECTION OF FLANNERY ROAD AND GOOSE HAVEN ROAD. NORTH OF THE MONTEZUMA HILLS.

Location Detail: VERNAL POOLS SOMEWHERE IN SECTION 2.

Ecological: NATURAL VERNAL POOLS.

General: B. LYNCHI OBSERVED IN THE 1 FEATURE INSPECTED. SUGNET RECORD #38. NO LEPIDURUS PACKARDI OBSERVED.

Owner/Manager: UNKNOWN

Branchinecta lynchi

vernal pool fairy shrimp

Element Code: ICBRA03030

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.
Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Occurrence No. 172	Map Index: 33702	EO Index: 30612	Dates Last Seen
Occ Rank: Unknown			Element: 1993-02-04
Origin: Natural/Native occurrence			Site: 1993-02-04
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-03-20

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.39534° / -121.92462°	Township: 06N
UTM: Zone-10 N4250227 E593907	Range: 01W
Radius: 3/5 mile	Section: 01
Elevation: 80 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: NORTHEAST OF THE INTERSECTION OF LEISURE TOWN ROAD AND I-80. NORTHEAST OF VACAVILLE.
Location Detail: SEASONAL WETLANDS LOCATED SOMEWHERE IN SECTION 1.
Ecological: NATURAL SEASONAL WETLANDS.
General: B. LYNCHI OBSERVED IN THE ONE FEATURE INSPECTED. SUGNET RECORD #55. NO LEPIDURUS PACKARDI OBSERVED.
Owner/Manager: UNKNOWN

Occurrence No. 173	Map Index: 33703	EO Index: 30613	Dates Last Seen
Occ Rank: Unknown			Element: 1993-02-07
Origin: Natural/Native occurrence			Site: 1993-02-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-03-20

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.42381° / -121.85041°	Township: 07N
UTM: Zone-10 N4253465 E600348	Range: 01E
Radius: 3/5 mile	Section: 27
Elevation: 65 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: NORTHWEST OF THE INTERSECTION OF PITT SCHOOL ROAD AND MIDWAY ROAD. SOUTHWEST OF DIXON.
Location Detail: VERNAL POOLS LOCATED SOMEWHERE IN SECTION 27.
Ecological: NATURAL VERNAL POOLS.
General: B. LYNCHI OBSERVED IN THE ONE FEATURE INSPECTED. SUGNET RECORD #54. NO LEPIDURUS PACKARDI OBSERVED.
Owner/Manager: UNKNOWN

Occurrence No. 184	Map Index: 35356	EO Index: 31380	Dates Last Seen
Occ Rank: Fair			Element: 1996-01-22
Origin: Natural/Native occurrence			Site: 1996-01-22
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-08-07

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.22365° / -121.97711°	Township: 04N
UTM: Zone-10 N4231124 E589534	Range: 01W
Area:	Section: 04
Elevation: 5 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: POTRERO HILLS LANDFILL, 0.25 MILES SOUTH OF HWY 12, 5 MILES EAST OF FAIRFIELD.
Location Detail: SITE CONTAINS DRAINAGE DITCHES AROUND THE PERIPHERY OF THE LANDFILL AREA. THESE DITCHES RUN ALONG THE SOUTH SIDE OF THE CAPPED LANDFILL AND ALONG THE EAST SIDE OF EMMINGTON ROAD. DITCHES ARE CONNECTED TO LARGE VERNAL POOLS TO THE
Ecological: HABITAT CONSISTS OF ARTIFICIAL DRAINAGE DITCHES, CONNECTED TO VERNAL POOLS; DITCH VEGETATION CONSISTS OF SALICORNIA SP AND TYPHA SP.
General: TADPOLE SHRIMP FOUND IN THE 10'S IN THE PERIPHERY DITCHES ON 22 JAN 1996; CAS #106749.
Owner/Manager: PVT

Branchinecta lynchi

vernal pool fairy shrimp

Element Code: ICBRA03030

Status
 Federal: Threatened
 State: None

NDDB Element Ranks
 Global: G3
 State: S2S3

Other Lists
 CDFG Status:

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.
Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Occurrence No. 218 **Map Index:** 34153 **EO Index:** 41717 **Dates Last Seen**
Occ Rank: Fair **Element:** 1997-12-22
Origin: Natural/Native occurrence **Site:** 1997-12-22
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2002-07-18

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26970° / -121.84368° **Township:** 05N
UTM: Zone-10 N4236371 E601150 **Range:** 01E
Area: **Mapping Precision:**NON-SPECIFIC **Section:** 22 **Qtr:** XX
Elevation: 25 ft **Symbol Type:**POLYGON **Meridian:** M

Location: 1.8 MILES SW OF DOZIER, 2.2 MILES WNW OF HIGHWAY 113 AT CALHOUN CUT, WEST OF JEPSON PRAIRIE.
Location Detail: LOCATED ALONG PG&E/PGT UNDERGROUND GAS PIPELINE RIGHT-OF-WAY. B. CONSERVATIO & L. PACKARDI PRESENT IN SOME CORRESPONDING POOLS.
Ecological: HABITAT CONSISTS OF RESTORED VERNAL POOLS IN CENTRAL VALLEY GRASSLAND; PLAYA POOLS CONTAINING WATER INTO JUNE, HIGH TURBIDITY; AND MODERATE-SIZED, SHALLOW VERNAL POOLS WITH LESS TURBIDITY.
Threat: POSSIBLE THREATS INCLUDE OVERGRAZING, CONVERSION TO CROPLAND, DEVELOPMENT.
General: 13 OUT OF 85 POOLS SAMPLED POOLS CONTAINED B. LYNCHI. TIGER SALAMANDER LARVA & HYLIA REGILLA OBSERVED.
Owner/Manager: PVT

Occurrence No. 225 **Map Index:** 41972 **EO Index:** 41972 **Dates Last Seen**
Occ Rank: Fair **Element:** 1997-01-07
Origin: Natural/Native occurrence **Site:** 1997-01-07
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2004-10-28

Quad Summary: Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.40448° / -121.94018° **Township:** 07N
UTM: Zone-10 N4251226 E592536 **Range:** 01W
Area: **Mapping Precision:**NON-SPECIFIC **Section:** 35 **Qtr:** XX
Elevation: 95 ft **Symbol Type:**POLYGON **Meridian:** M

Location: BOUNDED BY I-505 (W), LEISURE TOWN ROAD (E), VACA VALLEY PARKWAY (S), AND MIDWAY ROAD (N); 2.5 MILES NE OF VACAVILLE.
Location Detail: NORTH VILLAGE PROJECT SITE, WEST OF THE SEWAGE TREATMENT PLANT
Ecological: ANNUAL GRASSLAND WITH SEASONALLY PONDED WETLANDS GRAZED BY CATTLE
Threat: GRAZING, AGRICULTURE PRACTICES, POTENTIAL DEVELOPMENT
General: LESS THAN 100 OBSERVED IN JANUARY 7 VISIT AND UNKNOWN NUMBER ON OTHER VISITS. <100 OBS. IN WETLAND #16 ON 07 JAN 1997. B. LYNCHI OCCURRED IN 26 OF 649 WETLANDS SURVEYED, AND OCCURRED W/ LINDERIELLA OCCIDENTALIS IN WETLANDS #2 AND #3.
Owner/Manager: PVT

Branchinecta lynchi

vernal pool fairy shrimp

Element Code: ICBRA03030

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.
Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Occurrence No. 234	Map Index: 42570	EO Index: 42570	Dates Last Seen
Occ Rank: Good			Element: 2005-02-03
Origin: Natural/Native occurrence			Site: 2005-02-03
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-03-30

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.28372° / -121.94320°	Township: 05N
UTM: Zone-10 N4237823 E592426	Range: 01W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 140 ft	Section: 14
	Meridian: M
	Qtr: NE

Location: NORTH EDGE OF TRAVIS AIR FORCE BASE, NE OF FAIRFIELD.

Location Detail: INCLUDES THE "BURKE PROPERTY" OPEN SPACE PRESERVE AREA ADJACENT TO HOUSING AREA. SITE IS PROTECTED WITH FENCING.

Ecological: HABITAT INCLUDES 3 ARTIFICIAL VERNAL POOLS/SEASONAL WETLANDS & 4 OTHER VERNAL POOLS. OTHER ASSOCIATED TAXA INCLUDE OSTRACODS, COPEPODS, CLADOCERANS, DYTISCID BEETLE LARVAE, & CHORUS FROG TADPOLES.

General: OBSERVED ON 2 MAR 1999. 100'S OBSERVED IN 2005 IN 5 VERNAL POOLS (BP35A, BP35C, BP38 & BP39A) 15 TO 37 CM DEEP.

Owner/Manager: DOD-TRAVIS AFB

Occurrence No. 245	Map Index: 43320	EO Index: 43320	Dates Last Seen
Occ Rank: Good			Element: 2003-01-XX
Origin: Natural/Native occurrence			Site: 2003-01-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-10-26

Quad Summary: Dozier (3812137/498D), Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.30785° / -121.87427°	Township: 05N
UTM: Zone-10 N4240572 E598423	Range: 01E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 40 ft	Section: 04
	Meridian: M
	Qtr: XX

Location: NORTH VILLAGE MITIGATION SITE, 2.75 MILES WEST OF HIGHWAY 113, 3.5 MILES WNW OF DOZIER, 4.2 MILES SW OF BINGHAMTON

Location Detail: WEST 1/2 SEC 4; ELEVATION FROM ~40-50 FEET. FEB 2000: B. LYNCHI FOUND IN 13 SEASONAL WETLANDS SCATTERED THROUGHOUT THE SITE. NO SHRIMP FOUND IN SWALES THAT EXPERIENCE WATER FLOW. 2002-2003: 3 POOLS, VIC SW CORNER OF HAY ROAD AND DALLY ROAD.

Ecological: HABITAT CONSISTS OF SMALL VERNAL POOLS/WETLANDS IN GRAZED GRASSLAND. MOST WETLANDS FROM 3 TO 45 CM IN DEPTH. DEEPEST WAS 70 CM. 2 MAR 1999 COLL. IN POOLS DOMINATED BY PLEUROPOGON CALIFORNICUS BUT W/HIGH COVER OF VERNAL POOL FORBS.

Threat: 1999 SITES IN AREA WHERE CATTLE AND SHEEP GRAZE.

General: SPECIES OBS., # NOT GIVEN, VOUCHER SPECIMENS DEPOSITED AT CAS, 17 & 26 FEB 2000. INDIVIDUALS OBS. IN 3 POOLS ON 4 JAN 2002; UNKNOWN # DEPOSITED AT CAS. >1000 ADULTS OBS. 2 MAR 1999. 10 ADULTS OBS. JAN 2003 (SITE 36-04).

Owner/Manager: PVT

Branchinecta lynchi

vernal pool fairy shrimp

Element Code: ICBRA03030

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.
Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Occurrence No. 313	Map Index: 47118	EO Index: 47118	Dates Last Seen
Occ Rank: Fair			Element: 2001-12-21
Origin: Natural/Native occurrence			Site: 2001-12-21
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-01-29

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.22834° / -121.92727°	Township: 04N
UTM: Zone-10 N4231694 E593891	Range: 01W
Radius: 80 meters	Section: 01
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: 1.6 MILES WNW OF DENVERTON; 1.35 MILES (EAST) FROM INTERSECTION OF BRANSCOMBE RD AND SR 12, SOUTH SIDE OF SR 12.
Ecological: HABITAT CONSISTS OF OPEN GRASSLAND.
Threat: THREAT CONSISTS OF HIGHWAY IMPROVEMENTS.
General: UNKNOWN NUMBER OBSERVED AT POOL #52 ON 21 DEC 2001.
Owner/Manager: CALTRANS

Occurrence No. 314	Map Index: 47120	EO Index: 47120	Dates Last Seen
Occ Rank: Good			Element: 2001-12-20
Origin: Natural/Native occurrence			Site: 2001-12-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-01-29

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.33378° / -121.82292°	Township: 06N
UTM: Zone-10 N4243505 E602875	Range: 01E
Radius: 80 meters	Section: 25
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: 1.2 MILES SOUTH OF BINGHAMPTON, 0.25 MI SOUTH OF FRY RD, & 3.3 MILES NORTH OF DOZIER, EAST SIDE OF SR 113.
Ecological: HABITAT CONSISTS OF OPEN GRASSLAND. SURROUNDING LAND USED FOR GRAZING SHEEP AND LLAMAS
Threat: THREAT CONSISTS OF HIGHWAY REALIGNMENT.
General: UNKNOWN NUMBER OBSERVED AT POOL #71 ON 20 DEC 2001.
Owner/Manager: UNKNOWN

Occurrence No. 328	Map Index: 48477	EO Index: 48477	Dates Last Seen
Occ Rank: Good			Element: 2002-02-06
Origin: Natural/Native occurrence			Site: 2002-04-03
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-08-07

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.43560° / -121.68267°	Township: 07N
UTM: Zone-10 N4254969 E614972	Range: 03E
Area: 40.9 acres	Section: 19
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: SAXON; 1.2 TO 1.9 MILES ALONG THE SACRAMENTO NORTHERN ELECTRIC RAILROAD GRADE FROM ROAD 106.
Location Detail: SITE NUMBERS 51-04 AND 51-06, ADJACENT TO EAST SIDE OF RAILROAD GRADE.
Ecological: HABITAT CONSISTS OF 2 LARGE, SHALLOW, NATURAL VERNAL POOLS. WHEN FULL, THE POOLS OVERFLOW INTO A DRAINAGE DITCH ON SE SIDE OF RAILROAD GRADE. SURROUNDING AREA IS A CATTLE GRAZED GRASSLAND. HYLEA REGILLA IN VICINITY.
General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED ON 23 & 24 JAN 2002 & 6 FEB 2002.
Owner/Manager: UNKNOWN, PVT

Branchinecta lynchi

vernal pool fairy shrimp

Element Code: ICBRA03030

Status

NDDB Element Ranks

Other Lists

Federal: Threatened

Global: G3

CDFG Status:

State: None

State: S2S3

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.

Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Occurrence No. 330

Map Index: 48425

EO Index: 48425

Dates Last Seen

Occ Rank: Poor

Element: 2002-01-14

Origin: Natural/Native occurrence

Site: 2002-04-02

Presence: Presumed Extant

Trend: Unknown

Record Last Updated: 2002-08-02

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.32587° / -121.78096°

Township: 06N

UTM: Zone-10 N4242675 E606555

Range: 02E

Radius: 80 meters

Mapping Precision SPECIFIC

Section: 32

Qtr: NW

Elevation: 15 ft

Symbol Type: POINT

Meridian: M

Location: 3.4 MILES NE OF DOZIER; ALONG EAST SIDE OF ABANDONED SACRAMENTO NORTHERN ELECTRIC RAILROAD GRADE.

Location Detail: SITE 42-01; BETWEEN ROBBEN ROAD AND MAINE PRAIRIE ROAD.

Ecological: HABITAT CONSISTS OF A 700 FT LONG, SHALLOW, UNVEGETATED SEASONALLY PONDED DEPRESSION LOCATED ALONG GRADE. GRADE USED AS DIRT ACCESS ROAD AND IS HIGHLY DISTURBED. LINDERIELLA OCCIDENTALIS ALSO PRESENT.

Threat: THREATS INCLUDE DISKING, AGRICULTURE AND VEHICULAR TRAFFIC.

General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED ON 14 JAN 2002. UNKNOWN NUMBER COLLECTED, BUT NOT YET ACCESSIONED AT CAL ACADEMY OF SCIENCES.

Owner/Manager: UNKNOWN

Occurrence No. 331

Map Index: 48443

EO Index: 48443

Dates Last Seen

Occ Rank: Poor

Element: 2002-01-24

Origin: Natural/Native occurrence

Site: 2002-01-24

Presence: Presumed Extant

Trend: Unknown

Record Last Updated: 2002-08-05

Quad Summary: Fairfield North (3812231/499D)

County Summary: Solano

Lat/Long: 38.26374° / -122.00747°

Township: 05N

UTM: Zone-10 N4235544 E586829

Range: 01W

Area: 7.2 acres

Mapping Precision SPECIFIC

Section: 19

Qtr: SE

Elevation: 40 ft

Symbol Type: POLYGON

Meridian: M

Location: TOLENAS; APPROX 960 FT SW (ALONG RAILROAD AVE) FROM THE INTERSECTION OF RAILROAD AVE AND TABOR AVE.

Location Detail: SITE 26-05 IS SITUATED BETWEEN RAILROAD TRACKS AND RAILROAD AVE.

Ecological: HABITAT CONSISTS OF A SEASONALLY PONDED DEPRESSION IN A RAILROAD BORROW PIT. AREA IS SURROUNDED BY SUBURBAN/COMMERCIAL DEVELOPMENT, RAILROAD TRACKS AND ROADWAY.

General: UNKNOWN NUMBER OBSERVED 28 DEC 2001 AND 9, 24 JAN 2002. COLLECTION MADE BUT NOT YET ACCESSIONED AT CAL. ACADEMY OF SCIENCES.

Owner/Manager: UNKNOWN

Branchinecta lynchi

vernal pool fairy shrimp

Element Code: ICBRA03030

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: Threatened **Global:** G3 **CDFG Status:**
 State: None **State:** S2S3

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.
Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Occurrence No. 332 **Map Index:** 48476 **EO Index:** 48476 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2002-03-05
Origin: Natural/Native occurrence **Site:** 2002-04-02
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2002-08-07

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.39340° / -121.72014° **Township:** 06N
UTM: Zone-10 N4250240 E611767 **Range:** 02E
Area: 72.5 acres **Mapping Precision:**SPECIFIC **Section:** 02 **Qtr:** XX
Elevation: 20 ft **Symbol Type:**POLYGON **Meridian:** M

Location: SOUTH OF LIBFARM; 0.1 TO 1.15 MILES SW KING RD ALONG SE SIDE OF ABANDONED SACRAMENTO NORTHERN ELECTRIC RAILROAD GRADE.

Location Detail: SITES NUMBERS 47-06 AND 48-11.

Ecological: HABITAT CONSISTS OF 2 LONG, NARROW, SEASONALLY PONDED DITCHES IN A GRASSLAND ALONG GRADE. SURROUNDING AREA USED FOR CATTLE GRAZING. LINDERIELLA OCCIDENTALIS, HYLIA REGILLA AND CYZICUS CALIFORNICUS PRESENT IN VICINITY.

General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED ON 24 JAN 2002 & 6, 7 & 21 FEB 2002

Owner/Manager: UNKNOWN

Occurrence No. 333 **Map Index:** 48478 **EO Index:** 48478 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2002-02-06
Origin: Natural/Native occurrence **Site:** 2002-04-02
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2002-08-07

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.44536° / -121.67336° **Township:** 07N
UTM: Zone-10 N4256063 E615769 **Range:** 03E
Area: 20.9 acres **Mapping Precision:**SPECIFIC **Section:** 17 **Qtr:** SW
Elevation: 15 ft **Symbol Type:**POLYGON **Meridian:** M

Location: 3 MILES NE OF YOLANO; APPROX. 1 TO 1.2 MILES SW ALONG THE SACRAMENTO NORTHERN ELECTRIC RAILROAD GRADE FROM ROAD 38.

Location Detail: SITE NUMBERS 52-10F, 52-10E, 52-10, 52-10B AND 52-10C; SE SIDE OF RAILROAD GRADE.

Ecological: HABITAT CONSISTS OF 5 POOLS IN A VERNAL POOL COMPLEX LOCATED PRIMARILY AROUND DITCHES & THE EDGES OF BERMS. NATURAL TOPOGRAPHY IS MOSTLY ABSENT. LEPIDURUS PACKARDI, BRANCHINECTA MESOVALLENSIS & LINDERIELLA OCCIDENTALIS ALSO IN VICINITY.

General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED ON 11 & 23 JAN 2002 AND 5 & 6 FEB 2002. SURROUNDING LAND IS USED FOR GRAZING CATTLE.

Owner/Manager: DFG-YOLO BYPASS WA

Occurrence No. 340 **Map Index:** 48493 **EO Index:** 48493 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2002-02-07
Origin: Natural/Native occurrence **Site:** 2002-04-02
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2002-08-07

Quad Summary: Liberty Island (3812136/497C), Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.37617° / -121.73554° **Township:** 06N
UTM: Zone-10 N4248310 E610448 **Range:** 02E
Area: 26.6 acres **Mapping Precision:**SPECIFIC **Section:** 10 **Qtr:** SE
Elevation: 20 ft **Symbol Type:**POLYGON **Meridian:** M

Location: 2 MILES SW OF LIBFARM; 1.9 TO 2.45 MILES SW FROM KING ROAD ALONG THE SACRAMENTO NORTHERN ELECTRIC RAILROAD GRADE.

Location Detail: SITE NUMBERS 45-05, 45-13, 46-04, 46-06 AND 46-07; BETWEEN DELHI ROAD AND ETZEL ROAD.

Ecological: HABITAT CONSISTS OF 5 SEASONALLY PONDED DEPRESSIONS (SOME ON ELEVATED GRADIENT, OTHERS IN BORROW PITS) ALONG RAILROAD GRADE. RAILROAD CORRIDOR HAS REVERTED TO A GRASSLAND. AREA SURROUNDING RAILROAD GRADE IS UNDER AGRICULTURAL PRODUCTION.

Threat: THREATS CONSISTS OF GRAZING OF SHEEP ALONG RAILROAD GRADE AND PRESENCE OF CRAYFISH.

General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED ON 14, 23 JAN 2002; 7 FEB 2002. LINDERIELLA OCCIDENTALIS IN VICINITY.

Owner/Manager: UNKNOWN

Branchinecta lynchi

vernal pool fairy shrimp

Element Code: ICBRA03030

Status

NDDB Element Ranks

Other Lists

Federal: Threatened

Global: G3

CDFG Status:

State: None

State: S2S3

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.

Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Occurrence No. 356 Map Index: 54516 EO Index: 54516 Dates Last Seen

Occ Rank: Excellent Element: 1999-03-02

Origin: Natural/Native occurrence Site: 1999-03-02

Presence: Presumed Extant

Trend: Unknown Record Last Updated: 2007-07-31

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.29338° / -121.84931° Township: 05N

UTM: Zone-10 N4238994 E600625 Range: 01E

Radius: 80 meters Mapping Precision: SPECIFIC Section: 10 Qtr: NE

Elevation: 30 ft Symbol Type: POINT Meridian: M

Location: 2 MILES SW OF THE INTERSECTION OF HAY ROAD AND HIGHWAY 113, SOUTH OF DIXON

Ecological: HABITAT CONSISTS OF A RELATIVELY LARGE, BUT SHALLOW, VERNAL POOL ON ANTIOCH-SAN YSIDRO COMPLEX OR SAN YSIDRO COMPLEX SOILS; DOMINATED BY PLEUROPOGON CALIFORNICUS. GRAZED BY CATTLE & SHEEP. BRANCHINECTA CONSERVATIO ALSO FOUND IN SECTION 10

General: A FEW REPRODUCTIVE ADULTS NETTED ON 2 MAR 1999.

Owner/Manager: PVT-BURKE RANCH

Occurrence No. 357 Map Index: 54517 EO Index: 54517 Dates Last Seen

Occ Rank: Excellent Element: 1999-03-02

Origin: Natural/Native occurrence Site: 1999-03-02

Presence: Presumed Extant

Trend: Unknown Record Last Updated: 2007-07-31

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.30077° / -121.85071° Township: 05N

UTM: Zone-10 N4239812 E600492 Range: 01E

Radius: 80 meters Mapping Precision: SPECIFIC Section: 03 Qtr: SW

Elevation: 35 ft Symbol Type: POINT Meridian: M

Location: 1.8 MILES WSW OF THE INTERSECTION OF HAY ROAD AND HIGHWAY 113, SOUTH OF DIXON

Ecological: HABITAT CONSISTS OF A RELATIVELY LARGE, BUT SHALLOW, VERNAL POOL ON ANTIOCH-SAN YSIDRO COMPLEX OR SAN YSIDRO COMPLEX SOILS; DOMINATED BY PLEUROPOGON CALIFORNICUS. GRAZED BY CATTLE AND SHEEP. BRANCHINECTA CONSERVATIO FOUND IN SECTION 10.

General: AN ABUNDANT NUMBER OF REPRODUCTIVE ADULTS NETTED ON 2 MAR 1999.

Owner/Manager: PVT-BURKE RANCH

Occurrence No. 358 Map Index: 54518 EO Index: 54518 Dates Last Seen

Occ Rank: Excellent Element: 1999-03-02

Origin: Natural/Native occurrence Site: 1999-03-02

Presence: Presumed Extant

Trend: Unknown Record Last Updated: 2007-07-31

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.30364° / -121.84948° Township: 05N

UTM: Zone-10 N4240132 E600595 Range: 01E

Radius: 80 meters Mapping Precision: SPECIFIC Section: 03 Qtr: SE

Elevation: 35 ft Symbol Type: POINT Meridian: M

Location: 1.6 MILES WSW OF THE INTERSECTION OF HAY ROAD AND HIGHWAY 113, SOUTH OF DIXON

Ecological: HABITAT CONSISTS OF A RELATIVELY LARGE, BUT SHALLOW, VERNAL POOL ON ANTIOCH-SAN YSIDRO COMPLEX OR SAN YSIDRO COMPLEX SOILS; DOMINATED BY PLEUROPOGON CALIFORNICUS. GRAZED BY CATTLE AND SHEEP. BRANCHINECTA CONSERVATIO FOUND IN SECTION 10.

General: AN ABUNDANT NUMBER OF REPRODUCTIVE ADULTS NETTED ON 2 MAR 1999.

Owner/Manager: PVT-BURKE RANCH

Branchinecta lynchi

vernal pool fairy shrimp

Element Code: ICBRA03030

Status

NDDB Element Ranks

Other Lists

Federal: Threatened

Global: G3

CDFG Status:

State: None

State: S2S3

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.

Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Occurrence No. 385 Map Index: 61662 EO Index: 61698 Dates Last Seen

Occ Rank: Unknown Element: 2002-02-15

Origin: Natural/Native occurrence Site: 2002-02-15

Presence: Presumed Extant

Trend: Unknown Record Last Updated: 2006-03-08

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.24794° / -121.90775° Township: 05N

UTM: Zone-10 N4233889 E595573 Range: 01E

Radius: 1/10 mile Mapping PrecisionNON-SPECIFIC Section: 30 Qtr: XX

Elevation: 42 ft Symbol Type:POINT Meridian: M

Location: ABOUT 5.5 MILES SOUTHWEST OF DOZIER.

Location Detail: VERNAL POOL #20; "SMALL POOL TO WEST OF LARGE #31 POOL."

Ecological: VERNAL POOL.

General: NUMBER OF INDIVIDUALS NOT RECORDED. POOL #31 NOT SHOWN ON SOURCE MAP.

Owner/Manager: UNKNOWN

Occurrence No. 398 Map Index: 64296 EO Index: 64375 Dates Last Seen

Occ Rank: Good Element: 2005-02-03

Origin: Natural/Native occurrence Site: 2005-02-03

Presence: Presumed Extant

Trend: Unknown Record Last Updated: 2006-03-20

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.27317° / -121.91232° Township: 05N

UTM: Zone-10 N4236684 E595141 Range: 01E

Radius: 80 meters Mapping PrecisionSPECIFIC Section: 18 Qtr: XX

Elevation: 60 ft Symbol Type:POINT Meridian: M

Location: AT THE END OF MERIDIAN ROAD, ON THE EAST SIDE, SOUTH OF PERIMETER ROAD. ONE MILE EAST OF TRAVIS FIELD.

Ecological: LARGE, DEEP VERNAL POOL WITH VEGETATED BOTTOM AND CLEAR WATER. POOL IN ANNUAL GRASSLAND NEAR RUNWAY.

General: 10S OF INDIVIDUALS COLLECTED & DEPOSITED IN LACM. GRASSLAND AREA IS MOWED, BUT NO VISIBLE DISTURBANCE TO VERNAL POOL NOTED.

Owner/Manager: DOD-TRAVIS AFB

Occurrence No. 399 Map Index: 64297 EO Index: 64376 Dates Last Seen

Occ Rank: Good Element: 2005-02-02

Origin: Natural/Native occurrence Site: 2005-02-02

Presence: Presumed Extant

Trend: Unknown Record Last Updated: 2006-03-20

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.26211° / -121.96138° Township: 05N

UTM: Zone-10 N4235407 E590863 Range: 01W

Radius: 2/5 mile Mapping PrecisionNON-SPECIFIC Section: 22 Qtr: XX

Elevation: 75 ft Symbol Type:POINT Meridian: M

Location: ABOUT 0.5 MILE WEST OF TRAVIS AFB.

Location Detail: 1.25 MILES EAST OF WALTERS ROAD AND 0.8 MILES SOUTH OF AIRBASE PARKWAY.

Ecological: VERNAL POOL IN GRAZED ANNUAL GRASSLAND HABITAT; CLADOCERANS, COPEPODS, OSTRACODS & CHORUS FROG TADPOLES PRESENT. CLEAR WATER WITH VEGETATED BOTTOM.

General: FEWER THAN 10 INDIVIDUALS OBSERVED IN 5 POOLS. HUNDREDS OBSERVED IN 1 POOL & A DITCH ALONG RR TRACKS.

Owner/Manager: DOD-TRAVIS AFB

Branchinecta lynchi

vernal pool fairy shrimp

Element Code: ICBRA03030

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.
Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Occurrence No. 409	Map Index: 64320	EO Index: 64398	Dates Last Seen
Occ Rank: Fair			Element: 2004-12-29
Origin: Natural/Native occurrence			Site: 2004-12-29
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-06-20

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.28534° / -121.91660°	Township: 05N
UTM: Zone-10 N4238030 E594751	Range: 01W
Area: 9.1 acres	Section: 13
Elevation: 60 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: TRAVIS AFB, AT INTERSECTION OF MERIDIAN ROAD AND RAILROAD TRACKS, AND IN POOL SW OF INTERSECTION.
Ecological: PONDED AREA IN RAILROAD RIGHT-OF-WAY, SHALLOW TURBID POOL, UNVEGETATED. SURROUNDING AREA IS ANNUAL GRASSLAND/VERNAL POOL HABITAT.
Threat: OFF-ROAD VEHICLE ACTIVITY, GRAZING, DEVELOPMENT.
General: FEWER THAN 10 ADULTS OBSERVED AT INTERSECTION; 10'S IN POOL SW OF INTERSECTION.
Owner/Manager: PVT

Branchinecta mesovallensis

midvalley fairy shrimp

Element Code: ICBRA03150

Status: _____ NDDB Element Ranks: _____ Other Lists: _____
 Federal: None Global: G2 CDFG Status: _____
 State: None State: S2

Habitat Associations

General: VERNAL POOLS IN THE CENTRAL VALLEY.
 Micro:

Occurrence No. 25 Map Index: 48246 EO Index: 48246 Dates Last Seen: _____
 Occ Rank: Unknown Element: 1991-04-03
 Origin: Natural/Native occurrence Site: 1991-04-03
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2002-07-15

Quad Summary: Birds Landing (3812127/481A)
 County Summary: Solano

Lat/Long: 38.23537° / -121.85192° Township: 05N
 UTM: Zone-10 N4232553 E600476 Range: 01E
 Area: Mapping PrecisionNON-SPECIFIC Section: 34 Qtr: XX
 Elevation: 40 ft Symbol Type:POLYGON Meridian: M

Location: WEST OF HAVEN ROAD, SOUTH OF CREED ROAD, 2-3 MILES WEST OF HWY 113.
 Location Detail: LOCATION IDENTIFIED TO TOWNSHIP, RANGE AND SECTION ONLY.
 Ecological: VERNAL POOLS
 General: DENTON BELK COLLECTION # 1001 & 1002 COLLECTED BY J. GEOFF MONK 3 APR 1991.
 Owner/Manager: UNKNOWN

Occurrence No. 31 Map Index: 48327 EO Index: 48327 Dates Last Seen: _____
 Occ Rank: Unknown Element: 1999-03-05
 Origin: Natural/Native occurrence Site: 1999-03-05
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-07-31

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.28160° / -121.82820° Township: 05N
 UTM: Zone-10 N4237709 E602487 Range: 01E
 Area: Mapping PrecisionNON-SPECIFIC Section: 14 Qtr: NE
 Elevation: 15 ft Symbol Type:POLYGON Meridian: M

Location: CAMPBELL RANCH; 1.2 MILES WSW OF DOZIER.
 Location Detail: LOCATION OF 1999 OBSERVATION STATED AS CAMPBELL RANCH, SECTION 14.
 Ecological: VERNAL POOLS
 General: MAR 1994: DENTON BELK COLLECTION, #1293-1296; UNKNOWN NUMBER OF INDIVIDUALS COLLECTED BY R. PRESTON. 9 MALES AND 9 FEMALES CAPTURED ON 5 MAR 1999..
 Owner/Manager: UNKNOWN

Occurrence No. 32 Map Index: 48328 EO Index: 48328 Dates Last Seen: _____
 Occ Rank: Unknown Element: 1994-02-21
 Origin: Natural/Native occurrence Site: 1994-02-21
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2002-07-22

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.35901° / -121.83011° Township: 06N
 UTM: Zone-10 N4246296 E602212 Range: 01E
 Radius: 2/5 mile Mapping PrecisionNON-SPECIFIC Section: 14 Qtr: SE
 Elevation: 40 ft Symbol Type:POINT Meridian: M

Location: 6 MILES SOUTH OF DIXON, WEST OF HWY 113.
 Ecological: VERNAL POOL
 General: 21 FEB 1994: DENTON BELK COLLECTION # 1290; UNKNOWN NUMBER OF INDIVIDUALS COLLECTED BY GIBSON AND SKORDAL.
 Owner/Manager: UNKNOWN

Branchinecta mesovallensis

midvalley fairy shrimp

Element Code: ICBRA03150

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	
State: None	State: S2	CDFG Status:

Habitat Associations

General: VERNAL POOLS IN THE CENTRAL VALLEY.
 Micro:

Occurrence No. 34	Map Index: 48330	EO Index: 48330	Dates Last Seen
Occ Rank: Unknown			Element: 1993-02-04
Origin: Natural/Native occurrence			Site: 1993-02-04
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-07-22

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.31455° / -121.85117°	Township: 05N
UTM: Zone-10 N4241340 E600433	Range: 01E
Radius: 1/10 mile	Section: 03
Elevation: 40 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: INTERSECTION OF HAY ROAD AND BURKE ROAD. 1.5 MILES WEST OF HWY 113. ABOUT 3.85 MILES SE OF ELMIRA
Location Detail: LOCATION GIVEN AS "SOUTHWEST CORNER OF HAY RD & BURKE RD, ELMIRA, SOLANO CO., CALIF T6N, R5E, SEC. 3 NE 1/4". THE TOWNSHIP & RANGE NUMBERS DONT MATCH ROAD INFORMATION. MAPPED TO INCLUDE AREA SW & SE OF INTERSECT OF HAY RD & BURKE RD.
Ecological: DITCH
General: 4 FEB 1993: DENTON BELK COLLECTION # 1297; UNKNOWN NUMBER OF INDIVIDUALS COLLECTED BY DAVID MUTH.
Owner/Manager: UNKNOWN

Occurrence No. 47	Map Index: 48373	EO Index: 48373	Dates Last Seen
Occ Rank: Unknown			Element: XXXX-XX-XX
Origin: Natural/Native occurrence			Site: XXXX-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-07-25

Quad Summary: Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.15318° / -121.85475°	Township: 04N
UTM: Zone-10 N4223430 E600341	Range: 01E
Radius: 1/10 mile	Section: 34
Elevation: 180 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: 1.7 MILES NE OF BIRDS LANDING ON OLSEN ROAD. JUST SOUTH OF OLSEN RD AND HOPKINS Ravine.
General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITE #007 ON AN UNKNOWN DATE. LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES.
Owner/Manager: UNKNOWN

Occurrence No. 50	Map Index: 48377	EO Index: 48377	Dates Last Seen
Occ Rank: Unknown			Element: XXXX-XX-XX
Origin: Natural/Native occurrence			Site: XXXX-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-07-26

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.28271° / -121.83692°	Township: 05N
UTM: Zone-10 N4237823 E601723	Range: 01E
Area: 27.6 acres	Section: 14
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: 0.5 TO 1.0 MILE WSW OF DOZIER; SITUATED BETWEEN TWO CREEKS THAT FLOW INTO BARKER SLOUGH.
General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITES # 009, 010, 011 AND 012 ON AN UNKNOWN DATE. LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES.
Owner/Manager: UNKNOWN

Branchinecta mesovallensis

midvalley fairy shrimp

Element Code: ICBRA03150

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G2 CDFG Status:
 State: None State: S2

Habitat Associations _____
 General: VERNAL POOLS IN THE CENTRAL VALLEY.
 Micro:

Occurrence No. 51 Map Index: 48378 EO Index: 48378 Dates Last Seen _____
 Occ Rank: Unknown Element: XXXX-XX-XX
 Origin: Natural/Native occurrence Site: XXXX-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2002-07-28

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.26381° / -121.82311° Township: 05N
 UTM: Zone-10 N4235740 E602958 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 24 Qtr: NW
 Elevation: 15 ft Symbol Type: POINT Meridian: M

Location: 1.5 MILES SOUTH OF DOZIER; APPROXIMATELY 200 FT EAST OF UNIMPROVED ROAD.

General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITE #028 ON AN UNKNOWN DATE. LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES.

Owner/Manager: UNKNOWN

Occurrence No. 52 Map Index: 48423 EO Index: 48423 Dates Last Seen _____
 Occ Rank: Good Element: 2002-01-11
 Origin: Natural/Native occurrence Site: 2002-04-01
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2002-08-01

Quad Summary: Elmira (3812138/498C), Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.31512° / -121.87625° Township: 05N
 UTM: Zone-10 N4241376 E598239 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 04 Qtr: NW
 Elevation: 45 ft Symbol Type: POINT Meridian: M

Location: 4.5 MILES NE OF TRAVIS FIELD; 2.1 MILES EAST ON HAY ROAD (SOUTH SIDE) FROM MERIDIAN ROAD, 1900 FT WEST OF DULLY ROAD.

Location Detail: POOL #36-21

Ecological: HABITAT CONSISTS OF A SHALLOW, SHORT-LIVED VERNAL POOL IN A GRASSLAND GRAZED BY CATTLE. POOL IS ON NORTH EDGE OF A COMPLEX OF SIMILAR POOLS THAT ARE CONTIGUOUS WITH VERNAL POOL HABITAT TO SOUTH & SOUTHEAST. BRANCHINECTA LYNCHI IN VICINITY

Threat: THREATS CONSIST OF THE FUTURE WIDENING OF HAY ROAD (ALTHOUGH NOT CURRENTLY PROPOSED).

General: UNKNOWN NUMBER OBSERVED ON 11 JAN 2002. UNKNOWN NUMBER COLLECTED BUT NOT YET ACCESSIONED AT CAL ACADEMY OF SCIENCES.

Owner/Manager: PVT

Occurrence No. 53 Map Index: 48498 EO Index: 48498 Dates Last Seen _____
 Occ Rank: Fair Element: 2002-02-06
 Origin: Natural/Native occurrence Site: 2002-02-06
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2002-08-08

Quad Summary: Saxon (3812146/497B)
 County Summary: Yolo

Lat/Long: 38.44605° / -121.67314° Township: 07N
 UTM: Zone-10 N4256140 E615787 Range: 03E
 Area: 27.5 acres Mapping Precision: SPECIFIC Section: 17 Qtr: SE
 Elevation: 15 ft Symbol Type: POLYGON Meridian: M

Location: 1.6 MILES SW OF SAXON; 1 TO 1.3 MILES SW ALONG THE NORTHERN ELECTRIC RAILROAD GRADE FROM ROAD 38.

Location Detail: SITE NUMBERS 52-10, 52-10B, 52-10C, 52-10G, 52-10H AND 52-24; EAST SIDE OF RAILROAD GRADE.

Ecological: HABITAT CONSISTS OF SHALLOW SHORT-LIVED POOLS IN A CATTLE GRAZED GRASSLAND. POOLS OCCUR NEAR ARTIFICIALLY CONSTRUCTED BERMS. NATURAL TOPOGRAPHY MAINLY ABSENT. BRANCHINECTA LYNCHI, LEPIDURUS PACKARDI & LINDERIELLA OCCIDENTALIS IN COMPLEX.

General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED ON 11, 23 JAN 2002 AND 6 FEB 2002.

Owner/Manager: DFG

Branchinecta mesovallensis

midvalley fairy shrimp

Element Code: ICBRA03150

Status

NDDB Element Ranks

Other Lists

Federal: None
 State: None

Global: G2
 State: S2

CDFG Status:

Habitat Associations

General: VERNAL POOLS IN THE CENTRAL VALLEY.

Micro:

Occurrence No. 58

Map Index: 51552

EO Index: 51552

Dates Last Seen

Occ Rank: Good

Element: 2003-01-XX

Origin: Natural/Native occurrence

Site: 2003-01-XX

Presence: Presumed Extant

Trend: Unknown

Record Last Updated: 2003-06-16

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.45404° / -121.66678°

Township: 07N

UTM: Zone-10 N4257035 E616330

Range: 03E

Radius: 80 meters

Mapping Precision: SPECIFIC

Section: 17

Qtr: NW

Elevation: 15 ft

Symbol Type: POINT

Meridian: M

Location: JUST NW OF THE OLD SACRAMENTO NORTHERN RAILROAD.

Location Detail: POOLS FILLED WITH WATER DURING THE HEAVY RAINS OF DECEMBER 2002 AND WERE DRY BY MID-FEBRUARY

Ecological: HABITAT CONSISTS OF TWO SHALLOW VERNAL POOLS IN GRAZED NON-NATIVE GRASSLAND. CYZICUS CALIFORNICUS FOUND IN POOL #52-06A; LINDERIELLA AND BRANCHINECTA LYNCHI ALSO OCCUR IN NEARBY POOLS.

General: FEW INDIVIDUALS OBSERVED IN JAN 2003.

Owner/Manager: DFG-YOLO BYPASS WA

Buteo regalis

ferruginous hawk

Element Code: ABNKC19120

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status:
State: None	State: S3S4	

Habitat Associations

General: OPEN GRASSLANDS, SAGEBRUSH FLATS, DESERT SCRUB, LOW FOOTHILLS & FRINGES OF PINYON-JUNIPER HABITATS.
Micro: EATS MOSTLY LAGOMORPHS, GROUND SQUIRRELS, AND MICE. POPULATION TRENDS MAY FOLLOW LAGOMORPH POPULATION CYCLES.

Occurrence No. 22	Map Index: 66013	EO Index: 66092	Dates Last Seen
Occ Rank: Excellent			Element: 1996-01-26
Origin: Natural/Native occurrence			Site: 1996-01-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-08-23

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.20631° / -121.98320°	Township: 04N
UTM: Zone-10 N4229194 E589022	Range: 01W
Radius: 80 meters	Section: 09
Elevation: 100 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: 3.8 MI SE OF SUISIN CITY, 2 MI ESE OF SUISIN HILL, POTRERO HILLS.

Ecological: NON-NATIVE GRASSLAND WITH SCATTERED GROVES OF EUCALYPTUS. SUISIN MARSH WETLANDS NEARBY.

General: WINTERING SITE. 1 ADULT OBSERVED ON 26 JAN 1996.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 121 **Map Index:** 10966 **EO Index:** 27185 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1984-06-26
Origin: Natural/Native occurrence **Site:** 1984-06-26
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1989-08-10

Quad Summary: Isleton (3812125/480A), Rio Vista (3812126/480B)

County Summary: Solano, Sacramento

Lat/Long: 38.19463° / -121.61468° **Township:** 04N
UTM: Zone-10 N4228317 E621308 **Range:** 03E
Radius: 1 mile **Mapping Precision:**NON-SPECIFIC **Section:** 14 **Qtr:** XX
Elevation: 5 ft **Symbol Type:**POINT **Meridian:** M

Location: 1 MILE SOUTH OF WALKER LANDING, ON GRAND ISLAND ROAD, EAST OF STEAMBOAT SLOUGH

Ecological: HABITAT CONSISTS OF GOOD RIPARIAN.

General: DFG SWHA #SA020. OBSERVED FROM 2 DIFFERENT LOCATIONS W/IN THIS AREA. NEST FOUND IN 1983. 1 ADULT OBS PERCHING 1984.

Owner/Manager: PVT

Occurrence No. 311 **Map Index:** 21029 **EO Index:** 9168 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-07-29
Origin: Natural/Native occurrence **Site:** 2005-07-29
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-03

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.45660° / -121.74697° **Township:** 07N
UTM: Zone-10 N4257221 E609328 **Range:** 02E
Area: 7.0 acres **Mapping Precision:**SPECIFIC **Section:** 15 **Qtr:** NW
Elevation: 40 ft **Symbol Type:**POLYGON **Meridian:** M

Location: 2.75 MILES NORTH OF MIDWAY ROAD, 8 MILES EAST OF DIXON.

Location Detail: 1992, 2000, AND 2001 FINAL NEST WERE LOCATED IN A EUCALYPTUS TREE ADJACENT TO A RURAL FARM HOUSE. 2002, 2004, AND 2005 NEST LOCATED IN A LARGE LOCUST IN THE NE PART OF THE FARMSTEAD.

Ecological: NEST TREE IS A LOCUST; SURROUNDING FORAGING HABITAT CONSISTS OF CULTIVATED LAND IN ALL DIRECTIONS.

General: NEST-BUILDING 7 APR 1992. ADULTS FEEDING 2 DOWNY CHICKS 8 JUN 2000. 1 FLEDGED IN 2001. INCUBATION OBSERVED 9 MAY 2002. DEAD DOWNY CHICK FOUND UNDER NEST 13 JUL 2004. NEST MONITORED 23 APR-29 JUL 2005; 2 FLEDGED.

Owner/Manager: PVT

Occurrence No. 314 **Map Index:** 21026 **EO Index:** 10011 **Dates Last Seen** _____
Occ Rank: Good **Element:** 1990-XX-XX
Origin: Natural/Native occurrence **Site:** 1992-04-07
Presence: Presumed Extant
Trend: Decreasing **Record Last Updated:** 2001-03-28

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.43847° / -121.75959° **Township:** 07N
UTM: Zone-10 N4255194 E608255 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 21 **Qtr:** NW
Elevation: 45 ft **Symbol Type:**POINT **Meridian:** M

Location: 1.7 MILES SE OF TREMONT SCHOOL, 3 MILES EAST OF DIXON

Location Detail: BIRDS OBSERVED FORAGING OVER A NEARBY, FRESHLY-CUT, ALFALFA FIELD IN 1992.

Ecological: HABITAT SURROUNDING NEST TREE CONSISTS OF IRRIGATED ALFALFA FIELDS.

General: NEST SITE WAS ACTIVE IN 1990, BUT NOT IN 1991 OR 1992; HOWEVER, A PAIR WAS OBSERVED FORAGING IN 1992.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 316	Map Index: 21024	EO Index: 9021	Dates Last Seen
Occ Rank: Good			Element: 1990-05-18
Origin: Natural/Native occurrence			Site: 1990-05-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-12-07

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.32445° / -121.92358°	Township: 06N
UTM: Zone-10 N4242362 E594090	Range: 01W
Radius: 1/5 mile	Section: 36
Elevation: 70 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: CYPRESS LAKES GOLF COURSE, 3 MILES SE OF VACAVILLE.

Ecological: NEST TREE IS A EUCALYPTUS; SURROUNDED BY A MILITARY-OWNED GOLF COURSE.

General: NEST SITE WAS ALSO USED IN 1989. 2 ADULTS AND 2 NESTLINGS WERE FIRST OBSERVED ON 1 APR 1990, THEN AGAIN ON 6 MAY AND 18 MAY 1990.

Owner/Manager: PVT-CYPRESS LAKES GOLF COURSE

Occurrence No. 388	Map Index: 21227	EO Index: 14113	Dates Last Seen
Occ Rank: None			Element: 2002-07-18
Origin: Natural/Native occurrence			Site: 2002-XX-XX
Presence: Extirpated			
Trend: Decreasing			Record Last Updated: 2007-11-20

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.48936° / -121.84881°	Township: 07N
UTM: Zone-10 N4260740 E600397	Range: 01E
Radius: 80 meters	Section: 03
Elevation: 80 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: SOUTH SIDE OF SIEVERS ROAD, 0.3 MILE EAST OF STEVENSON BRIDGE ROAD, 2.5 MILES NNW OF DIXON.

Location Detail:NEST TREE IS LOCATED AT THE FARMSTEAD AT 6212 KIEVERNAGEL. NEST LOCATED 10' BELOW THE TOP OF THE TRUNK ANGLING OVER THE EASTBOUND LANE.

Ecological: NEST TREE WAS A LARGE BLACK WALNUT; SURROUNDED BY WALNUT ORCHARDS TO THE SOUTH AND CORN TO THE NORTH. NEST TREE WAS COMPLETELY REMOVED AFTER THE 2002 NESTING SEASON.

General: APR 1992: ADULTS NESTING; JUN 1992: 1 AD/3 DOWNY YOUNG OBSERVED IN THE NEST. NEST MONITORED 5 JUN-2 AUG 2000; 2 CHICKS, 1 FLEDGED. NEST MONITORED 9 APR-20 JUL 2001; 1 FLEDGED. NEST MONITORED 2 APR-18 JUL 2002; 1 FLEDGED.

Owner/Manager: SOL COUNTY

Occurrence No. 389	Map Index: 21236	EO Index: 14112	Dates Last Seen
Occ Rank: None			Element: 1992-05-19
Origin: Natural/Native occurrence			Site: 2000-XX-XX
Presence: Possibly Extirpated			
Trend: Decreasing			Record Last Updated: 2001-03-28

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.48461° / -121.80326°	Township: 07N
UTM: Zone-10 N4260264 E604377	Range: 02E
Radius: 80 meters	Section: 06
Elevation: 60 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: 0.25 MILE SOUTH OF THE JUNCTION OF PEDRICK ROAD AND I-80, 2.75 MILES NNE OF DIXON

Ecological: NEST TREE IS AN ALMOND TREE ON THE NORTH SIDE OF A FARM RESIDENCE AREA; SURROUNDING HABITAT IS IRRIGATED AGRICULTURE, INCLUDING ALFALFA AND OTHER CROPS.

Threat: POSSIBLY THREATENED BY DEVELOPMENT.

General: NESTING OBSERVED ON 19 MAY 1992; BOTH BIRDS WERE INTERMEDIATE PHASE IN COLORATION. ALL TREES AND BUILDINGS AT THIS FARMSTEAD WERE REMOVED PRIOR TO THE 2000 BREEDING SEASON.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 390	Map Index: 21235	EO Index: 16410	Dates Last Seen
Occ Rank: Fair			Element: 2000-07-30
Origin: Natural/Native occurrence			Site: 2005-07-16
Presence: Possibly Extirpated			Record Last Updated: 2005-11-09
Trend: Unknown			

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.40705° / -121.80348°	Township: 07N
UTM: Zone-10 N4251657 E604469	Range: 02E
Radius: 80 meters	Section: 31
Elevation: 40 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: 0.7 MILE SOUTH OF THE JUNCTION OF PEDRICK ROAD AND MIDWAY ROAD, 3 MILES SSE OF DIXON
Location Detail: THIS PAIR ALTERNATELY USED TWO NEST TREES IN THE 1990'S: A LOCUST NE OF FARM RESIDENCE AND A DEAD EUCALYPTUS SOUTH OF THE RESIDENCE.
Ecological: 2000 NEST TREE WAS A LOCUST; SURROUNDED BY ALFALFA TO THE EAST AND NORTH, CULTIVATED LAND TO THE WEST.
Threat: POSSIBLE THREAT OF TREE REMOVAL (EUCALYPTUS TREE IS DEAD).
General: BIRD ON NEST IN A DEAD EUCALYPTUS TREE, 20 APR 1992; 19 MAY 1992, 2 BIRDS IN LOCUST TREE (W/NEST), 1 JUV OBSERVED IN EUCALYPTUS NEST, 23 JUL 1996. NEST MONITORED 23 JUN-30 JUL 2000; NO YOUNG SEEN. UNOCCUPIED IN 2001, 2002, 2004, AND 2005.

Owner/Manager: PVT

Occurrence No. 506	Map Index: 23054	EO Index: 18048	Dates Last Seen
Occ Rank: Good			Element: 1992-06-17
Origin: Natural/Native occurrence			Site: 1992-06-17
Presence: Presumed Extant			Record Last Updated: 1993-04-19
Trend: Unknown			

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.48150° / -121.84992°	Township: 07N
UTM: Zone-10 N4259867 E600311	Range: 01E
Radius: 1/5 mile	Section: 03
Elevation: 80 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: SOUTH SIDE OF SIEVERS ROAD, 0.4 MILE EAST OF STEVENSON BRIDGE ROAD, 2 MILES NW OF DIXON.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTS OF IRRIGATED AGRICULTURAL LAND.
Threat: THREATENED BY TREE REMOVAL AND DEVELOPMENT BY THE TOWN OF DIXON.
General: DFG SWHA #SO002. 2 ADULTS OBSERVED FORAGING IN THE AREA AND LANDING AT A NEST ON 20 APRIL 1992; ON 17 JUNE 1992, ONE ADULT OBSERVED STANDING ON NEST EDGE AND 3 DOWNY YOUNG (APPROXIMATELY 2-WEEKS-OLD) INSIDE NEST.

Owner/Manager: UNKNOWN

Occurrence No. 569	Map Index: 23535	EO Index: 21528	Dates Last Seen
Occ Rank: Good			Element: 2005-08-08
Origin: Natural/Native occurrence			Site: 2005-08-08
Presence: Presumed Extant			Record Last Updated: 2007-06-21
Trend: Unknown			

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.34684° / -121.88263°	Township: 06N
UTM: Zone-10 N4244889 E597639	Range: 01E
Area: 9.0 acres	Section: 20
Elevation: 50 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: DALLY MAIN CANAL, EAST OF CHICORP ROAD, 1.5 MILES EAST OF ELMIRA.
Location Detail: 2001 NEST WAS LOCATED AT THE 90% HEIGHT OF THE SOLITARY EASTERNMOST EUCALYPTUS.
Ecological: NEST TREE WAS A BLUE GUM EUCALYPTUS, LOCATED ALONG A CREEK CHANNEL THAT IS LINED WITH SMALLER, DECIDUOUS TREES; SURROUNDED BY SUNFLOWERS TO THE NE AND NW, AND ROW CROPS TO THE SE AND SW.
General: PAIR PERCHED ABOVE NEST, 31 MAY 1990. NEST MONITORED 3 APR-23 JUL 2001; 1 FLEDGED. NEST MONITORED 13 MAY-1 AUG 2002; ADULT DEFENDED. NEST SITE MONITORED 20 MAR-22 JUL 2004; ADULTS PRESENT. NEST MONITORED 5 MAR-8 AUG 2005; 2 FLEDGED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 598 **Map Index:** 23628 **EO Index:** 18421 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-26
Origin: Natural/Native occurrence **Site:** 2005-08-26
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-17

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.49485° / -121.69739° **Township:** 08N
UTM: Zone-10 N4261526 E613595 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 36 **Qtr:** NE
Elevation: 30 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF TREMONT ROAD, 0.1 MILE WEST OF ROAD 104, 7 MILES SOUTH OF DAVIS.

Location Detail:DFG SWHA SO019. 2004 NEST LOCATED AT THE 80% HEIGHT OF THE EASTMOST TREE IN A CONTINUOUS ROW OF BLACK WALNUTS.

Ecological: NEST TREE IS A BLACK WALNUT WITHIN A ROW OF WALNUT TREES; SURROUNDING FORAGING HABITAT CONSISTS OF CULTIVATED LAND TO THE SOUTH AND RUDERAL TO THE NORTH, ACROSS TREMONT ROAD.

General: 2 FLEDGED FROM THIS SITE IN 1988. NEST MONITORED 8 APR-24 SEP 2001; 3 FLEDGED. NEST MONITORED 21 APR-15 JUL 2002; 2 FLEDGED. NEST MONITORED 19 MAR-10 AUG 2004; 1 FLEDGED. NEST SITE MONITORED 3 MAR-26 AUG 2005; ADULTS PRESENT, BUT NO CHICKS.

Owner/Manager: UNKNOWN

Occurrence No. 642 **Map Index:** 24157 **EO Index:** 7151 **Dates Last Seen** _____
Occ Rank: None **Element:** 1992-05-18
Origin: Natural/Native occurrence **Site:** 1992-05-18
Presence: Extirpated
Trend: Unknown **Record Last Updated:** 2004-12-09

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.47887° / -121.95165° **Township:** 07N
UTM: Zone-10 N4259469 E591441 **Range:** 01W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 2 **Qtr:** XX
Elevation: 120 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.3 MILE WEST OF I-505, 3.7 MILES SSE OF WINTERS

Ecological: NEST TREE WAS A LONE OAK; SURROUNDED BY GRAZED, NON-NATIVE GRASSLAND.

Threat: THREATENED/EXTIRPATED BY LACK OF SUITABLE NEST TREES.

General: 1 ADULT WAS OBSERVED FLYING, AND A 2ND ADULT WAS FLUSHED FROM THE NEST TREE; NEST WAS MAINTAINED, BUT EGGS/YOUNG WERE NOT CONFIRMED IN 1992. PRESUMED ORIGINAL NEST TREE IS NOW DEAD AND FALLEN OVER (WITH SOME LIMBS REMOVED)

Owner/Manager: UNKNOWN

Occurrence No. 677 **Map Index:** 33263 **EO Index:** 2568 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2005-07-21
Origin: Natural/Native occurrence **Site:** 2005-07-21
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-11-20

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.46116° / -121.81767° **Township:** 07N
UTM: Zone-10 N4257645 E603153 **Range:** 01E
Area: 7.9 acres **Mapping Precision:**SPECIFIC **Section:** 12 **Qtr:** SW
Elevation: 60 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ALONG DUDLEY CREEK, 0.5 MILE SOUTH OF VAUGHN ROAD AND 0.3 MILE EAST OF HIGHWAY 113, NE OF DIXON.

Location Detail:NEST TREE IS LOCATED IN AN OLD, NOW DRY, CHANNEL OF DUDLEY CREEK; NEST IS EXCEPTIONALLY LARGE. NEW NEST TREE IN THE SAME VICINITY IN 2005.

Ecological: NEST TREE IS A EUCALYPTUS, GROWING IN AN OLD, DRY CHANNEL OF DUDLEY CREEK; SURROUNDED BY AGRICULTURE ON THE NORTH, EAST, AND WEST, WITH DEVELOPMENT TO THE SOUTH.

Threat: THREATENED BY INDUSTRIAL/WAREHOUSE DEVELOPMENT.

General: 27 JUN 1995, 2 ADULTS AT NEST; NO YOUNG VISIBLE. NEST IN 2000; 1 FLEDGED. NEST ACTIVE IN 2001; 1 FLEDGED. NEST ACTIVE IN 2002; INCUBATION OBSERVED DURING MAY-JUN 2002. NEST ACTIVE IN 2004; 1 FLEDGED. NEST ACTIVE IN 2005; 3 FLEDGED.

Owner/Manager:

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

PVT

Occurrence No. 686 **Map Index:** 33487 **EO Index:** 24225 **Dates Last Seen**
Occ Rank: Good **Element:** 2005-07-21
Origin: Natural/Native occurrence **Site:** 2005-07-21
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-11-20

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.49421° / -121.78813° **Township:** 08N
UTM: Zone-10 N4261346 E605682 **Range:** 02E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 31 **Qtr:** SE
Elevation: 60 ft **Symbol Type:** POINT **Meridian:** M

Location: WEST OF ROBBEN ROAD, 0.2 MILE SOUTH OF TREMONT ROAD, 3.5 MILES NE OF DIXON.
Location Detail: LANDOWNERS REPORT NESTING IN PREVIOUS YEARS. 1996, 2005 NEST TREE WAS A BLACK LOCUST. 2001, 2002, 2004 NEST TREE WAS A BLACK WALNUT.
Ecological: NEST TREE WAS A BLACK LOCUST; SURROUNDING FORAGING HABITAT INCLUDES TOMATOES TO THE NORTH AND WEST, A FARMSTEAD TO THE EAST AND SE, AND RUDERAL TO THE EAST, ACROSS THE ROAD.
Threat: POSSIBLE THREAT FROM A PROPOSED COMMERCIAL DEVELOPMENT AT THE SE CORNER OF I-80 AND PEDRICK ROAD.
General: NEST ACTIVE IN 1996; 2 FLEDGED. NEST ACTIVE IN 2000 & 2001; 2 FLEDGED EACH YEAR. ADULTS PRESENT IN 2002, BUT NO NEST. GHOW OCCUPIED THIS SITE IN 2004. NEST ACTIVE IN 2005; 2 FLEDGED.

Owner/Manager: PVT

Occurrence No. 732 **Map Index:** 41419 **EO Index:** 41419 **Dates Last Seen**
Occ Rank: Excellent **Element:** 2005-09-08
Origin: Natural/Native occurrence **Site:** 2005-09-08
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-11-09

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.47484° / -121.86269° **Township:** 07N
UTM: Zone-10 N4259114 E599206 **Range:** 01E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 09 **Qtr:** NW
Elevation: 80 ft **Symbol Type:** POINT **Meridian:** M

Location: SOUTH SIDE OF THISSELL ROAD, 0.2 MILE WEST OF SCHROEDER ROAD, 2 MILES NW OF DIXON
Location Detail: 1999 NEST TREE WAS THE FOURTH ARIZONA CYPRESS WEST OF SCHROEDER ROAD, GROWING ON THE SOUTH SHOULDER OF THISSELL ROAD. 2000 AND 2001 NEST WAS IN THE TOP OF THE FIFTH CYPRESS TO THE WEST.
Ecological: NEST TREE IS AN ARIZONA CYPRESS; SURROUNDED BY WHEAT TO THE NW, ALMONDS TO THE TO THE EAST, ALFALFA TO THE NORTH AND SOUTH.
Threat: NEST TREES THREATENED BY REPEATED PRUNING, MAKING THEM SMALL AND RAGGED. FORAGING AREAS ARE BEING REPLACED BY ORCHARDS.
General: NEST ACTIVE IN 1999; 2 FLEDGED. NEST ACTIVE IN 2000; 1 FLEDGED. NEST ACTIVE IN 2001; COPULATION/INCUBATION, BUT NO YOUNG. ADULTS PRESENT, BUT NO NEST OBSERVED, IN 2002. NEST ACTIVE IN 2004; 2 FLEDGED. NEST ACTIVE IN 2005; NO CHICK DETECTED.

Owner/Manager: PVT?

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

----- Status ----- NDDB Element Ranks ----- Other Lists -----
 Federal: None Global: G5
 State: Threatened State: S2 CDFG Status:

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
 Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 733 Map Index: 41420 EO Index: 41420 Dates Last Seen -----
 Occ Rank: Good Element: 2005-07-16
 Origin: Natural/Native occurrence Site: 2005-07-16
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-09-15

Quad Summary: Allendale (3812148/498B)
 County Summary: Solano

Lat/Long: 38.48934° / -121.87710° Township: 07N
 UTM: Zone-10 N4260708 E597930 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 04 Qtr: NW
 Elevation: 94 ft Symbol Type: POINT Meridian: M

Location: SOUTH SIDE OF SIEVERS ROAD, 1.3 MILES WEST OF STEVENSON BRIDGE ROAD, 3 MILES NW OF DIXON
 Location Detail: NEST IS HIGH ON THE EAST SIDE OF THE NEST TREE, WHICH SPREADS ALL THE WAY ACROSS SIEVERS ROAD TO THE NORTH SHOULDER. A NORTH-SOUTH IRRIGATION CANAL IS FOUND JUST WEST OF THE NEST TREE.
 Ecological: NEST TREE IS A LARGE BLACK WALNUT; SURROUNDED BY A WALNUT ORCHARD TO THE SW, NEW GREENHOUSES TO THE NORTH, ACROSS THE CANAL, NEW WALNUTS TO THE SE, AND THE REMAINDER CULTIVATED LAND.
 Threat: THREATENED BY NEST TREE TRIMMING/REMOVAL TO IMPROVE ROAD CLEARANCE AND REDUCTION OF FORAGE DUE TO ORCHARD EXPANSION.
 General: 2 YOUNG FLEDGED FROM THIS SITE IN 1999, 2000, AND 2002; 1 FLEDGED IN 2001. NEST MONITORED 22 MAR-16 JUL 2004; 3 FLEDGED. NEST MONITORED 1 FEB-14 AUG 2005; ADULT INCUBATING ON 15 MAY 2005, BUT NO CHICKS DETECTED.

Owner/Manager: UNKNOWN

Occurrence No. 754 Map Index: 41767 EO Index: 41767 Dates Last Seen -----
 Occ Rank: Unknown Element: 1994-07-07
 Origin: Natural/Native occurrence Site: 1994-07-07
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-01-05

Quad Summary: Rio Vista (3812126/480B)
 County Summary: Sacramento

Lat/Long: 38.17152° / -121.64345° Township: 04N
 UTM: Zone-10 N4225715 E618826 Range: 03E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 21 Qtr: SE
 Elevation: 10 ft Symbol Type: POINT Meridian: M

Location: SOUTH SIDE OF THE SACRAMENTO RIVER, AT THE ENTRANCE TO VIERRA'S RESORT, 2.5 MILES ENE OF RIO VISTA.
 Ecological: NEST TREE IS A COTTONWOOD; SURROUNDED BY AGRICULTURE.
 General: 2 ADULTS AND 1 JUVENILE OBSERVED AT THE NEST ON 7 JUL 1994.

Owner/Manager: PVT

Occurrence No. 767 Map Index: 41786 EO Index: 41786 Dates Last Seen -----
 Occ Rank: Unknown Element: 1988-XX-XX
 Origin: Natural/Native occurrence Site: 1994-04-28
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1999-10-25

Quad Summary: Rio Vista (3812126/480B)
 County Summary: Sacramento

Lat/Long: 38.16860° / -121.62760° Township: 04N
 UTM: Zone-10 N4225411 E620219 Range: 03E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 27 Qtr: XX
 Elevation: 20 ft Symbol Type: POINT Meridian: M

Location: WEST END OF LONG ISLAND, IN THE SACRAMENTO RIVER, 1 MILE WNW OF ISLETON.
 Ecological: NEST TREE IS A COTTONWOOD; SURROUNDED BY AGRICULTURAL LAND.
 General: DFG SWHA #SA064. PAIR OBSERVED NESTING IN 1988. A LIGHT-MORPH MALE AND A DARK-MORPH MALE OBSERVED PERCHED ON 28 APR 1994.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 832	Map Index: 43456	EO Index: 43456	Dates Last Seen
Occ Rank: None			Element: 2000-07-16
Origin: Natural/Native occurrence			Site: 2005-05-01
Presence: Possibly Extirpated			
Trend: Decreasing			Record Last Updated: 2005-11-09

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.47713° / -121.81765°	Township: 07N
UTM: Zone-10 N4259418 E603132	Range: 01E
Radius: 80 meters	Section: 01
Elevation: 65 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: SOUTH SIDE OF I-80, 0.4 MILE NE OF THE HIGHWAY 113 INTERCHANGE, 1.5 MILES NORTH OF DIXON
Location Detail: 2000 NEST TREE IS LOCATED SOUTH OF THE FREEWAY FENCE, OPPOSITE CALL BOX #SO-80-386. NEST IS DIFFICULT TO SEE, BUT THE NEST WAS LOCALIZED (FROM ACROSS THE FREEWAY/MILK FARM ROAD) BY WATCHING THE BEHAVIOR OF THE PARENTS.
Ecological: NEST TREE IS LOCATED WITHIN A ROW OF MIXED DECIDUOUS TREES ALONG THE NORTH EDGE OF A CORN FIELD.
Threat: THREATENED BY DEVELOPMENT: PROPOSED CONSTRUCTION OF A GAMBLING/HORSE RACING FACILITY AT THIS SITE.
General: NEST MONITORED, 16 MAY-16 JUL 2000; 1 FLEDGED. SWHA OBSERVED FLYING DURING 5 OF 12 VISITS IN 2001, BUT NO DEFINITE NESTING ACTIVITY. MOST OF THE TREES IN THIS AREA WERE REMOVED IN 2002 IN PREPARATION FOR DEVELOPMENT; SITE LIKELY EXTIRPATED.

Owner/Manager: PVT

Occurrence No. 833	Map Index: 43458	EO Index: 43458	Dates Last Seen
Occ Rank: Good			Element: 2005-07-08
Origin: Natural/Native occurrence			Site: 2005-07-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-11-09

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.47402° / -121.82116°	Township: 07N
UTM: Zone-10 N4259069 E602830	Range: 01E
Area: 9.5 acres	Section: 12
Elevation: 65 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: SOUTH SIDE OF I-80, 0.1 MILE EAST OF THE HIGHWAY 113 INTERCHANGE, 1.3 MILES NORTH OF DIXON
Location Detail: 2000 NEST WAS LOCATED HIGH, ON THE SOUTH SIDE OF THE NEST TREE. 2004 NEST WAS AT THE 90% HEIGHT OF A SMALL ENGLISH WALNUT. 2005 NEST WAS IN A BLACK WALNUT LOCATED WITHIN A FENCED AREA.
Ecological: 2000 NEST TREE WAS A BLACK WALNUT; AREA SOUTH OF THE NEST TREE IS WEEDY AND UNCULTIVATED. 2004 NEST TREE WAS A SMALL ENGLISH WALNUT; SMALL AREA TO THE SOUTH HAS NOW BEEN DEVELOPED AS A WALMART AND COMMERCIAL REAL ESTATE.
Threat: THREATENED BY DEVELOPMENT OF AN ADJACENT SITE TO THE NORTH.
General: NEST ACTIVE IN 2000; 1 FLEDGED. SITE UNOCCUPIED IN 2001 AND 2002. NEST ACTIVE IN 2004; 2 CHICKS OBSERVED 18 JUN 2004, AND AT LEAST 1 FLEDGED. NEST ACTIVE IN 2005; 1 FLEDGED.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status

NDDB Element Ranks

Other Lists

Federal: None

Global: G5

CDFG Status:

State: Threatened

State: S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 834 Map Index: 43462 EO Index: 43462 Dates Last Seen
 Occ Rank: Good Element: 2005-05-19
 Origin: Natural/Native occurrence Site: 2005-08-22
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-09-15

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.48947° / -121.89212° Township: 07N
 UTM: Zone-10 N4260707 E596619 Range: 01E
 Area: 7.1 acres Mapping Precision: SPECIFIC Section: 05 Qtr: XX
 Elevation: 95 ft Symbol Type: POLYGON Meridian: M

Location: SOUTH SIDE OF SIEVERS ROAD, 0.15 MILE EAST OF GARNETT ROAD, WEST OF DIXON

Location Detail: 2000, 2004, AND 2005 NEST TREE WAS THE FIRST TREE, A BLACK WALNUT, EAST OF GARNETT ROAD, ON THE SOUTH SHOULDER. 2001-2002 NEST TREE WAS THE 2ND TREE EAST OF GARNETT ROAD. BY 2004, THE 2ND AND 3RD TREES EAST OF GARNETT APPEARED TO BE DEAD.

Ecological: NEST TREE WAS A BLACK WALNUT; SURROUNDED BY ALFALFA TO THE SOUTH AND TOMATOES NORTH OF VAUGHN CANAL, ACROSS THE ROAD.

General: ADULTS DEFENDED NEST TREE IN 1999; NO YOUNG OBSERVED. 1 FLEDGED IN 2000, 2001, 2002, AND 2004. NEST MONITORED 31 MAR-22 AUG 2005; ADULT INCUBATING ON 19 MAY 2005, BUT NO CHICK DETECTED.

Owner/Manager: UNKNOWN

Occurrence No. 835 Map Index: 43467 EO Index: 43467 Dates Last Seen
 Occ Rank: Fair Element: 2001-05-26
 Origin: Natural/Native occurrence Site: 2005-07-07
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-06-14

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.48987° / -121.90130° Township: 08N
 UTM: Zone-10 N4260741 E595819 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 99 Qtr: XX
 Elevation: 95 ft Symbol Type: POINT Meridian: M

Location: NORTH SIDE OF SIEVERS ROAD, 0.3 MILE WEST OF GARNETT ROAD, WEST OF DIXON

Location Detail: NEST IS LOCATED AT 95% HEIGHT OF THE EASTERN TREE, BUT WAS NEARLY INVISIBLE EVEN THOUGH THE TREE SEEMED TRANSPARENT.

Ecological: NEST TREE IS A SMALL, TWIN COASTAL REDWOOD FOUND NORTH OF THE CANAL NORTH OF THE ROAD. SURROUNDING FORAGING HABITAT CONSISTS OF TOMATOES TO THE NORTH AND ALFALFA TO THE SOUTH.

General: NEST MONITORED 20 MAY-13 JUL 2000; 2 FLEDGED. NEST MONITORED, 9 APR-2 AUG; ADULT ON NEST, 26 MAY, BUT ABANDONED BY 14 JUN 2001. NEST SITE NACTIVE 2002, 2004, AND 2005.

Owner/Manager: PVT

Occurrence No. 839 Map Index: 43588 EO Index: 43588 Dates Last Seen
 Occ Rank: Fair Element: 2005-07-20
 Origin: Natural/Native occurrence Site: 2005-07-20
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-10-03

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.41881° / -121.90296° Township: 07N
 UTM: Zone-10 N4252854 E595768 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 30 Qtr: SE
 Elevation: 80 ft Symbol Type: POINT Meridian: M

Location: 0.1 MILE NORTH OF MIDWAY ROAD, BETWEEN DEMELLO LANE AND GENTILE LANE, 6 MILES NE OF VACAVILLE.

Location Detail: NEST TREE IS LOCATED WITHIN AN EAST/WEST ROW OF EUCALYPTUS; 2000 & 2002 NEST WAS IN THE TALLEST TREE IN THE ROW (FURTHEST TREE TO THE WEST).

Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY A MIX OF PASTURES, CORRALS, AND LOW-DENSITY SEMI-URBAN HOUSING.

General: NEST MONITORED 28 JUN-19 JUL 2000; 3 FLEDGED. ACTIVE NEST OBSERVED ON 11 APR; ADULT PERCHED NEAR NEST ON 5 JUL 2001. NEST MONITORED 2 APR-24 JUL 2002; 1 FLEDGED. NO ACTIVITY OBSERVED IN 2004. NEST MONITORED 30 APR-20 JUL 2005; 3 FLEDGED.

Owner/Manager: PVT

Buteo swainsoni		Element Code: ABNKC19070	
Swainson's hawk	Status	NDDB Element Ranks	Other Lists
Federal: None		Global: G5	CDFG Status:
State: Threatened		State: S2	
Habitat Associations			
General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH			
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.			

Occurrence No. 840	Map Index: 43589	EO Index: 43589	Dates Last Seen
Occ Rank: Poor			Element: 2005-09-09
Origin: Natural/Native occurrence			Site: 2005-09-09
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-09-13

Quad Summary: Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.40242° / -121.90579°	Township: 06N
UTM: Zone-10 N4251032 E595542	Range: 01E
Radius: 80 meters	Section: 06
Elevation: 70 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: AT THE INTERSECTION OF WEBER ROAD & BYRNES ROAD, 4.5 MILES NE OF VACAVILLE.
Location Detail: 2001 NEST TREE UNKNOWN; POSSIBLE NESTS PRESENT IN BOTH A EUCALYPTUS & A CALIFORNIA PEPPER. IN 2002, NEST TREE WAS A BLACK WALNUT, WITH THE NEST AT THE 95% HEIGHT OF THE TREE.
Ecological: 2002 & 2005 NEST TREE WAS A BLACK WALNUT. SITE SURROUNDED BY CULTIVATED LAND TO THE WEST, PASTURE TO THE EAST, & RUDERAL TO THE NORTH & SOUTH.
General: NESTING ACTIVITY OBSERVED, 8 MAY-5 JUL 2000; NO YOUNG OBSERVED. UNOCCUPIED IN 2001. NEST MONITORED, 25 APR-29 JUL 2002; NEST-BUILDING ON 25 APR 2002. NO ACTIVITY OBSERVED IN 2004. NEST MONITORED 2 MAY-9 SEP 2005; 1 FLEDGED
Owner/Manager: PVT?

Occurrence No. 841	Map Index: 43590	EO Index: 43590	Dates Last Seen
Occ Rank: Fair			Element: 2005-06-02
Origin: Natural/Native occurrence			Site: 2005-08-22
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-02

Quad Summary: Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.39556° / -121.89709°	Township: 06N
UTM: Zone-10 N4250280 E596311	Range: 01E
Radius: 80 meters	Section: 06
Elevation: 70 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: WEST SIDE OF LEWIS ROAD, 0.5 MILE SOUTH OF WEBER ROAD, 5.5 MILES NE OF VACAVILLE.
Location Detail: NEST TREE WAS LOCATED IN THE NE CORNER OF THE FARMSTEAD; NEST WAS AT THE 75% HEIGHT, TREE HEIGHT ESTIMATED AT 27 METERS.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY ALFALFA TO THE NORTH, RUDERAL TO THE EAST, AND CULTIVATED LAND TO THE SOUTH.
General: NEST SITE OCCUPIED BY SWHA IN 2000-2001; NO YOUNG OBSERVED. NEST SITE UNOCCUPIED 2002-2004. NEST MONITORED 2 MAY-22 AUG 2005; INCUBATION OBSERVED ON 30 JUN 2005, BUT NO CHICKS DETECTED.

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Owner/Manager: PVT

Occurrence No. 842 **Map Index:** 43591 **EO Index:** 43591 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2004-08-12
Origin: Natural/Native occurrence **Site:** 2005-08-14
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-15

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.39736° / -121.90708° **Township:** 06N
UTM: Zone-10 N4250470 E595436 **Range:** 01E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 06 **Qtr:** NW
Elevation: 75 ft **Symbol Type:** POINT **Meridian:** M

Location: WEST SIDE OF BYRNES ROAD, 0.2 MILE NORTH OF KILKENNY ROAD, 5 MILES NE OF VACAVILLE
Location Detail: NEST TREE IS THE EASTERNMOST EUCALYPTUS, WITH NEST AT 90-95% HEIGHT, LOCATED JUST SW OF THE 2000 NEST TREE.
Ecological: NEST TREE IS A EUCALYPTUS WITHIN A LARGE GROVE OF TREES; SURROUNDED BY PASTURE TO THE SOUTH AND EAST, AND WEEDS TO THE EAST ACROSS THE ROAD.
General: 1 FLEDGED IN 2000. ACTIVE, BUT UNSUCCESSFUL, IN 2001. 1 FLEDGED IN 2002 AND 2004. NEST SITE MONITORED 12 MAR-14 AUG 2005; UNOCCUPIED.

Owner/Manager: PVT

Occurrence No. 843 **Map Index:** 43592 **EO Index:** 43592 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2002-07-24
Origin: Natural/Native occurrence **Site:** 2005-08-12
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-15

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.49887° / -121.89230° **Township:** 08N
UTM: Zone-10 N4261749 E596591 **Range:** 01E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 32 **Qtr:** XX
Elevation: 100 ft **Symbol Type:** POINT **Meridian:** M

Location: NORTH OF THE EAST END OF GARNETT LANE, 0.6 MILE NORTH OF SIEVERS ROAD, 5 MILES NW OF DIXON
Location Detail: 2000-2002 NEST TREE WAS LOCATED IN A FARMSTEAD, AT THE NORTH END OF THE ROAD, JUST WEST OF THE DRIVEWAY. NEST WAS LOCATED AT THE 80% HEIGHT OF THE NEST TREE.
Ecological: NEST TREE WAS A SLENDER LOCUST (SOUTHWESTERNMOST TREE IN A GROUP); SURROUNDED BY CULTIVATED LAND IN ALL DIRECTIONS. AREA NEAR THE NEST TREE IS USED FOR STORAGE AND MAINTENANCE OF FARM EQUIPMENT; THIS ACTIVITY IS ACCEPTED BY SWHA.
General: 3 FLEDGED IN 2000. 2 FLEDGED IN 2001. 1 FLEDGED IN 2002. BOTH RTHA AND SWHA OBSERVED AT THIS SITE IN 2004; 0 FLEDGED. NEST SITE MONITORED 31 MAR-12 AUG 2005; ADULT SEEN, BUT NO YOUNG FLEDGED. POSSIBLE NEST NORTH OF THE USUAL SITE IN 2005.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 844 **Map Index:** 43593 **EO Index:** 43593 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2004-04-23
Origin: Natural/Native occurrence **Site:** 2004-07-18
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-11-09

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.38395° / -121.82181° **Township:** 06N
UTM: Zone-10 N4249073 E602901 **Range:** 01E
Area: 7.2 acres **Mapping Precision:**SPECIFIC **Section:** 12 **Qtr:** NW
Elevation: 40 ft **Symbol Type:**POLYGON **Meridian:** M

Location: EAST SIDE OF HIGHWAY 113, 0.5 MILE SOUTH OF CASEY ROAD, 3.5 MILES SOUTH OF DIXON
Location Detail:2000 NEST TREE LOCATED ON EAST SHOULDER OF THE ROAD, UNDER POWER LINES, AT 80% HEIGHT. 2001 NEST WAS AT THE 95% HEIGHT OF EASTMOST TREE (NORTH ROW). 2002 NEST WAS IN THE TALLEST LOCUST. IN 2004, ALL TREES SOUTH OF NEST TREE WERE REMOVED.
Ecological: NEST TREE WAS A LOCUST; SURROUNDED BY ALFALFA TO THE NORTH, EAS, AND WEST, AND CULTIVATED LAND TO THE SOUTH.
General: NEST ACTIVE IN 2000; 3 FLEDGED. NEST ACTIVE IN 2001; NO YOUNG OBSERVED. NEST ACTIVE IN 2002; 2 FLEDGED. NEST ACTIVE IN 2004; INCUBATING IN MAR-APR (OUTCOME UNKNOWN). NEST ACTIVE IN 2005; INCUBATION OBSERVED, POSSIBLE MISSED FLEDGLING.

Owner/Manager: PVT

Occurrence No. 845 **Map Index:** 43594 **EO Index:** 43594 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2001-08-02
Origin: Natural/Native occurrence **Site:** 2005-08-05
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-11-09

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.43251° / -121.87162° **Township:** 07N
UTM: Zone-10 N4254407 E598485 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 21 **Qtr:** SW
Elevation: 70 ft **Symbol Type:**POINT **Meridian:** M

Location: MCCUNE CREEK, 0.2 MILE SOUTH OF I-80, 2 MILES SW OF DIXON.
Location Detail:THE BEST VIEW OF THIS SITE IS FROM THE SOUTH SHOULDER OF I-80, BUT THIS IS FORBIDDEN BY CHP WITHOUT A PERMIT. 2000 NEST TREE WAS TO THE NORTH OF THE 2001 NEST TREE.
Ecological: NEST TREE IS AN ISOLATED RIPARIAN WILLOW; SURROUNDING FORAGING HABITAT INCLUDES ALFALFA TO THE NW AND ROW CROPS TO THE NE, SE, AND SW.
General: NEST ACTIVE IN 2000; 1 YOUNG FLEDGED. NEST ACTIVE IN 2001; 1 FLEDGED. SITE POORLY OBSERVED IN 2002 AND 2004. NEST SITE UNOCCUPIED IN 2005.

Owner/Manager: PVT

Occurrence No. 846 **Map Index:** 43595 **EO Index:** 43595 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2000-06-07
Origin: Natural/Native occurrence **Site:** 2005-08-04
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-11-09

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.41405° / -121.79476° **Township:** 07N
UTM: Zone-10 N4252444 E605220 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 31 **Qtr:** NW
Elevation: 40 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.2 MILE SOUTH OF MIDWAY ROAD, 0.5 MILE EAST OF PEDRICK ROAD, 2 MILES SE OF DIXON
Location Detail:NEST TREE WAS A TALL EUCALYPTUS FOUND CLOSE TO THE HOUSE; 2000 NEST WAS AT THE 85% HEIGHT, NEAR THE CENTER OF THE TREE.
Ecological: NEST TREE WAS A EUCALYPTUS; SURROUNDED BY CULTIVATED LAND TO THE WEST AND PASTURES TO THE EAST.
General: NEST ACTIVE IN 2000; NONE FLEDGED. JUVENILE GANG OF 20-30 SWHA OBSERVED ON 7 JUN 2000. INACTIVE IN 2001, 2002, 2004, AND 2005.
Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 847 **Map Index:** 43599 **EO Index:** 43599 **Dates Last Seen** _____
Occ Rank: None **Element:** 2004-06-18
Origin: Natural/Native occurrence **Site:** 2005-04-18
Presence: Extirpated
Trend: Unknown **Record Last Updated:** 2005-11-09

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.46017° / -121.83891° **Township:** 07N
UTM: Zone-10 N4257512 E601301 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 14 **Qtr:** NW
Elevation: 75 ft **Symbol Type:**POINT **Meridian:** M

Location: NORTH OF NORTH LINCOLN STREET, JUST EAST OF I-80, DIXON
Location Detail: NEST TREE IS LOCATED WITHIN A ROW OF LARGE, OLD BLACK WALNUTS, RUNNING FROM NEAR I-80 TOWARD NORTH LINCOLN.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY WEED FIELDS ON BOTH SIDES OF THE ROAD.
Threat: THREATENED BY DEVELOPMENT.
General: 2 ADS/2 FLEDGLINGS OBSERVED, JUN 1999. NEST ACTIVE IN 2000; 2 FLEDGED. NEST ACTIVE IN 2001; NONE FLEDGED. NEST ACTIVE IN 2002; NONE FLEDGED. NEST ACTIVE IN 2004; NONE FLEDGED. ALL TREES FOUND AT THIS SITE WERE GONE BY 18 APR 2005.

Owner/Manager: PVT

Occurrence No. 848 **Map Index:** 43600 **EO Index:** 43600 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2001-07-19
Origin: Natural/Native occurrence **Site:** 2005-07-07
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-11-09

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.46183° / -121.85852° **Township:** 07N
UTM: Zone-10 N4257675 E599588 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 10 **Qtr:** SW
Elevation: 80 ft **Symbol Type:**POINT **Meridian:** M

Location: JUST NE OF THE INTERSECTION OF SCHROEDER ROAD AND SILVEYVILLE ROAD, 1.5 MILES NW OF DIXON
Location Detail: LANDOWNER TO THE EAST REPORTS THAT BIRDS NESTED AT THIS SITE IN 1998 AND 1999. NEST TREE WAS LOCATED AT THE NORTH EDGE OF A FARMSTEAD WHICH FACES TOWARD SILVEYVILLE ROAD; THE FIRST LARGE TREE EAST OF THE BOUNDARY FENCE.
Ecological: NEST TREE WAS A LARGE BLACK WALNUT; SURROUNDED BY CORN TO THE NORTH AND ORCHARDS TO THE SOUTH, WEST, AND SW. THERE APPEARS TO BE NO NEARBY FORAGING SITE.
General: NEST ACTIVE IN 2000; 3 FLEDGED. NEST ACTIVE IN 2001; 1 FLEDGED. NEST ACTIVE IN 2002; 1 FLEDGED. INACTIVE IN 2002, 2004, AND 2005.

Owner/Manager: PVT

Occurrence No. 849 **Map Index:** 43602 **EO Index:** 43602 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-09-08
Origin: Natural/Native occurrence **Site:** 2005-09-08
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-11-09

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.48985° / -121.86615° **Township:** 08N
UTM: Zone-10 N4260776 E598883 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 33 **Qtr:** NE
Elevation: 88 ft **Symbol Type:**POINT **Meridian:** M

Location: ALONG SIEVERS ROAD, 0.6 MILE WEST OF STEVENSON BRIDGE ROAD, 2.5 MILES NW OF DIXON
Location Detail: 2000 NEST TREE WAS EASTERNMOST TREE ON SOUTH SHOULDER; NEST LOCATED NEAR TREE TOP. 2001 NEST TREE ON NORTH SHOULDER OF SIEVERS RD. 2002 NEST WAS AGAIN ON SOUTH SHOULDER. BY 2004, ALL SOUTH SHOULDER TREES WERE GONE, NEST ON NORTH SHOULDER.
Ecological: NEST TREE WAS A BLACK WALNUT; SURROUNDED BY CULTIVATED LAND IN ALL DIRECTIONS.
Threat: THREATENED BY TREE REMOVAL (BY 2004, ALL SOUTH SHOULDER TREES HAD BEEN REMOVED).
General: NEST ACTIVE IN 2000; 2 FLEDGED. NEST ACTIVE IN 2001; 1 FLEDGED. NEST ACTIVE IN 2002; NO CHICKS SEEN. NEST ACTIVE IN 2004; 2 FLEDGED. NEST ACTIVE IN 2005; 2 FLEDGED.

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Owner/Manager: SOL COUNTY

Occurrence No. 850 **Map Index:** 43603 **EO Index:** 43603 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-07-24
Origin: Natural/Native occurrence **Site:** 2005-07-24
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-11-09

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.40051° / -121.82295° **Township:** 06N
UTM: Zone-10 N4250910 E602778 **Range:** 01E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 02 **Qtr:** NW
Elevation: 45 ft **Symbol Type:** POINT **Meridian:** M

Location: WEST SIDE OF HIGHWAY 113, 1.1 MILES SOUTH OF MIDWAY ROAD, 3 MILES SOUTH OF DIXON
Location Detail: 2000-2002 NEST TREE WAS WITHIN AN EAST-WEST ROW OF PINES ON THE SOUTH EDGE OF A DIRT FIELD ROAD; A BLACK WALNUT WAS USED DURING THE 2000 SEASON. NEW 2004-2005 NEST TREE: 2004 NEST AT 85% HEIGHT AND THE 2005 NEST WAS AT THE 95% HEIGHT.
Ecological: NEST TREE WAS A LONE BLACK WALNUT SOUTH OF THE PINES; SURROUNDED BY ALFALFA TO THE NW AND SW, AND TOMATOES TO THE NE AND SE.
General: NEST ACTIVE IN 2000; 1 FLEDGED. INCUBATION OBSERVED IN 2001; NONE FLEDGED. NEST ACTIVE IN 2002; 1 FLEDGED. INCUBATION OBSERVED IN 2004; OUTCOME UNKNOWN. NEST ACTIVE IN 2005; 2 FLEDGED.

Owner/Manager: CALTRANS

Occurrence No. 851 **Map Index:** 43606 **EO Index:** 43606 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-07-16
Origin: Natural/Native occurrence **Site:** 2005-07-16
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-11-09

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.47119° / -121.80329° **Township:** 07N
UTM: Zone-10 N4258775 E604393 **Range:** 02E
Area: 6.6 acres **Mapping Precision:** SPECIFIC **Section:** 07 **Qtr:** SW
Elevation: 55 ft **Symbol Type:** POLYGON **Meridian:** M

Location: EAST SIDE OF PEDRICK ROAD, 0.1 MILE NORTH OF THE RAILROAD TRACK NORTH OF VAUGHN ROAD, 1.5 MILES NE OF DIXON
Location Detail: 2001 NEST TREE IS A LOCUST TREE, AT FARMSTEAD BETWEEN PEDRICK ROAD & RR TRACKS. 2000 & 2002 NEST TREE WAS A LOCUST IN NE PART OF FARMSTEAD; 2000 NEST WAS AT 85% HEIGHT OF NEST TREE. 2004-2005 NEST TREE WAS A BLACK WALNUT BEHIND HOUSE.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY CULTIVATED LAND TO THE NORTH, WEST, AND EAST, AND A FARMSTEAD TO THE SOUTH.
General: NEST ACTIVE IN 2000; 2 FLEDGED. NEST ACTIVE IN 2001; 2 FLEDGED. NEST ACTIVE IN 2002; FLEDGLING MAY HAVE BEEN MISSED. NEST ACTIVE IN 2004; 1 FLEDGED. NEST ACTIVE IN 2005; 1 FLEDGED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 852 **Map Index:** 43612 **EO Index:** 43612 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-24
Origin: Natural/Native occurrence **Site:** 2005-08-24
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-11-09

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.40587° / -121.86064° **Township:** 07N
UTM: Zone-10 N4251463 E599480 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 33 **Qtr:** SE
Elevation: 60 ft **Symbol Type:**POINT **Meridian:** M

Location: BATAVIA ROAD, AT THE RAILROAD TRACK CROSSING, 2.5 MILES SW OF DIXON
Ecological: NEST TREE WAS A BLUE GUM EUCALYPTUS. SWHA ALSO NESTED IN A BLACK WALNUT ON THE OPPOSITE SIDE OF THE ROAD (EAST) IN 2000. SURROUNDED BY MIXED TREES/ROW CROPS TO NW; MIXED TREES, RUDERAL, AND HOUSING TO NE; CULTIVATED TO SE; RUDERAL TO SW.
General: SWHA OBSERVED DEFENDING LATE IN 1999. NEST ACTIVE IN 2000; 1 FLEDGED. NEST ACTIVE IN 2001; 1 FLEDGED. NEST ACTIVE IN 2002; 1 FLEDGED. NEST ACTIVE 2004; NEST HIDDEN (OUTCOME UNKNOWN). NEST ACTIVE IN 2005 (HIDDEN AGAIN); 2 FLEDGED.

Owner/Manager: PVT

Occurrence No. 853 **Map Index:** 43614 **EO Index:** 43614 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-08-20
Origin: Natural/Native occurrence **Site:** 2005-08-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-11-09

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.44970° / -121.80495° **Township:** 07N
UTM: Zone-10 N4256389 E604279 **Range:** 01E
Area: 6.6 acres **Mapping Precision:**SPECIFIC **Section:** 13 **Qtr:** SE
Elevation: 60 ft **Symbol Type:**POLYGON **Meridian:** M

Location: WEST SIDE OF PEDRICK ROAD, 0.3 MILE NORTH OF DIXON AVENUE EAST, JUST EAST OF DIXON
Location Detail:2000-2001 NEST TREE WAS A BLACK WALNUT LOCATED ALONG THE WEST EDGE OF THE SOUTH GROUNDS OF DIXON VETERINARY CLINIC. 2002 NEST TREE WAS A LOCUST LOCATED JUST SOUTH OF THE PREVIOUS NEST TREE. 2004 NEST TREE WAS A DIFFERENT BLACK WALNUT.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY PASTURE, RUDERAL, AND CULTIVATED LAND TO THE EAST, AND ALFALFA TO THE WEST ACROSS THE ROAD.
General: NEST ACTIVE IN 2000; 2 FLEDGED. NEST ACTIVE IN 2001; 1 FLEDGED. NEST ACTIVE IN 2002; 1 FLEDGED. NEST ACTIVE IN 2004; ADULT SITTING ON NEST, 28 MAY 2004 (OUTCOME UNKNOWN). ADULT SEEN FREQUENTLY IN 2005 (PRESUMED ACTIVE); OUTCOME UNKNOWN.

Owner/Manager: PVT

Occurrence No. 854 **Map Index:** 43617 **EO Index:** 43617 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2002-08-01
Origin: Natural/Native occurrence **Site:** 2005-09-08
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-11-09

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.48934° / -121.87137° **Township:** 07N
UTM: Zone-10 N4260714 E598430 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 04 **Qtr:** NW
Elevation: 90 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF SIEVERS ROAD, 0.9 MILE WEST OF STEVENSON BRIDGE ROAD, 3 MILES NW OF DIXON
Location Detail:2000 NEST TREE WAS THE SECOND TREE WEST OF THE MAILBOX FOR 5914 SIEVERS ROAD; NEST LOCATED AT 85% HEIGHT OF THE TREE, ON THE NE SIDE, DIRECTLY OVER THE SOUTH ROAD SHOULDER. POSSIBLE NEST TREE ON THE SOUTH ROAD SHOULDER IN 2002.
Ecological: FORAGING HABITAT SURROUNDING THE NEST TREE INCLUDES BEANS TO THE WEST, CORN TO THE NORTH ACROSS THE ROAD, AND SUDAN GRASS TO THE EAST.
General: ACTIVE NEST IN 1999; 2 FLEDGED. NEST ACTIVE IN 2000; NEST DISAPPEARED IN JUNE DUE TO WIND. 2001 NEST HIDDEN; BEGGING HEARD ON 24 JUL 2001. NEST ACTIVE IN 2002; NONE FLEDGED. 1 ADULT PRESENT 2004. 2 ADULTS OBSERVED ON 7-8 SEP 2005.

Owner/Manager: SOL COUNTY

Buteo swainsoni		Element Code: ABNKC19070	
Swainson's hawk	Status	NDDB Element Ranks	Other Lists
Federal: None		Global: G5	CDFG Status:
State: Threatened		State: S2	
Habitat Associations			
General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH			
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.			

Occurrence No. 855	Map Index: 43623	EO Index: 43623	Dates Last Seen	
Occ Rank: Fair			Element: 2000-08-20	
Origin: Natural/Native occurrence			Site: 2005-08-03	
Presence: Presumed Extant				
Trend: Unknown			Record Last Updated: 2005-09-15	
Quad Summary: Allendale (3812148/498B)				
County Summary: Solano				
Lat/Long: 38.38022° / -121.90819°			Township: 06N	
UTM: Zone-10 N4248566 E595362			Range: 01E	
Radius: 80 meters		Mapping Precision: SPECIFIC	Section: 07	Qtr: SW
Elevation: 70 ft		Symbol Type: POINT	Meridian: M	
Location: WEST SIDE OF BYRNES ROAD, 1 MILE SOUTH OF KILKENNY ROAD, 5 MILES SW OF DIXON				
Location Detail: NEST TREE IS LOCATED ABOUT 0.1 MILE WEST OF THE ROAD, AT THE REAR OF THE FARMSTEAD. ALTHOUGH NEST WAS NOT VISIBLE, ADULT BEHAVIOR SUGGESTED THAT IT WAS BURIED IN FOLIAGE AT THE 80% HEIGHT OF THE NEST TREE.				
Ecological: NEST TREE IS A TALL EUCALYPTUS; SURROUNDED BY MIXED AGRICULTURE.				
General: 1 FLEDGED IN 2000. SITE WAS POORLY OBSERVED IN 2001; UNOCCUPIED IN 2002, 2004, AND 2005.				
Owner/Manager: PVT				

Occurrence No. 859	Map Index: 43628	EO Index: 43628	Dates Last Seen	
Occ Rank: None			Element: 2000-71-6	
Origin: Natural/Native occurrence			Site: 2001-04-03	
Presence: Extirpated				
Trend: Decreasing			Record Last Updated: 2002-03-07	
Quad Summary: Elmira (3812138/498C)				
County Summary: Solano				
Lat/Long: 38.31838° / -121.90173°			Township: 06N	
UTM: Zone-10 N4241711 E596007			Range: 01E	
Radius: 80 meters		Mapping Precision: SPECIFIC	Section: 31	Qtr: SE
Elevation: 60 ft		Symbol Type: POINT	Meridian: M	
Location: 0.2 MILE NORTH OF HAY ROAD, 0.25 MILE WEST OF LEWIS ROAD, 2 MILES SOUTH OF ELMIRA				
Location Detail: NEST TREE IS THE LARGEST AND THE SOUTHERNMOST OF 3 CLOSELY-SPACED EUCALYPTUS TREES; NEST IS AT THE 75% HEIGHT OF THE NEST TREE.				
Ecological: NEST TREE IS A EUCALYPTUS; SURROUNDED BY SUGAR BEETS TO THE EAST AND ALFALFA TO THE WEST.				
General: NESTING ACTIVITY OBSERVED FROM 10 MAY-16 JUL 2000; 1 CHICK OBSERVED ON 22 JUN 2000, 1 YOUNG FLEDGED. TREES (INCLUDING NEST TREE) WERE REMOVED SHORTLY BEFORE 3 APR 2001; SITE EXTIRPATED.				
Owner/Manager: PVT				

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

_____ **Status** _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

_____ **Habitat Associations** _____

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 860 **Map Index:** 43629 **EO Index:** 43629 **Dates Last Seen**
Occ Rank: Fair **Element:** 2000-05-09
Origin: Natural/Native occurrence **Site:** 2005-07-24
Presence: Presumed Extant
Trend: Decreasing **Record Last Updated:** 2007-06-26

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.34717° / -121.91056° **Township:** 06N
UTM: Zone-10 N4244897 E595198 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 19 **Qtr:** SW
Elevation: 70 ft **Symbol Type:**POINT **Meridian:** M

Location: ALONG WATER STREET, BETWEEN A STREET AND B STREET, ELMIRA.
Location Detail: TALLEST TREE WITHIN AN EAST-WEST ROW OF EUCALYPTUS; NEST WAS LOCATED ON THE NORTH SIDE, ABOUT 10 FEET FROM THE TOP.
Ecological: NEST TREE WAS A BLUE GUM EUCALYPTUS; SURROUNDED BY ALFALFA TO THE SOUTH AND THE TOWN OF ELMIRA TO THE NORTH.
General: NESTING ACTIVITY 28 APR-09 MAY 2000; NO RAPTORS OBSERVED DURING 9 LATER VISITS, NO YOUNG FLEDGED. NEST SITE MONITORED 29 MAR-2 APR 2001; BIRDS SEEN, BUT NO NEST FOUND. INACTIVE IN 2002, 2004 (POORLY OBSERVED), AND 2005.
Owner/Manager: PVT?

Occurrence No. 861 **Map Index:** 43630 **EO Index:** 43630 **Dates Last Seen**
Occ Rank: Good **Element:** 2004-07-24
Origin: Natural/Native occurrence **Site:** 2005-08-22
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-26

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.37415° / -121.89884° **Township:** 06N
UTM: Zone-10 N4247903 E596186 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 07 **Qtr:** SE
Elevation: 65 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF LEWIS ROAD, 0.6 MILE NORTH OF THE RAILROAD CROSSING NORTH OF HAWKINS ROAD, 1.5 MILES NORTH OF ELMIRA
Location Detail: NEST TREE WAS A LARGE BLUE GUM EUCALYPTUS, LOCATED WEST OF LEWIS ROAD AND SW OF THE FARMSTEAD ON THE WEST SIDE OF THE ROAD.
Ecological: NEST TREE WAS A EUCALYPTUS; A WEEDY SUGAR BEET FIELD (LATER CORN) LIES BETWEEN THE NEST TREE AND THE ROAD. WHEAT FIELDS LIE TO THE NW AND SW, AND A FARMSTEAD TO THE NE.
General: NEST MONITORED 4 APR-19 JUL 2000; 2 FLEDGED. NEST MONITORED 22 MAR-23 JUL 2001; 1 FLEDGED. NO NEST FOUND IN 2002. NEST MONITORED 21 MAR-24 JUL 2004; 1 FLEDGED. NEST-BUILDING, BUT NO CHICKS DETECTED IN 2005.
Owner/Manager: PVT

Occurrence No. 863 **Map Index:** 43643 **EO Index:** 43643 **Dates Last Seen**
Occ Rank: Fair **Element:** 2000-07-23
Origin: Natural/Native occurrence **Site:** 2004-06-18
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-03-15

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.43571° / -121.82296° **Township:** 07N
UTM: Zone-10 N4254816 E602728 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 23 **Qtr:** SE
Elevation: 55 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF HIGHWAY 113, JUST SOUTH OF SILVEYVILLE CEMETERY, SOUTH EDGE OF DIXON
Location Detail: NEST IS LOCATED HALFWAY UP A LARGE EUCALYPTUS, ON THE WEST SIDE. 3-4 ADDITIONAL FLEDGLINGS FROM ADJACENT NESTS ALSO OBSERVED IN THE AREA DURING 2000.
Ecological: NEST TREE IS A EUCALYPTUS; SURROUNDED BY A CEMETERY TO THE NW, FUTURE CEMETERY TO THE WEST, A FARMSTEAD TO THE SOUTH, AND HIGH-DENSITY RESIDENTIAL TO THE EAST, ACROSS THE ROAD.
General: NEST MONITORED 12 JUL-23 JUL 2000; 2 FLEDGED. UNOCCUPIED, 2001-2004.
Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 865	Map Index: 43646	EO Index: 43646	Dates Last Seen
Occ Rank: Good			Element: 2000-08-02
Origin: Natural/Native occurrence			Site: 2005-08-16
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-06-27

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.35331° / -121.82297°	Township: 06N
UTM: Zone-10 N4245672 E602844	Range: 01E
Radius: 80 meters	Section: 24
Elevation: 35 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: EAST SIDE OF HIGHWAY 113, 0.3 MILE NORTH OF BINGHAMPTON ROAD, 6 MILES SOUTH OF DIXON.
Location Detail: NEST NOT VISIBLE IN 2000, BUT BEHAVIOR OF ADULTS INDICATED IT WAS LOCATED WITHIN A ROW OF OSAGE ORANGES, ON THE EAST SIDE, AWAY FROM TRAFFIC.
Ecological: NEST TREE WAS AN OSAGE ORANGE; SURROUNDED BY ROW CROPS TO THE NE AND SE, AND ALFALFA ACROSS THE ROADS TO THE NW AND SW.
General: NEST MONITORED 4 MAR-2 AUG 2000; 1 FLEDGED. INACTIVE IN 2001, 2002, AND 2004. PRESUMABLY INACTIVE IN 2005; 1 ADULT SIGHTED ON A SINGLE VISIT ON 16 AUG 2005.

Owner/Manager: PVT

Occurrence No. 866	Map Index: 43647	EO Index: 43647	Dates Last Seen
Occ Rank: Fair			Element: 2005-08-14
Origin: Natural/Native occurrence			Site: 2005-08-14
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-06-27

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.29220° / -121.82086°	Township: 05N
UTM: Zone-10 N4238893 E603114	Range: 01E
Radius: 80 meters	Section: 12
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: 0.2 MILE EAST OF HIGHWAY 113, 0.3 MILE NORTH OF THE EAST/WEST STRETCH OF HIGHWAY 113, 14.5 MILES SOUTH OF DIXON.
Location Detail: NEST TREE (INFERRED BY ADULT BEHAVIOR) IS THE TALLEST EUCALYPTUS NORTH OF THE HOUSE OF THE FARMSTEAD LOCATED EAST OF THE ROAD.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY DRY PASTURE. NEST NOT VISIBLE IN EITHER 2000 OR 2001; NESTING INFERRED FROM ADULT BEHAVIOR.
General: NESTING ACTIVITY OBSERVED 21 APR-20 AUG 2000; 1 FLEDGED. NEST SITE MONITORED 5 APR-23 AUG 2001; NEST NOT VISIBLE, BUT ADULT BEHAVIOR INDICATES A NEST IS PRESENT. INACTIVE IN 2002 AND 2004. PRESUMABLY ACTIVE IN 2005; 1 FLEDGLING SIGHTED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 867	Map Index: 43650	EO Index: 43650	Dates Last Seen
Occ Rank: Fair			Element: 2005-07-16
Origin: Natural/Native occurrence			Site: 2005-07-16
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-06-28

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.34234° / -121.80216°	Township: 06N
UTM: Zone-10 N4244479 E604678	Range: 02E
Radius: 80 meters	Section: 30
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: 0.2 MILE EAST OF PEDRICK ROAD, 0.6 MILE SOUTH OF BINGHAMPTON ROAD, 6.5 MILES SOUTH OF DIXON.
Location Detail: NEST IS LOCATED AT THE 90% HEIGHT OF A SHORTER, LIVE-TOPPED EUCALYPTUS, BETWEEN TWO TALLER, DEAD-TOPPED EUCALYPTUS TREES, LOCATED IN THE SOUTH PART OF THE FARMSTEAD.
Ecological: NEST TREE IS A EUCALYPTUS; SURROUNDED BY CORN TO THE NORTH, PASTURE TO THE SOUTH AND ACROSS THE ROAD TO THE SW, AND ALFALFA TO THE WEST ACROSS THE ROAD.
General: NEST MONITORED 21 APR-07 JUN 2000; 0 FLEDGED. NEST MONITORED 5 APR-16 AUG 2001; 0 FLEDGED. NEST MONITORED 12 MAY-5 AUG 2002; 0 FLEDGED. NEST MONITORED 19 MAR-28 JUL 2004; 1 FLEDGED. NEST MONITORED 24 APR-16 JUL 2005; 3 FLEDGED.

Owner/Manager: PVT

Occurrence No. 900	Map Index: 43749	EO Index: 43749	Dates Last Seen
Occ Rank: Fair			Element: 2005-08-11
Origin: Natural/Native occurrence			Site: 2005-08-21
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-06-28

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.35297° / -121.80484°	Township: 06N
UTM: Zone-10 N4245655 E604428	Range: 01E
Radius: 80 meters	Section: 24
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: WEST SIDE OF PEDRICK ROAD, 0.1 MILE NORTH OF BINGHAMPTON ROAD, EAST OF ELMIRA.
Location Detail: NEST TREE IS LOCATED SOUTH OF THE FARMSTEAD AT 6188 PEDRICK ROAD; FARMSTEAD IS ON THE EAST SIDE AND NEST TREE IS ON THE WEST SIDE OF ROAD. NEST IS NEAR THE TOP OF THE TALLEST OSAGE ORANGE.
Ecological: NEST TREE IS THE TALLEST OSAGE ORANGE WITHIN A DENSE ROW OF OSAGE ORANGE TREES; SURROUNDED BY PASTURE AND GAS WELLS TO THE WEST, ROW CROPS ACROSS THE ROAD TO THE EAST, AND A FARMSTEAD TO THE NE.
General: NEST MONITORED 7 APR-13 AUG 2000; 1 FLEDGED. NEST MONITORED 5 APR-23 JUL 2001; 1 FLEDGED. NEST MONITORED 12 MAY-29 JUL 2002; 1 FLEDGED. INACTIVE IN 2004. NEST MONITORED 13 APR-21 AUG 2005; INCUBATING 2 JUN, POSSIBLE FLEDGLING 11 AUG 2005.

Owner/Manager: PVT?

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 901 **Map Index:** 43755 **EO Index:** 43755 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2000-08-02
Origin: Natural/Native occurrence **Site:** 2005-07-11
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-28

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.35033° / -121.81510° **Township:** 06N
UTM: Zone-10 N4245350 E603535 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 24 **Qtr:** SW
Elevation: 30 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF BINGHAMPTON ROAD, 0.4 MILE WEST OF PEDRICK ROAD, EAST OF ELMIRA.
Location Detail: NEST TREE IS A LARGE, VERY RAGGED EUCALYPTUS LOCATED AT THE SOUTH EDGE OF THE FARMSTEAD; NEST IS LOCATED AT THE 70% HEIGHT OF THE NEST TREE, JUST EAST OF TALLEST EUCALYPTUS.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY PASTURE TO THE NW, SUDAN GRASS, THEN ALFALFA, TO THE SE, SUDAN GRASS TO THE SW, AND RUDERAL, RESIDENTIAL, PASTURE, AND SUDAN GRASS TO THE NE.
General: NEST MONITORED 7 APR-2 AUG 2000; 1 FLEDGED. OCCUPIED BY A RED-TAILED HAWK PAIR IN 2001. INACTIVE IN 2002, 2004, AND 2005.
Owner/Manager: PVT

Occurrence No. 902 **Map Index:** 43757 **EO Index:** 43757 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2002-07-07
Origin: Natural/Native occurrence **Site:** 2005-07-30
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-28

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.37315° / -121.84397° **Township:** 06N
UTM: Zone-10 N4247850 E600981 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 15 **Qtr:** SE
Elevation: 45 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF PITT SCHOOL ROAD, 1 MILE NORTH OF HAWKINS ROAD, EAST OF ELMIRA.
Location Detail: 2000 NEST TREE WAS THE 8TH TREE WEST FROM THE ROAD, NEST WAS ON THE SOUTH SIDE OF THE TREE. 2001 NEST WAS 135 METERS WEST, IN THE WESTERNMOST RAGGED BLACK WALNUT.
Ecological: NEST TREE WAS A BLACK WALNUT WITHIN A ROW OF BLACK WALNUTS; SURROUNDED BY ALFALFA TO THE EAST ACROSS THE ROAD, SUDAN GRASS TO THE SOUTH, AND PASTURE TO THE NORTH CONTAINING EMUS AND CATTLE.
General: NEST MONITORED 3 APR-24 JUL 2000; 1 FLEDGED. NEST MONITORED 4 APR-3 AUG 2001; 0 FLEDGED. NEST MONITORED 13 MAY-7 JUL 2002; INCUBATING ON 8 JUN 2002, BUT NONE FLEDGED. INACTIVE IN 2004 AND 2005.
Owner/Manager: PVT

Occurrence No. 903 **Map Index:** 43758 **EO Index:** 43758 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-11
Origin: Natural/Native occurrence **Site:** 2005-08-11
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-28

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.35141° / -121.81717° **Township:** 06N
UTM: Zone-10 N4245468 E603353 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 24 **Qtr:** NW
Elevation: 35 ft **Symbol Type:**POINT **Meridian:** M

Location: NORTH SIDE OF BINGHAMPTON ROAD, 0.3 MILE EAST OF HIGHWAY 113, EAST OF ELMIRA.
Location Detail: NEST TREE IS LOCATED IN A ROW OF OSAGE ORANGE TREES, THE TALLEST IN THE ROW.
Ecological: NEST TREE IS AN OSAGE ORANGE; SURROUNDED BY PASTURE TO THE NW, NE, AND SE, AND ALFALFA TO THE SW.
General: NEST BUILDING OBSERVED ON 3 APR 2000; NO SWHA OBSERVED DURING 14 ADDITIONAL VISITS. NEST SITE MONITORED 13 MAR-3 AUG 2001; OCCASIONAL ADULT SIGHTED, BUT NO NEST. INACTIVE IN 2002 AND 2004. NEST MONITORED 1 APR-11 AUG 2005; 1 FLEDGED.
Owner/Manager: PVT?

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 904	Map Index: 43759	EO Index: 43759	Dates Last Seen
Occ Rank: Fair			Element: 2005-08-21
Origin: Natural/Native occurrence			Site: 2005-08-21
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-06-28

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.35770° / -121.83248°	Township: 06N
UTM: Zone-10 N4246148 E602006	Range: 01E
Area: 6.0 acres	Section: 23
Elevation: 40 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: SOUTH SIDE OF HAWKINS ROAD, 0.5 MILE EAST OF PITT SCHOOL ROAD, EAST OF ELMIRA.

Location Detail: NEST TREE IS LOCATED AT THE FARMSTEAD AT 6554 HAWKINS ROAD, WITHIN A NORTH-SOUTH ROW OF BLACK WALNUTS. NEST IS LOCATED NEAR THE TOP OF THE FIRST LEAFY BLACK WALNUT NORTH OF THE DEAD TREE. AN ALTERNATE NEST TREE (PINE) IS FOUND AT THIS SITE.

Ecological: NEST TREE WAS A PINE; SURROUNDED BY CULTIVATED LAND TO THE EAST, TREES AND PASTURES TO THE WEST, AND A FARMSTEAD.

General: NEST MONITORED 18 MAY-3 AUG 2000; NEST PRESENT, BUT NO SWHA OBSERVED AFTER 17 JUL. NEST SITE MONITORED 5 APR-24 AUG 2001; 1 ADULT OBSERVED (NO NEST). INACTIVE IN 2002 AND 2004. NEST MONITORED 3 MAY-21 AUG 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No. 905	Map Index: 43760	EO Index: 43760	Dates Last Seen
Occ Rank: Good			Element: 2005-07-20
Origin: Natural/Native occurrence			Site: 2005-07-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-06-28

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.36968° / -121.84156°	Township: 06N
UTM: Zone-10 N4247468 E601196	Range: 01E
Radius: 80 meters	Section: 15
Elevation: 45 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: EAST SIDE OF PITT SCHOOL ROAD, 0.7 MILE NORTH OF HAWKINS ROAD, EAST OF ELMIRA.

Location Detail: 2000-2002 NEST TREE WAS LOCATED AT THE FARMSTEAD AT 6444 MCKIM-MURDOCK, IN THE NORTHERNMOST EUCALYPTUS ON THE WEST ROAD SHOULDER. 2004 NEST WAS AT THE 85% HEIGHT OF THE REMAINING NORTH BLUE GUM ON THE WEST ROAD SHOULDER.

Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY SUDAN GRASS TO THE WEST AND ALFALFA TO THE NORTH, EAST, AND SOUTH.

General: NEST MONITORED 5 JUL-2 AUG 2000; 1 FLEDGED. NEST MONITORED 4 APR-23 AUG 2001; 2 FLEDGED. NEST MONITORED 13 MAY-29 JUL 2002; 1 FLEDGED. NEST MONITORED 20 MAR-18 JUL 2004; 2 FLEDGED. NEST MONITORED 18 APR-20 JUL 2005; 2 FLEDGED.

Owner/Manager: PVT

Occurrence No. 906	Map Index: 43763	EO Index: 43763	Dates Last Seen
Occ Rank: Fair			Element: 2004-05-24
Origin: Natural/Native occurrence			Site: 2005-08-03
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-11-09

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.41821° / -121.85047°	Township: 07N
UTM: Zone-10 N4252843 E600351	Range: 01E
Radius: 80 meters	Section: 27
Elevation: 60 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: NORTH SIDE OF PORTER STREET, 0.1 MILE NE OF MIDWAY ROAD, 2 MILES SSW OF DIXON

Location Detail: NEST IS LOCATED WITHIN A SMALL GROVE OF DECIDUOUS TREES. NEST-BUILDING OBSERVED IN THE LARGEST TREE IN THE GROVE, A RELATIVELY SMALL BLACK WALNUT.

Ecological: NEST TREE WAS A BLACK WALNUT; SITE IS SURROUNDED BY SORGHUM TO NW, CORN/ RUDERAL TO NE, HOUSES/ RUDERAL TO SW, AND RUDERAL AND ROW CROPS TO SE .

General: NEST ACTIVE IN 2000; 1 FLEDGED. NEST ACTIVE IN 2001; ABANDONED. NEST ACTIVE IN 2002; 0 FLEDGED. NEST ACTIVE IN 2004; 0 FLEDGED. INACTIVE IN 2005; RTHA PRESENT IN JUL-AUG 2005.

Owner/Manager: PVT

Buteo swainsoni		Element Code: ABNKC19070	
Swainson's hawk	Status	NDDB Element Ranks	Other Lists
Federal: None		Global: G5	CDFG Status:
State: Threatened		State: S2	
Habitat Associations			
General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH			
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.			

Occurrence No. 907	Map Index: 43765	EO Index: 43765	Dates Last Seen	
Occ Rank: Fair			Element: 2002-07-07	Site: 2005-08-12
Origin: Natural/Native occurrence			Record Last Updated: 2007-11-20	
Presence: Presumed Extant				
Trend: Unknown				
Quad Summary: Dixon (3812147/498A)				
County Summary: Solano				
Lat/Long: 38.42470° / -121.84386°			Township: 07N	
UTM: Zone-10 N4253571 E600919			Range: 01E	
Radius: 80 meters		Mapping Precision: SPECIFIC	Section: 27	Qtr: NE
Elevation: 65 ft		Symbol Type: POINT	Meridian: M	
Location: SOUTH SIDE OF PORTER STREET, 0.25 MILE SW OF PITT SCHOOL ROAD, 1.5 MILES SSW OF DIXON.				
Location Detail: NEST TREE WAS A SOLITARY, LARGE EUCALYPTUS GROWING ON THE ROAD SHOULDER, ACROSS FROM 7461 PORTER ROAD. 2000 NEST WAS AT THE 80% HEIGHT OF THE NEST TREE.				
Ecological: NEST TREE IS A EUCALYPTUS; SURROUNDED BY WEEDS, SHRUBS, AND TREES ADJACENT TO THE RAILROAD TRACKS, A FIRST-YEAR WALNUT ORCHARD TO THE NORTH, AND AN ESTABLISHED WALNUT ORCHARD TO THE SOUTH.				
Threat: THREATENED BY NEST PROXIMITY TO THE RAILROAD TRACKS.				
General: NEST ACTIVE IN 2000; 2 FLEDGED. NEST ACTIVE IN 2001; CHICKS VOCALIZING, 12 JUN 2001. NEST ACTIVE IN 2002; 2 FLEDGED. INADEQUATE OBSERVATION IN 2004. INACTIVE IN 2005.				
Owner/Manager: UNKNOWN				

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 908	Map Index: 43769	EO Index: 43769	Dates Last Seen
Occ Rank: Good			Element: 2005-07-17
Origin: Natural/Native occurrence			Site: 2005-07-17
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-11-09

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.38379° / -121.84559°	Township: 06N
UTM: Zone-10 N4249030 E600825	Range: 01E
Area: 9.2 acres	Section: 10
Elevation: 55 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: 0.25 MILE WEST OF PITT SCHOOL ROAD, 1.7 MILES NORTH OF HAWKINS ROAD, 4.3 MILES SSW OF DIXON
Location Detail: 2000 NEST TREE WAS A EUCALYPTUS, THE TALLEST AND SOUTHERNMOST EAST OF THE HOUSE, FOUND AT THE FARMSTEAD AT 6713 PITT SCHOOL ROAD, CONTAINING A VARIETY OF TREES AT AN OLD, WOODEN TWO-STORY HOUSE. 2002 NEST AT THE 90% HEIGHT OF THE MAIN MASS.
Ecological: NEST TREE WAS A BLUE GUM EUCALYPTUS ON A FARMSTEAD; SURROUNDED IN ALL DIRECTIONS BY CULTIVATED LAND.
General: NEST ACTIVE IN 2000; ADULTS NEST-BUILDING. NEST ACTIVE IN 2001; 2 CHICKS OBSERVED, 1 FLEDGED. NEST ACTIVE IN 2002; 1 FLEDGED. NEST ACTIVE IN 2004; INCUBATING ON 28 MAY (OUTCOME UNKNOWN). NEST ACTIVE IN 2005; 2 FLEDGED.

Owner/Manager: PVT

Occurrence No. 909	Map Index: 43772	EO Index: 43772	Dates Last Seen
Occ Rank: Fair			Element: 2005-09-08
Origin: Natural/Native occurrence			Site: 2005-09-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-11-09

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.45061° / -121.85178°	Township: 07N
UTM: Zone-10 N4256437 E600191	Range: 01E
Radius: 80 meters	Section: 15
Elevation: 40 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: EVANS ROAD, 0.3 MILE NORTH OF WEST DIXON ROAD, IN THE SW CORNER OF THE CITY OF DIXON
Location Detail: SITE CONSISTS OF A U-SHAPED ROW OF EUCALYPTUS, LOCATED AT 595 EVANS ROAD. 2000 NEST TREE WAS A EUCALYPTUS; NEST AT THE 80% HEIGHT. 2001 NEST WAS AT THE 85% HEIGHT OF THE TALLEST EUCALYPTUS ON THE SOUTH BORDER OF THE TREED AREA.
Ecological: NEST TREE IS A EUCALYPTUS; FIELD TO THE SOUTH, ON THE WEST SIDE OF EVANS, IS UNDEVELOPED. ALL OF THE AREA EAST OF EVANS IS HIGH-DENSITY RESIDENTIAL.
Threat: THREATENED BY ENCROACHING URBANIZATION; TREES REMAIN, BUT ALL THE LAND TO THE SOUTH OF THIS SITE IS DEVELOPED.
General: SWHA HAVE REPORTEDLY NESTED HERE FOR MANY YEARS. NEST MONITORED 26 MAR-29 JUN 2000; NO RAPTORS OBSERVED. NEST ACTIVE IN 2001; 1 FLEDGED. NO NEST FOUND, 2002. 1 ADULT OBSERVED NEAR 2001 NEST IN 2004. NEST ACTIVE IN 2005; 2 FLEDGED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status

NDDB Element Ranks

Other Lists

Federal: None

Global: G5

CDFG Status:

State: Threatened

State: S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 910

Map Index: 43777

EO Index: 43777

Dates Last Seen

Occ Rank: Excellent

Element: 2005-08-11

Origin: Natural/Native occurrence

Site: 2005-08-11

Presence: Presumed Extant

Trend: Unknown

Record Last Updated: 2005-11-09

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.48944° / -121.82245°

Township: 08N

UTM: Zone-10 N4260779 E602696

Range: 01E

Radius: 80 meters

Mapping Precision: SPECIFIC

Section: 35

Qtr: SE

Elevation: 70 ft

Symbol Type: POINT

Meridian: M

Location: WEST SIDE OF CURREY ROAD, JUST NORTH OF SIEVERS ROAD, 2.5 MILES NORTH OF DIXON

Location Detail: 2000 NEST TREE WAS A LARGE EUCALYPTUS WHOSE TRUNK WAS OFF-WHITE; NEST WAS LOCATED NEAR THE TOP, OVER THE ROAD. 2002 NEST TREE WAS THE THIRD BLUE GUM EUCALYPTUS (NEST TREE DISEASED) NORTH OF SIEVERS ROAD, ON THE WEST SHOULDER.

Ecological: NEST TREE IS A EUCALYPTUS; SURROUNDED BY ALFALFA TO THE SW AND CULTIVATED LAND ELSEWHERE.

General: NEST ACTIVE IN 2000; 1 FLEDGED. NEST ACTIVE IN 2001; 1 FLEDGED. NEST ACTIVE IN 2002; NO CHICKS OBSERVED. NEST ACTIVE IN 2004; 2 FLEDGED. NEST ACTIVE IN 2005; 1 FLEDGED.

Owner/Manager: PVT?

Occurrence No. 911

Map Index: 43778

EO Index: 43778

Dates Last Seen

Occ Rank: Good

Element: 2005-08-14

Origin: Natural/Native occurrence

Site: 2005-08-14

Presence: Presumed Extant

Trend: Unknown

Record Last Updated: 2005-11-09

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.41687° / -121.86318°

Township: 07N

UTM: Zone-10 N4252681 E599243

Range: 01E

Area: 10.2 acres

Mapping Precision: SPECIFIC

Section: 33

Qtr: NE

Elevation: 65 ft

Symbol Type: POLYGON

Meridian: M

Location: SOUTH SIDE OF MIDWAY ROAD, 0.25 MILE WEST OF BATAVIA ROAD, 2 MILES SW OF DIXON

Location Detail: 2000 NEST TREE WITHIN A ROW OF OSAGE ORANGE TREES, ALONG THE SOUTH SHOULDER OF MIDWAY RD; NEST LOCATED AT 90% HEIGHT OF TALLEST TREE. 2001 NEST TREE LOCATED WEST OF 2000-02 NEST TREES. 2004 NEST WAS AT 95% HEIGHT, SOUTH SIDE, NEAR CENTER

Ecological: NEST TREE WAS AN OSAGE ORANGE; SURROUNDED BY CULTIVATED LAND TO THE SOUTH AND ACROSS THE ROAD TO THE NORTH.

Threat: THREATENED BY PROPOSAL TO REMOVE ENTIRE ROW OF TREES (TRAFFIC VISIBILITY), OR LAND DEVELOPMENT INTO A NATIONAL CEMETERY.

General: NEST ACTIVE IN 2000; 1 FLEDGED. NEST ACTIVE IN 2001; ADULTS DEFENDING NEST TREE, BUT NO YOUNG OBSERVED. NEST ACTIVE IN 2002; 1 FLEDGED. NEST ACTIVE IN 2004; 1 FLEDGED. NEST ACTIVE IN 2005; 1 FLEDGED.

Owner/Manager: PVT?

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None State: Threatened	Global: G5 State: S2	CDFG Status:

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 912	Map Index: 43779	EO Index: 43779	Dates Last Seen
Occ Rank: Good			Element: 2000-06-05
Origin: Natural/Native occurrence			Site: 2004-06-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-03-17

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.44517° / -121.84577°	Township: 07N
UTM: Zone-10 N4255840 E600724	Range: 01E
Radius: 80 meters	Section: 22
Elevation: 70 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: SOUTH SIDE OF WEST A STREET, ON THE WEST EDGE OF DIXON

Location Detail: SITE IS LOCATED AT FARMSTEAD #1875; NEST TREE IS LOCATED IN THE SE CORNER OF THE FARMSTEAD NEAR A SMALL MOBILE HOME.

Ecological: NEST TREE IS A LARGE, DENSE BLACK WALNUT; NEST NOT VISIBLE, BUT THE BEHAVIOR OF THE ADULTS IMPLIED NEST-BUILDING. SURROUNDED BY CULTIVATED LAND TO THE SOUTH AND HIGH-DENSITY RESIDENTIAL LAND TO THE NORTH OF A STREET.

General: NEST MONITORED 28 APR-5 JUN 2000; NO RAPTORS OBSERVED DURING 11 LATER VISITS THROUGH 3 AUG 2000, AND NO YOUNG FLEDGED. UNOCCUPIED IN 2001. NO SWHA OBSERVED 12 MAY-18 JUN 2004, ALTHOUGH SITE WAS INADEQUATELY OBSERVED.

Owner/Manager: PVT

Occurrence No. 913	Map Index: 43781	EO Index: 43781	Dates Last Seen
Occ Rank: Fair			Element: 2000-05-21
Origin: Natural/Native occurrence			Site: 2001-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-03-07

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.42596° / -121.86377°	Township: 07N
UTM: Zone-10 N4253689 E599179	Range: 01E
Radius: 80 meters	Section: 28
Elevation: 65 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: 0.2 MILES WEST OF BATAVIA ROAD, 1.2 MILES SOUTH OF I-80, 2 MILES SW OF DIXON.

Location Detail: NEST TREE IS LOCATED ON ALONZO FARMS, 4781 BATAVIA ROAD. NEST TREE IS NEAR THE SE CORNER OF THE SOUTHERNMOST HOUSE OF 3 FOUND ON THE PROPERTY.

Ecological: SITE IS SURROUNDED BY CULTIVATED LAND.

General: NEST-BUILDING ACTIVITY OBSERVED BETWEEN 8 MAY-21 MAY 2000 (4 VISITS); UNKNOWN IF ANY YOUNG FLEDGED. LANDOWNER IS HOSTILE TOWARD OBSERVERS, EVEN WHEN VIEWING IS FROM A PUBLIC ROAD! UNOCCUPIED IN 2001.

Owner/Manager: PVT

Occurrence No. 914	Map Index: 43782	EO Index: 43782	Dates Last Seen
Occ Rank: Excellent			Element: 2005-09-07
Origin: Natural/Native occurrence			Site: 2005-09-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-09-15

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.43448° / -121.89225°	Township: 07N
UTM: Zone-10 N4254604 E596682	Range: 01E
Radius: 80 meters	Section: 20
Elevation: 80 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: WEST SIDE OF NUNES ROAD, 0.8 MILE SOUTH OF DIXON AVENUE WEST, 4 MILES WEST OF DIXON

Location Detail: 2000 NEST TREE WAS A LARGE BLACK OAK, ON THE SOUTH SHOULDER; NEST WAS LOCATED 10 FEET BELOW THE TOP. 2001-2002 NEST TREE WAS A BLUE GUM EUCALYPTUS; NEST LOCATED AT 2/3 HT. 2005 NEST WAS AT THE 80% HEIGHT OF THE SOUTH TREE ON THE WEST SIDE.

Ecological: NEST TREE IS LOCATED WITHIN A GROVE OF EUCALYPTUS AND SMALL DECIDUOUS TREES. IN 2001, SURROUNDED BY CORN TO THE NW, ROW CROPS TO THE SW AND NE, AND PASTURE TO THE SE. IN 2002, NEW ALFALFA FOUND TO THE WEST AND NW, AND PASTURE TO THE EAST.

Threat: POSSIBLE THREAT DUE TO LAND USE CHANGE, SINCE THE PROPERTY WAS FOR SALE IN 2005.

General: 1 FLEDGED IN 2000, 2001, AND 2002. NEST SITE MONITORED 25 MAR-16 JUL 2004; ADULT PRESENT, BUT NEVER SEEN ON A NEST. NEST

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

MONITORED 31 MAR-7 SEP 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No. 915 **Map Index:** 43786 **EO Index:** 43786 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2005-07-08
Origin: Natural/Native occurrence **Site:** 2005-07-08
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-14

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.41681° / -121.88289° **Township:** 07N
UTM: Zone-10 N4252653 E597522 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 32 **Qtr:** NE
Elevation: 70 ft **Symbol Type:**POINT **Meridian:** M

Location: MIDWAY ROAD, 0.4 MILE EAST OF THE POINT WHERE MIDWAY ROAD CURVES SOUTH TOWARD LEWIS ROAD, 4 MILES WEST OF DIXON.

Location Detail:NEST TREE BASE IS ON THE SOUTH SHOULDER OF THE ROAD; NEST LIES DIRECTLY OVER THE EASTBOUND LANE.

Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY CORN TO THE SE AND SW, A YOUNG WALNUT ORCHARD TO THE NE AND NW.

General: NEST MONITORED 10 MAY-10 JUL 2000; 1 FLEDGED. NEST MONITORED 4 APR-15 AUG 2001; 1 FLEDGED. NEST MONITORED 13 APR-18 JUL 2002; 2 FLEDGED. NEST MONITORED 7 MAR-22 JUL 2004; 1 FLEDGED. NEST MONITORED 3 MAY-8 JUL 2005; 2 FLEDGED.

Owner/Manager: PVT?

Occurrence No. 927 **Map Index:** 44021 **EO Index:** 44021 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-08-26
Origin: Natural/Native occurrence **Site:** 2005-08-26
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-17

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.41587° / -121.72237° **Township:** 07N
UTM: Zone-10 N4252731 E611538 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 35 **Qtr:** NW
Elevation: 30 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF MIDWAY ROAD, 0.1 MILE WEST OF BULKLEY ROAD, 10 MILES ESE OF DIXON.

Location Detail:RESSEGUIE'S SAXON 3. NEST TREE IS THE LARGEST WALNUT IN A ROW OF WALNUTS, ON THE SOUTH SIDE OF MIDWAY ROAD, JUST EAST OF A POWER POLE.

Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY ALFALFA TO THE NE, NW, AND SW, AND CULTIVATED LAND TO THE SE.

General: 2 ADULTS OBSERVED NESTING ON 28 APR 2000. POSSIBLE NEST IN 2002 IN A LOCUST ON THE WEST SHOULDER, JUST SOUTH OF MIDWAY. NEST MONITORED 12 APR-10 AUG 2004; 2 YOUNG FLEDGED. NEST MONITORED 20 MAR-26 AUG 2005; 2 FLEDGED.

Owner/Manager: SOL COUNTY

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 945 **Map Index:** 45955 **EO Index:** 45955 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2002-07-18
Origin: Natural/Native occurrence **Site:** 2005-08-14
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-11-20

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.37966° / -121.88070° **Township:** 06N
UTM: Zone-10 N4248533 E597764 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 08 **Qtr:** SE
Elevation: 60 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.15 MILE WEST OF FOX ROAD, 0.4 MILE SOUTH OF SPRR TRACK, 5 MILES SW OF DIXON.
Location Detail: NEST TREE IS A SINGLE, LARGE (85') EUCALYPTUS IN THE YARD OF A FARMSTEAD AT 6645 FOX ROAD; NEST IS LOCATED AT THE 85% HEIGHT.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY PASTURE TO THE NE, CORN TO THE SE, ALFALFA TO THE NW, AND CORN AND ALFALFA TO THE SW.
General: NEST ACTIVE IN 2000; ADULTS SEEN BRINGING PREY ITEMS TO NEST. NEST ACTIVE IN 2001; 1 FLEDGED. NEST ACTIVE IN 2002; 1 FLEDGED. NEST SITE MONITORED IN 2004; INACTIVE. NEST SITE MONITORED 3 MAY-14 AUG 2005; ADULTS OBSERVED, BUT NO NEST.

Owner/Manager: PVT

Occurrence No. 946 **Map Index:** 45956 **EO Index:** 45956 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-07-22
Origin: Natural/Native occurrence **Site:** 2005-07-22
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-14

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.37716° / -121.89213° **Township:** 06N
UTM: Zone-10 N4248244 E596768 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 08 **Qtr:** SW
Elevation: 65 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.25 MILE EAST OF LEWIS ROAD, 6 MILES SW OF DIXON.
Location Detail: 2000-2004 NEST TREE WAS WITHIN THE CENTRAL PART OF A ROW OF OSAGE ORANGES, WHICH RUNS FROM THE FARM BUILDINGS NEARLY TO THE SOUTH EDGE OF THE PROPERTY. 2005 NEST TREE WAS THE SOUTHERNMOST TREE IN THE ROW.
Ecological: NEST TREE IS AN OSAGE ORANGE, ALTHOUGH WHICH OF SEVERAL NESTS WAS THE ACTIVE ONE COULD NOT BE DETERMINED. SUCCESSFUL NEST FOUND AT THE NORTH END OF THE SAME ROW OF OSAGE ORANGES.
General: NEST MONITORED 3 APR-22 AUG 2001; 1 FLEDGED. NEST MONITORED 13 APR-24 JUL 2002; 1 FLEDGED. NEST MONITORED 3 MAY-5 AUG 2004; 1 FLEDGED. NEST MONITORED 18 APR-22 JUL 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No. 947 **Map Index:** 45958 **EO Index:** 45958 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2005-08-28
Origin: Natural/Native occurrence **Site:** 2005-08-28
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-18

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.39844° / -121.87931° **Township:** 06N
UTM: Zone-10 N4250619 E597860 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 05 **Qtr:** NE
Elevation: 65 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF FOX ROAD, 0.2 MILE SOUTH OF WEBER ROAD, 4.5 MILES SW OF DIXON.
Location Detail: 2001 NEST TREE IS LOCATED ALONG THE NORTH SIDE OF A FARMSTEAD FOUND AT 6975 FOX ROAD. 2005 NEST TREE WAS THE WESTERNMOST TREE.
Ecological: NEST TREE WAS A BLUE GUM EUCALYPTUS; SURROUNDED TO THE NW AND SE BY THE FARMSTEAD AND ROW CROPS, TO THE NE BY ROW CROPS, AND TO THE SW BY PASTURE.
General: NEST MONITORED 4 MAY-10 AUG 2001; 0 YOUNG FLEDGED. NO ACTIVITY OBSERVED IN 2002. NEST MONITORED 18 APR-29 JUL 2004; 2 CHICKS OBSERVED, BUT ONLY 1 FLEDGLING DETECTED. NEST MONITORED 1 APR-28 AUG 2005; INCUBATION, BUT NO YOUNG DETECTED.

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations _____
General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Owner/Manager: PVT

Occurrence No. 948 **Map Index:** 45959 **EO Index:** 45959 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2001-08-15
Origin: Natural/Native occurrence **Site:** 2005-07-22
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-19

Quad Summary: Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.38685° / -121.90035° **Township:** 06N
UTM: Zone-10 N4249310 E596038 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 07 **Qtr:** NE
Elevation: 70 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.1 MILE SOUTH OF SID CANAL AND 0.2 MILE WEST OF LEWIS ROAD, 6 MILES SW OF DIXON
Location Detail: NEST WAS LOCATED AT THE 90% HEIGHT OF THE LARGEST TREE (A 14-METER BLACK WALNUT), JUST WEST OF THE HOUSE, AT 6751 LEWIS ROAD.
Ecological: NEST TREE IS A LARGE BLACK WALNUT SURROUNDED BY MANY SMALLER TREES; SURROUNDED BY ALFALFA TO THE WEST, EAST, AND SOUTH OF THE FARMSTEAD AND NORTH TO THE CANAL, WITH CORN NORTH OF THE CANAL.
General: NEST MONITORED 25 APR-15 AUG 2001; 1 FLEDGED. INACTIVE IN 2002, 2004, AND 2005.

Owner/Manager: PVT

Occurrence No. 949 **Map Index:** 45961 **EO Index:** 45961 **Dates Last Seen** _____
Occ Rank: Poor **Element:** 2001-06-19
Origin: Natural/Native occurrence **Site:** 2005-06-25
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-20

Quad Summary: Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.41695° / -121.90580° **Township:** 07N
UTM: Zone-10 N4252645 E595522 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 31 **Qtr:** NE
Elevation: 80 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF MIDWAY ROAD, OPPOSITE THE END OF DE MELLO, 5 MILES SW OF DIXON.
Location Detail: NEST TREE WAS A BLUE GUM (EUCALYPTUS), LOCATED ALONG THE ROAD SHOULDER, ADJACENT TO AN IRRIGATION CANAL.
Ecological: NEST TREE WAS A SOLITARY, RAGGED EUCALYPTUS; SURROUNDED BY ROW CROPS TO THE SE AND SW, PASTURE AND RESIDENTIAL TO THE NE AND NW.
General: NESTING ACTIVITY (BOTH BIRDS DEFENDED NEST TREE) OBSERVED FROM 17-19 JUN 2001; POSSIBLE NEST FOUND, BUT BIRD NEVER SEEN ON NEST. INACTIVE IN 2002, 2004, AND 2005.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 950	Map Index: 45973	EO Index: 45973	Dates Last Seen
Occ Rank: Good			Element: 2002-06-XX
Origin: Natural/Native occurrence			Site: 2005-08-11
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-06-28

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.36424° / -121.80680°	Township: 06N
UTM: Zone-10 N4246903 E604241	Range: 01E
Radius: 80 meters	Section: 13
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: 0.1 MILE WEST OF PEDRICK ROAD AND 0.9 MILE NORTH OF BINGHAMPTON ROAD, 5.5 MILES SOUTH OF DIXON.

Location Detail: SITE WAS OCCUPIED BY GREAT HORNED OWLS IN 2000. 2001 NEST TREE WAS LOCATED ON THE NORTH SIDE OF THE PROPERTY AT 6347 PEDRICK ROAD.

Ecological: NEST TREE WAS THE LARGEST COTTONWOOD NEAR THE SOUTH END OF THE ROW OF TREES, AT THE WEST END OF THE FIELD NORTH OF THE HOUSE. NEST TREE WAS IN A CLUSTER OF COTTONWOODS WHOSE TRUNKS ARE VERY CLOSE.

General: NEST MONITORED 27 APR-18 AUG 2001; NEST NOT VISIBLE AFTER 19 MAY 2001. NEST MONITORED 12 MAY-24 JUL 2002; NEST-BUILDING OBSERVED, 12 MAY, BUT NO CHICKS SEEN. SWHA SIGHTINGS ONLY IN 2004 AND 2005; NO NEST FOUND.

Owner/Manager: PVT

Occurrence No. 951	Map Index: 45979	EO Index: 45979	Dates Last Seen
Occ Rank: Excellent			Element: 2005-08-16
Origin: Natural/Native occurrence			Site: 2005-08-16
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-06-28

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.33705° / -121.85668°	Township: 06N
UTM: Zone-10 N4243831 E599920	Range: 01E
Radius: 80 meters	Section: 27
Elevation: 45 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: NORTH SIDE OF FRY ROAD, 0.2 MILE EAST OF CLARK ROAD, 6 MILES NE OF TRAVIS AIR FORCE BASE.

Location Detail: NEST TREE IS THE EASTERNMOST OF TWO BLUE GUM EUCALYPTUS TREES ON THE NORTH SHOULDER; NEST IS AT 85% HEIGHT OF THE NEST TREE.

Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS (18 METERS TALL); SURROUNDED BY PASTURE AND A EUCALYPTUS GROVE TO THE NW, PASTURE TO THE NE AND SE, AND ALFALFA TO THE SW.

General: 2 ADULTS SEEN PERCHED IN THIS TREE IN 2000, BUT NO NEST FOUND. NEST MONITORED 4 APR-24 AUG 2001; 1 FLEDGED. INACTIVE IN 2002. NEST SITE MONITORED 20 MAR-18 JUN 2004; 2 SWHA SEEN 20 MAR 2004. NEST MONITORED 4 MAY-16 AUG 2005; 2 FLEDGED.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 955 **Map Index:** 46157 **EO Index:** 46157 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-21
Origin: Natural/Native occurrence **Site:** 2005-08-21
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-11-09

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.39487° / -121.83962° **Township:** 06N
UTM: Zone-10 N4250265 E601330 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 02 **Qtr:** SW
Elevation: 50 ft **Symbol Type:**POINT **Meridian:** M

Location: EAST SIDE OF PITT SCHOOL ROAD, 2.5 MILES NORTH OF HAWKINS ROAD, 3.4 MILES SSW OF DIXON
Location Detail: NEST TREE IS THE TALLEST IN A RAGGED ROW OF EUCALYPTUS; A SMALL, BROKEN WINDMILL IS FOUND JUST NORTH OF THE ROW OF TREES. 2004 NEST LOCATED AT THE 90% HEIGHT OF THE SOUTH-LEANING TRUNK OF THE SECOND TREE FROM THE EAST.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY ALFALFA TO THE SW AND SE, AND CULTIVATED ELSEWHERE.
General: NO NEST FOUND IN 2000; HOWEVER, 2 FLEDGED. NEST ACTIVE IN 2001; 2 FLEDGED. INACTIVE IN 2002. NEST ACTIVE IN 2004; INCUBATION OBSERVED, BUT OUTCOME UNKNOWN. NEST ACTIVE IN 2005; INCUBATION OBSERVED, BUT NO CHICK DETECTED.

Owner/Manager: PVT

Occurrence No. 956 **Map Index:** 46160 **EO Index:** 46160 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2005-08-17
Origin: Natural/Native occurrence **Site:** 2005-08-17
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-12-06

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.43683° / -121.82384° **Township:** 07N
UTM: Zone-10 N4254939 E602648 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 23 **Qtr:** SE
Elevation: 60 ft **Symbol Type:**POINT **Meridian:** M

Location: SILVEYVILLE CEMETERY, ON THE WEST SIDE OF HIGHWAY 113, ON THE SOUTH EDGE OF DIXON
Location Detail: NEST IS LOCATED 5 FEET BELOW THE TOP OF THE TALLEST, ROUND-TOPPED PINE IN THE IMMEDIATE AREA; NEST FACES SOUTH. RELATIONSHIP OF THIS NEST SITE AND CNDDDB #863 UNCLEAR.
Ecological: NEST TREE IS A PINE (~34 METERS TALL); SURROUNDED BY URBAN/CEMETERY TO THE SE, CEMETERY/ROW CROP TO THE SW, CEMETERY/URBAN TO THE NE, AND CEMETERY/ROW CROP TO THE NW.
General: NESTING SUSPECTED IN 2000, BUT NO NEST FOUND. NEST MONITORED 5 APR-2 AUG 2001; 1 FLEDGED. NEST MONITORED 7 APR-7 JUL 2002; 2 FLEDGED. NEST MONITORED 23 APR-18 JUL 2004; 1 FLEDGED. NEST MONITORED 1 MAY-17 AUG 2005; OCCUPIED, BUT NONE FLEDGED

Owner/Manager: UNKNOWN

Occurrence No. 957 **Map Index:** 46162 **EO Index:** 46162 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2004-08-10
Origin: Natural/Native occurrence **Site:** 2005-08-04
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-12-06

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.41730° / -121.81964° **Township:** 07N
UTM: Zone-10 N4252776 E603043 **Range:** 01E
Area: 7.6 acres **Mapping Precision:**SPECIFIC **Section:** 25 **Qtr:** SW
Elevation: 50 ft **Symbol Type:**POLYGON **Meridian:** M

Location: NORTH SIDE OF MIDWAY ROAD, 0.15 MILE EAST OF HIGHWAY 113, 1.5 MILES SOUTH OF DIXON
Location Detail: FIRST 2001 NEST DISAPPEARED; FINAL 2001 NEST WAS LOCATED AT THE 80% HEIGHT OF THE SECOND TREE NORTH OF FIRST NEST (AT 6659 MIDWAYROAD). 2002 NESTS BUILT IN TREES NEAR SOUTHERN END OF ROW. 2004 NEST NEAR MIDDLE OF ROW.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY PASTURE TO THE NE, HOUSE/PASTURE TO THE SE, AND PASTURE/INDUSTRIAL TO THE SW AND NW.
General: NEST MONITORED 4 APR-2 AUG 2001; 1 FLEDGED. NEST MONITORED 7 JUN-25 AUG 2002; NEST(S) BUILT, BUT NO YOUNG DETECTED. NEST MONITORED 21 MAR-10 AUG 2004; 1 FLEDGED. NEST MONITORED 1 MAY-4 AUG 2005; ADULT PRESENT, BUT NO NEST OR CHICK SEEN.

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Owner/Manager: PVT

Occurrence No. 958 **Map Index:** 46163 **EO Index:** 46163 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2001-07-21
Origin: Natural/Native occurrence **Site:** 2001-07-21
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2001-10-16

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.39554° / -121.86824° **Township:** 06N
UTM: Zone-10 N4250308 E598830 **Range:** 01E
Radius: 1/10 mile **Mapping Precision:** NON-SPECIFIC **Section:** 04 **Qtr:** NE
Elevation: 55 ft **Symbol Type:** POINT **Meridian:** M

Location: WEBER ROAD EUCALYPTUS GROVE, BETWEEN WEBER AND FOX ROADS, SW OF DIXON

Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS (~32 METERS TALL); SURROUNDED BY ALFALFA/RUDERAL TO THE NE, ROW CROP/RUDERAL TO THE NW, PASTURE TO THE SW, AND UNKNOWN TO THE SE.

General: NESTING ACTIVITIES MONITORED FROM 3 MAY-21 JUL 2001; 1 CHICK OBSERVED ON 18 JUN 2001, 1 FLEDGED.

Owner/Manager: PVT

Occurrence No. 959 **Map Index:** 46164 **EO Index:** 46164 **Dates Last Seen** _____
Occ Rank: Poor **Element:** 2001-08-02
Origin: Natural/Native occurrence **Site:** 2005-06-24
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-12-06

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.44565° / -121.85986° **Township:** 07N
UTM: Zone-10 N4255878 E599493 **Range:** 01E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 21 **Qtr:** NE
Elevation: 75 ft **Symbol Type:** POINT **Meridian:** M

Location: SOUTH SIDE OF WEST DIXON AVENUE, JUST WEST OF I-80, WEST OF DIXON

Location Detail: NEST TREE WAS LOCATED BETWEEN THE STOP SIGN FOR SCHROEDER ROAD AND THE I-80 FREEWAY. NEST WAS SMALL; AT THE 85% HEIGHT OF THE LARGEST BLACK WALNUT.

Ecological: NEST TREE WAS A BLACK WALNUT (~15 METERS IN HEIGHT); SURROUNDED BY ALFALFA TO THE SW, A WALNUT ORCHARD TO THE SW, THE URBAN FRINGE OF DIXON TO THE NE, AND BEANS/FRUIT STAND/RESTAURANT TO THE SE.

General: NEST MONITORED 24 MAY-2 AUG 2001; NEST PRESENT, BUT NO CHICKS SEEN. NEST MONITORED 13 APR-9 JUL 2002; ADULTS OBSERVED, BUT NO NEST FOUND. NEST SITE MONITORED 13 APR-16 JUL 2004; ONLY CROWS SEEN. POORLY OBSERVED IN 2005; ONLY 1 SWHA SIGHTING

Owner/Manager: PVT

Occurrence No. 960 **Map Index:** 46165 **EO Index:** 46165 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-09-08
Origin: Natural/Native occurrence **Site:** 2005-09-08
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-12-07

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.43616° / -121.87322° **Township:** 07N
UTM: Zone-10 N4254811 E598340 **Range:** 01E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 21 **Qtr:** SW
Elevation: 70 ft **Symbol Type:** POINT **Meridian:** M

Location: EAST BANK OF MCCLURE CREEK, JUST NORTH OF THE I-80 CROSSING, 2 MILES SW OF DIXON

Location Detail: 2001 NEST WAS LOCATED AT THE 85% HEIGHT, ON THE EAST SIDE, OF A SMALL WILLOW. 2004-2005 NEST WAS NOT VISIBLE, BUT IT WAS PRESUMED TO BE LOCATED IN A LARGER, DENSELY-FOILIAGED TREE.

Ecological: NEST TREE IS A RAGGED, LONE WILLOW (~16 METERS IN HEIGHT); SURROUNDED BY WHEAT TO THE NE AND NW, ALFALFA TO THE SW, AND ROW CROPS TO THE SE.

General: NEST MONITORED 17 JUN-2 AUG 2001; 1 FLEDGED. NEST SITE MONITORED 5 APR-8 AUG 2004; NEST NOT VISIBLE, BUT 1 YOUNG FLEDGED. NEST SITE MONITORED 30 APR-8 SEP 2005; NEST NOT VISIBLE, BUT 1 YOUNG FLEDGED.

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Owner/Manager: PVT

Occurrence No. 961 **Map Index:** 46171 **EO Index:** 46171 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2004-07-18
Origin: Natural/Native occurrence **Site:** 2005-07-17
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-12-07

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.40920° / -121.85893° **Township:** 07N
UTM: Zone-10 N4251834 E599624 **Range:** 01E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 34 **Qtr:** SW
Elevation: 65 ft **Symbol Type:** POINT **Meridian:** M

Location: EAST SIDE OF BATAVIA ROAD, IN BATAVIA, SW OF DIXON
Location Detail: NEST TREE WAS LOCATED ON THE EAST SIDE OF THE ROAD, NEAR THE NORTH EDGE OF TREES; NEST LOCATED AT THE 80% HEIGHT OF THE NEST TREE.
Ecological: NEST TREE WAS A BLACK WALNUT (~19 METERS IN HEIGHT); SURROUNDED BY BEANS TO THE NE, CORN TO THE NW, AND MIXED TREES/RUDERAL/HOUSES TO THE SE AND SW.
General: NEST MONITORED 18 JUN-2 SEP 2001; 2 CHICKS OBSERVED ON 18 JUN 2001, 1 FLEDGED. NEST MONITORED 13 APR-25 AUG 2002; 1 FLEDGED. NEST MONITORED 8 MAR-18 JUL 2004; INCUBATING ON 19 APR AND 24 MAY, BUT OUTCOME UNKNOWN. UNOCCUPIED IN 2005.

Owner/Manager: PVT

Occurrence No. 962 **Map Index:** 46172 **EO Index:** 46172 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-08-19
Origin: Natural/Native occurrence **Site:** 2005-08-19
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-12-07

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.40480° / -121.80463° **Township:** 07N
UTM: Zone-10 N4251406 E604372 **Range:** 01E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 36 **Qtr:** SE
Elevation: 40 ft **Symbol Type:** POINT **Meridian:** M

Location: WEST SIDE OF PEDRICK ROAD, 0.8 MILE SOUTH OF MIDWAY ROAD, SOUTH OF DIXON
Location Detail: NEST TREE IS LOCATED ON THE WEST BANK OF THE DITCH ALONG THE WEST SIDE OF THE ROAD. NEST IS LOCATED AT 85% HEIGHT, ON THE NW SIDE OF THE TREE. RELATIONSHIP TO EO #390 IS UNCERTAIN.
Ecological: NEST TREE WAS A BLACK WALNUT (~14 METERS IN HEIGHT); SURROUNDED BY ALFALFA TO THE SW AND CULTIVATED IN ALL OTHER DIRECTIONS.
General: NEST MONITORED 21 JUN-18 AUG 2001; BY 24 JUL 2001, NEST FAILED. NEST MONITORED 12 MAY-23 JUL 2002; ADS DEFENDED 2001 NEST TREE, NO NEST FOUND. NEST MONITORED 1 FEB-10 AUG 2004; 2 FLEDGED. NEST MONITORED 1 APR-19 AUG 2005; 1 FLEDGED.

Owner/Manager: SOL COUNTY, PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 963 **Map Index:** 46176 **EO Index:** 46176 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2001-07-22
Origin: Natural/Native occurrence **Site:** 2005-08-01
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-15

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.48942° / -121.88595° **Township:** 07N
UTM: Zone-10 N4260707 E597158 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 05 **Qtr:** NE
Elevation: 95 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF SIEVERS ROAD, 1.8 MILES WEST OF STEVENSON BRIDGE ROAD, 4 MILES NW OF DIXON
Location Detail:2001 NEST TREE WAS THE SECOND BLACK WALNUT EAST OF 5688 SIEVERS ROAD; NEST WAS AT THE 85% HEIGHT OF THE NEST TREE.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY ALFALFA TO THE SOUTH AND CULTIVATED LAND NORTH OF THE CANAL.
General: ADULTS DEFENDED THIS SITE IN 1999, BUT NO NEST FOUND. NEST MONITORED 13 MAR-22 JUL 2001; 1 FLEDGED. NEST SITE UNOCCUPIED IN 2000, 2002, AND 2004. NEST SITE MONITORED 31 MAR-1 AUG 2005; SINGLE ADULT SIGHTING ON 31 MAR, BUT NO YOUNG DETECTED.

Owner/Manager: UNKNOWN

Occurrence No. 964 **Map Index:** 46177 **EO Index:** 46177 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2005-09-09
Origin: Natural/Native occurrence **Site:** 2005-09-09
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-14

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.49617° / -121.89658° **Township:** 08N
UTM: Zone-10 N4261445 E596222 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 31 **Qtr:** SE
Elevation: 100 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF GARNETT LANE, 0.4 MILE NORTH OF SIEVERS ROAD, 5 MILES NW OF DIXON.
Location Detail:2001 NEST TREE WAS WEST OF THE WEST SHOULDER, WITH A LARGE FARMSTEAD TO THE NORTH AND SOUTH; NEST WAS AT THE 90% HEIGHT, ON THE NORTH SIDE. NEW NEST FOUND IN 2005 (LIKELY USED IN 2004).
Ecological: NEST TREE IS A LARGE BLACK WALNUT, LOCATED WITHIN A FARMSTEAD; SURROUNDED BY CULTIVATED LAND.
General: NESTING ACTIVITY MONITORED 30 MAR-2 AUG 2001; MATING BEHAVIOR ON 30 MAR. INACTIVE IN 2002. 1 SWHA OBSERVED ON 24 APR 2004; NESTING POSSIBLE. OLD NEST FOUND IN 2005, AND NEST WAS MONITORED 28 APR-9 SEP 2005; 2 FLEDGED.

Owner/Manager: PVT

Occurrence No. 965 **Map Index:** 46179 **EO Index:** 46179 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2005-08-12
Origin: Natural/Native occurrence **Site:** 2005-08-12
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-14

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.44670° / -121.94070° **Township:** 07N
UTM: Zone-10 N4255911 E592437 **Range:** 01W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 14 **Qtr:** SE
Elevation: 110 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF SWEANY CREEK, JUST EAST OF I-505 AND 0.5 MILE SOUTH OF ALLENDALE ROAD, 6 MILES WEST OF DIXON.
Location Detail:2001 NEST TREE WAS THE TALLEST TREE WEST OF THE ROAD, ALONG SWEANY CREEK, ADJACENT TO A PRIVATE WILDLIFE SANCTUARY; NEST WAS AT THE 90% HEIGHT; THIS TREE WAS DAMAGED BY THE 2001 FIRE.
Ecological: NEST TREE IS A COTTONWOOD. THE WILDLIFE SANCTUARY BURNED, 13 JUN 2001, BUT STOPPED NEAR THE NEST TREE; A SECOND FIRE, BETWEEN 3-20 JUL 2001 DAMAGED THE NEST TREE AND SINGED THE NEST.
General: NEST MONITORED 31 MAR-22 JUL 2001; 2 FLEDGED. INACTIVE IN 2002 AND 2004. NEST MONITORED 29 APR-12 AUG 2005; APPARENT INCUBATION, BUT NO CHICK DETECTED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 966 **Map Index:** 46190 **EO Index:** 46190 **Dates Last Seen** _____
Occ Rank: None **Element:** 2001-03-31
Origin: Natural/Native occurrence **Site:** 2005-07-26
Presence: Possibly Extirpated
Trend: Decreasing **Record Last Updated:** 2007-06-14

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.39649° / -121.92959° **Township:** 06N
UTM: Zone-10 N4250350 E593472 **Range:** 01W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 01 **Qtr:** NW
Elevation: 85 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF MILLS LANE, 0.1 MILE NORTH OF ELLSWORTH ROAD, NE OF VACAVILLE.

Location Detail: NEST TREE IS LOCATED WITHIN A EUCALYPTUS GROVE 149 METERS WEST OF MILLS LANE; NEST IS FOUND NEAR THE TOP OF THE THIRD TALLEST EUCALYPTUS FROM THE SOUTH, ALONG THE EASTERN EDGE.

Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY THE EUCALYPTUS GROVE TO THE WEST, PASTURE/RUDERAL TO THE EAST, AND A RESIDENCE TO THE SOUTH.

General: NEST SITE WAS MONITORED FROM 31 MAR-2 AUG 2001; BIRDS WERE SEEN AT THE NEST ON 31 MAR 2001, BUT THE NEST SUBSEQUENTLY DISAPPEARED. INACTIVE IN 2002, 2004, AND 2005.

Owner/Manager: PVT

Occurrence No. 967 **Map Index:** 46195 **EO Index:** 46195 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2002-05-16
Origin: Natural/Native occurrence **Site:** 2005-07-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-19

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.45014° / -121.89758° **Township:** 07N
UTM: Zone-10 N4256336 E596196 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 18 **Qtr:** SE
Elevation: 85 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF JAHN ROAD, 0.3 MILE NORTH OF DIXON AVENUE WEST, 3.5 MILES WEST OF DIXON.

Location Detail: NEST TREE IS THE LONE EUCALYPTUS AT THE SW CORNER OF THE FARMSTEAD AT 7933 JAHN ROAD; NEST IS LOCATED AT THE 85% HEIGHT AND SLIGHTLY SOUTH OF CENTER. NEW HOUSE AND DRIVEWAY ON SE SIDE OF NEST TREE IN 2002.

Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY PASTURE TO THE SE, A HOUSE TO THE NORTH, AND ALFALFA TO THE WEST.

General: NEST MONITORED 26 MAY-20 JUL 2001; 2 FLEDGED. NEST MONITORED 2 APR-24 JUL 2002; SWHA SITTING ON NEST 16 MAY 2002, BUT NO SIGHTING AFTER THAT. INACTIVE IN 2004. NEST SITE MONITORED 17 APR-20 JUL; ADULTS OBSERVED 17 & 30 APR 2005.

Owner/Manager: PVT

Occurrence No. 968 **Map Index:** 46197 **EO Index:** 46197 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2001-08-01
Origin: Natural/Native occurrence **Site:** 2005-08-22
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-19

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.39195° / -121.92734° **Township:** 06N
UTM: Zone-10 N4249848 E593674 **Range:** 01W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 01 **Qtr:** SW
Elevation: 85 ft **Symbol Type:**POINT **Meridian:** M

Location: SE OF I-80, 0.3 MILE EAST OF LEISURE TOWN ROAD, 6.5 MILES SW OF DIXON.

Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY TREES AND A RESIDENCE TO THE EAST AND RUDERAL IN ALL OTHER DIRECTIONS.

General: NEST MONITORED 26 MAY-1 AUG 2001; 1 FLEDGED. INADEQUATE OBSERVATION IN 2002 AND 2004, BUT PRESUMED INACTIVE. NEST SITE MONITORED 10 JUN-22 AUG; ADULTS OBSERVED 10 JUL, 26 JUL, AND 7 AUG 2005.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 969 **Map Index:** 46198 **EO Index:** 46198 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-06
Origin: Natural/Native occurrence **Site:** 2005-08-06
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-18

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.47507° / -121.91046° **Township:** 07N
UTM: Zone-10 N4259090 E595039 **Range:** 01E
Area: 28.0 acres **Mapping Precision:**SPECIFIC **Section:** 07 **Qtr:** NW
Elevation: 95 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ALONG THE SOUTH EDGE OF THISELL ROAD, EXTENDING 0.5-0.9 MILE EAST OF HALLEY ROAD, 5 MILES NW OF DIXON.
Location Detail: 2001-2002 NEST WAS LOCATED AT THE 85% HEIGHT OF THE TALLEST EUCALYPTUS IN THE IMMEDIATE AREA. THEREAFTER, NESTS HAVE BEEN FOUND IN OTHER TREES ALONG THIS ROW, BUT NEVER MORE THAN ONE PAIR NESTING.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY CULTIVATED LAND TO THE SOUTH AND ALFALFA TO THE NORTH.
General: NEST MONITORED 9 APR-18 AUG 2001; NO FLEDGLINGS OBSERVED. NEST MONITORED 28 APR-24 JUL 2002; NO FLEDGLINGS OBSERVED. BEGGING CALLS HEARD ON 16 JUL 2004, WHICH MAY HAVE BEEN A FLEDGLING. NEST MONITORED 16 APR-6 AUG 2005; 1 FLEDGED.

Owner/Manager: SOL COUNTY, PVT

Occurrence No. 970 **Map Index:** 46200 **EO Index:** 46200 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-14
Origin: Natural/Native occurrence **Site:** 2005-08-14
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-19

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.40806° / -121.91521° **Township:** 07N
UTM: Zone-10 N4251648 E594712 **Range:** 01E
Area: 10.7 acres **Mapping Precision:**SPECIFIC **Section:** 31 **Qtr:** SW
Elevation: 80 ft **Symbol Type:**POLYGON **Meridian:** M

Location: EAST AND WEST SIDES OF MERIDIAN ROAD, 0.5 MILE SOUTH OF MIDWAY ROAD, 5 MILES SW OF DIXON.
Location Detail: RESSEGUIE'S ALLENDALE 49 & 56. 2002 NEST WAS LOCATED AT THE 80% HEIGHT OF THE SOUTHERNMOST EUCALYPTUS, WEST OF MERIDIAN ROAD. 2004-2005 NEST LOCATED EAST OF MERIDIAN ROAD, IN THE TALLEST BLUE GUM EUCALYPTUS IN AN EAST-WEST ROW.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY ALFALFA TO THE NORTH AND RUDERAL TO THE SOUTH AND WEST.
General: NEST MONITORED 14 JUN-20 JUL 2001; 1 CHICK OBSERVED ON 18 JUN 2001. NEST MONITORED 28 APR-24 JUL 2002; 1 FLEDGED. NEST MONITORED 22 MAR-29 JUL 2004; 3 YOUNG FLEDGED. NEST MONITORED 13 MAR-14 AUG 2005; NO CHICK SEEN.

Owner/Manager: PVT

Occurrence No. 971 **Map Index:** 46204 **EO Index:** 46204 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2005-08-02
Origin: Natural/Native occurrence **Site:** 2005-08-02
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-20

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.41525° / -121.91578° **Township:** 07N
UTM: Zone-10 N4252446 E594653 **Range:** 01W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 36 **Qtr:** NE
Elevation: 85 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF HIGHWAY 113, IN THE OLD CEMETERY OPPOSITE BINGHAMPTOM ROAD, 5 MILES NE OF VACAVILLE.
Location Detail: NEST TREE IS THE FIRST LARGE EUCALYPTUS SOUTH OF THE DRIVEWAY LEADING TO 7281 MERIDIAN ROAD; NEST IS AT THE 90% HEIGHT OF THE NEST TREE.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY CULTIVATED LAND TO THE EAST AND LARGE-LOT RESIDENTSIAL TO THE WEST.
General: NEST WAS MONITORED FROM 18 JUN-1 AUG 2001; 1 CHICK OBSERVED ON 20 JUL 2001, 1 FLEDGED. INACTIVE IN 2002 AND 2004 (INADEQUATE OBSERVATION). NEST MONITORED 17 APR-2 AUG 2005; 1 FLEDGED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

----- Status ----- NDDB Element Ranks ----- Other Lists -----
 Federal: None Global: G5
 State: Threatened State: S2 CDFG Status:

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
 Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 976 Map Index: 46286 EO Index: 46286 Dates Last Seen -----
 Occ Rank: Good Element: 2001-06-XX
 Origin: Natural/Native occurrence Site: 2001-06-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2001-10-25

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.37311° / -121.96210° Township: 06N
 UTM: Zone-10 N4247723 E590662 Range: 01W
 Radius: 1/10 mile Mapping PrecisionNON-SPECIFIC Section: 15 Qtr: SE
 Elevation: 105 ft Symbol Type:POINT Meridian: M

Location: PINE TREE CREEK, ADJACENT TO THE NUT TREE/SOLANO COUNTY AIRPORT, VACAVILLE
 Location Detail: NEST TREE IS LOCATED WITHIN A LINE OF EUCALYPTUS TREES BORDERING THE NUT TREE AND PINE TREE CREEK.
 Ecological: NEST TREE IS A EUCALYPTUS; SURROUNDED BY OPEN GRASSLAND/RUDERAL AREAS USED FOR FORAGING.
 Threat: THREATENED BY PROPOSED DEVELOPMENT.

General: THIS PAIR HAS REPORTEDLY NESTED AT THE NUT TREE SINCE 1996. NEST SITE WAS MONITORED FROM MAY-AUG 2000; 1 JUVENILE SUCCESSFULLY FLEDGED IN AUG 2000. PAIR MONITORED FROM MAY-JUNE 200, NO INFORMATION ON NESTING SUCCESS.

Owner/Manager: PVT

Occurrence No. 982 Map Index: 46327 EO Index: 46327 Dates Last Seen -----
 Occ Rank: Excellent Element: 2002-07-24
 Origin: Natural/Native occurrence Site: 2005-08-05
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-06-28

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.35088° / -121.82399° Township: 06N
 UTM: Zone-10 N4245401 E602758 Range: 01E
 Radius: 80 meters Mapping PrecisionSPECIFIC Section: 23 Qtr: SE
 Elevation: 35 ft Symbol Type:POINT Meridian: M

Location: OLD CEMETERY OPPOSITE BINGHAMPTON ROAD, WEST OF HIGHWAY 113, 6 MILES SOUTH OF DIXON.
 Ecological: NEST TREE IS AN ALEPPO PINE; SURROUNDED BY ALFALFA TO THE SE, SW, AND NW, AND ROW CROPS AND OSAGE ORANGES TO THE NE.
 General: SWHA MAY HAVE NESTED AT THIS SITE IN 2000. NEST MONITORED 5 APR-24 AUG 2001; 1 FLEDGED. NEST MONITORED 13 MAY-24 JUL 2002; 1 FLEDGED. NEST SITE MONITORED 23 APR-28 JUL; ADULTS AND POSSIBLE NEST. INACTIVE IN 2005.

Owner/Manager: UNKNOWN

Occurrence No. 984 Map Index: 46385 EO Index: 46385 Dates Last Seen -----
 Occ Rank: Good Element: 2005-07-16
 Origin: Natural/Native occurrence Site: 2005-07-16
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-07-03

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.32965° / -121.80244° Township: 06N
 UTM: Zone-10 N4243070 E604672 Range: 02E
 Radius: 80 meters Mapping PrecisionSPECIFIC Section: 30 Qtr: SW
 Elevation: 25 ft Symbol Type:POINT Meridian: M

Location: NORTH SIDE OF MAINE PRAIRIE ROAD, 0.1 MILE EAST OF PEDRICK ROAD, 8 MILES NE OF TRAVIS FIELD.
 Location Detail: NEST TREE IS A RAGGED RED GUM EUCALYPTUS, ON THE NORTH SIDE OF THE ROAD, PARALLELING THE ENTRANCE DRIVE WEST OF THE HOUSE. NEST IS LOCATED AT THE 80% HEIGHT, ON THE NORTH SIDE OF THE TREE.
 Ecological: NEST TREE IS A RED GUM EUCALYPTUS; SURROUNDED BY PASTURE TO THE SW AND NW, AND PASTURE AND ALFALFA TO THE SE AND NW.
 General: REPORTEDLY NESTED HERE IN PREVIOUS YEARS. NEST MONITORED 28 MAR-27 AUG 2001; 2 CHICKS, 1 FLEDGED. NEST MONITORED 12 MAY-24 JUL 2002; 1 FLEDGED. NEST MONITORED 12 APR-17 AUG 2004; 1 FLEDGED. NEST MONITORED 1 APR-16 JUL 2005; 1 FLEDGED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 985	Map Index: 46386	EO Index: 46386	Dates Last Seen
Occ Rank: Good			Element: 2005-08-16
Origin: Natural/Native occurrence			Site: 2005-08-16
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-03

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.34738° / -121.85984°	Township: 06N
UTM: Zone-10 N4244974 E599630	Range: 01E
Radius: 80 meters	Section: 22
Elevation: 35 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: EAST SIDE OF CLARK ROAD, 0.75 MILE SOUTH OF HAWKINS ROAD AND 0.7 MILE NORTH OF FRY ROAD, 6 MILES NE OF TRAVIS FIELD.
Location Detail: LOCATED WITHIN A DEFUNCT FARMSTEAD ON THE EAST SIDE OF CLARK ROAD; NEST TREE IS THE TALLEST, RAGGED EUCALYPTUS WITHIN A LOOSE GROUP OF EUCALYPTUS TREES NEAR THE BARN.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY SUDAN GRASS TO THE NE AND SE, PASTURE TO THE SW, AND HOUSE AND PASTURE TO THE NW.
General: NEST MONITORED 4 APR-23 JUL 2001; NEST-BUILDING ON 4 APR 2001, BUT ABANDONED SOON AFTER. INACTIVE IN 2002. NEST MONITORED 23 APR-18 JUN 2004; NEST BUILDING, 23 APR, BUT NEST GONE ON 17 JUN 2004. NEST MONITORED 4 MAY-16 AUG 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No. 986	Map Index: 46387	EO Index: 46387	Dates Last Seen
Occ Rank: Good			Element: 2001-04-25
Origin: Natural/Native occurrence			Site: 2005-08-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-03

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.33113° / -121.86921°	Township: 06N
UTM: Zone-10 N4243160 E598833	Range: 01E
Radius: 80 meters	Section: 28
Elevation: 45 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: WEST SIDE OF DALLY ROAD, 0.4 MILE SOUTH OF FRY ROAD, 5 MILES NE OF TRAVIS FIELD.
Location Detail: NEST TREE LOCATED AT A FARMSTEAD AT 5663 FRY ROAD; NEST IS AT THE 80% HEIGHT OF THE NORTHERNMOST EUCALYPTUS.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS (20 METERS TALL); SURROUNDED BY ALFALFA TO THE NE, PASTURE TO THE NW AND SW, AND PASTURE/FARMSTEAD TO THE SW.
General: NEST MONITORED 25 APR-3 AUG 2001; NEST-BUILDING, 25 APR 2001. INACTIVE IN 2002, 2004, AND 2005.

Owner/Manager: PVT

Occurrence No. 987	Map Index: 46388	EO Index: 46388	Dates Last Seen
Occ Rank: Good			Element: 2001-08-03
Origin: Natural/Native occurrence			Site: 2005-08-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-03

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.33510° / -121.81388°	Township: 06N
UTM: Zone-10 N4243661 E603664	Range: 01E
Radius: 80 meters	Section: 25
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: 0.6 MILE NW OF THE INTERSECTION OF MAINE PRAIRIE ROAD AND PEDRICK ROAD, 7.5 MILES NE OF TRAVIS FIELD.
Location Detail: NEST SITE IS LOCATED ON THE JACKSON BROWN FARMSTEAD, BETWEEN HIGHWAY 113 AND PEDRICK ROAD. NEST IS LOCATED AT THE 80% HEIGHT OF THE LARGE, NORTH EUCALYPTUS.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY PASTURE TO THE NE AND SW, ALFALFA TO THE SE, AND PASTURE/ALFALFA TO THE NW.
General: NEST MONITORED 26 APR-3 AUG 2001; NONE FLEDGED. NEST SITE MONITORED 16 MAY-13 JUL 2004; BUTEO FLYING TIGHT LOOPS AS IF NEST-BUILDING ON 16 MAY 2004. INADEQUATELY OBSERVED IN 2005 (NEW LANDOWNER); NO NESTING CONFIRMED.

Owner/Manager: PVT

Buteo swainsoni		Element Code: ABNKC19070	
Swainson's hawk	Status	NDDB Element Ranks	Other Lists
Federal: None		Global: G5	CDFG Status:
State: Threatened		State: S2	
Habitat Associations			
General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH			
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.			

Occurrence No. 988	Map Index: 46389	EO Index: 46389	Dates Last Seen
Occ Rank: None			Element: 2001-05-07
Origin: Natural/Native occurrence			Site: 2005-07-22
Presence: Extirpated			Record Last Updated: 2007-06-26
Trend: Unknown			

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.36949° / -121.87845°	Township: 06N
UTM: Zone-10 N4247407 E597974	Range: 01E
Radius: 80 meters	Section: 17
Elevation: 55 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: WEST SIDE OF FOX ROAD, 0.75 MILE NORTH OF HAWKINS ROAD, 2.2 MILES NE OF ELMIRA.
Location Detail: NEST TREE WAS THE LONE EUCALYPTUS ON THE WEST SIDE OF FOX ROAD, ON THE SOUTH SIDE OF THE CANAL. SITE MOST LIKELY EXTIRPATED AS A SWHA NEST SITE, AS RAVENS HAVE CLAIMED THIS NEST SINCE 2002.
Ecological: NEST TREE WAS A BLUE GUM EUCALYPTUS; SURROUNDED BY CORN TO THE NW AND SW, AND SUDAN GRASS TO THE NE AND SE.
General: NEST MONITORED 29 MAR-2 AUG 2001; 1 IMMATURE SWHA OBSERVED PERCHED NEAR THE TOP OF THE NEST TREE, 7 MAY 2001. RAVENS NESTED AT THIS SITE IN 2002, 2004, AND 2005.

Owner/Manager: PVT

Occurrence No. 989	Map Index: 46390	EO Index: 46390	Dates Last Seen
Occ Rank: Good			Element: 2001-08-20
Origin: Natural/Native occurrence			Site: 2005-08-12
Presence: Presumed Extant			Record Last Updated: 2007-06-26
Trend: Unknown			

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.35065° / -121.89355°	Township: 06N
UTM: Zone-10 N4245301 E596680	Range: 01E
Radius: 80 meters	Section: 20
Elevation: 60 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: SOUTH SIDE OF HOLDENER ROAD, 0.2 MILE EAST OF LEWIS ROAD, 0.7 MILE EAST OF ELMIRA.
Location Detail: NEST TREE WAS LOCATED ON A SPRAWLING FARMSTEAD WITH SCATTERED TREES.
Ecological: NEST TREE WAS A EUCALYPTUS (BLUE GUM); SURROUNDED BY CORN AND ALFALFA TO THE SE, PASTURE AND ALFALFA TO THE NE, HOUSE AND CORN TO THE SW, AND ROW CROPS TO THE NORTH AND NW.
General: NEST MONITORED 3 APR-20 AUG 2001; BIRD ON NEST, 24 MAY 2001, BUT NO CHICKS OBSERVED. NEST SITE MONITORED IN 2002, 2004, AND 2005, BUT ONLY ADULTS WERE OBSERVED (NO NEST OR YOUNG).

Owner/Manager: PVT

Buteo swainsoni		Element Code: ABNKC19070	
Swainson's hawk	Status	NDDB Element Ranks	Other Lists
Federal: None		Global: G5	CDFG Status:
State: Threatened		State: S2	
Habitat Associations			
General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH			
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.			

Occurrence No. 990	Map Index: 46391	EO Index: 46391	Dates Last Seen
Occ Rank: Fair			Element: 2005-07-24
Origin: Natural/Native occurrence			Site: 2005-07-24
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-02

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.34853° / -121.91036°	UTM: Zone-10 N4245048 E595214	Radius: 80 meters	Elevation: 70 ft	Mapping Precision: SPECIFIC	Symbol Type: POINT	Township: 06N	Range: 01E	Section: 19	Qtr: SW	Meridian: M
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Location: ELMIRA ROAD AT A STREET, ELMIRA.
Location Detail: 2000 NEST WAS LOCATED IN A LONE, GIANT EUCALYPTUS; 2001 NEST WAS AT THE 90% HEIGHT OF THE TREE, ON THE SE SIDE, AND THE 2002 NEST WAS AT THE 85% HEIGHT, ON THE SW SIDE.
Ecological: NEST TREE WAS A BLUE GUM EUCALYPTUS; LOCATED WITHIN THE TOWN OF ELMIRA.
General: NEST MONITORED 3 APR-10 AUG 2001; INCUBATION, BUT NO CHICK. NEST MONITORED 13 APR-24 JUL 2002; 1 FLEDGED. RSHA NEST-BUILDING DURING MAY; SWHA PRESENT DURING JUL 2004 (OUTCOME UNKNOWN). NEST MONITORED 17 APR-24 JUL 2005; 2 FLEDGED.
Owner/Manager: UNKNOWN

Occurrence No. 994	Map Index: 47401	EO Index: 47401	Dates Last Seen
Occ Rank: None			Element: 2002-07-18
Origin: Natural/Native occurrence			Site: 2005-07-22
Presence: Possibly Extirpated			
Trend: Decreasing			Record Last Updated: 2007-06-26

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.36875° / -121.89305°	UTM: Zone-10 N4247310 E596699	Radius: 80 meters	Elevation: 60 ft	Mapping Precision: SPECIFIC	Symbol Type: POINT	Township: 06N	Range: 01E	Section: 17	Qtr: NW	Meridian: M
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Location: ALONG THE RAILROAD TRACKS, NE OF LEWIS ROAD, NNE OF ELMIRA.
Location Detail: SWHA PAIR IS USING TWO EUCALYPTUS TREES, BETWEEN THE RAILROAD TRACK AND A DIRT ROAD EAST ALONG A FIELD EDGE.
Ecological: NEST TREE(S) IS A EUCALYPTUS; SURROUNDED BY FIELDS PLANTED IN CORN. NEST NOT VISIBLE. 2 BLUE GUMS (CENTER OF SWHA ACTIVITY) ELIMINATED PRIOR TO 18 APR 2004.
Threat: THREATENED BY TREE REMOVAL (TREES ARE MARKED), PROBABLY DUE TO POWER LINE INTERFERENCE.
General: NEST SITE MONITORED 23 APR-25 AUG 2001; NEST WAS NOT VISIBLE, NO FLEDGLINGS DETECTED. NEST SITE MONITORED 11 MAY-18 JUL 2002; NEST NOT VISIBLE, NO FLEDGLINGS DETECTED. INACTIVE IN 2004 AND 2005.
Owner/Manager:

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

_____ Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G5 CDFG Status:
 State: Threatened State: S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
 Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

UNKNOWN

Occurrence No. 995 Map Index: 47402 EO Index: 47402 Dates Last Seen
 Occ Rank: Good Element: 2001-07-23
 Origin: Natural/Native occurrence Site: 2005-08-03
 Presence: Presumed Extant
 Trend: Decreasing Record Last Updated: 2007-06-26

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.36993° / -121.90528° Township: 06N
 UTM: Zone-10 N4247428 E595629 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 18 Qtr: NE
 Elevation: 70 ft Symbol Type: POINT Meridian: M

Location: EAST SIDE OF BYRNES ROAD, BETWEEN THE TWO FORKS OF ULATIS CREEK, 1.3 MILES NORTH OF ELMIRA
 Location Detail: NEST WAS LOCATED AT THE 80% HEIGHT OF A SMALL ENGLISH WALNUT TREE, IN THE 4TH ROW FROM THE EDGE OF THE ORCHARD.
 Ecological: NEST TREE WAS AN ENGLISH WALNUT; SURROUNDED BY ROW CROPS TO THE NE AND NW AND A FARMSTEAD AND RAGGED WALNUT ORCHARD TO THE SE AND SW.
 General: NEST MONITORED 4 MAY-23 JUL 2001; 2 FLEDGED. INACTIVE IN 2002, 2004, AND 2005.
 Owner/Manager: PVT

Occurrence No. 996 Map Index: 47403 EO Index: 47403 Dates Last Seen
 Occ Rank: Good Element: 2005-07-24
 Origin: Natural/Native occurrence Site: 2005-07-24
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-06-26

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.34707° / -121.90312° Township: 06N
 UTM: Zone-10 N4244893 E595848 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 19 Qtr: SE
 Elevation: 60 ft Symbol Type: POINT Meridian: M

Location: ALONG DALLY MAIN CANAL, 0.15 MILE EAST OF VACA STATION ROAD, JUST NORTH OF THE SEWAGE TREATMENT PLANT, ELMIRA
 Location Detail: NEST WAS LOCATED AT THE 90% HEIGHT OF A NEARLY-DEAD WILLOW, BETWEEN THE CANAL ON THE NORTH AND ALAMO CREEK ON THE SOUTH.
 Ecological: NEST TREE WAS A WILLOW; SURROUNDED BY THE SEWAGE TREATMENT PLANT TO THE SE AND SW, AND SUDAN GRASS TO THE NE AND
 General: NEST MONITORED 7 JUL-23 JUL 2001; 2 FLEDGED. INACTIVE IN 2002. NEST SITE MONITORED 13 MAY-1 AUG 2004; SWHA DEFENDING NEST TREE 15 JUN 2004. NEST SITE MONITORED 17 APR-24 JUL 2005; 1 FLEDGED.
 Owner/Manager: UNKNOWN

Occurrence No. 1024 Map Index: 50759 EO Index: 50759 Dates Last Seen
 Occ Rank: Fair Element: 2005-08-22
 Origin: Natural/Native occurrence Site: 2005-08-22
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-07-10

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.48402° / -121.67717° Township: 07N
 UTM: Zone-10 N4260350 E615375 Range: 03E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 06 Qtr: NE
 Elevation: 25 ft Symbol Type: POINT Meridian: M

Location: WEST SIDE OF ROAD 105, 0.25 MILE SOUTH OF ROAD 36, 5 MILES SE OF DAVIS.
 Location Detail: NEST TREE IS LOCATED IN THE SE CORNER OF A MIGRANT LABOR CAMP. 2001 NEST WAS FOUND AT THE 95% HEIGHT OF THIS SLENDER TREE. 2002 NEST WAS IN A SMALL PINE NEAR THE SOUTH EDGE OF THE CAMP. 2005 NEST TREE WAS IN A BLUE GUM SOUTH OF THE PINE.
 Ecological: NEST TREE WAS A SMALL PINE; SURROUNDED BY ALFALFA TO THE EAST AND SE, WHEAT TO THE SOUTH, AND THE MIGRANT CAMP TO THE NORTH AND WEST.
 General: NEST MONITORED, 8 APR-24 SEP 2001; NEST DISAPPEARED BEFORE 28 MAY 2001. NEST MONITORED 4 APR-17 JUL 2002; 0 FLEDGED. INACTIVE IN 2004 (POORLY OBSERVED). NEST MONITORED 26 FEB-22 AUG 2005; 2 FLEDGED.

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

----- Status ----- NDDB Element Ranks ----- Other Lists -----
 Federal: None Global: G5 CDFG Status:
 State: Threatened State: S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
 Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Owner/Manager: PVT

Occurrence No. 1027 Map Index: 50763 EO Index: 50763 Dates Last Seen -----
 Occ Rank: Good Element: 1999-06-21
 Origin: Natural/Native occurrence Site: 1999-06-21
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2003-03-26

Quad Summary: Rio Vista (3812126/480B)
 County Summary: Solano

Lat/Long: 38.24010° / -121.66566° Township: 05N
 UTM: Zone-10 N4233297 E616771 Range: 03E
 Radius: 80 meters Mapping Precision SPECIFIC Section: 32 Qtr: NE
 Elevation: 1 ft Symbol Type: POINT Meridian: M

Location: SOUTH END OF PROSPECT ISLAND, ALONG MINER SLOUGH, 5 MILES NORTH OF RIO VISTA
 Ecological: NEST TREE IS LOCATED WITHIN A DIMINISHED RIPARIAN AREA, ALONG A LEVEE AND SLOUGH; GOOD FORAGING CROPS NEARBY; SURROUNDED BY AGRICULTURE AND RESTORED WETLANDS.
 General: 2 ADULTS AND 1 CHICK OBSERVED AT THE NEST ON 21 JUN 1999.

Owner/Manager: UNKNOWN

Occurrence No. 1148 Map Index: 51076 EO Index: 51076 Dates Last Seen -----
 Occ Rank: Good Element: 2005-07-16
 Origin: Natural/Native occurrence Site: 2005-07-16
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-09-19

Quad Summary: Liberty Island (3812136/497C)
 County Summary: Solano

Lat/Long: 38.31484° / -121.69817° Township: 06N
 UTM: Zone-10 N4241549 E613808 Range: 02E
 Radius: 80 meters Mapping Precision SPECIFIC Section: 36 Qtr: XX
 Elevation: 10 ft Symbol Type: POINT Meridian: M

Location: NORTH SIDE OF LOOKOUT SLOUGH, 0.25 MILE WEST OF SHAG SLOUGH, 2.5 MILES WEST OF THE SACRAMENTO RIVER DEEP WATER
 Location Detail: 2002/2004 NEST LOCATED AT THE 75% HEIGHT, ON THE NORTH SIDE, OF THE TALLEST TREE ON THE NORTH SIDE OF LOOKOUT SLOUGH. 2005 NEST LOCATED ON THE WEST SIDE OF THE SAME NEST TREE.
 Ecological: NEST TREE IS THE TALLEST COTTONWOOD ON THE NORTH SIDE OF LOOKOUT SLOUGH SURROUNDING FORAGING HABITAT CONSISTS OF PASTURE TO THE NORTH AND SOUTH.
 General: NEST MONITORED 27 APR-25 JUL 2001; 2 FLEDGED. NEST MONITORED 4 APR-23 JUL 2002; 1 FLEDGED. NEST MONITORED 18 MAR-15 AUG 2004; ACTIVE THROUGH 18 MAY, BUT NO SIGHTINGS THEREAFTER. NEST MONITORED 9 MAY-16 JUL 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No. 1149 Map Index: 51077 EO Index: 51077 Dates Last Seen -----
 Occ Rank: Excellent Element: 2005-07-29
 Origin: Natural/Native occurrence Site: 2005-07-29
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-07-10

Quad Summary: Saxon (3812146/497B)
 County Summary: Solano

Lat/Long: 38.49388° / -121.70479° Township: 08N
 UTM: Zone-10 N4261409 E612951 Range: 02E
 Radius: 80 meters Mapping Precision SPECIFIC Section: 36 Qtr: XX
 Elevation: 35 ft Symbol Type: POINT Meridian: M

Location: SOUTH SIDE OF TREMONT ROAD, 0.5 MILE WEST OF MACE BOULEVARD, 4 MILES SE OF DAVIS.
 Location Detail: NEST TREE WAS LOCATED IN THE SW CORNER OF A CHURCHYARD; NEST IS LOCATED AT THE 90% HEIGHT OF THE NEST TREE. NEST WAS NOT VISIBLE FROM THE ROAD.
 Ecological: NEST TREE IS A PINE; SURROUNDING FORAGING HABITAT CONSISTS OF CORN TO THE WEST, ALFALFA TO THE SOUTH AND EAST, AND WHEAT TO THE NORTH ACROSS THE ROAD.
 General: NEST MONITORED 22 MAR-10 JUL 2001; 2 FLEDGED. NEST SITE MONITORED, 4 APR-15 JUL 2002; NO ACTIVE NEST FOUND. ADULTS DEFENDED THE NEST TREE IN 2004, BUT EARLY DISTURBANCE CAUSED ABANDONMENT. NEST MONITORED 1 APR-29 JUL 2005; 2 FLEDGED.

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Owner/Manager: PVT

Occurrence No. 1150	Map Index: 51078	EO Index: 51078	Dates Last Seen
Occ Rank: Good			Element: 2001-04-29
Origin: Natural/Native occurrence			Site: 2005-06-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-10

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.41314° / -121.72177°	Township: 07N
UTM: Zone-10 N4252429 E611594	Range: 02E
Radius: 80 meters	Section: 35 Qtr: NW
Elevation: 30 ft	Meridian: M

Location: WEST SIDE OF BULKLEY ROAD, 0.2 MILE SOUTH OF MIDWAY ROAD, 6 MILES SE OF DIXON.
Location Detail: NEST TREE WAS LOCATED NEAR THE CENTER OF A ROW OF SMALL, DECIDUOUS TREES ALONG A DITCH LEVEE; NEST LOCATED AT THE 80% HEIGHT OF THE NEST TREE.
Ecological: NEST TREE WAS A LOCUST; SURROUNDING FORAGING HABITAT CONSISTS OF CORN TO THE WEST, ALFALFA TO THE EAST, WHEAT TO THE NW, AND SUDAN GRASS TO THE NE.
General: NEST SITE MONITORED BETWEEN 27 MAR-18 AUG 2001; NO RAPTORS SEEN AT THIS SITE AFTER 29 APR 2001. INACTIVE IN 2002, 2004, AND 2005.

Owner/Manager: PVT

Occurrence No. 1151	Map Index: 51080	EO Index: 51080	Dates Last Seen
Occ Rank: Good			Element: 2005-07-16
Origin: Natural/Native occurrence			Site: 2005-07-16
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-09-11

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.49517° / -121.74037°	Township: 08N
UTM: Zone-10 N4261509 E609846	Range: 02E
Radius: 80 meters	Section: 34 Qtr: SE
Elevation: 45 ft	Meridian: M

Location: SOUTH SIDE OF TREMONT ROAD, 0.4 MILE WEST OF EGGERT ROAD, EAST OF DIXON.
Location Detail: RESSEGUIE'S SAXON 5.5. IN 2001, THE FIRST NEST TREE WAS THE LARGER, NORTHERN TREE; FINAL NEST WAS THE SMALLER, SOUTHERN TREE, WITH THE NEST AT THE 75% HEIGHT. 2002 NEST WAS AT THE 85% HEIGHT OF THE NORTHERN TREE.
Ecological: NEST TREE IS A LOCUST; SURROUNDING FORAGING HABITAT CONSISTS OF CULTIVATED LAND IN ALL DIRECTIONS.
General: NEST MONITORED 27 MAR-25 JUL 2001; 3 FLEDGED. NEST MONITORED 15 APR-28 JUL 2002; 1 FLEDGED. INACTIVE IN 2004. NEST MONITORED 23 APR-16 JUL 2005; 2 FLEDGED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1152	Map Index: 51083	EO Index: 51083	Dates Last Seen
Occ Rank: Excellent			Element: 2005-07-16
Origin: Natural/Native occurrence			Site: 2005-07-16
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-16

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.40931° / -121.70899°	Township: 07N
UTM: Zone-10 N4252019 E612716	Range: 02E
Area: 8.1 acres	Section: 36
Elevation: 25 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: 0.1 MILE WEST OF YOLANO ROAD, 6 MILES SE OF DIXON.

Location Detail: 2001 NEST TREE IS THE TALLEST SYCAMORE IN THE EASTERN 1/3 OF THE RIPARIAN STRIP WEST OF YOLANO ROAD; NEST LOCATED AT THE 75% HEIGHT OF THE TREE CENTER. 2002 NEST FOUND IN THE FIRST RIPARIAN TREE WEST OF THE GAP; NEST AT 75% HEIGHT.

Ecological: NEST TREE IS ONE OF TWO SYCAMORES; SURROUNDING FORAGING HABITAT CONSISTS OF A LARGE HAY STORAGE AREA TO THE NORTH AND CORN TO THE SOUTH.

General: NEST MONITORED 8 APR-25 JUL 2001; 3 FLEDGED. NEST MONITORED 4 APR-1 AUG 2002; POSSIBLY 2 MISSED FLEDGLINGS, 23 JUL 2002. NEST MONITORED 7 APR-5 AUG 2004; 2 FLEDGED. NEST MONITORED 22 APR-16 JUL 2005; 2 FLEDGED.

Owner/Manager: PVT

Occurrence No. 1153	Map Index: 51084	EO Index: 51084	Dates Last Seen
Occ Rank: Good			Element: 2005-08-24
Origin: Natural/Native occurrence			Site: 2005-08-24
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-10

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.40128° / -121.69953°	Township: 06N
UTM: Zone-10 N4251140 E613554	Range: 02E
Radius: 80 meters	Section: 01
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: SOUTH SIDE OF KING ROAD, 0.3 MILE WEST OF WEST LEVEE ROAD, 7 MILES SE OF DIXON.

Location Detail: SITE IS LOCATED AT FARMSTEAD #8364; NEST IS AT THE 95% HEIGHT OF THE MAIN TOP OF THE NE WILLOW, IN THE NE PORTION OF THE FARMSTEAD. SITE IS BARELY VISIBLE FROM THE ROAD.

Ecological: NEST TREE IS A WILLOW; SURROUNDING FORAGING HABITAT CONSISTS OF A EXTENSIVE ALFALFA TO THE NORTH OF THE ROAD, PASTURE CLOSE TO THE FARMSTEAD SOUTH OF THE ROAD, AND CORN IN MOST OF THE AREA SOUTH OF THE ROAD.

General: NEST SITE MONITORED 8 APR-10 JUL 2001; 2 FLEDGED. NEST MONITORED 4 APR-28 JUL 2002; 1 FLEDGED. NEST MONITORED 7 APR-28 JUL 2004; 2 FLEDGED. NEST MONITORED 11 APR-24 AUG 2005; 3 FLEDGED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1154	Map Index: 51085	EO Index: 51085	Dates Last Seen
Occ Rank: Good			Element: 2005-08-22
Origin: Natural/Native occurrence			Site: 2005-08-22
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-10

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.42018° / -121.74250°	Township: 07N
UTM: Zone-10 N4253185 E609774	Range: 02E
Radius: 80 meters	Section: 27
Elevation: 35 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: 0.25 MILE NORTH OF MIDWAY ROAD AND 0.35 MILE EAST OF SIKES ROAD, 4 MILES SE OF DIXON.
Location Detail: 2001 NEST WAS LOCATED AT THE 90% HEIGHT, ON THE NORTH SIDE OF A LARGE BLACK WALNUT, JUST NW OF THE #7755 FARMSTEAD HOUSE.
Ecological: NEST TREE IS A LARGE BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTS OF SUDAN GRASS TO THE NW AND EAST, AND ALFALFA TO THE SW.
General: NEST MONITORED BETWEEN 29 APR-3 AUG 2001; 1 FLEDGED. SWHA PRESENT IN APR-MAY 2004, BUT THE ONLY NEST SEEN CONTAINED GHOW CHICKS. NEST MONITORED 23 APR-22 AUG 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No. 1155	Map Index: 51086	EO Index: 51086	Dates Last Seen
Occ Rank: Excellent			Element: 2005-06-19
Origin: Natural/Native occurrence			Site: 2005-06-19
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-12

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.44897° / -121.72236°	Township: 07N
UTM: Zone-10 N4256404 E611488	Range: 02E
Radius: 80 meters	Section: 14
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: WEST SIDE OF BULKLEY ROAD, 0.25 MILE SOUTH OF HACKMAN ROAD, 5 MILES EAST OF DIXON.
Location Detail: 2001 NEST TREE LOCATED AT THE FRONT OF THE #7901 FARMSTEAD HOUSE; NEST FOUND AT THE 85% HEIGHT OF THE NEST TREE. 2002 NEST LOCATED AT 2/3 HEIGHT OF THE LOCUST AT THE NE CORNER OF THE RED BARN.
Ecological: NEST TREE IS A LONE, TALL PINE; SURROUNDING FORAGING HABITAT CONSISTS OF PASTURE TO THE SOUTH, CULTIVATED TO THE EAST AND WEST, AND ALFALFA TO THE NE.
General: NEST MONITORED 29 APR-25 JUL 2001; 2 FLEDGED. NEST MONITORED 4 APR-23 JUL 2002; INCUBATION NOTED ON 3 MAY 2002, BUT NO LATER SIGHTINGS. NEST MONITORED 7 APR-28 JUL 2004; 1 FLEDGED. NEST-BUILDING OBSERVED 19 JUN 2005; NO LATER SIGHTINGS.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1156 **Map Index:** 51087 **EO Index:** 51087 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2002-07-28
Origin: Natural/Native occurrence **Site:** 2005-08-10
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-12

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.48671° / -121.69480° **Township:** 07N
UTM: Zone-10 N4260625 E613833 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 01 **Qtr:** NE
Elevation: 30 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF ROAD 36, IN THE JOG OF ROAD 104, 7 MILES NE OF DIXON.
Location Detail: NEST LOCATED AT 2/3 HEIGHT, ON THE SOUTH SIDE, OF THE LONE TALL PINE, ON THE WEST SIDE OF THE FARMSTEAD.
Ecological: NEST TREE IS A LONE, TALL PINE; SURROUNDING FORAGING HABITAT CONSISTS OF PASTURE TO THE WEST, WITH A FARMSTEAD TO THE SOUTH AND EAST.
General: NEST MONITORED 30 APR-10 AUG 2001; 1 FLEDGED. NEST SITE MONITORED 4 APR-28 JUL 2002; ONE SIGHTING OF BUTEO ON THE NEST, AND A SWHA FLEDGLING OF UNKNOW ORIGIN NEARBY, 5 JUL 2002. INACTIVE IN 2004 AND 2005.

Owner/Manager: PVT

Occurrence No. 1157 **Map Index:** 51088 **EO Index:** 51088 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-08-24
Origin: Natural/Native occurrence **Site:** 2005-08-24
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-16

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.48044° / -121.74991° **Township:** 07N
UTM: Zone-10 N4259863 E609036 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 03 **Qtr:** SE
Elevation: 40 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF SIKES ROAD, 1 MILE SOUTH OF TREMONT ROAD, 4 MILES NE OF DIXON.
Location Detail: 2001-2002 NEST TREE WAS THE SECOND BLACK WALNUT FROM THE NORTH, IN A ROW BETWEEN THE ROAD AND DITCH TO THE WEST; NEST FOUND AT THE 90% HEIGHT, NORTH OF CENTER.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTS OF TOMATOES TO THE WEST AND BARE DIRT (AFTER WHEAT HARVEST) TO THE EAST.
General: NEST MONITORED 29 MAY-3 AUG 2001; 1 FLEDGED. NEST MONITORED 15 APR-5 AUG 2002; INCUBATION OBS 9 MAY 2002, 0 FLEDGED. NEST MONITORED 9 APR-13 JUL 2004; 1 FLEDGED. NEST MONITORED 11 APR-24 AUG 2005; NEST FOUND, SITE DEFENDED, BUT 0 FLEDGED.

Owner/Manager: UNKNOWN

Occurrence No. 1158 **Map Index:** 51090 **EO Index:** 51090 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2004-08-05
Origin: Natural/Native occurrence **Site:** 2005-07-16
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-16

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.40906° / -121.71138° **Township:** 07N
UTM: Zone-10 N4251989 E612508 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 36 **Qtr:** NW
Elevation: 30 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.25 MILE WEST OF YOLANO ROAD, 6 MILES SE OF DIXON.
Location Detail: 2001 NEST TREE WAS NEAR THE UPSTREAM (WEST) END OF THE RIPARIAN STRIP; NEST IS AT THE 85% HEIGHT OF THE NEST TREE, ON THE NORTH SIDE, HANGING OVER THE DIRT FARM ROAD.
Ecological: NEST TREE IS AN ARIZONA ASH; SURROUNDING FORAGING HABITAT CONSISTS OF TOMATOES TO THE NORTH AND CORN TO THE SOUTH.
General: NEST MONITORED 23 JUN-24 SEP 2001; 2 FLEDGED. NEST SITE MONITORED 2 MAY-28 JUL 2002; NO NEST FOUND, BUT 2 SWHA OF UNKNOWN AGE FLUSHED 23 JUL 2002. NEST MONITORED 7 APR-5 AUG 2004; 1 FLEDGED. INACTIVE IN 2005.

Owner/Manager: PVT

Buteo swainsoni		Element Code: ABNKC19070	
Swainson's hawk	Status	NDDB Element Ranks	Other Lists
Federal: None		Global: G5	CDFG Status:
State: Threatened		State: S2	
Habitat Associations			
General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH			
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.			

Occurrence No. 1159	Map Index: 51099	EO Index: 51099	Dates Last Seen
Occ Rank: Excellent			Element: 2005-08-10
Origin: Natural/Native occurrence			Site: 2005-08-10
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-16

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.48380° / -121.72373°	UTM: Zone-10 N4260267 E611314	Radius: 80 meters	Elevation: 35 ft	Mapping Precision: SPECIFIC	Symbol Type: POINT	Township: 07N	Range: 02E	Section: 02	Qtr: NW	Meridian: M
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Location: WEST SIDE OF BULKLEY ROAD, 0.8 MILE SOUTH OF TREMONT ROAD, 6 MILES NE OF DIXON.
Location Detail: 2001-2002 NEST TREE WAS A SMALL PINE BETWEEN TWO PALMS; NEST WAS LOCATED AT THE 90% HEIGHT, ON THE NE SIDE OF THE NEST TREE. 2004-2005 NEST TREE WAS THE PALM JUST SW OF THE PINE USED IN 2001-2002.
Ecological: NEST TREE WAS A PALM (PREVIOUSLY A PINE); SURROUNDING FORAGING HABITAT CONSISTS OF ALFALFA IN ALL DIRECTIONS.
General: NEST MONITORED 11 JUL-3 AUG 2001; 1 FLEDGED. NEST MONITORED 4 APR-15 JUL 2002; 3 FLEDGED. NEST MONITORED 7 APR-10 AUG 2004; 1 FLEDGED. NEST MONITORED 11 APR-10 AUG 2005; 2 FLEDGED.
Owner/Manager: PVT

Occurrence No. 1160	Map Index: 51102	EO Index: 51102	Dates Last Seen
Occ Rank: Good			Element: 2005-08-26
Origin: Natural/Native occurrence			Site: 2005-08-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-16

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.40921° / -121.70650°	UTM: Zone-10 N4252011 E612934	Radius: 80 meters	Elevation: 25 ft	Mapping Precision: SPECIFIC	Symbol Type: POINT	Township: 07N	Range: 02E	Section: 36	Qtr: NW	Meridian: M
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Location: EAST SIDE OF YOLANO ROAD, 6 MILES SE OF DIXON.
Location Detail: 2001 NEST TREE WAS LOCATED OPPOSITE THE END OF THE MAJOR RIPARIAN STRIP; NEST FOUND AT THE 2/3 HEIGHT OF THE NEST TREE, ON THE NE SIDE. 2002 NEST LOCATED AT 3/4 HEIGHT ON THE SE SIDE OF THE NEST TREE.
Ecological: NEST TREE IS A COTTONWOOD; SURROUNDING FORAGING HABITAT CONSISTS OF ALFALFA TO THE SE, CORN TO THE SW, AND TREES, FARMSTEAD, CORPORATION YARD TO THE NW AND NE.
General: NEST MONITORED 25 JUL-18 AUG 2001; 0 FLEDGED. NEST MONITORED 4 APR-15 AUG 2002; APPARENT INCUBATION ON 2 MAY 2002, BUT NONE FLEDGED. INACTIVE IN 2004. NEST MONITORED 22 APR-26 AUG 2005; 1 FLEDGED.
Owner/Manager: PVT

Buteo swainsoni		Element Code: ABNKC19070	
Swainson's hawk	Status	NDDB Element Ranks	Other Lists
Federal: None		Global: G5	CDFG Status:
State: Threatened		State: S2	
Habitat Associations			
General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH			
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.			

Occurrence No. 1161 **Map Index:** 51109 **EO Index:** 51109 **Dates Last Seen**

Occ Rank: Good **Element:** 2005-08-12

Origin: Natural/Native occurrence **Site:** 2005-08-12

Presence: Presumed Extant

Trend: Unknown **Record Last Updated:** 2005-12-07

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.49512° / -121.82886° **Township:** 08N
UTM: Zone-10 N4261402 E602129 **Range:** 01E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 35 **Qtr:** SE
Elevation: 70 ft **Symbol Type:** POINT **Meridian:** M

Location: 0.4 MILE WEST OF CURREY ROAD, 3 MILES NORTH OF DIXON
Location Detail: NEST LOCATED AT THE 90% HEIGHT OF THE NEST TREE, A RAGGED EUCALYPTUS.
Ecological: NEST TREE WAS A RAGGED BLUE GUM EUCALYPTUS; SURROUNDING FORAGING HABITAT CONSISTS OF CULTIVATED LAND TO THE SOUTH, AND AN ORCHARD (REMOVED BY 2004), LARGE TREES AND A FARMSTEAD TO THE SOUTH.
General: NEST MONITORED 22 APR-19 JUL 2001; 2 FLEDGED. NEST MONITORED 15 MAY-24 JUL 2002; INCUBATION OBSERVED, BUT ADULTS DISAPPEARED BY 9 JUL. NEST MONITORED 15 APR-2 AUG 2004; 1 FLEDGED. NEST MONITORED 14 APR-12 AUG 2005; 1 FLEDGED.
Owner/Manager: PVT

Occurrence No. 1162 **Map Index:** 51111 **EO Index:** 51111 **Dates Last Seen**

Occ Rank: Good **Element:** 2005-07-18

Origin: Natural/Native occurrence **Site:** 2005-07-18

Presence: Presumed Extant

Trend: Unknown **Record Last Updated:** 2005-12-07

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.49622° / -121.79757° **Township:** 08N
UTM: Zone-10 N4261559 E604856 **Range:** 02E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 31 **Qtr:** NW
Elevation: 60 ft **Symbol Type:** POINT **Meridian:** M

Location: NORTH SIDE OF TREMONT ROAD, JUST WEST OF THE TREMONT ROAD DEAD-END, WEST OF I-80, 3 MILES NNE OF DIXON
Ecological: NEST TREE WAS A SOLITARY BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTS OF ALFALFA TO THE NORTH, RUDERAL TO THE SOUTH, FREEWAY TO THE EAST, AND USGS TO THE SW.
General: NEST MONITORED 16 JUN-2 AUG 2001; NEST NOT SEEN AFTER JUN 2001. NEST MONITORED 28 APR-24 JUL 2002; POSSIBLE NEST, NO CHICKS. NEST SITE MONITORED 24 APR-22 JUL 2004; POSSIBLE NEST. NEST MONITORED 14 APR-18 JUL 2005; 2 FLEDGED.
Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1163 **Map Index:** 51112 **EO Index:** 51112 **Dates Last Seen** _____
Occ Rank: None **Element:** 2001-07-21
Origin: Natural/Native occurrence **Site:** 2002-06-08
Presence: Extirpated
Trend: Decreasing **Record Last Updated:** 2004-04-19

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.47364° / -121.81961° **Township:** 07N
UTM: Zone-10 N4259028 E602966 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 12 **Qtr:** NW
Elevation: 65 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.2 MILE SOUTH OF I-80 AND 0.2 MILE EAST OF HIGHWAY 113, 1.5 MILES NORTH OF DIXON
Location Detail: NEST TREE IS THE SOUTHMOST AND LARGEST BLACK WALNUT; NEST LOCATED AT THE 85% HEIGHT OF THE NEST TREE, JUST SOUTH OF CENTER.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTS OF CULTIVATED LAND TO THE NORTH AND RUDERAL TO THE SOUTH.
Threat: THREATENED BY DEVELOPMENT (ALL TREES/SHRUBS REMOVED; AREA IS AWAITING DEVELOPMENT AS DIXON MEADOWS CONFERENCE CENTER).
General: NEST SUSPECTED AT THIS SITE IN 2000, BUT INADEQUATE ACCESS PREVENTED CONFIRMATION. NEST MONITORED, 22 APR-21 JUL 2001; 1 FLEDGED. NO RAPTORS OBSERVED ON 14 MAY 2002; SOMETIME BEFORE 8 JUN 2002, ALL TREES AND SHRUBS WERE REMOVED.

Owner/Manager: PVT

Occurrence No. 1164 **Map Index:** 51114 **EO Index:** 51114 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-04
Origin: Natural/Native occurrence **Site:** 2005-08-04
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-12-07

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.44982° / -121.78602° **Township:** 07N
UTM: Zone-10 N4256423 E605931 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 17 **Qtr:** SE
Elevation: 55 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF ROBBEN ROAD, 0.2 MILE SOUTH OF HACKMAN ROAD, 2 MILES EAST OF DIXON
Location Detail: NEST TREE LOCATED WITHIN A ROW OF TREES ON THE WEST SHOULDER, ADJACENT TO FARMSTEAD #7901; NEST FOUND AT THE 80% HEIGHT (IN 2001), JUST NORTH OF CENTER, OF THE NEST TREE. NEST FOUND AT 90% HEIGHT OF SAME TREE IN 2002 AND 2004.
Ecological: NEST TREE WAS A BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTS OF ALFALFA TO THE WEST AND CULTIVATED TO THE EAST.
General: NEST MONITORED 21 MAR-20 JUL 2001; 1 FLEDGED. NEST MONITORED 9 MAY-23 JUL 2002; 1 FLEDGED. NEST MONITORED 10 APR-10 AUG; 3 FLEDGED. NEST MONITORED 3 MAR-4 AUG 2005; 1 FLEDGED.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None State: Threatened	Global: G5 State: S2	CDFG Status:

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1165	Map Index: 51119	EO Index: 51119	Dates Last Seen
Occ Rank: Excellent			Element: 2005-07-17
Origin: Natural/Native occurrence			Site: 2005-07-17
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-12-07

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.43123° / -121.76348°	Township: 07N
UTM: Zone-10 N4254386 E607926	Range: 02E
Area: 12.5 acres	Section: 21
Elevation: 40 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POLYGON	

Location: ALONG MILLER ROAD, 0.8 MILE WEST OF SIKES ROAD, 3 MILES SE OF DIXON

Location Detail: 2001 & 2005 NEST LOCATED AT THE 90% HEIGHT OF THE CENTRAL LOCUST IN A NORTH-SOUTH ROW, EAST OF THE METAL BARN ON THE SOUTH SIDE OF MILLER ROAD. 2004 NEST LOCATED AT THE 95% HEIGHT OF A BLACK WALNUT NORTH OF THE ROAD, EAST OF THE DRIVEWAY.

Ecological: 2005 NEST TREE WAS A LOCUST; SURROUNDING FORAGING HABITAT CONSISTS OF ALFALFA TO THE NORTH AND EAST, AND CULTIVATED TO THE SOUTH.

General: NEST MONITORED 17 MAR-24 JUL 2001; 1 FLEDGED. NEST MONITORED 21 APR-17 JUL 2002; 2 FLEDGED. NEST MONITORED 9 APR-10 AUG 2004; 1 FLEDGED. NEST MONITORED 30 MAR-17 JUL 2005; 2 FLEDGED.

Owner/Manager: PVT

Occurrence No. 1166	Map Index: 51125	EO Index: 51125	Dates Last Seen
Occ Rank: Excellent			Element: 2005-08-04
Origin: Natural/Native occurrence			Site: 2005-08-04
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-12-07

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.43754° / -121.78200°	Township: 07N
UTM: Zone-10 N4255065 E606300	Range: 02E
Radius: 80 meters	Section: 20
Elevation: 45 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: 0.2 MILE EAST OF ROBBEN ROAD, 0.5 MILE NORTH OF MILLER ROAD, 2 MILES ESE OF DIXON

Location Detail: NEST LOCATED AT THE 90% HEIGHT OF THE SECOND TALL EUCALYPTUS FROM THE SOUTH, IN THE EAST ROW.

Ecological: NEST TREE WAS A BLUE GUM EUCALYPTUS; SURROUNDING FORAGING HABITAT CONSISTS OF ALFALFA TO THE NORTH AND CULTIVATED TO THE SOUTH.

General: NEST MONITORED 29 MAR-10 AUG 2001; INCUBATION, BUT NONE FLEDGED. NEST MONITORED 21 APR-24 AUG 2002; INCUBATION, BUT NONE FLEDGED. NEST SITE MONITORED 21 APR-17 JUL 2004; NO SWHA OBSERVED. NEST MONITORED 23 APR-4 AUG 2005; 1 FLEDGED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1167	Map Index: 51126	EO Index: 51126	Dates Last Seen
Occ Rank: Fair			Element: 2004-07-17
Origin: Natural/Native occurrence			Site: 2005-08-04
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-04-20

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.43760° / -121.78745°	Township: 07N
UTM: Zone-10 N4255066 E605824	Range: 02E
Area: 8.6 acres	Section: 19
Elevation: 45 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: 0.1 MILE WEST OF ROBBERN ROAD, 0.5 MILE SOUTH OF EAST DIXON ROAD, 1.5 MILES ESE OF DIXON
Location Detail: NEST LOCATED AT THE 85% HEIGHT OF A VERY SLENDER EUCALYPTUS AT THE SW CORNER OF THE FARMSTEAD. 2002 NEST BUILT AT THE 95% HEIGHT OF THE EASTMOST TREE IN A ROW. 2004 NEST AT 90% HEIGHT OF NEST TREE, 1/4 EAST OF WEST END OF ROW.
Ecological: NEST TREE WAS A SLENDER, FLEXIBLE BLUE GUM EUCALYPTUS; SURROUNDING FORAGING HABITAT CONSISTS OF ALFALFA TO THE WEST AND SOUTH.
General: NEST MONITORED 7 APR-10 AUG 2001; PAIR DISAPPEARED, 21 JUN-5 JUL 2001. NEST MONITORED 21 APR-1 AUG 2002; ADULTS DISAPPEARED AFTER 6 JUN 2002. ADULTS, BUT NO CHICKS, SEEN IN 2004. ONLY 2 ADULT SIGHTINGS IN 2005.

Owner/Manager: PVT

Occurrence No. 1168	Map Index: 51130	EO Index: 51130	Dates Last Seen
Occ Rank: Excellent			Element: 2005-07-21
Origin: Natural/Native occurrence			Site: 2005-07-21
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-12-07

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.45267° / -121.78374°	Township: 07N
UTM: Zone-10 N4256742 E606126	Range: 02E
Radius: 80 meters	Section: 17
Elevation: 50 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: NORTH SIDE OF HACKMAN ROAD, BETWEEN HARPER LANE AND ROBBERN ROAD, 1.5 MILES NE OF DIXON
Location Detail: 2001 NEST LOCATED AT THE 85% HEIGHT OF THE WESTERN OF TWO LIVE BLACK WALNUTS. POSSIBLE NEST HIGH IN MIDDLE TREE IN 2002. DEAD EASTERN TREES WERE REMOVED BEFORE THE 2004 SEASON. 2005 NEST LOCATED AT THE 95% HEIGHT OF 2ND TREE FROM THE
Ecological: NEST TREE WAS A BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTS OF A SOD FARM TO THE NORTH AND TOMATOES TO THE SOUTH.
General: NEST MONITORED 7 APR-20 JUL 2001; 1 FLEDGED. NEST MONITORED 21 APR-17 JUL 2002; POSSIBLE NEST/NO CHICKS. NEST SITE MONITORED 10 APR-17 JUL 2004; POSSIBLE NEST. NEST MONITORED 12 APR-21 JUL 2005; 2 FLEDGED.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1169 **Map Index:** 51132 **EO Index:** 51132 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-07-17
Origin: Natural/Native occurrence **Site:** 2005-07-17
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-12-07

Quad Summary: Dixon (3812147/498A), Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.42783° / -121.75026° **Township:** 07N
UTM: Zone-10 N4254025 E609085 **Range:** 02E
Area: 12.1 acres **Mapping Precision:**SPECIFIC **Section:** 28 **Qtr:** NE
Elevation: 40 ft **Symbol Type:**POLYGON **Meridian:** M

Location: 0.2 MILE SOUTH OF MILLER ROAD, 2 MILES EAST OF HIGHWAY 113, EAST OF DIXON
Location Detail:2002 NEST TREE WAS A BLACK WALNUT SOUTH OF THE FARMSTEAD AND WELL WEST OF SIKES ROAD. 2004 NEST LOCATED AT THE 75% HEIGHT, ON THE SE SIDE, OF A BLACK WALNUT SOUTH OF THE HOUSE.
Ecological: NEST TREE WAS A BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTS OF WHEAT TO THE NORTH AND SOUTH, AND SUNFLOWERS TO THE EAST.
General: NEST MONITORED 1 APR-10 AUG 2001; NEST-BUILDING AND COPULATION OBSERVED, BUT NO CHICKS. NEST MONITORED 21 APR-17 JUL 2002; 2 FLEDGED. NEST MONITORED 9 APR-10 AUG 2004; 1 FLEDGED. NEST MONITORED 1 MAR-17 JUL 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No. 1170 **Map Index:** 51137 **EO Index:** 51137 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2002-07-17
Origin: Natural/Native occurrence **Site:** 2005-07-21
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2006-04-20

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.47906° / -121.76298° **Township:** 07N
UTM: Zone-10 N4259695 E607898 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 04 **Qtr:** SW
Elevation: 50 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.25 MILE EAST OF RUNGE ROAD, 0.8 MILE NORTH OF VAUGHN ROAD, NE OF DIXON
Location Detail:NEST LOCATED AT THE 90% HEIGHT OF THE TALLEST DECIDUOUS TREE FARTHER EAST THAN THE TALL PINE.
Ecological: NEST TREE IS A LOCUST(?); SURROUNDING FORAGING HABITAT CONSISTS OF WHEAT TO THE NW AND TOMATOES TO THE SOUTH, EAST, NORTH, AND WEST.
General: NEST MONITORED 29 APR-20 JUL 2001; 2 FLEDGED. NEST MONITORED 15 APR-17 JUL 2002; 1 FLEDGED. ONLY 1 ADULT SIGHTING IN 2004 AND IN 2005 (UNOCCUPIED).

Owner/Manager: PVT

Occurrence No. 1171 **Map Index:** 51139 **EO Index:** 51139 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-22
Origin: Natural/Native occurrence **Site:** 2005-08-22
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2006-04-20

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.46296° / -121.78867° **Township:** 07N
UTM: Zone-10 N4257879 E605680 **Range:** 02E
Area: 19.2 acres **Mapping Precision:**SPECIFIC **Section:** 07 **Qtr:** SE
Elevation: 50 ft **Symbol Type:**POLYGON **Meridian:** M

Location: WEST SIDE OF ROBBERN ROAD, 0.3 MILE SOUTH OF VAUGHN ROAD, 2 MILES NE OF DIXON
Location Detail:FINAL 2001 NEST LOCATED AT THE 95% HEIGHT, IN THE CENTER, OF THE WESTMOST BLACK WALNUT. 2005 NEST LOCATED IN THE THIRD BLACK WALNUT WEST OF THE ROAD, ALONG THE SOUTH EDGE.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTS OF ALFALFA TO THE NORTH, SOUTH, WEST AND NE, AND CULTIVATED TO THE SE. MAJOR CHANGES MADE TO FARMSTEAD IN 2004: NEW HOUSE AND OTHER BUILDINGS.
General: NEST MONITORED 29 APR-11 AUG 2001; 1 FLEDGED. NEST SITE MONITORED 9 MAY-17 JUL 2002; NO NEST FOUND. NEST SITE MONITORED 10 APR-17 JUL 2004; NO SWHA SIGHTINGS IN 2004. NEST MONITORED 30 MAR-22 AUG 2005; 1 FLEDGED

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Owner/Manager: PVT

Occurrence No. 1172 **Map Index:** 51142 **EO Index:** 51142 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2001-07-20
Origin: Natural/Native occurrence **Site:** 2005-08-12
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2006-04-20

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.45259° / -121.75917° **Township:** 07N
UTM: Zone-10 N4256762 E608270 **Range:** 02E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 16 **Qtr:** NW
Elevation: 40 ft **Symbol Type:** POINT **Meridian:** M

Location: NORTH SIDE OF HACKMAN ROAD, 0.45 MILE EAST OF RUNGE ROAD, 3 MILES EAST OF DIXON
Location Detail: NEST TREE CONSISTS OF ONE OF TWO WILLOWS GROWING IN CONTACT ON THE NORTH SHOULDER OF THE ROAD; NEST LOCATED AT THE 90% HEIGHT OF THE WESTERN WILLOW.
Ecological: NEST TREE IS A WILLOW; SURROUNDING FORAGING HABITAT CONSISTS OF ALFALFA TO THE NORTH AND WHEAT TO THE SOUTH.
General: NEST MONITORED 29 APR-20 JUL 2001; 1 FLEDGED. NEST SITE MONITORED 15 APR-21 JUN 2002; INACTIVE. NEST MONITORED 10 APR-17 JUL 2004; NEST-BUILDING, BUT GONE BY 17 JUN. NEST SITE MONITORED 30 MAR-12 AUG 2005; ADULT SEEN, BUT NO NEST.

Owner/Manager: UNKNOWN

Occurrence No. 1173 **Map Index:** 51143 **EO Index:** 51143 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2004-08-12
Origin: Natural/Native occurrence **Site:** 2004-08-12
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-03-17

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.46677° / -121.76193° **Township:** 07N
UTM: Zone-10 N4258332 E608008 **Range:** 02E
Area: 14.8 acres **Mapping Precision:** SPECIFIC **Section:** 09 **Qtr:** SW
Elevation: 50 ft **Symbol Type:** POLYGON **Meridian:** M

Location: 0.3 MILE EAST OF THE INTERSECTION OF RUNGE ROAD AND VAUGHN ROAD, 3 MILES ENE OF DIXON
Location Detail: 2001 NEST LOCATED HIGH IN THE NE SIDE SIDE OF THE 6TH BLACK WALNUT FROM THE EAST END OF THE ROW. 2002 NEST WAS ON THE EAST SIDE OF THE EASTMOST TREE IN THIS SAME GROUP. 2004 NEST WAS AT THE 95% HEIGHT OF THE 2ND BLACK WALNUT FROM THE WEST.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTS OF A FARMSTEAD TO THE SE, CORN TO THE SOUTH AND SW, AND CULTIVATED LAND TO THE NORTH (WELL DRILLED HERE IN AUG 2001).
General: NEST MONITORED 21 JUN-11 AUG 2001; 2 FLEDGED. NEST MONITORED 15 APR-17 JUL 2002; 1 FLEDGED. NEST MONITORED 29 MAY-12 AUG 2004; NEST DISCOVERED TOO LATE (OUTCOME UNKNOWN).

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1253 **Map Index:** 52077 **EO Index:** 52077 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-03
Origin: Natural/Native occurrence **Site:** 2005-08-03
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-15

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.37909° / -121.90606° **Township:** 06N
UTM: Zone-10 N4248444 E595549 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 07 **Qtr:** SW
Elevation: 72 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF BYRNES ROAD, 1.1 MILES SOUTH OF KILKENNY ROAD, 4.5 MILES ENE OF VACAVILLE
Location Detail: NEST IS LOCATED AT THE 85% HEIGHT OF THE NEST TREE, VISIBLE FROM THE SOUTH. NEST TREE IS THE THIRD FROM THE NORTH, ALONG THE WEST SHOULDER.
Ecological: NEST TREE IS A TALL EUCALYPTUS; SURROUNDED BY CULTIVATED LAND TO THE EAST, PASTURE TO THE NW, AND RUDERAL TO THE SW.
General: RTHA NEST IN 2001. NEST MONITORED 13 APR-24 JUL 2002; 1 FLEDGED. NEST MONITORED 18 APR-12 AUG 2004; 1 FLEDGED. NEST MONITORED 12 MAR-3 AUG 2005; 1 FLEDGED.

Owner/Manager: UNKNOWN

Occurrence No. 1254 **Map Index:** 52078 **EO Index:** 52078 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-05-15
Origin: Natural/Native occurrence **Site:** 2005-09-07
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-20

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.48949° / -121.88284° **Township:** 07N
UTM: Zone-10 N4260719 E597429 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 05 **Qtr:** XX
Elevation: 98 ft **Symbol Type:**POINT **Meridian:** M

Location: ON THE SOUTH SHOULDER OF THE SIEVERS ROAD ENTRANCE TO DIXON SCHOOL FARM, 4 MILES NW OF DIXON.
Location Detail: NEST TREE IS THE FIRST BLACK WALNUT, JUST EAST OF THE ENTRANCE, ON THE SOUTH SHOULDER.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY CULTIVATED LAND TO THE NORTH AND PASTURE TO THE SOUTH.
General: NESTING AT THIS SITE NOT OBSERVED PRIOR TO 2002. NEST MONITORED 28 APR-29 JUL 2002; 1 FLEDGED. NEST MONITORED 22 MAR-16 JUL 2004; 2 CHICKS SEEN, 1 FLEDGED. NEST MONITORED 17 MAR-7 SEP 2005; INCUBATION OBSERVED ON 15 MAY, NO CHICK DETECTED.

Owner/Manager: SOL COUNTY

Occurrence No. 1274 **Map Index:** 53111 **EO Index:** 53111 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-09-11
Origin: Natural/Native occurrence **Site:** 2005-09-11
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2006-04-20

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.49459° / -121.82228° **Township:** 08N
UTM: Zone-10 N4261351 E602703 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 35 **Qtr:** SE
Elevation: 65 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF CURREY ROAD, 0.4 MILE NORTH OF SIEVERS ROAD, 2.5 MILES NORTH OF DIXON
Location Detail: 2001-2002 NEST TREE LOCATED ON THE WEST SIDE OF ROAD; NEST LOCATED AT THE 90% HEIGHT OF THE NEST TREE, OVER THE WEST EDGE OF THE ROAD. 2004 NEST TREE WAS THE NEXT TREE TO THE SOUTH. 2005 NEST WAS IN AN EAST-SHOULDER TREE.
Ecological: NEST TREE IS A THE FIRST TALL EUCALYPTUS IN A LINE OF ROADSIDE EUCALYPTUS TREES; ALFALFA TO THE NE AND CULTIVATED LAND TO THE EAST AND WEST. SUBSTANTIAL TRIMMING OPENED UP THE CANOPY OF THESE LARGE, OLD TREES; NEST TREE DIED IN 2002.
General: NEST MONITORED 13 MAR-22 JUL 2001; 1 FLEDGED. NEST MONITORED 15 MAY-29 JUL 2002; 1 FLEDGED. NEST MONITORED 22 MAR-15 JUL 2004; 2 FLEDGED. NEST MONITORED 31 MAR-11 SEP 2005; 2 FLEDGED.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

_____ Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G5 CDFG Status:
 State: Threatened State: S2

_____ Habitat Associations _____

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1275 Map Index: 53276 EO Index: 53276 _____ Dates Last Seen _____
 Occ Rank: Fair Element: 2002-07-17
 Origin: Natural/Native occurrence Site: 2005-06-05
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-04-20

Quad Summary: Dixon (3812147/498A)
 County Summary: Solano

Lat/Long: 38.41752° / -121.77628° Township: 07N
 UTM: Zone-10 N4252851 E606828 Range: 02E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 29 Qtr: SE
 Elevation: 35 ft Symbol Type: POINT Meridian: M

Location: NORTH SIDE OF MIDWAY ROAD, 0.5 MILE EAST OF ROBBEN ROAD, 3 MILES SE OF DIXON
Location Detail: NEST LOCATED AT THE 80% HEIGHT OF THE NEST TREE. IN 2004. A SMALL TRAILER PARKED DIRECTLY UNDER NEST TREE, AND A LARGER SHED IS NOW PRESENT.
Ecological: NEST TREE WAS A RAGGED ASH; SURROUNDED BY PASTURE TO THE SOUTH AND SE, AND ALFALFA TO THE NORTH AND NE.
General: NEST MONITORED 21 APR-17 JUL 2002; 1 FLEDGED. NEST SITE MONITORED 8 MAR-17 JUL 2004; NO RAPTORS OBSERVED. NEST SITE MONITORED 23 APR-5 JUN 2005; UNOCCUPIED.

Owner/Manager: UNKNOWN

Occurrence No. 1276 Map Index: 53277 EO Index: 53277 _____ Dates Last Seen _____
 Occ Rank: Fair Element: 2002-05-12
 Origin: Natural/Native occurrence Site: 2005-07-18
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-04-20

Quad Summary: Dixon (3812147/498A)
 County Summary: Solano

Lat/Long: 38.45763° / -121.80297° Township: 07N
 UTM: Zone-10 N4257271 E604441 Range: 02E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 18 Qtr: NW
 Elevation: 55 ft Symbol Type: POINT Meridian: M

Location: EAST SIDE OF PEDRICK ROAD, 0.7 MILE SOUTH OF VAUGHN ROAD, 1 MILE NE OF DIXON
Location Detail: 2002 NEST WAS LOCATED AT THE 80% HEIGHT OF THE NEST TREE. 2004 NEST WAS FOUND AT THE 90% HEIGHT OF A TALL, SLENDER BLUE GUM.
Ecological: NEST TREE IS A EUCALYPTUS; SURROUNDED BY A LARGE, COMPLEX FARMSTEAD AND A SOD FARM TO THE EAST AND CULTIVATED LAND TO THE WEST, ACROSS THE ROAD.
General: NEST MONITORED 21 APR-23 JUL 2002; ADULT SITTING TIGHT ON NEST, 12 MAY 2002, BUT NO RAPTORS OBSERVED AFTER 13 MAY 2002. NEST MONITORED 11 APR-17 JUL; ADULT STANDING ON NEST, 11 APR, BUT NO LATER SIGHTINGS. UNOCCUPIED IN 2005.

Owner/Manager: PVT-DUTRA RANCH

Occurrence No. 1277 Map Index: 53279 EO Index: 53279 _____ Dates Last Seen _____
 Occ Rank: Good Element: 2005-07-16
 Origin: Natural/Native occurrence Site: 2005-07-16
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-07-03

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.37303° / -121.80524° Township: 06N
 UTM: Zone-10 N4247881 E604364 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 13 Qtr: NE
 Elevation: 35 ft Symbol Type: POINT Meridian: M

Location: WEST SIDE OF PEDRICK ROAD, 1.2 MILES SOUTH OF CASEY ROAD, 5 MILES SOUTH OF DIXON.
Location Detail: NEST LOCATED AT THE 2/3 HEIGHT OF THE NEST TREE. SITE IS LOCATED 1.5 MILES NORTH OF THE BINGHAMPTON SMALL FARMSTEAD #6521.
Ecological: NEST TREE IS A MULTI-TRUNKED EUCALYPTUS.
General: NEST MONITORED 12 MAY-24 JUL 2002; ADULTS NEST-BUILDING, 12 MAY 2002, BUT NEVER OBSERVED THEREAFTER. INACTIVE IN 2004. NEST MONITORED 13 APR-16 JUL 2005; 2 FLEDGED.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1288 **Map Index:** 53333 **EO Index:** 53333 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-07-04
Origin: Natural/Native occurrence **Site:** 2005-07-04
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-16

Quad Summary: Saxon (3812146/497B)

County Summary: Solano, Yolo

Lat/Long: 38.49173° / -121.69586° **Township:** 08N
UTM: Zone-10 N4261181 E613733 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 36 **Qtr:** SE
Elevation: 35 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF MACE BOULEVARD, 0.25 MILE NORTH OF THE JOG IN MACE BOULEVARD, 4 MILES SSE OF DAVIS.
Location Detail:2001-2004 NEST TREE WAS THE FIRST BLACK WALNUT ON THE WEST SHOULDER, NORTH OF THE DIRT FARM ROAD LEADING WEST; THIS NEST TREE DISAPPEARED IN 2004. 2005 NEST TREE WAS THE FIRST BLACK WALNUT REMAINING NORTH OF THE DIRT ROAD.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY ALFALFA TO THE WEST AND RUDERAL TO THE EAST, ACROSS THE ROAD.
General: SUCCESSFUL NEST AT THIS SITE LIKELY MISSED IN 2001. NEST MONITORED 4 JUL-23 JUL 2002; 1 FLEDGED. NEST TREE WITH A SMALL NEST DISAPPEARED BETWEEN 11 JUN-13 JUL 2004. NEST MONITORED 30 MAR-10 AUG 2005; INCUBATION OBS ON 31 MAY, BUT 0 FLEDGED.

Owner/Manager: UNKNOWN

Occurrence No. 1294 **Map Index:** 53567 **EO Index:** 53567 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-22
Origin: Natural/Native occurrence **Site:** 2005-08-22
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-16

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.47732° / -121.67573° **Township:** 07N
UTM: Zone-10 N4259608 E615511 **Range:** 03E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 06 **Qtr:** SE
Elevation: 25 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF ROAD 105, 0.7 MILE SOUTH OF ROAD 36, 5.4 MILES SE OF DAVIS.
Location Detail:NEST TREE WAS THE BLACK WALNUT AT THE SE CORNER OF THE FARMSTEAD AT 31680 ROAD 105.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY ALFALFA TO THE SOUTH, NE, AND WEST, AND SAFFLOWER TO THE SE.
General: NEST SITE LIKELY OCCUPIED IN 2001. NEST MONITORED 4 APR-15 AUG 2002; 1 CHICK OBSERVED ON 15 AUG 2002; 1 FLEDGED. NEST MONITORED 18 MAR-13 JUL 2004; 1 FLEDGED. NEST MONITORED 28 FEB-22 AUG 2005; OCCUPIED, BUT NO CHICK DETECTED.

Owner/Manager: PVT

Occurrence No. 1300 **Map Index:** 53576 **EO Index:** 53576 **Dates Last Seen** _____
Occ Rank: None **Element:** 2002-08-03
Origin: Natural/Native occurrence **Site:** 2005-03-XX
Presence: Extirpated
Trend: Decreasing **Record Last Updated:** 2007-07-03

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.31004° / -121.87459° **Township:** 05N
UTM: Zone-10 N4240815 E598391 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 04 **Qtr:** NW
Elevation: 50 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.2 MILE WEST OF DALLY ROAD AND 0.35 MILE SOUTH OF HAY ROAD, 3.8 MILES NE OF TRAVIS AIR FORCE BASE.
Location Detail:NEST TREE WAS THE EASTMOST TREE IN AN EAST-WEST ROW OF EUCALYPTUS.
Ecological: NEST TREE WAS A BLUE GUM EUCALYPTUS.
General: NEST MONITORED 14 MAY-3 AUG 2002; 1 FLEDGED. NEST SITE MONITORED 20 MAR-22 JUL 2004; ADULTS OBSERVED NEST-BUILDING. DURING EARLY MAR 2005, THE ENTIRE GROUP OF TREES WHERE THE NEST TREE HAD BEEN HAD BEEN REMOVED; SITE EXTIRPATED.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1301 **Map Index:** 53577 **EO Index:** 53577 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-05-04
Origin: Natural/Native occurrence **Site:** 2005-08-16
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-03

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.33694° / -121.86178° **Township:** 06N
UTM: Zone-10 N4243813 E599474 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 28 **Qtr:** SE
Elevation: 45 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SHOULDER OF FRY ROAD, 0.1 MILE WEST OF CLARK ROAD, 5.5 MILES NE OF TRAVIS AIR FORCE BASE.
Location Detail:2002 NEST TREE WAS THE FIRST SOUTH-SHOULDER TREE WEST OF CLARK ROAD.
Ecological: NEST TREE IS AN ISOLATED BLUE GUM EUCALYPTUS; SURROUNDED BY ALFALFA TO THE NORTH AND SOUTH.
General: NEST MONITORED 23 JUN-29 JUL 2002; 1 FLEDGED. NEST SITE MONITORED 23 APR-18 JUN 2004; 2 ADULTS PRESENT 23 APR, POSSIBLE NEST SEEN 13 MAY 2004. NEST MONITORED 4 MAY-16 AUG 2005; INCUBATING ON 4 MAY 2005, BUT LATER ABANDONED.
Owner/Manager: SOL COUNTY

Occurrence No. 1302 **Map Index:** 53578 **EO Index:** 53578 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2002-07-24
Origin: Natural/Native occurrence **Site:** 2005-06-29
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-26

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.31251° / -121.90000° **Township:** 05N
UTM: Zone-10 N4241062 E596167 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 06 **Qtr:** NE
Elevation: 60 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.2 MILE SOUTH OF HAY ROAD AND 0.2 MILE WEST OF LEWIS ROAD, 2.8 MILES NE OF TRAVIS AIR FORCE BASE.
Location Detail:NEST LOCATED AT THE 95% HEIGHT, ON THE SE SIDE, OF THE LEAFY PORTION OF THE TALLEST EUCALYPTUS, NEAR THE WEST END OF THE ROW; NEST OBSERVED FROM THE SOUTH END OF LEWIS ROAD.
Ecological: NEST TREE WAS AN ISOLATED BLUE GUM EUCALYPTUS; SURROUNDED BY ALFALFA TO THE NORTH AND SOUTH.
General: NEST MONITORED 8 JUN-24 JUL 2002; 1 FLEDGED. NEST SITE MONITORED 1 FEB-19 JUN 2004; RTHA OBSERVED ON 1 FEB AND 8 MAR 2004. RTHA ADULTS OBSERVED ON 4 MAY 2005; NO SWHA SEEN.
Owner/Manager: UNKNOWN

Occurrence No. 1303 **Map Index:** 53579 **EO Index:** 53579 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2004-07-24
Origin: Natural/Native occurrence **Site:** 2005-08-12
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-26

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.32935° / -121.89808° **Township:** 06N
UTM: Zone-10 N4242933 E596312 **Range:** 01E
Area: 12.8 acres **Mapping Precision:**SPECIFIC **Section:** 31 **Qtr:** NE
Elevation: 60 ft **Symbol Type:**POLYGON **Meridian:** M

Location: 0.1 MILE WEST OF LEWIS ROAD AND 0.6 MILE SOUTH OF FRY ROAD, 1.5 MILES SSE OF ELMIRA.
Location Detail:2002 NEST LOCATED AT THE 90% HEIGHT, ON THE EAST SIDE OF THE WEST EUCALYPTUS (UTM 596331 4242677). 2004 NEST LOCATED IN EAST TREE (UTM 596480 4242799), AT THE 95% HEIGHT ON THE NORTH SIDE.
Ecological: NEST TREE WAS A BLUE GUM EUCALYPTUS; SURROUNDED BY ALFALFA TO THE NORTH OF THE CANAL.
General: BUTEO NEST AT THIS SITE IN 2001 THOUGHT TO BE RTHA. NEST MONITORED 13 APR-24 JUL 2002; 2 SWHA FLEDGED. NEST MONITORED 13 MAY-24 JUL 2004; OUTCOME UNKNOWN. INACTIVE IN 2005.
Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status: Federal: None
 State: Threatened
 NDDB Element Ranks: Global: G5
 State: S2
 Other Lists: CDFG Status:

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
 Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1304 Map Index: 53580 EO Index: 53580 Dates Last Seen: Element: 2005-07-24 Site: 2005-07-24
 Occ Rank: Good
 Origin: Natural/Native occurrence
 Presence: Presumed Extant
 Trend: Unknown
 Record Last Updated: 2007-06-26

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.34698° / -121.90630° Township: 06N
 UTM: Zone-10 N4244880 E595570 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 19 Qtr: SW
 Elevation: 70 ft Symbol Type: POINT Meridian: M

Location: VACA STATION ROAD, AT THE ENTRANCE TO THE SEWAGE TREATMENT PLANT, SE EDGE OF ELMIRA.

Ecological: NEST TREE WAS A BLUE GUM EUCALYPTUS.

General: SITE WAS PROBABLY ACTIVE IN 2001. NEST MONITORED 9 JUN-18 JUL 2002; RECENTLY-DEAD CHICK AND TWIGS FROM NEST BLOWN OUT OF TREE, 9 JUN 2002. NEST MONITORED 13 MAY-1 AUG 2004; 1 FLEDGED. NEST MONITORED 17 APR-24 JUL 2005; 2 FLEDGED.

Owner/Manager: UNKNOWN

Occurrence No. 1305 Map Index: 53581 EO Index: 53581 Dates Last Seen: Element: 2005-07-23 Site: 2005-07-23
 Occ Rank: Good
 Origin: Natural/Native occurrence
 Presence: Presumed Extant
 Trend: Unknown
 Record Last Updated: 2007-06-27

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.33688° / -121.88314° Township: 06N
 UTM: Zone-10 N4243784 E597608 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 29 Qtr: SE
 Elevation: 50 ft Symbol Type: POINT Meridian: M

Location: SOUTH SIDE OF FRY ROAD, 0.75 MILE WEST OF DALLY ROAD, 5 MILES NNE OF TRAVIS AIR FORCE BASE.

Location Detail: 2002 NEST LOCATED AT THE 90% HEIGHT, ON THE NE SIDE, OF THE LARGEST BLUE GUM EUCALYPTUS, IN THE FORK OF THE DRIVEWAY NE OF THE YELLOW HOUSE.

Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; CULTIVATED LAND SURROUNDS THE LARGE FARMSTEAD WITH TREES, EXCEPT TO THE SE, WHICH CONSISTS OF PASTURE, CORRALS, AND RUDERAL.

General: NEST MONITORED 14 MAY-24 JUL 2002; INCUBATION, BUT 0 YOUNG FLEDGED. NEST MONITORED 20 MAR-5 AUG 2004; 1 FLEDGED. NEST MONITORED 18 APR-23 JUL 2005; 2 FLEDGED.

Owner/Manager: UNKNOWN

Occurrence No. 1316 Map Index: 56442 EO Index: 56458 Dates Last Seen: Element: 2005-08-20 Site: 2005-08-20
 Occ Rank: Good
 Origin: Natural/Native occurrence
 Presence: Presumed Extant
 Trend: Unknown
 Record Last Updated: 2005-09-15

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.46396° / -121.87758° Township: 07N
 UTM: Zone-10 N4257891 E597922 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 09 Qtr: SW
 Elevation: 80 ft Symbol Type: POINT Meridian: M

Location: 0.25 MILE NORTH OF SILVEYVILLE ROAD AND 0.9 MILE WEST OF SCHROEDER ROAD, NW OF DIXON.

Location Detail: RESSEGUIE'S ALLENDALE 19. 2004 NEST LOCATED AT THE 90% HEIGHT OF A SLENDER BLUE GUM IN THE NW CORNER OF THE GROVE. 2005 NEST LOCATED AT THE 80% HEIGHT OF A SLENDER BLUE GUM IN THE MIDDLE OF THE NORTH GROVE.

Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS, LOCATED WITHIN A RECTANGULAR GROVE OF 15-YEAR-OLD EUCALYPTS; AN IRRIGATION CANAL RUNS ALONG THE WEST BOUNDARY, A LARGE ALFALFA FIELD FOUND TO THE EAST, AND A CULTIVATED FIELD FOUND WEST OF THE HOUSES.

General: SITE WAS SUSPECTED AS A NEST SITE IN 2000, BUT NOT CHECKED IN 2001 AND 2002. NEST MONITORED 14 APR-17 AUG 2004; ACTIVE, BUT NO CHICK DETECTED. NEST MONITORED 16 APR-20 AUG 2005; ACTIVE, BUT NO CHICK DETECTED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

----- Status ----- NDDB Element Ranks ----- Other Lists -----
 Federal: None Global: G5 CDFG Status:
 State: Threatened State: S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
 Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1317 Map Index: 56443 EO Index: 56459 Dates Last Seen -----
 Occ Rank: Fair Element: 2005-08-12
 Origin: Natural/Native occurrence Site: 2005-08-12
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-06-18

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.38430° / -121.89497° Township: 06N
 UTM: Zone-10 N4249033 E596510 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 08 Qtr: NW
 Elevation: 65 ft Symbol Type: POINT Meridian: M

Location: EAST SIDE OF LEWIS ROAD, 0.9 MILE SOUTH OF THE CANYON CREEK CANAL JUNCTION WITH LEWIS ROAD, 5.5 MILES SW OF DIXON.
 Location Detail: RESSEGUIE'S ALLENDALE 35. 2004-2005 NEST LOCATED AT THE 90% HEIGHT OF A BLACK WALNUT LOCATED BETWEEN THE DIRT ROAD AND THE NORTH FENCE.

Ecological: NEST TREE IS A BLACK WALNUT.

General: NEST MONITORED 21 MAR-10 AUG 2004; NEST-BUILDING OBSERVED ON 21 MAR, SWHA SITTING TIGHT ON NEST ON 24 MAY, AND UNKNOWN-AGED BIRD FLUSHED FROM NEST ON 15 JUN 2004. NEST MONITORED 2 MAY-12 AUG 2005; 2 FLEDGED.

Owner/Manager: PVT

Occurrence No. 1318 Map Index: 56445 EO Index: 56461 Dates Last Seen -----
 Occ Rank: Good Element: 2004-07-22
 Origin: Natural/Native occurrence Site: 2005-07-08
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-09-14

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.39151° / -121.89246° Township: 06N
 UTM: Zone-10 N4249836 E596720 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 05 Qtr: SW
 Elevation: 70 ft Symbol Type: POINT Meridian: M

Location: EAST SIDE OF LEWIS ROAD, 0.5 MILE SOUTH OF THE CANYON CREEK CANAL JUNCTION WITH LEWIS ROAD, 5 MILES SW OF DIXON.
 Location Detail: RESSEGUIE'S ALLENDALE 52. 2004 NEST LOCATED AT THE 95% HEIGHT, ON THE EAST SIDE, OF A LARGE BLUE GUM NEAR THE BACK OF THE HOUSE (NOT VISIBLE FROM ROAD).

Ecological: NEST TREE WAS A BLUE GUM EUCALYPTUS.

General: THIS SITE WAS PROBABLY OCCUPIED IN 2002; INADEQUATE OBSERVATION TO DETERMINE STATUS. NEST MONITORED 3 MAY-22 JUL 2004; 2 BROKEN EGGS ON THE GROUND BELOW NEST ON 22 JUN 2004. INACTIVE IN 2005; 2004 NEST TREE OCCUPIED BY GHOW.

Owner/Manager: PVT

Occurrence No. 1319 Map Index: 56446 EO Index: 56462 Dates Last Seen -----
 Occ Rank: Excellent Element: 2005-08-01
 Origin: Natural/Native occurrence Site: 2005-08-01
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-06-20

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.47513° / -121.92125° Township: 07N
 UTM: Zone-10 N4259085 E594098 Range: 01W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 12 Qtr: XX
 Elevation: 95 ft Symbol Type: POINT Meridian: M

Location: SOUTH SHOULDER OF THISELL ROAD, 0.1 MILE EAST OF HALLEY ROAD, 5 MILES WNW OF DIXON.
 Location Detail: RESSEGUIE'S ALLENDALE 54. 2004 NEST LOCATED AT THE 90% HEIGHT OF A SOUTH SHOULDER BLACK WALNUT (3RD WALNUT WEST OF A BLUE GUM). 2005 NEST TREE WAS A BLUE GUM.

Ecological: NEST TREE IS A BLACK WALNUT.

General: IN 2002, A FLEDGLING AND 2 ADULTS WERE OBSERVED, BUT NO NEST WAS OBSERVED. NEST MONITORED 21 MAR-8 AUG 2004; 2 FLEDGED. NEST MONITORED 16 APR-2 AUG 2005; 1 FLEDGED.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1320 **Map Index:** 56447 **EO Index:** 56463 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-07-20
Origin: Natural/Native occurrence **Site:** 2005-07-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-14

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.47713° / -121.86948° **Township:** 07N
UTM: Zone-10 N4259362 E598611 **Range:** 01E
Area: 7.7 acres **Mapping Precision:**SPECIFIC **Section:** 04 **Qtr:** SW
Elevation: 80 ft **Symbol Type:**POLYGON **Meridian:** M

Location: NORTH SIDE OF THISSELL ROAD, 0.5 MILE WEST OF SCHROEDER ROAD, 3 MILES NW OF DIXON.
Location Detail: RESSEGUIE'S ALLENDALE 55. 2004 NEST LOCATED HIGH IN AN ENGLISH WALNUT, ON THE WEST SIDE OF A FARMSTEAD, JUST NORTH OF AN ALMOND ORCHARD. 2005 NEST LOCATED AT THE 90% HEIGHT OF THE LARGEST BLACK WALNUT JUST WEST OF THE HOUSE.
Ecological: NEST TREE WAS A BLACK WALNUT; ALMOND ORCHARD FOUND TO THE SOUTH AND ALFALFA TO THE WEST.
General: NEST MONITORED 3 MAR-16 JUL 2004; NEST OBSERVED, BUT NO CHICKS. NEST MONITORED 19 MAY-20 JUL 2005; 1 FLEDGED.
Owner/Manager: PVT

Occurrence No. 1321 **Map Index:** 56448 **EO Index:** 56464 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2004-06-09
Origin: Natural/Native occurrence **Site:** 2005-08-02
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-20

Quad Summary: Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.44567° / -121.87982° **Township:** 07N
UTM: Zone-10 N4255860 E597751 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 20 **Qtr:** NE
Elevation: 75 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF DIXON AVENUE WEST, 0.1 MILE EAST OF SERPA AVENUE, 3 MILES WEST OF DIXON.
Location Detail: RESSEGUIE'S ALLENDALE 57. NEST IS LOCATED AT THE 95% HEIGHT OF A TREE WITHIN A DOUBLE ROW OF DECIDUOUS TREES.
Ecological: NEST TREE IS AN EXOTIC (CHINESE ELM OR BOX ELDER).
General: NEST MONITORED 25 MAR-29 JUL 2004; SWHA OBSERVED ON NEST, 14 APR-9 JUN 2004, BUT BY 16 JUL 2004, TREES HAD BEEN DEFOLIATED BY A BEETLE INFESTATION AND THE NEST WAS DESERTED. INACTIVE IN 2005.
Owner/Manager: PVT

Occurrence No. 1322 **Map Index:** 56449 **EO Index:** 56465 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2004-07-29
Origin: Natural/Native occurrence **Site:** 2005-07-26
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-21

Quad Summary: Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.45760° / -121.90104° **Township:** 07N
UTM: Zone-10 N4257160 E595883 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 18 **Qtr:** NE
Elevation: 90 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH OF SILVEYVILLE ROAD, 0.75 MILE EAST OF MERIDIAN ROAD, 4 MILES WEST OF DIXON.
Location Detail: RESSEGUIE'S ALLENDALE 59. NEST IS LOCATED AT THE 90% HEIGHT OF A WILLOW ON A SMALL DITCH BANK.
Ecological: NEST TREE IS A SMALL, ISOLATED WILLOW; ALFALFA LOCATED TO THE WEST AND PASTURE TO THE EAST.
General: NEST MONITORED 13 APR-29 JUL 2004; 3 YOUNG FLEDGED. INACTIVE IN 2005.
Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

_____ **Status** _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

_____ **Habitat Associations** _____

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1323 **Map Index:** 56450 **EO Index:** 56466 **Dates Last Seen**
Occ Rank: Excellent **Element:** 2005-07-20
Origin: Natural/Native occurrence **Site:** 2005-07-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-21

Quad Summary: Dixon (3812147/498A), Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.47236° / -121.87687° **Township:** 07N
UTM: Zone-10 N4258824 E597972 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 09 **Qtr:** NW
Elevation: 85 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH OF THISSELL ROAD, 0.95 MILE WEST OF SCHROEDER ROAD, 3 MILES NW OF DIXON.
Location Detail: RESSEGUIE'S ALLENDALE 60. NEST IS LOCATED AT THE 90% HEIGHT OF THE NORTHMOST OF 3 BLUE GUMS EAST OF THE SMALLER, SOUTHERN HOUSE, ~300 METERS SOUTH OF THE ROAD.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED TO THE EAST BY CULTIVATED LAND AND TO THE WEST BY A NORTH-SOUTH IRRIGATION DITCH, THEN AN IMMENSE ALFALFA FIELD.
General: NEST MONITORED 13 APR-12 AUG 2004; 1 FLEDGED. NEST MONITORED 16 APR-20 JUL 2005; 1 FLEDGED.
Owner/Manager: PVT

Occurrence No. 1324 **Map Index:** 56451 **EO Index:** 56467 **Dates Last Seen**
Occ Rank: Excellent **Element:** 2005-07-30
Origin: Natural/Native occurrence **Site:** 2005-07-30
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-17

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.39688° / -121.73187° **Township:** 06N
UTM: Zone-10 N4250612 E610736 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 03 **Qtr:** NE
Elevation: 25 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.2 MILE NORTH OF THE INTERSECTION OF TREFOIL ROAD AND ETZEL ROAD, 5.5 MILES SE OF DIXON.
Location Detail: RESSEGUIE'S SAXON 14. 2004 NEST LOCATED AT THE 80% HEIGHT OF A LOCUST IN THE SE CORNER OF A GROVE OF TREES. 2005 NEST WAS LOCATED IN A WALNUT IN THE SE PART OF THE GROVE.
Ecological: NEST TREE IS A LOCUST; SURROUNDED BY CULTIVATED LAND TO THE WEST, ALFALFA CLOSE, THEN PASTURE
General: SITE SUSPECTED IN 2001, BUT NOT CONFIRMED. NEST MONITORED 18 MAR-5 AUG 2004; 1 FLEDGED. NEST MONITORED 30 MAR-30 JUL 2005; 1 ADVANCED DEAD CHICK FOUND BELOW NEST AND 1 FLEDGED.
Owner/Manager: PVT

Occurrence No. 1325 **Map Index:** 56452 **EO Index:** 56468 **Dates Last Seen**
Occ Rank: Good **Element:** 2005-08-21
Origin: Natural/Native occurrence **Site:** 2005-08-21
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-16

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.41371° / -121.73993° **Township:** 07N
UTM: Zone-10 N4252471 E610008 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 34 **Qtr:** NW
Elevation: 30 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.2 MILE SOUTH OF MIDWAY ROAD, 0.5 MILE EAST OF SIKES ROAD, 5 MILES SE OF DIXON.
Location Detail: RESSEGUIE'S SAXON 21. 2004 NEST TREE LOCATED WITHIN A CLUMP OF TREES ALONG A PRIVATE DIRT ROAD. NEST/BIRDS DIFFICULT TO SEE.
Ecological: NEST TREE IS A LOCUST; SUNFLOWERS GROWING TO THE WEST AND A HARVESTED WHEAT FIELD TO THE EAST.
General: SITE OCCUPIED BY RTHA IN 2001. PROBABLY UNOCCUPIED IN 2002. NEST MONITORED 18 MAR-5 AUG 2004; 1 FLEDGED. NEST MONITORED 23 APR-21 AUG 2005; POSSIBLE MISSED FLEDGLING.
Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

_____ **Status** _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

_____ **Habitat Associations** _____

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1326 **Map Index:** 56454 **EO Index:** 56470 **Dates Last Seen**
Occ Rank: Excellent **Element:** 2005-07-29
Origin: Natural/Native occurrence **Site:** 2005-07-29
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-17

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.44835° / -121.74626° **Township:** 07N
UTM: Zone-10 N4256307 E609403 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 15 **Qtr:** SW
Elevation: 40 ft **Symbol Type:**POINT **Meridian:** M

Location: EAST OF SIKES ROAD, 0.25 MILE SOUTH OF HACKMAN ROAD, 4 MILES EAST OF DIXON.

Location Detail: RESSEGUIE'S SAXON 29. 2004 NEST LOCATED AT THE 80% HEIGHT OF THE SECOND TREE FROM THE WEST (A LOCUST), NORTH OF THE DRIVEWAY OF A LARGE FARMSTEAD AT 7890 SIKES ROAD (NEST VIEWED FROM ENE OF NEST TREE, NOT FROM THE ROAD).

Ecological: NEST TREE IS A LOCUST; CULTIVATED LAND IN ALL DIRECTIONS.

General: NEST MONITORED 18 MAR-13 JUL 2004; 2 FLEDGED. NEST MONITORED 1 MAR-29 JUL 2005; 2 FLEDGED.

Owner/Manager: PVT

Occurrence No. 1327 **Map Index:** 56458 **EO Index:** 56474 **Dates Last Seen**
Occ Rank: Excellent **Element:** 2005-05-09
Origin: Natural/Native occurrence **Site:** 2005-08-10
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-17

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.48784° / -121.72292° **Township:** 07N
UTM: Zone-10 N4260717 E611379 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 02 **Qtr:** NE
Elevation: 35 ft **Symbol Type:**POINT **Meridian:** M

Location: EAST SIDE OF BULKLEY ROAD, 0.5 MILE SOUTH OF TREMONT ROAD, 6 MILES NE OF DIXON.

Location Detail: RESSEGUIE'S SAXON 30. 2004 NEST LOCATED AT THE 90% HEIGHT, ON THE EAST SIDE, OF A RAGGED COTTONWOOD (EASTMOST OF THE LARGER TREES ON THE NORTH EDGE OF THE FARMSTEAD).

Ecological: NEST TREE IS A COTTONWOOD; SURROUNDED BY ALFALFA TO THE WEST, NORTH, AND SOUTH.

General: NEST MONITORED 7 APR-5 AUG 2004; 1 FLEDGED. NEST MONITORED 22 APR-10 AUG 2005; INCUBATION OBSERVED ON 9 MAY, BUT NO FURTHER SIGHTINGS.

Owner/Manager: PVT

Occurrence No. 1328 **Map Index:** 56459 **EO Index:** 56475 **Dates Last Seen**
Occ Rank: Good **Element:** 2004-08-20
Origin: Natural/Native occurrence **Site:** 2004-08-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-17

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.40147° / -121.72100° **Township:** 06N
UTM: Zone-10 N4251135 E611679 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 02 **Qtr:** NE
Elevation: 25 ft **Symbol Type:**POINT **Meridian:** M

Location: JUST SE OF THE INTERSECTION OF BULKLEY ROAD AND KING ROAD, 6 MILES SE OF DIXON.

Location Detail: RESSEGUIE'S SAXON 31. 2004 NEST DIFFICULT TO SEE.

Ecological: NEST TREE IS A PINE.

General: NEST MONITORED 12 APR-20 AUG 2004; ADULTS SEEN, FLEDGING OUTCOME UNKNOWN. INACTIVE IN 2005.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

_____ Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G5
 State: Threatened State: S2 CDFG Status:

_____ Habitat Associations _____

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
 Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1329 Map Index: 56460 EO Index: 56476 _____ Dates Last Seen _____
 Occ Rank: Good Element: 2005-07-16
 Origin: Natural/Native occurrence Site: 2005-07-16
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-07-17

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.47411° / -121.70446° Township: 07N
 UTM: Zone-10 N4259216 E613010 Range: 02E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 12 Qtr: SW
 Elevation: 30 ft Symbol Type: POINT Meridian: M

Location: SOUTH SIDE OF MAXWELL ROAD, 0.8 MILE EAST OF BULKLEY ROAD, 6 MILES ENE OF DIXON.
 Location Detail: RESSEGUIE'S SAXON 33. 2004 NEST LOCATED IN AN ELM AT THE SE CORNER OF THE HOUSE AT 8292 MAXWELL ROAD. 2005 NEST LOCATED IN A DEODAR CEDAR BETWEEN THE HOUSE AND THE ROAD.
 Ecological: NEST TREE IS A DEODAR CEDAR
 General: NEST MONITORED 17 MAY-10 AUG 2004; 3 YOUNG FLEDGED. NEST MONITORED 11 APR-16 JUL 2005; 2 FLEDGED.
 Owner/Manager: PVT

Occurrence No. 1330 Map Index: 56461 EO Index: 56477 _____ Dates Last Seen _____
 Occ Rank: Good Element: 2004-08-12
 Origin: Natural/Native occurrence Site: 2004-08-12
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2004-08-24

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.48463° / -121.69861° Township: 07N
 UTM: Zone-10 N4260391 E613504 Range: 02E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 01 Qtr: NE
 Elevation: 25 ft Symbol Type: POINT Meridian: M

Location: SW OF THE INTERSECTION OF ROAD 36 AND THE WEST END OF MACE ROAD (HWY 104), 7 MILES ENE OF DIXON.
 Location Detail: RESSEGUIE'S SAXON 34. 2004 NEST TREE IS THE EASTMOST BLUE GUM EUCALYPTUS IN A ROW.
 Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY RUDERAL NORTH TO A FARMSTEAD AND CULTIVATED LAND TO THE SOUTH.
 General: INADEQUATE OBSERVATION DUE TO DIFFICULTY GAINING ACCESS IN 2004. NEST MONITORED 19 MAY-12 AUG 2004; ON 19 MAY, ADULT DEFENDED NEST AND BEGGING CALLS WERE HEARD FROM THE NEXT TREE.
 Owner/Manager: UNKNOWN

Occurrence No. 1331 Map Index: 56474 EO Index: 56490 _____ Dates Last Seen _____
 Occ Rank: Fair Element: 2005-04-12
 Origin: Natural/Native occurrence Site: 2005-07-16
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-07-17

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.49541° / -121.73128° Township: 08N
 UTM: Zone-10 N4261547 E610638 Range: 02E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 35 Qtr: NW
 Elevation: 40 ft Symbol Type: POINT Meridian: M

Location: NORTH SIDE OF TREMONT ROAD, JUST EAST OF EGGERT ROAD, 6 MILES NE OF DIXON.
 Location Detail: RESSEGUIE'S SAXON 35. SITE IS LOCATED AT 8752 EGGERT ROAD, WHERE A NEW HOUSE WAS UNDER CONSTRUCTION IN 2004. NEST TREE WAS A EUCALYPTUS.
 Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY A NEW ALMOND ORCHARD TO THE SOUTH AND EAST AND A WALNUT ORCHARD, JUST BEGINNING PRODUCTION, TO THE NORTH.
 General: NEST SITE MONITORED 19 MAY-17 AUG 2004; ADULTS CONSISTENTLY PRESENT FROM 30 MAY-13 AUG, BUT NEST COULD NOT BE FOUND (NESTING PRESUMED). NEST MONITORED 12 APR-16 JUL 2005; NEST-BUILDING OBSERVED ON 12 APR, BUT NO LATER SIGHTINGS.
 Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

_____ Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G5 CDFG Status:
 State: Threatened State: S2

_____ Habitat Associations _____

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1332 Map Index: 56475 EO Index: 56491 _____ Dates Last Seen _____
 Occ Rank: Good Element: 2005-07-04
 Origin: Natural/Native occurrence Site: 2005-08-11
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-07-17

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.47425° / -121.71807° Township: 07N
 UTM: Zone-10 N4259215 E611823 Range: 02E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 11 Qtr: SE
 Elevation: 30 ft Symbol Type: POINT Meridian: M

Location: NORTH SIDE OF MAXWELL ROAD, 0.15 MILE EAST OF BULKLEY ROAD, 6 MILES ENE OF DIXON.
Location Detail: RESSEGUIE'S SAXON 36. SITE IS LOCATED AT A FARMSTEAD AT 8093 MAXWELL ROAD. 2004 NEST LOCATED AT THE 90% HEIGHT, ON THE SOUTH SIDE, OF THE SOUTHMOST RED GUM EUCALYPTUS WITHIN A NORTH-SOUTH ROW.

Ecological: NEST TREE IS A RED GUM EUCALYPTUS.

General: NEST SITE MONITORED 5 AUG-10 AUG 2004; 1 YOUNG FLEDGED. NEST MONITORED 22 APR-11 AUG 2005; 1 LARGE CHICK SEEN ON 4 JUL, BUT NO FLEDGLING DETECTED.

Owner/Manager: PVT

Occurrence No. 1333 Map Index: 56545 EO Index: 56561 _____ Dates Last Seen _____
 Occ Rank: Fair Element: 2004-07-24
 Origin: Natural/Native occurrence Site: 2004-07-24
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2004-08-30

Quad Summary: Birds Landing (3812127/481A)

County Summary: Solano

Lat/Long: 38.22204° / -121.84225° Township: 04N
 UTM: Zone-10 N4231084 E601341 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 02 Qtr: XX
 Elevation: 60 ft Symbol Type: POINT Meridian: M

Location: EAST SIDE OF GOOSEHAVEN ROAD, 0.15 MILE NORTH OF LAMBIE ROAD, 2 MILES NE OF RIO VISTA JUNCTION.
Location Detail: RESSEGUIE'S BIRDS LANDING 8. 2004 NEST WAS LOCATED AT THE 2/3 HEIGHT, ON THE NE SIDE OF A BIG, SPRAWLING EUCALYPTUS ON THE EAST SHOULDER OF GOOSEHAVEN ROAD (THE FIRST TREE EAST OF THE DOUBLE TREE AT THE FENCE).

Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY PASTURE.

General: NEST SITE MONITORED 14 MAY-24 JUL 2004; INADEQUATELY OBSERVED TO DETERMINE NEST SUCCESS.

Owner/Manager: UNKNOWN

Occurrence No. 1368 Map Index: 56864 EO Index: 56880 _____ Dates Last Seen _____
 Occ Rank: Excellent Element: 2005-07-29
 Origin: Natural/Native occurrence Site: 2005-07-29
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-08-22

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.48727° / -121.67751° Township: 07N
 UTM: Zone-10 N4260709 E615340 Range: 03E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 06 Qtr: XX
 Elevation: 25 ft Symbol Type: POINT Meridian: M

Location: JUST SW OF THE INTERSECTION OF ROAD 105 AND ROAD 36, 5 MILES SE OF DAVIS.
Location Detail: RESSEGUIE'S SAXON 17.5. THIS SITE WAS TYPICALLY A RTHA NEST SITE IN PREVIOUS YEARS. 2004 SWHA NEST TREE WAS A HUGE BLUE GUM IN THE SW QUADRANT, JUST INSIDE THE FENCE OF THE MIGRANT LABOR CAMP PROPERTY.

Ecological: NEST TREE WAS A BLUE GUM EUCALYPTUS; SURROUNDED BY A WASTEWATER DISPOSAL AREA TO THE SW, THEN ALFALFA, RUDERAL TO THE NORTH, AND ALFALFA TO THE NE AND SE.

General: THIS WAS A RTHA NEST SITE PRIOR TO 2004. NEST MONITORED 5 MAR-28 JUL 2004; 1 YOUNG FLEDGED. NEST MONITORED 22 FEB-29 JUL 2005; 1 FLEDGED.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1372 **Map Index:** 57005 **EO Index:** 57021 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2004-05-XX
Origin: Natural/Native occurrence **Site:** 2004-05-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2004-09-27

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.20933° / -122.12513° **Township:** 04N
UTM: Zone-10 N4229403 E576592 **Range:** 02W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 07 **Qtr:** XX
Elevation: 3 ft **Symbol Type:**POINT **Meridian:** M

Location: ALONG CORDELIA SLOUGH, 0.8 MILE SE OF THE JUNCTION OF I-80 AND I-680, EAST OF CORDELIA.

Ecological: NEST TREE IS LOCATED WITHIN THE RIPARIAN AREA ALONG CORDELIA SLOUGH; SURROUNDED BY GRAZED ANNUAL GRASSLAND.

General: 2 ADULTS AND 1 JUVENILE OBSERVED AT THE NEST DURING MAY 2004.

Owner/Manager: PVT

Occurrence No. 1377 **Map Index:** 57350 **EO Index:** 57366 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-08-06
Origin: Natural/Native occurrence **Site:** 2005-08-06
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2006-04-20

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.41634° / -121.79538° **Township:** 07N
UTM: Zone-10 N4252697 E605162 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 31 **Qtr:** NW
Elevation: 45 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF MIDWAY ROAD, 0.5 MILE EAST OF PEDRICK ROAD, 2.5 MILES SE OF DIXON

Location Detail: NEST TREE WAS LOCATED ON THE WEST SIDE OF THE DRIVEWAY AT 6972 MIDWAY ROAD, WITHIN A ROW OF MAINLY PINES, BUT ALSO OLIVES. PARTIAL NEST WAS AT THE 90% HEIGHT OF THE NORTHMOST PINE.

Ecological: NEST TREE WAS A PINE; SURROUNDED BY ALFALFA TO THE NORTH, CULTIVATED LAND TO THE WEST, AND PASTURE TO THE EAST.

General: NEST MONITORED 11 MAY-15 AUG 2004; SWHA CUTTING A TWIG AND BUILDING/REPAIRING NEST ON 11 MAY 2004. NO NEST VISIBLE ON 29 JUL, 5 AUG, AND 10 AUG 2004, BUT PERCHED ADULTS WERE PRESENT. NEST MONITORED 24 APR-6 AUG 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No. 1378 **Map Index:** 57354 **EO Index:** 57370 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2004-08-06
Origin: Natural/Native occurrence **Site:** 2005-05-11
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2006-04-20

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.41943° / -121.78170° **Township:** 07N
UTM: Zone-10 N4253056 E606352 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 29 **Qtr:** SW
Elevation: 40 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.2 MILE NORTH OF MIDWAY ROAD AND 0.2 MILE EAST OF ROBBEN ROAD, 2.7 MILES SE OF DIXON

Location Detail: 2004 NEST IS LOCATED AT THE 2/3 HEIGHT, ON THE WEST SIDE, OF A BLACK WALNUT, THE LARGEST TREE ON THE SITE, LOCATED WEST OF THE HOUSE.

Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY CULTIVATED LAND IN ALL DIRECTIONS.

General: NEST MONITORED 19 MAR-6 AUG 2004; 1 YOUNG FLEDGED. NEST SITE MONITORED 23 APR-11 MAY 2005; GHOW OCCUPYING NEST.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1379 **Map Index:** 57391 **EO Index:** 57407 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-11
Origin: Natural/Native occurrence **Site:** 2005-08-11
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2006-04-20

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.49550° / -121.77394° **Township:** 08N
UTM: Zone-10 N4261506 E606917 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 32 **Qtr:** NE
Elevation: 50 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF TREMONT ROAD, 0.3 MILE WEST OF RUNGE ROAD, 4 MILES NE OF DIXON
Location Detail:2004 NEST LOCATED ON THE EAST SIDE OF THE WEST OF TWO PALMS, AT THE BASE OF THE LIVE LEAVES. 2005 NEST WAS A BLACK WALNUT BETWEEN THE NEW HOUSE AND THE OCCUPIED MOBILE HOME.
Ecological: NEST TREE WAS A BLACK WALNUT; NEW HOUSE CONSTRUCTION WAS COMPLETE BEFORE 1 MAR 2004, WHEN THE SWHA BEGIN ARRIVING.
General: THIS SITE WAS SUSPECTED AS A NEST SITE IN PRIOR YEARS BUT NEVER CONFIRMED. NEST WITH 1 DOWNY CHICK OBSERVED ON 22 MAY 2002. NEST MONITORED 19 MAR-2 AUG 2004; 1 FLEDGED, PLUS 1 UNHATCHED EGG. NEST MONITORED 1 APR-11 AUG 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No. 1380 **Map Index:** 57393 **EO Index:** 57409 **Dates Last Seen** _____
Occ Rank: Poor **Element:** 2005-06-04
Origin: Natural/Native occurrence **Site:** 2005-00-80
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2006-04-20

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.48896° / -121.83882° **Township:** 07N
UTM: Zone-10 N4260707 E601268 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 02 **Qtr:** NW
Elevation: 70 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF SIEVERS ROAD, 0.1 MILE EAST OF PITT SCHOOL ROAD, 2.5 MILES NNE OF DIXON
Location Detail:2004 NEST LOCATED IN THE THIRD ALMOND FROM THE NORTH, IN THE FIRST ROW WEST OF THE NORTH SHOULDER CROSSROAD WARNING SIGN.
Ecological: NEST TREE WAS AN ALMOND; SURROUNDED BY CULTIVATED LAND NORTH OF ROAD.
General: SITE SUSPECTED IN 2001, BUT NOT CONFIRMED. NO OBSERVATIONS IN 2002. NEST MONITORED 24 APR-12 AUG 2004; INADEQUATE OBSERVATIONS TO DETERMINE NEST SUCCESS. NEST MONITORED 31 MAR-1 AUG 2005; INCUBATION ON 4 JUN, BUT NONE FLEDGED.

Owner/Manager: PVT

Occurrence No. 1381 **Map Index:** 57395 **EO Index:** 57411 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-13
Origin: Natural/Native occurrence **Site:** 2005-08-13
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2006-04-20

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.41671° / -121.85712° **Township:** 07N
UTM: Zone-10 N4252670 E599772 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 34 **Qtr:** NW
Elevation: 60 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF MIDWAY ROAD, 0.15 MILE EAST OF BATAVIA ROAD, 2.5 MILES SW OF DIXON
Location Detail:2004 NEST LOCATED AT THE 85% HEIGHT OF THE NEST TREE, NEAR THE MIDDLE OF THE ROW.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY CULTIVATED LAND TO THE NORTH AND SOUTH.
General: SITE SUSPECTED IN 2002, BUT NOT CONFIRMED. NEST MONITORED 21 MAR-18 JUL 2004; 2 YOUNG FLEDGED. NEST MONITORED 18 APR-13 AUG 2005; 1 FLEDGED.

Owner/Manager: UNKNOWN

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

_____ Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G5 CDFG Status:
 State: Threatened State: S2

_____ Habitat Associations _____

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1382 Map Index: 57396 EO Index: 57412 _____ Dates Last Seen _____
 Occ Rank: Good Element: 2005-07-19
 Origin: Natural/Native occurrence Site: 2005-07-19
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-04-20

Quad Summary: Dixon (3812147/498A)
 County Summary: Solano

Lat/Long: 38.48938° / -121.87301° Township: 07N
 UTM: Zone-10 N4260717 E598286 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 04 Qtr: NW
 Elevation: 85 ft Symbol Type: POINT Meridian: M

Location: SOUTH SIDE OF SIEVERS ROAD, 1 MILE WEST OF STEVENSON BRIDGE ROAD, 3 MILES NW OF DIXON
Location Detail: 2004 NEST WAS LOCATED AT THE 95% HEIGHT, ON THE WEST SIDE, OF THE WESTERN OF TWO SOUTH SHOULDER DECIDUOUS TREES.
Ecological: NEST TREE WAS A BLACK WALNUT; SURROUNDED BY COMPLEX CULTIVATION TO THE NORTH AND ALFALFA TO THE NE.
General: NEST MONITORED 11 MAR-16 JUL 2004; 1 YOUNG FLEDGED. NEST MONITORED 17 MAR-19 JUL 2005; 2 FLEDGED.
Owner/Manager: UNKNOWN

Occurrence No. 1383 Map Index: 57398 EO Index: 57414 _____ Dates Last Seen _____
 Occ Rank: Good Element: 2004-07-18
 Origin: Natural/Native occurrence Site: 2005-07-21
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-04-20

Quad Summary: Dixon (3812147/498A)
 County Summary: Solano

Lat/Long: 38.49163° / -121.78694° Township: 08N
 UTM: Zone-10 N4261062 E605790 Range: 02E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 32 Qtr: NW
 Elevation: 85 ft Symbol Type: POINT Meridian: M

Location: EAST SIDE OF ROBBEN ROAD, 0.3 MILE SOUTH OF TREMONT ROAD, 3.5 MILES NE OF DIXON
Location Detail: 2004 NEST LOCATED AT THE 90% HEIGHT, ON THE SW LOBE, OF THE NE CORNER TREE.
Ecological: NEST TREE IS A LOCUST; RUDERAL LAND IN THE FARMSTEAD AREA, SURROUNDED IN ALL DIRECTIONS BY CULTIVATED LAND.
General: NEST MONITORED 20 MAR-17 JUL 2004; 1 YOUNG FLEDGED. NEST SITE MONITORED 17 MAR-21 JUL 2005; SINGLE ADULT SIGHTING ON 17 MAR.
Owner/Manager: PVT

Occurrence No. 1384 Map Index: 57402 EO Index: 57418 _____ Dates Last Seen _____
 Occ Rank: Fair Element: 2005-08-12
 Origin: Natural/Native occurrence Site: 2005-08-12
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-04-20

Quad Summary: Dixon (3812147/498A)
 County Summary: Solano

Lat/Long: 38.46120° / -121.82191° Township: 07N
 UTM: Zone-10 N4257645 E602783 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 12 Qtr: SW
 Elevation: 65 ft Symbol Type: POINT Meridian: M

Location: EAST SIDE OF FIRST STREET (HIGHWAY 113), 0.4 MILE SOUTH OF VAUGHN, DIXON
Location Detail: 2004 NEST TREE LOCATED ADJACENT TO A BOARDED-UP HOUSE, OPPOSITE THE NORTH END OF ACE HARDWARE. 2004 NEST LOCATED AT THE 85% HEIGHT, ON THE EAST TRUNK, OF THE LARGEST DECIDUOUS TREE AT THE BACK OF THE HOUSE.
Ecological: NEST TREE IS DECIDUOUS; SURROUNDED BY ENCROACHING COMMERCIAL DEVELOPMENT.
Threat: THREATENED BY IMMINENT COMMERCIAL DEVELOPMENT.
General: NEST MONITORED 19 APR-10 AUG 2004; FIRST SEEN ON 19 APR 2004, AND ADULT SITTING TIGHT ON NEST ON 17 JUN 2004. NO SWHA OBSERVED THEREAFTER ; OUTCOME UNKNOWN. NEST MONITORED 4 FEB-12 AUG 2005; 2 FLEDGED.
Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1385 **Map Index:** 57403 **EO Index:** 57419 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-04
Origin: Natural/Native occurrence **Site:** 2005-08-04
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2006-04-20

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.47092° / -121.76534° **Township:** 07N
UTM: Zone-10 N4258789 E607704 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 09 **Qtr:** NW
Elevation: 50 ft **Symbol Type:**POINT **Meridian:** M

Location: EAST SIDE OF RUNGE ROAD, 0.2 MILE NORTH OF VAUGHN ROAD, 3.2 MILES ENE OF DIXON
Location Detail:2004 NEST TREE LOCATED AT THE 95% HEIGHT OF THE WESTMOST OF 3 BLACK WALNUTS, ON THE WEST EDGE OF A COMPLEX, JUST NORTH OF THE DRIVEWAY.
Ecological: NEST TREE WAS A BLACK WALNUT; SURROUNDED BY CULTIVATED LAND IN ALL DIRECTIONS.
General: NEST MONITORED 15 MAY-12 AUG 2004; FIRST SEEN ON 15 MAY 2004, AND ADULT SITTING TIGHT ON NEST ON 17 JUN 2004 (OUTCOME UNKNOWN). NEST MONITORED 24 APR-4 AUG 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No. 1386 **Map Index:** 57405 **EO Index:** 57421 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2004-07-28
Origin: Natural/Native occurrence **Site:** 2005-07-11
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-03

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25771° / -121.82715° **Township:** 05N
UTM: Zone-10 N4235060 E602612 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 23 **Qtr:** SE
Elevation: 15 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH END OF COOK LANE, JEPSON PRAIRIE PRESERVE, 6 MILES EAST OF TRAVIS FIELD.
Location Detail:2004 NEST TREE WAS ONE OF THE EUCALYPTUS TREES WEST OF THE BARN; NEST WAS AT THE 75% HEIGHT OF ONE OF THE FIRST TREES WEST OF THE BARN.
Ecological: 2004 NEST TREE IS A EUCALYPTUS; SURROUNDED BY SHEEP PENS (SHEEP/HERDERS USUALLY NOT PRESENT DURING NESTING).
General: NESTING SUSPECTED IN 2000; NOTHING FOUND IN 2001-2002, WHEN ACCESS WAS ALLOWED. NEST MONITORED 23 APR-28 JUL 2004; 1 YOUNG FLEDGED. RTHA NESTED AT THIS SITE IN 2005.

Owner/Manager: SOLANO LAND TRUST

Occurrence No. 1387 **Map Index:** 57492 **EO Index:** 57508 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-07-22
Origin: Natural/Native occurrence **Site:** 2005-07-22
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-03

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.37341° / -121.86957° **Township:** 06N
UTM: Zone-10 N4247852 E598744 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 16 **Qtr:** SW
Elevation: 55 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.5 EAST OF FOX ROAD, 1.9 MILES SOUTH OF WEBER ROAD, 5.5 MILES SSW OF DIXON.
Location Detail:2004-2005 NEST TREE LOCATED ON THE NORTH SIDE OF A PRIVATE DIRT ROAD; 2004 NEST WAS LOCATED AT THE 90% HEIGHT OF A WILLOW.
Ecological: NEST TREE WAS A WILLOW; SURROUNDED BY RUDERAL JUST SOUTH AND CULTIVATED ALL AROUND.
General: PROBABLE UNSUCCESSFUL NEST IN 2001(BASED ON ACCOUNT BY FARMER). NEST SITE MONITORED 18 APR-24 JUL 2004; NEST OCCUPIED ON 18 APR 2004, BUT THE NEST BLEW OUT BEFORE 24 MAY 2004. NEST MONITORED 18 APR-22 JUL 2005; 1 FLEDGED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

----- Status ----- NDDB Element Ranks ----- Other Lists -----
 Federal: None Global: G5 CDFG Status:
 State: Threatened State: S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
 Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1388 Map Index: 57493 EO Index: 57509 ----- Dates Last Seen -----
 Occ Rank: Good Element: 2004-08-10
 Origin: Natural/Native occurrence Site: 2005-08-11
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-07-03

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.35494° / -121.80448° Township: 06N
 UTM: Zone-10 N4245874 E604457 Range: 02E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 19 Qtr: NW
 Elevation: 30 ft Symbol Type: POINT Meridian: M

Location: EAST SIDE OF PEDRICK ROAD, 0.25 MILE NORTH OF BINGHAMPTON ROAD, 6 MILES SOUTH OF DIXON.
 Location Detail: 2004 NEST LOCATED AT THE 90% HEIGHT, ON THE NE TOP, OF A RAGGED BLUE GUM EUCALYPTUS IN THE YARD OF THE RESIDENCE AT 6188 PEDRICK ROAD.
 Ecological: 2004 NEST TREE WAS A EUCALYPTUS; SURROUNDED BY CULTIVATED LAND EAST OF THE TWO LARGE FARMSTEADS AND PASTURE WEST OF THE ROAD.
 General: THIS SITE WAS OCCUPIED BY RTHA IN PAST YEARS. NEST MONITORED 11 APR-10 AUG 2004; 1 FLEDGED. NEST SITE MONITORED 13 APR-11 AUG 2005; ADULTS OBSERVED ON 13 & 24 APR, BUT NO NEST FOUND.

Owner/Manager: UNKNOWN

Occurrence No. 1389 Map Index: 57496 EO Index: 57512 ----- Dates Last Seen -----
 Occ Rank: Fair Element: 2005-05-01
 Origin: Natural/Native occurrence Site: 2005-08-14
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-07-03

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.30056° / -121.82435° Township: 05N
 UTM: Zone-10 N4239817 E602797 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 02 Qtr: SE
 Elevation: 20 ft Symbol Type: POINT Meridian: M

Location: WEST SIDE OF HIGHWAY 113, 0.5 MILE SOUTH OF BROWN ROAD, 6 MILES ENE OF TRAVIS FIELD.
 Location Detail: 2004 NEST LOCATED IN THE SECOND CLUMP OF TREES (AN IRREGULARLY SPACED, STAGGERED LINE OF BLUE GUMS) WEST OF THE ROAD.
 Ecological: 2004 NEST TREE WAS A EUCALYPTUS; SURROUNDED BY PASTURE.
 General: ACTIVE NEST MONITORED 23 APR-10 AUG 2004; SWHA DISAPPEARED AFTER 28 MAY 2004. NEST MONITORED 13 APR-14 AUG 2005; NEST-BUILDING ON 13 APR, BUT NO SIGHTINGS AFTER 1 MAY 2005.

Owner/Manager: PVT

Occurrence No. 1390 Map Index: 57506 EO Index: 57522 ----- Dates Last Seen -----
 Occ Rank: Good Element: 2005-08-03
 Origin: Natural/Native occurrence Site: 2005-08-03
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-06-27

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.36234° / -121.89756° Township: 06N
 UTM: Zone-10 N4246594 E596314 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 18 Qtr: SE
 Elevation: 60 ft Symbol Type: POINT Meridian: M

Location: WEST SIDE OF LEWIS ROAD, JUST SOUTH OF THE RAILROAD TRACKS, 0.2 MILE NORTH OF HAWKINS ROAD, 4.5 MILES EAST OF VACAVILLE
 Location Detail: 2004 NEST LOCATED AT THE 90% HEIGHT, ON THE EAST SIDE OF THE TALLEST TREE.
 Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY CULTIVATED LAND TO THE SOUTH AND EAST AND TUNA (CACTUS FRUIT) FARM TO THE NE.
 General: NEST MONITORED 18 APR-12 AUG 2004; 1 FLEDGED. NEST MONITORED 1 APR-3 AUG 2005; 1 FLEDGED, PLUS 1 FOUND DEAD UNDER NEST ON 3 AUG 2005.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status ----- **NDDB Element Ranks** ----- **Other Lists** -----
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations -----

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1391 **Map Index:** 57508 **EO Index:** 57524 **----- Dates Last Seen -----**
Occ Rank: Excellent **Element:** 2005-06-08
Origin: Natural/Native occurrence **Site:** 2005-08-03
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-27

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.36700° / -121.90656° **Township:** 06N
UTM: Zone-10 N4247102 E595521 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 18 **Qtr:** NW
Elevation: 70 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF BYRNES ROAD, 0.5 MILE NORTH OF HAWKINS ROAD, 4.5 MILES EAST OF VACAVILLE.
Location Detail:2004 NEST LOCATED AT THE 75% HEIGHT OF A RAGGED BLUE GUM, NORTH OF THE BARN.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; ALFALFA TO THE WEST AND NORTH. TO THE EAST THERE IS MIXED RUDERAL, A RESIDENCE, AND AN ABANDONED ORCHARD WITH SMALL TREES.
General: NEST MONITORED 3 MAY-22 JUL 2004; SWHA INCUBATING ON 4 MAY 2004, BUT OUTCOME UNKNOWN. NEST MONITORED 2 MAY-3 AUG 2005; ADULT DEFENDED NEST TREE ON 8 JUN, AND FLEDGLING (ORIGIN UNKNOWN) PERCHED IN ORCHARD ACROSS ROAD ON 11 JUL 2005.

Owner/Manager: PVT

Occurrence No. 1419 **Map Index:** 58624 **EO Index:** 58660 **----- Dates Last Seen -----**
Occ Rank: Fair **Element:** 2004-08-15
Origin: Natural/Native occurrence **Site:** 2005-08-22
Presence: Presumed Extant
Trend: Increasing **Record Last Updated:** 2006-04-20

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.45891° / -121.85915° **Township:** 07N
UTM: Zone-10 N4257351 E599537 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 15 **Qtr:** NW
Elevation: 75 ft **Symbol Type:**POINT **Meridian:** M

Location: EAST SIDE OF SCHROEDER ROAD, 0.1 MILE SOUTH OF THE JUNCTION OF SCHROEDER ROAD & SILVEYVILLE ROAD, 1.5 MILES NW OF DIXON
Location Detail:2004 NEST LOCATED AT THE 90% HEIGHT OF THE NEST TREE.
Ecological: NEST TREE WAS AN AILANTHUS, WITHIN A NORTH-SOUTH ROW OF 3 CLOSELY-SPACED AILANTHUS TREES.
General: SUSPECTED AS A NEST SITE IN 2002, BUT NOT CONFIRMED. NEST MONITORED 22 MAR-15 AUG 2004; 2 FLEDGED. NEST SITE MONITORED 17 MAR-22 AUG; ADULTS PRESENT ON 5 OF 13 VISITS, BUT NO NEST OR CHICKS EVER SEEN.

Owner/Manager: UNKNOWN

Occurrence No. 1433 **Map Index:** 62139 **EO Index:** 62175 **----- Dates Last Seen -----**
Occ Rank: Fair **Element:** 2005-07-18
Origin: Natural/Native occurrence **Site:** 2005-08-25
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-27

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.31279° / -121.94277° **Township:** 05N
UTM: Zone-10 N4241049 E592427 **Range:** 01W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 02 **Qtr:** NE
Elevation: 100 ft **Symbol Type:**POINT **Meridian:** M

Location: BETWEEN VANDEN ROAD AND THE RAILROAD TRACKS, 2.5 MILES NORTH OF TRAVIS FIELD.
Location Detail:NEST TREE IS LOCATED ON SE CORNER OF THE PROPERTY AT 5424 VANDEN ROAD. NEST WAS LOCATED AT THE 70% HEIGHT OF THE NEST TREE.
Ecological: NEST TREE WAS A 30' TALL EUCALYPTUS ALONG A FENCE ROW OF A PRIVATE RESIDENCE; SURROUNDED BY A MIX OF GRASSLAND TO THE WEST AND SOUTH AND IRRIGATED AGRICULTURE TO THE EAST.
Threat: FORAGING HABITAT THREATENED BY DEVELOPMENT TO THE NORTH.
General: ADULT OBSERVED AT THE NEST ON 18 JUL 2005; APPEARED TO BE FEEDING YOUNG, ALTHOUGH NO YOUNG WERE VISIBLE. NO BIRDS WERE OBSERVED DURING 7 SITE VISITS, 3-25 AUG 2005.

Owner/Manager:

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status ----- **NDDB Element Ranks** ----- **Other Lists** -----
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations -----

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

PVT

Occurrence No. 1434 **Map Index:** 62290 **EO Index:** 62327 **Dates Last Seen** -----
Occ Rank: Poor **Element:** 2005-08-09
Origin: Natural/Native occurrence **Site:** 2005-08-09
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-15

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.45244° / -121.75290° **Township:** 07N
UTM: Zone-10 N4256753 E608817 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 16 **Qtr:** SE
Elevation: 45 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SHOULDER OF HACKMAN ROAD, 0.8 MILE EAST OF RUNGE ROAD, 3.7 MILES EAST OF DIXON
Location Detail: RESSEGUIE'S DIXON 99. NEST WAS LOCATED AT THE 90% HEIGHT OF THE TALLEST LOCUST, A VERY SMALL TREE.
Ecological: NEST TREE IS A LOCUST; SURROUNDED BY CULTIVATED LAND IN ALL DIRECTIONS.
General: NEST MONITORED 2 JUN-9 AUG 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No. 1435 **Map Index:** 62291 **EO Index:** 62328 **Dates Last Seen** -----
Occ Rank: Excellent **Element:** 2005-07-21
Origin: Natural/Native occurrence **Site:** 2005-07-21
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-15

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.48732° / -121.79427° **Township:** 07N
UTM: Zone-10 N4260575 E605156 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 06 **Qtr:** NE
Elevation: 60 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.35 MILE WEST OF ROBBEN ROAD, NORTH OF THE RAILROAD TRACK, 3 MILES NE OF DIXON
Location Detail: RESSEGUIE'S DIXON 101. NEST TREE WAS LOCATED AT THE EDGE OF ADAMS GRAIN PROPERTY. NEST WAS LOCATED AT THE 95% HEIGHT OF THE TALLEST TREE IN THE SOUTH GROUP OF A NORTH-SOUTH GROUP OF EUCALYPTUS.
Ecological: NEST TREE IS A BLUE GUM (EUCALYPTUS); SURROUNDED BY ALFALFA TO THE WEST AND SOUTH AND CULTIVATED LAND TO THE NORTH.
General: NEST MONITORED 21 JUN-21 JUL 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No. 1436 **Map Index:** 62292 **EO Index:** 62329 **Dates Last Seen** -----
Occ Rank: Excellent **Element:** 2005-08-09
Origin: Natural/Native occurrence **Site:** 2005-08-09
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-15

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.35840° / -121.83719° **Township:** 06N
UTM: Zone-10 N4246221 E601594 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 23 **Qtr:** NW
Elevation: 40 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SHOULDER OF HAWKINS ROAD, 0.2 MILE EAST OF PITT SCHOOL ROAD, 4 MILES EAST OF ELMIRA
Location Detail: RESSEGUIE'S DOZIER 33. NEST WAS LOCATED AT THE 80% HEIGHT OF A SOUTH ROW EUCALYPTUS, SEVERAL TREES WEST OF A CLEARING.
Ecological: NEST TREE IS A BLUE GUM (EUCALYPTUS); SURROUNDED BY ALFALFA TO THE WEST AND SOUTH AND CULTIVATED LAND TO THE NORTH.
General: NEST MONITORED 3 MAY-9 AUG 2005; 1 FLEDGED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: Threatened	State: S2	

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1439	Map Index: 62295	EO Index: 62332	Dates Last Seen
Occ Rank: Good			Element: 2005-08-06
Origin: Natural/Native occurrence			Site: 2005-08-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-08-15

Quad Summary: Merritt (3812157/514D), Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.49948° / -121.75949°	Township: 08N
UTM: Zone-10 N4261965 E608172	Range: 02E
Radius: 80 meters	Section: 33
Elevation: 50 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: ALONG THE EAST SIDE OF OLD DAVIS ROAD, 0.25 MILE NORTH OF TREMONT ROAD, 3 MILES SOUTH OF DAVIS.
Location Detail: RESSEGUIE'S MERRITT 93. NEST WAS LOCATED AT THE 90% HEIGHT OF THE FIRST ROADSIDE TREE NORTH OF THE ENTRY ROAD; VISIBLE ONLY FROM THE WEST OR DIRECTLY BELOW.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY CULTIVATED LAND IN ALL DIRECTIONS.
General: NEST MONITORED 23 APR-6 AUG 2005; 1 FLEDGED.
Owner/Manager: UNKNOWN

Occurrence No. 1440	Map Index: 62296	EO Index: 62333	Dates Last Seen
Occ Rank: Fair			Element: 2005-07-16
Origin: Natural/Native occurrence			Site: 2005-07-16
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-08-15

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.40555° / -121.72188°	Township: 07N
UTM: Zone-10 N4251587 E611596	Range: 02E
Radius: 80 meters	Section: 35
Elevation: 25 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: ALONG THE WEST SIDE OF BULKLEY ROAD, 0.25 MILE NORTH OF KING ROAD, 13 MILES SW OF DAVIS.
Location Detail: RESSEGUIE'S SAXON 38. NEST TREE WAS LOCATED AT A SMALL FARMSTEAD CONTAINING LOCUST TREES. NEST WAS LOCATED AT THE 2/3 HEIGHT OF THE TALLEST LOCUST NW OF THE HOUSE.
Ecological: NEST TREE IS A LOCUST; SURROUNDED BY ALFALFA TO THE NE AND CULTIVATED LAND IN ALL OTHER DIRECTIONS.
General: NEST MONITORED 22 APR-16 JUL 2005; 1 FLEDGED.
Owner/Manager: PVT

Occurrence No. 1441	Map Index: 62297	EO Index: 62334	Dates Last Seen
Occ Rank: Excellent			Element: 2005-07-20
Origin: Natural/Native occurrence			Site: 2005-07-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-08-15

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.45188° / -121.92745°	Township: 07N
UTM: Zone-10 N4256499 E593587	Range: 01W
Radius: 80 meters	Section: 13
Elevation: 110 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: 0.1 MILE SOUTH OF ALLENDALE ROAD, 0.7 MILE EAST OF LEISURE TOWN ROAD, 5 MILES WEST OF DIXON.
Location Detail: RESSEGUIE'S ALLENDALE 62. NEST TREE WAS LOCATED IN A RAGGED LOCUST, SOMEWHAT SOUTH OF A NORTH ROW OF TALL TREES.
Ecological: NEST TREE IS A LOCUST; SURROUNDED BY ALFALFA TO THE EAST AND NE, ORCHARD TO THE WEST, FIRST-YEAR ORCHARD TO THE NORTH, AND PENS TO THE SOUTH.
General: SITE SUSPECTED, BUT NOT CONFIRMED AS A NEST SITE IN 2004. NEST MONITORED 29 APR-20 JUL 2005; 1 FLEDGED.
Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1442 **Map Index:** 62298 **EO Index:** 62335 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-07-20
Origin: Natural/Native occurrence **Site:** 2005-07-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-15

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.42559° / -121.91578° **Township:** 07N
UTM: Zone-10 N4253594 E594639 **Range:** 01W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 25 **Qtr:** NE
Elevation: 90 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF MERIDIAN ROAD, 0.25 MILE NORTH OF GRIFFEN LANE, 4.7 MILES WSW OF DIXON.
Location Detail: RESSEGUIE'S ALLENDALE 67. NEST TREE WAS LOCATED WITHIN THE NORTH PART OF A ROW OF BLUE GUM EUCALYPTUS. NEST WAS LOCATED AT THE 80% HEIGHT OF THE TALLEST BLUE GUM, OPPOSITE #7486 (HOUSE NUMBER).

Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS.

General: NEST MONITORED 30 APR-20 JUL 2005; 3 FLEDGED.

Owner/Manager: PVT

Occurrence No. 1443 **Map Index:** 62299 **EO Index:** 62336 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-03
Origin: Natural/Native occurrence **Site:** 2005-08-03
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-15

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.40005° / -121.90603° **Township:** 06N
UTM: Zone-10 N4250769 E595524 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 06 **Qtr:** NW
Elevation: 75 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SHOULDER OF BYRNES ROAD, 0.15 MILE SOUTH OF WEBER ROAD, 5 MILES WEST OF DIXON.

Location Detail: RESSEGUIE'S ALLENDALE 70. NEST TREE IS ONE OF TWO OAKS, JUST NORTH OF THE CANAL.

Ecological: NEST TREE IS AN OAK; SURROUNDED BY CULTIVATED LAND TO THE NW AND SE, PENS TO THE SE, AND RUDERAL TO THE NE.

General: NEST MONITORED 20 MAY-3 AUG 2005; 1 FLEDGED.

Owner/Manager: SOL COUNTY

Occurrence No. 1444 **Map Index:** 62300 **EO Index:** 62337 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-07-20
Origin: Natural/Native occurrence **Site:** 2005-07-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-15

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.44630° / -121.90161° **Township:** 07N
UTM: Zone-10 N4255906 E595848 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 18 **Qtr:** SE
Elevation: 90 ft **Symbol Type:**POINT **Meridian:** M

Location: NORTH SIDE OF DIXON AVENUE WEST, 0.3 MILE WEST OF JAHN AVENUE, 4 MILES WEST OF DIXON.

Location Detail: RESSEGUIE'S ALLENDALE 72. NEST WAS LOCATED AT THE 90% HEIGHT OF THE SE BLUE GUM EUCALYPTUS.

Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY ALFALFA TO THE SE, CULTIVATED LAND TO THE SW, ORCHARD TO THE EAST, AND PASTURE TO THE WEST.

General: NEST MONITORED 26 MAY-20 JUL 2005; 2 FLEDGED.

Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1445 **Map Index:** 62301 **EO Index:** 62338 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-02
Origin: Natural/Native occurrence **Site:** 2005-08-02
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-15

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.40160° / -121.91244° **Township:** 06N
UTM: Zone-10 N4250935 E594962 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 06 **Qtr:** NW
Elevation: 80 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF WEBER ROAD, 0.35 MILE WEST OF BYRNES AVENUE, 4 MILES WEST OF DIXON.
Location Detail: RESSEGUIE'S ALLENDALE 74. NEST WAS LOCATED IN THE SECOND TREE FROM THE SOUTH.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY RUDERAL VEGETATION BETWEEN AND AROUND TREES.
General: NEST MONITORED 10 JUL-2 AUG 2005; 1 FLEDGED.
Owner/Manager: PVT

Occurrence No. 1448 **Map Index:** 62304 **EO Index:** 62341 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-02
Origin: Natural/Native occurrence **Site:** 2005-08-02
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-15

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.46733° / -121.84996° **Township:** 07N
UTM: Zone-10 N4258295 E600327 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 10 **Qtr:** SE
Elevation: 75 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF SILVEYVILLE ROAD, AT THE BEND, 0.5 MILE WEST OF PITT SCHOOL ROAD, 2 MILES NE OF DIXON.
Location Detail: RESSEGUIE'S DIXON 94. NEST TREE WAS THE FIRST TALL BLACK WALNUT SOUTH OF THE TALL BLACK WALNUT AT THE CORNER. NEST WAS LOCATED AT THE 90% HEIGHT OF THE NEST TREE.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY CULTIVATED TO THE NORTH AND WEST, AND ORCHARD TO THE SOUTH AND EAST.
General: NEST MONITORED 29 APR-2 AUG 2005; 1 FLEDGED.
Owner/Manager: PVT

Occurrence No. 1449 **Map Index:** 62338 **EO Index:** 62375 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2005-07-30
Origin: Natural/Native occurrence **Site:** 2005-07-30
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-18

Quad Summary: Birds Landing (3812127/481A)

County Summary: Solano

Lat/Long: 38.23683° / -121.79755° **Township:** 05N
UTM: Zone-10 N4232776 E605233 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 31 **Qtr:** NW
Elevation: 25 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.35 MILE SOUTH OF ROBINSON ROAD AND 0.4 MILE EAST OF HIGHWAY 113, 7.5 MILES NW OF RIO VISTA
Location Detail: NEST WAS LOCATED AT THE 75% HEIGHT OF THE NEST TREE, ON THE NE SIDE.
Ecological: NEST TREE IS AN ISOLATED BLUE GUM EUCALYPTUS IN A LARGE, UNIRRIGATED PASTURE.
General: SUSPECTED NEST SITE IN 2004, BUT NOT CONFIRMED. NEST MONITORED 13 APR-30 JUL 2005; 1 FLEDGED.
Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1450 **Map Index:** 62339 **EO Index:** 62376 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2005-08-08
Origin: Natural/Native occurrence **Site:** 2005-08-08
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-18

Quad Summary: Birds Landing (3812127/481A)

County Summary: Solano

Lat/Long: 38.22201° / -121.77814° **Township:** 04N
UTM: Zone-10 N4231153 E606953 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 05 **Qtr:** NW
Elevation: 35 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.15 MILE NORTH OF ROBINSON ROAD AND 1.5 MILE EAST OF HIGHWAY 113, 6 MILES NW OF RIO VISTA
Location Detail: NEST APPARENTLY AT 85% HEIGHT IN THE MAIN ROW OF BLUE GUM EUCALYPTUS. UNCERTAINTY ABOUT NEST, BECAUSE IT WAS ONLY FOUND ON FOOT AFTER THE FLEDGLINGS HAD LEFT.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY UNIRRIGATED PASTURE IN ALL DIRECTIONS. RTHA NEST TO THE NORTH.
General: SUSPECTED NEST SITE IN 2004, BUT NOT CONFIRMED. NEST MONITORED 3 JUL-8 AUG 2005; 2 FLEDGED.
Owner/Manager: PVT

Occurrence No. 1453 **Map Index:** 62343 **EO Index:** 62380 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2005-08-13
Origin: Natural/Native occurrence **Site:** 2005-08-13
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-18

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.44584° / -121.82851° **Township:** 07N
UTM: Zone-10 N4255934 E602229 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 23 **Qtr:** SE
Elevation: 65 ft **Symbol Type:**POINT **Meridian:** M

Location: NORTH SIDE OF WEST A STREET, JUST WEST OF WASHINGTON STREET, DIXON
Location Detail: NEST TREE IS LOCATED AT THE THIRD HOUSE WEST OF WASHINGTON STREET. NEST WAS LOCATED AT THE 85% HEIGHT OF THE TALLEST DEODAR CEDAR.
Ecological: NEST TREE IS A DEODAR CEDAR; SURROUNDED BY MIXED RESIDENTIAL AND COMMERCIAL.
General: NESTING SUSPECTED IN 2002, BUT NOT CONFIRMED. NO SWHA OBSERVATIONS IN 2004. NEST MONITORED 26 JUL-13 AUG 2005; 1 FLEDGED.
Owner/Manager: PVT

Occurrence No. 1454 **Map Index:** 62344 **EO Index:** 62381 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-07-30
Origin: Natural/Native occurrence **Site:** 2005-07-30
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-18

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.38362° / -121.81064° **Township:** 06N
UTM: Zone-10 N4249050 E603877 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 12 **Qtr:** NE
Elevation: 35 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.3 MILE WEST OF PEDRICK ROAD AND 0.5 MILE SOUTH OF CASEY ROAD, 4 MILES SOUTH OF DIXON
Location Detail: NEST WAS LOCATED AT THE 90% HEIGHT OF THE TALL BLUE GUM (EUCALYPTUS).
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS WITHIN A MIXED GROVE; ALFALFA SURROUNDS THE GROVE.
General: NEST MONITORED 13 APR-30 JUL 2005; 3 FLEDGED.
Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1455 **Map Index:** 62345 **EO Index:** 62382 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-12
Origin: Natural/Native occurrence **Site:** 2005-08-12
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-18

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.46717° / -121.83537° **Township:** 07N
UTM: Zone-10 N4258293 E601600 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 11 **Qtr:** NE
Elevation: 70 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH SIDE OF SILVEYVILLE ROAD, 0.3 MILE EAST OF PITT SCHOOL ROAD, 1 MILE NNW OF DIXON
Location Detail: NEST WAS LOCATED AT THE 90% HEIGHT OF A VERY LARGE BLACK WALNUT ON THE EAST SIDE OF THE DRIVEWAY, EAST OF THE FARMSTEAD HOUSE.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY A WALNUT ORCHARD TO THE SOUTH AND CULTIVATED LAND TO THE NORTH.
General: NEST MONITORED 29 APR-12 AUG 2005; 1 CHICK IN THE NEST ON 27 JUN 2005, BUT NO FLEDGLINGS DETECTED.
Owner/Manager: PVT

Occurrence No. 1456 **Map Index:** 62349 **EO Index:** 62386 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-12
Origin: Natural/Native occurrence **Site:** 2005-08-12
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-18

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.35170° / -121.89146° **Township:** 06N
UTM: Zone-10 N4245420 E596860 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 20 **Qtr:** NW
Elevation: 60 ft **Symbol Type:**POINT **Meridian:** M

Location: NORTH SHOULDER OF HOLDENER ROAD, 0.1 MILE WEST OF CHICORP ROAD, 5 MILES EAST OF VACAVILLE
Location Detail: NEST NOT VISIBLE, BUT INFERRED BY ADULT BEHAVIOR WITHIN A ROW OF OSAGE ORANGES.
Ecological: NEST TREE IS AN OSAGE ORANGE; PASTURE TO THE NORTH AND SE, AND CULTIVATED LAND TO THE SOUTH THAT WAS FORMERLY PASTURE.
General: NEST SUSPECTED BUT NOT CONFIRMED IN 2002. NOT OBSERVED IN 2004. NEST MONITORED 9 JUN-12 AUG 2005; 1 FLEDGED.
Owner/Manager: UNKNOWN

Occurrence No. 1460 **Map Index:** 62356 **EO Index:** 62393 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-04
Origin: Natural/Native occurrence **Site:** 2005-08-04
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-08-22

Quad Summary: Fairfield North (3812231/499D)

County Summary: Solano

Lat/Long: 38.33650° / -122.02236° **Township:** 06N
UTM: Zone-10 N4243603 E585441 **Range:** 01W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 30 **Qtr:** XX
Elevation: 235 ft **Symbol Type:**POINT **Meridian:** M

Location: NORTH SIDE OF CHERRY GLEN ROAD, BETWEEN PLEASANTS VALLEY ROAD AND THE I-80/PENA ADOBE INTERCHANGE, NORTH OF FAIRFIELD.
Location Detail: RESSEGUIE'S FAIRFIELD NORTH 1. 2004 NEST LOCATED AT THE 90% HEIGHT, ON THE NORTH SIDE OF THE NEST TREE, A HUGE BLUE GUM FOUND WITHIN A ROW OF TREES ALONG A DITCH ON THE NORTH SIDE OF THE ROAD.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY LARGE CULTIVATED FIELDS TO THE NORTH AND SOUTH.
General: ADULT AND FLEDGLINGS OBSERVED AT THIS SITE TOO LATE IN 2003 TO INFER NESTING. NEST MONITORED 5 APR-1 AUG 2004; 1 FLEDGED. NEST MONITORED 19 APR-4 AUG 2005; 2 FLEDGED.
Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1468 **Map Index:** 62459 **EO Index:** 62496 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-24
Origin: Natural/Native occurrence **Site:** 2005-08-24
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-01

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.42320° / -121.78602° **Township:** 07N
UTM: Zone-10 N4253469 E605970 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 29 **Qtr:** SW
Elevation: 45 ft **Symbol Type:**POINT **Meridian:** M

Location: WEST SIDE OF ROBBEN ROAD, 0.5 MILE NORTH OF MIDWAY ROAD, 2.5 MILES SE OF DIXON
Location Detail: NEST LOCATED AT THE 90% HEIGHT OF THE NEST TREE; NEST TREE LOCATED ON THE SOUTH EDGE OF THE FARMSTEAD, WEST OF THE PINE AT THE SW CORNER.
Ecological: NEST TREE IS AN ARIZONA CYPRESS; SURROUNDED BY ALFALFA TO THE WEST AND NE, AND CULTIVATED LAND TO THE EAST.
General: NEST MONITORED 12 APR-24 AUG 2005; INCUBATION OBSERVED, BUT NO CHICK DETECTED.
Owner/Manager: PVT

Occurrence No. 1469 **Map Index:** 62460 **EO Index:** 62497 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-08-21
Origin: Natural/Native occurrence **Site:** 2005-08-21
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-01

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.41928° / -121.75615° **Township:** 07N
UTM: Zone-10 N4253069 E608583 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 28 **Qtr:** SE
Elevation: 35 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.2 MILE NORTH OF MIDWAY ROAD, 0.4 MILE WEST OF SIKES ROAD, 4 MILES SE OF DIXON
Location Detail: NEST LOCATED AT THE 50% HEIGHT OF THE NORTHMOST SHRUBBY TREE.
Ecological: NEST TREE IS A WILLOW; SURROUNDED BY ALFALFA IN ALL DIRECTIONS.
General: NEST MONITORED 23 APR-21 AUG 2005; ADULT(?) OBSERVED ON NEST ON 21JUN 2005.
Owner/Manager: PVT

Occurrence No. 1470 **Map Index:** 62461 **EO Index:** 62498 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-21
Origin: Natural/Native occurrence **Site:** 2005-08-21
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-01

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.46829° / -121.79077° **Township:** 07N
UTM: Zone-10 N4258467 E605489 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 07 **Qtr:** NE
Elevation: 55 ft **Symbol Type:**POINT **Meridian:** M

Location: NORTH OF SIDE OF VAUGHN ROAD, 0.7 MILE EAST OF PEDRICK ROAD AND 0.3 MILE WEST OF ROBBEN ROAD, 2.2 MILES NE OF DIXON
Location Detail: NEST LOCATED AT THE 85% HEIGHT OF THE NORTHMOST BLUE GUM WEST OF THE FARMSTEAD.
Ecological: NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY CULTIVATED LAND IN ALL DIRECTIONS. THIS FARMSTEAD CONTAINS MANY TREES.
General: NEST MONITORED 21 JUN-21 AUG 2005; 1 FLEDGED.
Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5 **CDFG Status:**
 State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1471 **Map Index:** 62462 **EO Index:** 62499 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-22
Origin: Natural/Native occurrence **Site:** 2005-08-22
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-01

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.40217° / -121.84550° **Township:** 06N
UTM: Zone-10 N4251069 E600806 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 03 **Qtr:** NE
Elevation: 55 ft **Symbol Type:**POINT **Meridian:** M

Location: SOUTH OF SHOULDER OF WEBBER ROAD, 0.2 MILE WEST OF PITT SCHOOL ROAD, 3 MILES SSW OF DIXON
Location Detail: NEST LOCATED IN AN OSAGE ORANGE AT THE NW CORNER OF THE FARMSTEAD.
Ecological: NEST TREE IS AN OSAGE ORANGE; SURROUNDED BY CULTIVATED LAND IN ALL DIRECTIONS. THIS FARMSTEAD CONTAINS MANY TREES.
General: NEST MONITORED 18 JUL-22 AUG 2005; ADULTS DEFENDED THE NEST SITE, BUT NO CHICK WAS DETECTED.
Owner/Manager: PVT

Occurrence No. 1472 **Map Index:** 62463 **EO Index:** 62500 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-08-19
Origin: Natural/Native occurrence **Site:** 2005-08-19
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-01

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.41585° / -121.73031° **Township:** 07N
UTM: Zone-10 N4252719 E610844 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 35 **Qtr:** NW
Elevation: 30 ft **Symbol Type:**POINT **Meridian:** M

Location: NORTH SIDE OF MIDWAY ROAD, 0.5 MILE WEST OF BULKLEY ROAD, 5.3 MILES SE OF DIXON
Ecological: NEST TREE IS UNKNOWN; SURROUNDED BY TREES AND BUILDINGS TO THE NORTH AND MANY SUITABLE TREES TO THE SOUTH
General: SUSPECTED AS A NEST SITE IN 2001, BUT NOT CONFIRMED. UNOCCUPIED IN 2002. NEST SITE MONITORED 23 APR-19 AUG 2005; 1 CHICK FLEDGED, BUT NEST WAS NOT VISIBLE.
Owner/Manager: PVT

Occurrence No. 1473 **Map Index:** 62465 **EO Index:** 62502 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-07-29
Origin: Natural/Native occurrence **Site:** 2005-07-29
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-01

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.43591° / -121.74814° **Township:** 07N
UTM: Zone-10 N4254924 E609257 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 22 **Qtr:** SW
Elevation: 40 ft **Symbol Type:**POINT **Meridian:** M

Location: EAST SIDE OF SIKES ROAD, 0.3 MILE NORTH OF MILLER ROAD, 4 MILES ESE OF DIXON
Ecological: NEST TREE IS UNKNOWN; SURROUNDED BY ALFALFA TO THE WEST, PASTURE TO THE SOUTH AND EAST, AND ANOTHER FARMSTEAD TO THE NORTH.
General: NEST SITE MONITORED 23 APR-29 JUL 2005; ADULTS DEFENDED THE AREA, BUT NO NEST OR CHICK EVER OBSERVED.
Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	
State: Threatened	State: S2	CDFG Status:

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1474	Map Index: 62466	EO Index: 62503	Dates Last Seen
Occ Rank: Fair			Element: 2005-08-21
Origin: Natural/Native occurrence			Site: 2005-08-21
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-09-01

Quad Summary: Saxon (3812146/497B)

County Summary: Solano

Lat/Long: 38.49505° / -121.69942°	Township: 08N
UTM: Zone-10 N4261546 E613417	Range: 02E
Radius: 80 meters	Section: 36
Elevation: 35 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: NORTH SHOULDER OF TREMONT ROAD, 0.3 MILE NORTH OF MILLER ROAD, 4 MILES SE OF DAVIS
Location Detail: NEST LOCATED AT THE 90% HEIGHT OF THE WESTMOST SMALL, MUTILATED BLACK WALNUT.
Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY CULTIVATED LAND TO THE SOUTH AND RUDERAL TO THE NORTH.
General: NEST MONITORED 19 JUN-21 AUG 2005; ADULT SEEN ON NEST 20 JUN 2005, BUT NO CHICK DETECTED.
Owner/Manager: UNKNOWN

Occurrence No. 1477	Map Index: 62530	EO Index: 62567	Dates Last Seen
Occ Rank: Good			Element: 2005-05-13
Origin: Natural/Native occurrence			Site: 2005-07-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-09-12

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.32209° / -121.78627°	Township: 06N
UTM: Zone-10 N4242250 E606095	Range: 02E
Radius: 80 meters	Section: 32
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: EAST SIDE OF ROBBEN ROAD, 0.5 MILE SOUTH OF MAINE PRAIRIE ROAD, 8.5 MILES SOUTH OF DIXON
Location Detail: 2005 NEST WAS LOCATED AT THE 90% HEIGHT OF THE NEST TREE.
Ecological: NEST TREE IS A EUCALYPTUS; SURROUNDED BY PASTURE TO THE NW, SUDAN GRASS TO THE SW, RUDERAL TO THE SE, AND ALFALFA TO THE NE.
General: NEST SITE MONITORED 19 MAR-13 JUL 2004; ADULTS OBSERVED DEFENDING TREE, BUT NO NEST FOUND. NEST MONITORED 13 MAY-16 JUL 2005; NEST, BUT NO CHICK, OBSERVED. GHOW OCCUPIED THIS SITE AFTER LATE MAY 2005.
Owner/Manager: PVT

Occurrence No. 1480	Map Index: 62572	EO Index: 62609	Dates Last Seen
Occ Rank: Good			Element: 2005-09-11
Origin: Natural/Native occurrence			Site: 2005-09-11
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-09-13

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.49618° / -121.82418°	Township: 08N
UTM: Zone-10 N4261524 E602535	Range: 01E
Radius: 80 meters	Section: 35
Elevation: 70 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: WEST SIDE OF CURREY ROAD, 0.5 MILE NORTH OF SIEVERS ROAD, 3 MILES NORTH OF DIXON
Location Detail: 2005 NEST WAS LOCATED AT THE 85% HEIGHT OF THE SECOND LARGE LIVE BLUE GUM WEST OF CURREY ROAD, ON THE SOUTH SHOULDER OF THE ROAD LEADING TO CURREY RANCH.
Ecological: NEST TREE IS A BLUE GUM (EUCALYPTUS); SURROUNDED BY ALFALFA TO THE NORTH AND SOUTH.
General: RTHA NESTED AT THIS SITE IN 2001. SWHA NESTING SUSPECTED, BUT NOT CONFIRMED, IN 2002 AND 2004. NEST MONITORED 25 APR-11 SEP 2005; INCUBATION, BUT NO CHICK DETECTED.
Owner/Manager: PVT

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5 **CDFG Status:**
State: Threatened **State:** S2

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1481 **Map Index:** 62576 **EO Index:** 62613 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2005-08-16
Origin: Natural/Native occurrence **Site:** 2005-08-16
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2006-04-24

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.43848° / -121.82374° **Township:** 07N
UTM: Zone-10 N4255123 E602655 **Range:** 01E
Area: 10.3 acres **Mapping Precision:**SPECIFIC **Section:** 23 **Qtr:** SE
Elevation: 55 ft **Symbol Type:**POLYGON **Meridian:** M

Location: WEST SIDE OF HIGHWAY 113, NEAR THE NORTH ENTRANCE TO SILVEYVILLE CEMETERY, SOUTH EDGE OF DIXON

Location Detail: NO 2000 OR 2001 NEST FOUND, BUT ACTIVITY CENTERED AROUND THE TALLEST CONIFER JUST NORTH OF THE NORTH ENTRANCE; NEST OBSERVATION IS DIFFICULT IN THESE DENSE, TALL TREES. 2005 ACTIVITY CENTERED AROUND 2 PINES IN THE NORTH PART OF THE CEMETERY

Ecological: NEST TREE WAS A PINE; SURROUNDED BY A CEMETERY TO THE SW.

General: 1 FLEDGED IN 2000; LOTS OF ADULT ACTIVITY, BUT NO NEST FOUND. SITE WAS ACTIVE IN 2001, 2002, 2004, AND 2005; BUT, NO NEST/CHICK SEEN.

Owner/Manager: PVT

Occurrence No. 1686 **Map Index:** 69243 **EO Index:** 70023 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2007-05-11
Origin: Natural/Native occurrence **Site:** 2007-05-11
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-05-14

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.35657° / -121.95578° **Township:** 06N
UTM: Zone-10 N4245894 E591234 **Range:** 01W
Radius: 1/10 mile **Mapping Precision:**NON-SPECIFIC **Section:** 22 **Qtr:** XX
Elevation: 115 ft **Symbol Type:**POINT **Meridian:** M

Location: ALONG ULATIS CREEK, JUST SW OF ULATIS DRIVE, VACAVILLE.

Ecological: NEST TREE IS A TALL EUCALYPTUS (THE SECOND ONE WEST OF ULATIS DRIVE); NEST IS LOCATED NEAR THE TOP. NEST TREE IS LOCATED WITHIN A NARROW RIPARIAN STRIP, DOMINATED BY VALLEY OAK, FREMONT COTTONWOOD, BLUE ELDERBERRY, AND EUCALYPTUS.

Threat: THREATENED BY CONSTRUCTION DISTURBANCE AND BIKE PATH TRAFFIC.

General: 2 ADULTS OBSERVED NESTING ON 11 MAY 2007.

Owner/Manager: CITY OF VACAVILLE

Occurrence No. 1688 **Map Index:** 69595 **EO Index:** 70370 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2005-08-21
Origin: Natural/Native occurrence **Site:** 2005-08-21
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-27

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.35800° / -121.82302° **Township:** 06N
UTM: Zone-10 N4246193 E602832 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 24 **Qtr:** NW
Elevation: 37 ft **Symbol Type:**POINT **Meridian:** M

Location: EAST SHOULDER OF HIGHWAY 113, JUST SOUTH OF THE HAWKINS ROAD JUNCTION, 6 MILES SOUTH OF DIXON.

Location Detail: 2005 NEST WAS LOCATED AT THE 90% HEIGHT OF THE SOUTHMOST (TALLER) TREE.

Ecological: NEST TREE WAS AN OSAGE ORANGE; SURROUNDED BY ALFALFA TO THE EAST, CULTIVATED LAND TO THE WEST, AND A RAGGED WALNUT ORCHARD TO THE NE.

General: SUSPECTED NEST SITE IN 2001, BUT NEVER CONFIRMED. NEST MONITORED 1 APR-21 AUG 2005; NEST ACTIVE, BUT NO CHICK EVER DETECTED.

Owner/Manager: PVT?

Buteo swainsoni

Swainson's hawk

Element Code: ABNKC19070

Status	NDDB Element Ranks	Other Lists
Federal: None State: Threatened	Global: G5 State: S2	CDFG Status:

Habitat Associations

General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Occurrence No. 1698	Map Index: 70109	EO Index: 70975	Dates Last Seen
Occ Rank: Unknown			Element: 2001-04-05
Origin: Natural/Native occurrence			Site: 2001-04-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-03

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.44629° / -121.91337°	Township: 07N
UTM: Zone-10 N4255893 E594822	Range: 01E
Radius: 80 meters	Section: 18
Elevation: 101 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: BETWEEN SWEANY SLOUGH AND DIXON AVENUE WEST, 0.1 MILE EAST OF MERIDIAN ROAD, 4.5 MILES WEST OF DIXON.

Ecological: NEST TREE IS A WILLOW; SURROUNDED BY ROW CROPS IN ALL DIRECTIONS.

General: ACTIVE NEST OBSERVED ON 5 APR 2001; NO ACTIVITY OBSERVED WHEN THIS SITE WAS REVISITED ON 5 JUL 2001.

Owner/Manager: UNKNOWN

Occurrence No. 1699	Map Index: 70110	EO Index: 70976	Dates Last Seen
Occ Rank: Unknown			Element: 2001-04-05
Origin: Natural/Native occurrence			Site: 2001-07-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-03

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.44781° / -121.91937°	Township: 07N
UTM: Zone-10 N4256056 E594297	Range: 01W
Radius: 80 meters	Section: 13
Elevation: 101 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: NORTH SIDE OF SWEANY SLOUGH, 0.2 MILE WEST OF THE JUNCTION OF DIXON AVENUE WEST AND MERIDIAN ROAD, 5 MILES WEST OF

Ecological: NEST TREE IS A COTTONWOOD; SURROUNDED BY ROW CROPS IN ALL DIRECTIONS.

General: ACTIVE NEST OBSERVED ON 5 APR 2001; NO ACTIVITY OBSERVED WHEN THIS SITE WAS REVISITED ON 5 JUL 2001.

Owner/Manager: UNKNOWN

Centromadia parryi ssp. parryi

pappose tarplant

Element Code: PDAST4R0P2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: COASTAL PRAIRIE, MEADOWS AND SEEPS, COASTAL SALT MARSH, VALLEY AND FOOTHILL GRASSLAND.
Micro: VERNALLY MESIC, OFTEN ALKALINE SITES. 2-420M.

Occurrence No. 2	Map Index: 56463	EO Index: 56479	Dates Last Seen
Occ Rank: Unknown			Element: 1999-09-26
Origin: Natural/Native occurrence			Site: 1999-09-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-08-25

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.22276° / -121.95206°	Township: 04N
UTM: Zone-10 N4231050 E591728	Range: 01W
Radius: 80 meters	Section: 03
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: ALONG W SIDE OF BRANSCOMB ROAD, 0.4 MILE S OF HIGHWAY 12, ABOUT 2.7 MILES SE OF FAIRFIELD.
Location Detail: ONE POLYGON MAPPED ON THE N 1/2 OF THE LINE DIVIDING SECTIONS 2 & 3. SE 1/4 OF NE 1/4 SECTION 3.
Ecological: IN SWALES, WITH LOLIUM MULTIFLORUM, HORDEUM MARINUM SSP. GUSSONEANUM, DISTICHLIS SPICATA, AND FRANKENIA SALINA.
General: UNKNOWN NUMBER OF PLANTS SEEN IN 1999.
Owner/Manager: UNKNOWN

Occurrence No. 3	Map Index: 56464	EO Index: 56480	Dates Last Seen
Occ Rank: Unknown			Element: 1998-10-11
Origin: Natural/Native occurrence			Site: 1998-10-11
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-08-25

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.28705° / -121.99281°	Township: 05N
UTM: Zone-10 N4238145 E588083	Range: 01W
Radius: 80 meters	Section: 17
Elevation: 60 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: 0.9 MILE SSE OF CEMENT HILL SUMMIT, APPROXIMATELY 2.5 MILES NW OF TRAVIS FIELD, E OF FAIRFIELD.
Location Detail: ONE POLYGON MAPPED ON THE E 1/2 OF THE LINE BETWEEN SECTIONS 8 & 17. IN NW 1/4 OF NE 1/4 SECTION 17.
Ecological: IN ALKALI GRASSLAND, WITH DISTICHLIS SPICATA, FRANKENIA SALINA, LEPIDIUM LATIFOLIUM AND CENTAUREA SOLSTITIALIS.
General: UNKNOWN NUMBER OF PLANTS SEEN IN 1998.
Owner/Manager: UNKNOWN

Occurrence No. 5	Map Index: 56466	EO Index: 56482	Dates Last Seen
Occ Rank: Poor			Element: 2007-XX-XX
Origin: Natural/Native occurrence			Site: 2007-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-11-27

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.23425° / -122.06256°	Township: 05N
UTM: Zone-10 N4232222 E582042	Range: 02W
Radius: 1/10 mile	Section: 35
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: APPROXIMATELY 1.4 MILES SW OF SUISUN CITY, N OF CORDELIA ROAD AND S OF HIGHWAY 12.
Location Detail: IN WEEDY GRASSLAND/RUDERAL AREA; ALONG ROADS. MAPPED ACCORDING TO THE LOCATION ON A BUXTON MAP. A 1907 WALKER COLLECTION FROM "SUISUN" AND A 1933 KECK COLLECTION FROM "1.6 MILES W OF SUISUN" ALSO ATTRIBUTED TO THIS SITE.
Ecological: DOMINANT SPECIES IN SPRING: LOLIUM MULTIFLORUM AND HORDEUM MARINUM. ASSOCIATED SPECIES: FOENICULUM VULGARE, CENTAUREA SOLSTITIALIS, LEPIDIUM LATIFOLIUM, SOME FRANKENIA SALINA. SITE IS FLAT; HABITAT MILDLY ALKALINE
Threat: GOAT-GRAZING, DISKING ALONG ROADS; URBAN DEVELOPMENT.
General: 1-2000 PLANTS SEEN IN 2005. REVISITED IN 2007- MOST OF POPULATION EXTIRPATED ACCORDING TO BUXTON. MAIN SOURCE OF INFORMATION IS A 2005 BUXTON FIELD SURVEY FORM. INCLUDES FORMER EO #4.
Owner/Manager: PVT-SHELDON OIL

Centromadia parryi ssp. parryi

pappose tarplant

Element Code: PDAST4R0P2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: COASTAL PRAIRIE, MEADOWS AND SEEPS, COASTAL SALT MARSH, VALLEY AND FOOTHILL GRASSLAND.
Micro: VERNALLY MESIC, OFTEN ALKALINE SITES. 2-420M.

Occurrence No. 6	Map Index: 56467	EO Index: 56483	Dates Last Seen
Occ Rank: Unknown			Element: 1998-09-26
Origin: Natural/Native occurrence			Site: 1998-09-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-08-25

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.15350° / -122.11454°	Township: 04N
UTM: Zone-10 N4223217 E577578	Range: 02W
Radius: 80 meters	Section: 32
Elevation: 7 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: W SIDE OF LOPES ROAD (W OF HIGHWAY 680), ABOUT 4.2 MILES S OF CORDELIA, AND 2.0 MILES NW OF MORROW ISLAND.
Location Detail: MAPPED IN THE NW 1/4 OF THE NW 1/4 OF SECTION 32.
Ecological: IN SWALES AND LOW AREAS IN FIELD, WITH DISTICHLIS SPICATA, CRESSA TRUXILLENIS, PICRIS ECHIOIDES, MALVELLA LEPROSA, LOLIUM MULTIFLORUM AND ATRIPLEX TRIANGULARIS.
General: UNKNOWN NUMBER OF PLANTS SEEN IN 1998.
Owner/Manager: UNKNOWN

Occurrence No. 7	Map Index: 56468	EO Index: 56484	Dates Last Seen
Occ Rank: Unknown			Element: 1998-09-26
Origin: Natural/Native occurrence			Site: 1998-09-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-08-25

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.14135° / -122.11041°	Township: 03N
UTM: Zone-10 N4221873 E577953	Range: 02W
Radius: 80 meters	Section: 05
Elevation: 8 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: W SIDE OF LOPES ROAD (W OF HIGHWAY 680), 5.2 MILES S OF CORDELIA, AND APPROXIMATELY 1.5 MILES NW OF MORROW ISLAND.
Location Detail: MAPPED IN THE NE 1/4 OF THE NW 1/4 OF SECTION 5.
Ecological: IN SWALE, WITH PICRIS ECHIOIDES, LOLIUM MULTIFLORUM, LOTUS CORNICULATUS, PASPALUM DILATATUM, ATRIPLEX TRIANGULARIS, POLYPOGON MONSPELIENSIS, AND COTULA CORONOPIFOLIA.
General: UNKNOWN NUMBER OF PLANTS SEEN IN 1998.
Owner/Manager: UNKNOWN

Occurrence No. 8	Map Index: 09538	EO Index: 56485	Dates Last Seen
Occ Rank: Unknown			Element: 1933-10-28
Origin: Natural/Native occurrence			Site: 1933-10-28
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-08-25

Quad Summary: Cordelia (3812222/482B), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.21157° / -122.12692°	Township: 04N
UTM: Zone-10 N4229650 E576433	Range: 02W
Radius: 1 mile	Section: 7
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: CORDELIA.
Location Detail: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB, IN THE VICINITY OF CORDELIA, S OF CORDELIA JUNCTION.
General: UNKNOWN NUMBER OF PLANTS SEEN IN 1933. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Centromadia parryi ssp. parryi

pappose tarplant

Element Code: PDAST4R0P2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: COASTAL PRAIRIE, MEADOWS AND SEEPS, COASTAL SALT MARSH, VALLEY AND FOOTHILL GRASSLAND.
Micro: VERNALLY MESIC, OFTEN ALKALINE SITES. 2-420M.

Occurrence No. 10	Map Index: 56471	EO Index: 56487	Dates Last Seen
Occ Rank: Unknown			Element: 1933-10-28
Origin: Natural/Native occurrence			Site: 1933-10-28
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-08-25

Quad Summary: Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.27505° / -122.03416°	Township: 05N
UTM: Zone-10 N4236774 E584480	Range: 02W
Radius: 1 mile	Section: 13
Elevation: 140 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: 1.2 MILES N OF FAIRFIELD.
Location Detail: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB, APPROXIMATELY 1.2 MILES N OF FAIRFIELD, IN THE VICINITY OF HIGHWAY 80.
General: TAXONOMIC IDENTIFICATION UNCERTAIN. HERBARIUM LABEL STATES THIS IS A "HYBRID POPULATION OF NUMEROUS COMBINATIONS". UNDATED COLLECTION BY KECK FROM "FAIRFIELD" ATTRIBUTED TO THIS SITE. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No. 11	Map Index: 56472	EO Index: 56488	Dates Last Seen
Occ Rank: Unknown			Element: 1998-10-11
Origin: Natural/Native occurrence			Site: 1998-10-11
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-08-25

Quad Summary: Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.27999° / -122.00686°	Township: 05N
UTM: Zone-10 N4237347 E586862	Range: 01W
Radius: 80 meters	Section: 17
Elevation: 60 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: ALONG CEMENT HILL ROAD, 1.4 MILES SSW OF CEMENT HILL SUMMIT, NE OF FAIRFIELD.
Location Detail: MAPPED IN THE NW 1/4 OF THE SW 1/4 OF SECTION 17.
Ecological: IN SWALE, WITH LOLIUM MULTIFLORUM, POLYPOGON MONSPELIENSIS, HELIOTROPIUM CURASSAVICUM, CRESSA TRUXILLENIS, RUMEX CRISPUS AND RUMEX PULCHER.
General: UNKNOWN NUMBER OF PLANTS SEEN IN 1998.

Owner/Manager: UNKNOWN

Occurrence No. 22	Map Index: 70511	EO Index: 71416	Dates Last Seen
Occ Rank: Unknown			Element: 2004-09-05
Origin: Natural/Native occurrence			Site: 2004-09-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-11-26

Quad Summary: Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.16213° / -121.84717°	Township: 04N
UTM: Zone-10 N4224432 E600993	Range: 01E
Area:	Section: 27
Elevation: 150 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: E
Symbol Type: POLYGON	

Location: CA. 2.6 MILES NE OF BIRD'S LANDING, ALONG OLSEN ROAD.
Location Detail: EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS ALONG OLSEN RD IN E1/2 SEC 27.
Ecological: IN SWALE. ASSOCIATED SPECIES: LOLIUM MULTIFLORUM, HEMIZONIA CONGESTA SSP. LUZULIFOLIA, PICRIS ECHIOIDES, GRINDELIA CAMPORUM.

Owner/Manager: UNKNOWN

Centromadia parryi ssp. parryi

pappose tarplant

Element Code: PDAST4R0P2

Status: _____ NDDB Element Ranks: _____ Other Lists: _____
 Federal: None Global: G4T2 CNPS List: 1B.2
 State: None State: S2.2

Habitat Associations

General: COASTAL PRAIRIE, MEADOWS AND SEEPS, COASTAL SALT MARSH, VALLEY AND FOOTHILL GRASSLAND.
 Micro: VERNALLY MESIC, OFTEN ALKALINE SITES. 2-420M.

Occurrence No. 23 Map Index: 41001 EO Index: 71417 Dates Last Seen: _____
 Occ Rank: Unknown Element: 2005-05-24
 * SENSITIVE * Origin: Natural/Native occurrence Site: 2005-05-24
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-12-03

Quad Summary: Birds Landing (3812127/481A)
 County Summary: Solano

* SENSITIVE * Lat/Long: _____ Township: _____
 UTM: _____ Range: _____
 Radius: _____ Mapping Precision: _____ Section: _____ Qtr: _____
 Elevation: _____ Symbol Type: _____ Meridian: _____

Location: *SENSITIVE* Location information suppressed.
 Location Detail: Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information:
 (916) 324-3812.
 Ecological: IN VERNAL SWALE WITH LOLIUM MULTIFLORUM, BRODIAEA ELEGANS, ERYNGIUM ARISTULATUM, CICENDIA QUADRANGULARIS, JUNCUS
 BUFONIUS. RARE PLANT, PLAGIOBOTHRYUS HYSTRICULUS, ALSO AT THIS SITE.
 Threat: ELECTRIC TRANSMISSION LINES, DISKED FIRE BREAK, PROPOSED GAS PIPELINE.
 Owner/Manager:

Occurrence No. 24 Map Index: 70513 EO Index: 71418 Dates Last Seen: _____
 Occ Rank: Good Element: 2006-07-27
 Origin: Natural/Native occurrence Site: 2006-07-27
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-11-26

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.22500° / -121.90551° Township: 04N
 UTM: Zone-10 N4231346 E595800 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 06 Qtr: NE
 Elevation: 8 ft Symbol Type: POINT Meridian: M

Location: 0.2 MILE W OF DENVERTON ROAD ON AN UNNAMED ROAD S OF HIGHWAY 12 AND N OF DENVERTON SLOUGH.
 Location Detail: MAPPED ACCORDING TO COORDINATE INFORMATION PROVIDED BY GERWEIN IN NW1/4 OF NE1/4 SEC 6.
 Ecological: IN MESIC ALKALI GRASSLAND ON THE MARGINS OF VERNAL POOLS. ASSOCIATES INCLUDE POLYPOGON MONSPELIENSIS, LOLIUM
 MULTIFLORUM, FRANKENIA SALINA, RUMEX CRISPIUS, AND ERYNGIUM ARISTULATUM VAR. ARISTULATUM. SOIL IS ALVISO SILTY CLAY LOAM.
 SLOPE <2%.
 General: 110 PLANTS SEEN IN 2006. ABOUT 10 INDIVIDUALS ARE ON A CALIFORNIA CONSERVATION FOUNDATION PROPERTY. MAJORITY OF PLANTS
 (~100) ARE ON ADJACENT PRIVATELY OWNED LAND NORTH OF PROPERTY.
 Owner/Manager: PVT

Occurrence No. 25 Map Index: 70515 EO Index: 71419 Dates Last Seen: _____
 Occ Rank: Good Element: 2005-11-30
 Origin: Natural/Native occurrence Site: 2005-11-30
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-11-26

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.16761° / -121.91268° Township: 04N
 UTM: Zone-10 N4224971 E595246 Range: 01E
 Area: 10.0 acres Mapping Precision: SPECIFIC Section: 30 Qtr: NW
 Elevation: 10 ft Symbol Type: POLYGON Meridian: M

Location: N SLOPE OF KIRBY HILL.
 Location Detail: MAPPED ACCORDING TO THE LOCATION ON A PRESTON MAP ALONG DIRT ROAD IN NW1/4 SEC 30.
 Ecological: LOWER SLOPE AND DEPRESSIONS, CLAY SOIL, WITH PICRIS ECHIOIDES, RUMEX PULCHER, LOTUS CORNICULATUS, POLYPOGON
 MONSPELIENSIS, ERYNGIUM ARISTULATUM, LYTHRUM HYSSOPIFOLIUM.
 General: 50-60,000 PLANTS SEEN IN 2005.
 Owner/Manager: PVT

Centromadia parryi ssp. parryi

pappose tarplant

Element Code: PDAST4R0P2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: COASTAL PRAIRIE, MEADOWS AND SEEPS, COASTAL SALT MARSH, VALLEY AND FOOTHILL GRASSLAND.
Micro: VERNALLY MESIC, OFTEN ALKALINE SITES. 2-420M.

Occurrence No. 26	Map Index: 24764	EO Index: 71421	Dates Last Seen
Occ Rank: Unknown			Element: 2006-04-25
Origin: Natural/Native occurrence			Site: 2006-04-25
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-12-03

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.22661° / -121.97093°	Township: 04N
UTM: Zone-10 N4231458 E590071	Range: 01W
Area: 5.4 acres	Section: 04
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: SW OF SCALLEY ROAD/KILLDEER ROAD INTERSECTION, SW OF TRAVIS AIR FORCE BASE.

Location Detail: MAPPED ACCORDING TO LOCATION ON BUXTON MAP IN NE1/4 OF NE1/4 SEC 4.

Ecological: MESIC, ALKALINE GRASSLAND AT EDGE OF VERNAL POOL. DOMINANTS: HORDEUM MARINUM SSP. GUSSONEANUM, COTULA CORONOPIFOLIA, LASTHENIA CALIFORNICA; IN FLAT TERRAIN. GRASSLAND BURNED IN 2003.

Threat: NON-NATIVE GRASSES, COTULA CORONOPIFOLIA; CATTLE TRAMPLING.

General: ONLY SOURCE OF INFORMATION IS A 2006 BUXTON FIELD SURVEY FORM FOR ASTRAGALUS TENER VAR. TENER IN WHICH C. PARRYI SSP. PARRYI IS MENTIONED AS AN ASSOCIATE.

Owner/Manager: PVT-SOLANO LANDFILL

Charadrius montanus

mountain plover

Element Code: ABNNB03100

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CDFG Status: SC
State: None	State: S2?	

Habitat Associations

General: SHORT GRASSLANDS, FRESHLY PLOWED FIELDS, NEWLY SPROUTING GRAIN FIELDS, & SOMETIMES SOD FARMS
Micro: SHORT VEGETATION, BARE GROUND & FLAT TOPOGRAPHY. PREFERS GRAZED AREAS & AREAS WITH BURROWING RODENTS.

Occurrence No. 5	Map Index: 40906	EO Index: 40906	Dates Last Seen
Occ Rank: Excellent			Element: 1991-03-16
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1999-02-25

Quad Summary: Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.24267° / -121.83094°	Township: 05N
UTM: Zone-10 N4233386 E602302	Range: 01E
Radius: 2/5 mile	Section: 26
Elevation: 25 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: NORTH AND SOUTH OF CREED ROAD, BETWEEN GOOSEHAVEN ROAD AND HIGHWAY 113, SOUTH OF DOZIER

Ecological: HABITAT CONSISTS OF GRAZED ANNUAL GRASSLAND.

General: ABOUT 36 BIRDS OBSERVED ON 11 MAR 1991. 120 BIRDS OBSERVED ON 16 MAR 1991. SITE CHECKED IN 1992, BUT GRASS WAS TOO LONG (IF PRESENT, BIRDS NOT VISIBLE).

Owner/Manager: PVT

Occurrence No. 10	Map Index: 48593	EO Index: 48593	Dates Last Seen
Occ Rank: Excellent			Element: 2007-11-02
Origin: Natural/Native occurrence			Site: 2007-11-02
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-11-07

Quad Summary: Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.21442° / -121.75762°	Township: 04N
UTM: Zone-10 N4230335 E608761	Range: 02E
Area:	Section: 04
Elevation: 30 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: JUST NE OF THE CORNER OF ROBINSON ROAD AND FLANNERY ROAD, 6.2 MILES EAST OF RIO VISTA.

Location Detail: THIS SITE HAS BEEN A TRADITIONAL WINTERING SITE FOR A NUMBER OF YEARS.

Ecological: HABITAT CONSISTS OF GRAZED ANNUAL GRASSLAND; SURROUNDING LAND COMPRISED OF AGRICULTURAL CROPLAND, ANNUAL GRASSLAND, AND PASTURE.

Threat: THREAT CONSISTS OF CONVERSION OF LAND TO AGRICULTURAL PRACTICES SUCH AS VINEYARDS.

General: 143 INDIVIDUALS OBSERVED ON 18 FEB 2001. ~50 OBSERVED ON 23 NOV; 40 OBSERVED ON 10 DEC 2005. ~130 OBSERVED ON 10 MAR 2006. 60+ BIRDS OBSERVED ON 1 NOV; 200+ BIRDS OBSERVED ON 2 NOV 2007.

Owner/Manager: UNKNOWN

Occurrence No. 11	Map Index: 48594	EO Index: 48594	Dates Last Seen
Occ Rank: Excellent			Element: 2004-01-06
Origin: Natural/Native occurrence			Site: 2004-01-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-02-02

Quad Summary: Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.22167° / -121.77132°	Township: 04N
UTM: Zone-10 N4231123 E607551	Range: 02E
Area:	Section: 05
Elevation: 30 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: 5.7 MILES ENE OF RIO VISTA; 0.6 MILES WNW OF THE INTERSECTION OF ROBINSON ROAD AND FLANNERY ROAD.

Location Detail: THIS AREA IS A TRADITIONAL WINTERING SITE: SE 1/4 OF THE NE 1/4 OF SECTION 5; 1/6/2004 DIRECTIONS ARE 3.3 MILES DOWN ROBINSON ROAD FROM HWY 113; 11/22/2002 SIGHTED AT 3.5 MILES EAST OF ROBINSON RD AND HWY 113.

Ecological: HABITAT CONSISTS OF ANNUAL GRASSLAND GRAZED BY SHEEP. SURROUNDING LAND COMPRISED OF PASTURE, GRASSLAND AND ROW CROPS.

Threat: THREAT CONSISTS OF CONVERSION OF LAND TO UNSUITABLE AGRICULTURAL PRACTICES SUCH AS VINEYARDS.

General: 2001/2002: 210-300 BIRDS OBS DURING 2001/2002 WINTER (PERS. COMM. ROBIN LEONG) - 95 ADULTS OBS ON 19 NOV 2001. 2002/2003: 35+ OBS 11/22/2002; 272 OBS 11/23/2002. 2003/2004: TUE 12/2/2003 200+ BIRDS OBS, TUES 1/6/2004 - 6 BIRDS SIGHTED.

Owner/Manager:

Charadrius montanus

mountain plover

Element Code: ABNNB03100

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CDFG Status: SC
State: None	State: S2?	

Habitat Associations

General: SHORT GRASSLANDS, FRESHLY PLOWED FIELDS, NEWLY SPROUTING GRAIN FIELDS, & SOMETIMES SOD FARMS
Micro: SHORT VEGETATION, BARE GROUND & FLAT TOPOGRAPHY. PREFERS GRAZED AREAS & AREAS WITH BURROWING RODENTS.

UNKNOWN

Occurrence No. 27	Map Index: 54127	EO Index: 54127	Dates Last Seen
Occ Rank: Good			Element: 2003-11-22
Origin: Natural/Native occurrence			Site: 2003-11-22
Presence: Presumed Extant			
Trend: Stable			Record Last Updated: 2004-01-28

Quad Summary: Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.21012° / -121.77903°	Township: 04N
UTM: Zone-10 N4229833 E606893	Range: 02E
Area:	Section: 08 Qtr: N
Elevation: 65 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	
Symbol Type: POLYGON	

Location: SOUTH SIDE OF FLANNERY ROAD, 1.0 MILE WEST OF THE INTERSECTION OF FLANNERY ROAD AND ROBINSON ROAD., SOUTH OF DIXON.
Location Detail: THIS SITE IS A TRADITIONAL WINTERING AREA, WITH LARGE NUMBERS OF BIRDS REPORTED IN THIS AREA ANNUALLY SINCE WINTER 1999/2000.
Ecological: LARGE PLOWED FIELD WITH A GENTLY SLOPING TERRAIN, SURROUNDING LAND IS GRAZED PASTURE MIXED WITH A FEW ROW CROP
Threat: THREATENED BY URBAN DEVELOPMENT, AS RIO VISTA AND DIXON CONTINUE TO EXPAND.
General: 209 BIRDS WERE COUNTED ON 23 NOV 2003; 400 TOTAL BIRDS WERE ESTIMATED ON THE FIELD.
Owner/Manager: UNKNOWN

Circus cyaneus

northern harrier

Element Code: ABNKC11010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status: SC
State: None	State: S3	

Habitat Associations

General: COASTAL SALT & FRESH-WATER MARSH. NEST & FORAGE IN GRASSLANDS, FROM SALT GRASS IN DESERT SINK TO MOUNTAIN CIENAGAS.
Micro: NESTS ON GROUND IN SHRUBBY VEGETATION, USUALLY AT MARSH EDGE; NEST BUILT OF A LARGE MOUND OF STICKS IN WET AREAS.

Occurrence No. 31	Map Index: 61103	EO Index: 61139	Dates Last Seen
Occ Rank: Good			Element: 2004-06-30
Origin: Natural/Native occurrence			Site: 2004-06-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-04-25

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.19992° / -122.02763°	Township: 04N
UTM: Zone-10 N4228444 E585139	Range: 02W
Radius: 80 meters	Section: 12
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: EAST OF FIRST MALLARD BRANCH, WEST OF SUISUN SLOUGH, 3 MILES SSE OF FAIRFIELD

Ecological: HABITAT CONSISTS OF COASTAL BRACKISH MARSH, DOMINATED BY SALICORNIA VIRGINICA, SCIRPUS SPP, AND TYPHA SPP.

General: PAIR OBSERVED NESTING, 1 MAR-30 JUN 2004.

Owner/Manager: UNKNOWN

Cirsium hydrophilum var. hydrophilum

Suisun thistle

Element Code: PDAST2E1G1

Status	NDDB Element Ranks	Other Lists
Federal: Endangered State: None	Global: G1T1 State: S1.1	CNPS List: 1B.1

Habitat Associations
 General: SALT MARSH.
 Micro: GROWS WITH SCIRPUS, DISTICHLIS NEAR SMALL WATERCOURSES WITHIN SALT MARSH. 0-1M.

Occurrence No. 1	Map Index: 09764	EO Index: 17092	Dates Last Seen
Occ Rank: Unknown			Element: 1994-XX-XX
Origin: Natural/Native occurrence			Site: 1994-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-12-19

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

* SENSITIVE *	Lat/Long:	Mapping Precision:	Township:	
	UTM:		Range:	
	Radius:		Section:	Qtr:
	Elevation:	Symbol Type:	Meridian:	

Location: *SENSITIVE* Location information suppressed.
Location Detail: Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information: (916) 324-3812.
Ecological: IN WET PEATY SOIL WITH POTENTILLA, OENANTHE, TRIGLOCHIN, AND JUNCUS. 1975 REPORT BY SOIL CONSERVATION SERVICE (MILLER, MILLER, COHEN, AND SCHULTZE) NOTES SP. GROWING WITHIN MANAGED (LEVEED) AREAS OF 1 OR MORE DUCK CLUBS IN SUISUN MARSH.

Owner/Manager:

Occurrence No. 4	Map Index: 22768	EO Index: 8054	Dates Last Seen
Occ Rank: Good			Element: 2003-07-08
Origin: Natural/Native occurrence			Site: 2003-07-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-12-19

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

* SENSITIVE *	Lat/Long:	Mapping Precision:	Township:	
	UTM:		Range:	
	Radius:		Section:	Qtr:
	Elevation:	Symbol Type:	Meridian:	

Location: *SENSITIVE* Location information suppressed.
Location Detail: Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information: (916) 324-3812.
Ecological: DENSE SALT MARSH VEGETATION WITH DISTICHLIS, SCIRPUS, SONCHUS. OTHER PLANTS NEARBY INCLUDE SALICORNIA, FRANKENIA, LEPIDIUM, AND JUNCUS.
Threat: C. VULGARE ALSO HERE (DO THEY INTERGRADE?). FERAL PIGS AND INVASION BY LEPIDIUM ARE HUGE THREATS.

Owner/Manager:

Occurrence No. 5	Map Index: 24856	EO Index: 6761	Dates Last Seen
Occ Rank: Excellent			Element: 2000-09-06
Origin: Natural/Native occurrence			Site: 2000-09-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-12-19

Quad Summary: Fairfield South (3812221/482A), Denverton (3812128/481B)
County Summary: Solano

* SENSITIVE *	Lat/Long:	Mapping Precision:	Township:	
	UTM:		Range:	
	Radius:		Section:	Qtr:
	Elevation:	Symbol Type:	Meridian:	

Location: *SENSITIVE* Location information suppressed.
Location Detail: Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information: (916) 324-3812.
Ecological: HIGH BRACKISH SALT MARSH WITH TYPHA LATIFOLIA, SALICORNIA VIRGINICA, DISTICHLIS SPICATA, AND SCIRPUS SP. NEAR ANOTHER RARE PLANT: CORDYLANTHUS MOLLIS MOLLIS.

Owner/Manager:

Coastal Brackish Marsh

Element Code: CTT52200CA

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G2 State: S2.1	
Habitat Associations		
General:		
Micro:		

Occurrence No. 4 **Map Index:** 09823 **EO Index:** 16106 **Dates Last Seen**

Occ Rank: Unknown **Element:** 1977-06-XX
Origin: Natural/Native occurrence **Site:** 1977-06-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1998-07-16

Quad Summary: Fairfield South (3812221/482A), Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.22211° / -122.03661°	Township: 04N
UTM: Zone-10 N4230898 E584327	Range: 02W
Area: 1,578.1 acres	Section: 01 Qtr: SE
Elevation:	Meridian: M
Mapping Precision: SPECIFIC	
Symbol Type: POLYGON	

Location: DEADMAN ISL, CONFLUENCE OF SUISUN & HILL SLOUGHS.
Ecological: UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.
General: CONTAINS DFG ECO RESERVE AND WITHIN PROTECTED AREA.
Owner/Manager: UNKNOWN

Occurrence No. 5 **Map Index:** 09881 **EO Index:** 16103 **Dates Last Seen**

Occ Rank: Unknown **Element:** 1977-06-XX
Origin: Natural/Native occurrence **Site:** 1977-06-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1998-07-16

Quad Summary: Denverton (3812128/481B), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.18026° / -121.95446°	Township: 04N
UTM: Zone-10 N4226332 E591571	Range: 01W
Area: 5,092.1 acres	Section: 18 Qtr: SE
Elevation:	Meridian: M
Mapping Precision: SPECIFIC	
Symbol Type: POLYGON	

Location: AROUND JOICE ISL IN SUISUN MARSH.
Location Detail: EXTENSIVE ISLAND STANDS & FRINGES OF CHANNELS.
Ecological: UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.
Threat: SURROUNDED BY DUCK CLUBS AND AGRICULTURE.
Owner/Manager: DFG

Occurrence No. 6 **Map Index:** 09989 **EO Index:** 16107 **Dates Last Seen**

Occ Rank: Unknown **Element:** 1977-06-XX
Origin: Natural/Native occurrence **Site:** 1977-06-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1998-07-16

Quad Summary: Honker Bay (3812118/481C), Denverton (3812128/481B), Vine Hill (3812211/482D), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.11017° / -121.98551°	Township: 03N
UTM: Zone-10 N4218524 E588937	Range: 01W
Area: 3,093.8 acres	Section: 16 Qtr: XX
Elevation:	Meridian: M
Mapping Precision: SPECIFIC	
Symbol Type: POLYGON	

Location: SIMMONS ISL NEAR GRIZZLY BAY.
Location Detail: FRINGES & POCKETS ALONG ISL & BAY SHORE.
Ecological: UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO
Owner/Manager: UNKNOWN

Coastal Brackish Marsh

Element Code: CTT52200CA

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	
State: None	State: S2.1	
Habitat Associations		
General:		
Micro:		

Occurrence No. 16	Map Index: 09695	EO Index: 12510	Dates Last Seen
Occ Rank: Unknown			Element: 1986-08-06
Origin: Natural/Native occurrence			Site: 1986-08-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1998-07-16

Quad Summary: Fairfield South (3812221/482A), Benicia (3812212/482C), Vine Hill (3812211/482D)

County Summary: Solano

Lat/Long: 38.11527° / -122.06601°	Township: 03N
UTM: Zone-10 N4219016 E581874	Range: 02W
Area: 981.8 acres	Section: 10
Elevation:	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: E EDGE MORROW ISL, W EDGE OF SOUTHERN PART OF JOICE ISL, SUISUN BAY.

Location Detail: FRINGE OF ISL AND SLOUGH.

Ecological: TAXA PRESENT INCL SCIRPUS CERNUUS, TRIGLOCHIN STRICTA, JUNCUS SP, LILAEOPSIS MASONII. ON REYES SALTY CLAY.

General: PORTION 1/4 MI N OF JOICE ISL CLUB HOUSE SEEN 1986. PROPERTY OWNED BY HUNT CLUB. THIS WAS OCC #016 OF CTT52200CA

Owner/Manager: PVT

Coastal and Valley Freshwater Marsh

Status	NDDB Element Ranks	Element Code: CTT52410CA	Other Lists
Federal: None	Global: G3		
State: None	State: S2.1		
Habitat Associations			
General:			
Micro:			

Occurrence No. 54	Map Index: 20407	EO Index: 9524	Dates Last Seen
Occ Rank: Good			Element: 1988-12-05
Origin: Natural/Native occurrence			Site: 1988-12-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1998-07-20

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.25450° / -121.79629°	Township: 05N
UTM: Zone-10 N4234738 E605318	Range: 02E
Area: 93.7 acres	Section: 30
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: BOTH SIDES OF CALHOUN CUT EAST OF JEPSON PRAIRIE.

Location Detail: IN THE DRAINAGES OF THE CALHOUN CUT AND BARKER SLOUGHS.

Ecological: SCIRPUS DOMINATED MARSH WITH SOME SCATTERED OPEN WATER. NEEDS MORE SURVEYS FOR SPECIES COMPOSITION.

Threat: SURROUNDING AREA USED TO GRAZE SHEEP.

General: THIS WAS OCC #054 OF CTT52410CA.

Owner/Manager: UNKNOWN

Cordylanthus mollis ssp. hispidus

hispid bird's-beak

Status	NDDB Element Ranks	Element Code: PDSCR0J0D1	Other Lists
Federal: None	Global: G2T2		CNPS List: 1B.1
State: None	State: S2.1		

Habitat Associations

General: MEADOWS, PLAYAS, VALLEY AND FOOTHILL GRASSLAND.
Micro: IN DAMP ALKALINE SOILS, ESPECIALLY IN ALKALINE MEADOWS AND ALKALI SINKS WITH DISTICHLIS. 10-155M.

Occurrence No.: 13	Map Index: 10329	EO Index: 17844	Dates Last Seen
Occ Rank: Fair			Element: 1993-07-20
Origin: Natural/Native occurrence			Site: 1993-07-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-04

Quad Summary: Denverton (3812128/481B), Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.24695° / -121.88632°	Township: 05N
UTM: Zone-10 N4233801 E597450	Range: 01E
Area: 53.3 acres	Section: 29
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: 1.8 MILES WEST OF CREED STATION ON CREED ROAD, 1.5 NNE OF DENVERTON.
Location Detail: MAPPED ALONG MARGIN OF VERNAL MARSH WITHIN THE W 1/2 OF THE SE 1/4 OF SECTION 29.
Ecological: VERNALLY WET AREA IN ANNUAL GRASSLAND, ON PESCADERO CLAY ON MARGIN OF BRACKISH MARSH HABITAT. ASSOCIATED WITH DISTICHLIS STRICTA VAR. NANA AND LOTUS SP.
Threat: DUCK BLINDS IN AREA. DRAIN THROUGH POOL. HEAVY GRAZING DOES OCCUR.
General: >2000 PLANTS IN 1986. HEAVY GRAZING HAS REDUCED VEGETATION COVER IN MARSH BUT THE CORDYLANTHUS DOES NOT APPEAR TO BE NEGATIVELY IMPACTED. A FEW 100 SEEN IN 1988, UNKNOWN IN 1993. 1965 & 1967 COLLECTIONS ATTRIBUTED TO SITE.
Owner/Manager: PVT

Cordylanthus mollis ssp. mollis

soft bird's-beak

Element Code: PDSCR0J0D2

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G2T1	CNPS List: 1B.2
State: Rare	State: S1.1	

Habitat Associations

General: COASTAL SALT MARSH.
Micro: IN COASTAL SALT MARSH WITH DISTICHLIS, SALICORNIA, FRANKENIA, ETC. 0-3M.

Occurrence No. 6	Map Index: 10004	EO Index: 8059	Dates Last Seen
Occ Rank: None			Element: 1986-08-08
Origin: Natural/Native occurrence			Site: 2000-09-06
Presence: Possibly Extirpated			
Trend: Unknown			Record Last Updated: 2001-11-28

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.18889° / -121.97811°	Township: 04N
UTM: Zone-10 N4227266 E589489	Range: 01W
Radius: 80 meters	Section: 16
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: SOUTHEAST OF FAIRFIELD ALONG MONTEZUMA SLOUGH. WEST OF GRIZZLY ISLAND BRIDGE AT BELDON LANDING.

Ecological: FLAT SATURATED BOTTOM LANDS ASSOCIATED WITH SALICORNIA, DISTICHLIS AND GRINDELIA HUMILIS.

Threat: EXTENSIVE LITTER AND TRAILS FROM FISHING ALONG SLOUGH. AREA DISKED ALONG ROAD IN 1987.

General: OCCASIONAL COLONIES IN 1977, 1978 AND 1980 (MORE THAN 100 INDIVIDUALS). 500 PLANTS FOUND BY DAINS IN 1986; NEEDS MORE SEARCHING. ABOUT 10% OF AREA IS PLOWED. NO PLANTS FOUND IN 1987, 1992, 1993 OR 1994, OR 2000.

Owner/Manager: DFG-GRIZZLY ISLAND WA

Occurrence No. 16	Map Index: 22810	EO Index: 20379	Dates Last Seen
Occ Rank: Good			Element: 2001-XX-XX
Origin: Natural/Native occurrence			Site: 2001-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2001-11-14

Quad Summary: Denverton (3812128/481B), Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.19441° / -122.00025°	Township: 04N
UTM: Zone-10 N4227857 E587544	Range: 01W
Area: 53.5 acres	Section: 17
Elevation: 3 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: NORTH OF JOICE ISLAND, BETWEEN CUTOFF SLOUGH AND GRIZZLY ISLAND ROAD, SUISUN MARSH.

Location Detail: MAPPED SOUTH OF ROAD UP TO 0.5 MILE WEST OF JOICE ISLAND BRIDGE AND 0.2 MILE EAST OF BRIDGE. MAP DETAIL EXISTS AT CNDDB SHOWING POPULATION #'S WITHIN EACH CLUSTER OF PLANTS. IN NW1/4 SEC 17 AND NE1/4 SEC 18.

Ecological: IN NARROW BAND AT SALT MARSH-UPLAND ECOTONE WITH SALICORNIA VIRGINICA, ASTER SUBULATUS LIGULATUS, FRANKENIA SP., LOTUS CORNICULATUS, POLYPOGON MONSPELIENSIS, CUSCUTA SALINA, GRINDELIA HUMILIS, APIUM SP, SPERGULARIA MARINA, CRESSA, ET AL.

Threat: OCCASIONAL DISTURBANCE FROM PATROL VEHICLES. MOSQUITO ABATEMENT MAINTENANCE VEHICLES, FERAL PIGS, CATTLE, EXOTICS.

General: ABOUT 1000 PLANTS SEEN IN 1991, 1000 IN 1992, LESS THAN 7650 IN 1993, AT LEAST 5000 IN 1994, 150 IN 1999. 3076 PLANTS OBSERVED IN 2000 ALONG GRIZZLY ISLAND ROAD, NO PLANTS SEEN IN 2000 OR 2001 AT RUSH RANCH. INCLUDES FORMER OCC'S #12 & 20.

Owner/Manager: DFG-GRIZZLY ISLAND WA

Cordylanthus mollis ssp. mollis

soft bird's-beak

Element Code: PDSCR0J0D2

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G2T1	CNPS List: 1B.2
State: Rare	State: S1.1	

Habitat Associations

General: COASTAL SALT MARSH.
Micro: IN COASTAL SALT MARSH WITH DISTICHLIS, SALICORNIA, FRANKENIA, ETC. 0-3M.

Occurrence No. 19	Map Index: 26282	EO Index: 20378	Dates Last Seen
Occ Rank: Excellent			Element: 2000-09-12
Origin: Natural/Native occurrence			Site: 2000-09-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2001-11-28

Quad Summary: Fairfield South (3812221/482A), Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.23218° / -122.00456°	Township: 05N
UTM: Zone-10 N4232045 E587121	Range: 01W
Area: 86.0 acres	Section: 32
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: S
Symbol Type: POLYGON	

Location: SUISUN MARSH; NORTH OF HILL SLOUGH, SOUTH OF LAWLER ESTATES RESIDENTIAL DEVELOPMENT. SOUTHEAST OF FAIRFIELD.

Location Detail: HILL SLOUGH EAST TIDAL MARSH. MANY PLANTS WITHIN WILDLIFE REFUGE.

Ecological: SALT MARSH WITH SALICORNIA VIRGINICA, DISTICHLIS SPICATA, CUSCUTA SALINA MAJOR, JAUMEA CARNOSA, POLYPOGON MONSPELIENSIS, SCIRPUS AMERICANUS, & ATRIPLEX TRIANGULARIS. ANOTHER RARE PLANT, LILAEOPSIS MASONII, IN NEARBY SLOUGHS.

Threat: SOME FOOT AND BICYCLE TRAFFIC. ALTERED FLOOD/TIDAL REGIME, AND GRAZING THREATEN. HEAVY SEED PREDATION AT THIS SITE.

General: 'THOUSANDS' OF PLANTS IN 1992, TOTAL OF 141K PLANTS SEEN HERE AND OCCURRENCE #21 IN 1993, 151K IN 1999, 170K IN 2000. DETAILED POP'N NUMBERS AT CNDD. MANY COLONIES OVER ABOUT 3.5 HECTARES. MOSQUITO ABATEMENT ACTIVITIES MAY ALSO THREATEN.

Owner/Manager: DFG-HILL SLOUGH WA, PVT

Occurrence No. 21	Map Index: 30275	EO Index: 6864	Dates Last Seen
Occ Rank: Fair			Element: 2002-XX-XX
Origin: Natural/Native occurrence			Site: 2002-XX-XX
Presence: Presumed Extant			
Trend: Decreasing			Record Last Updated: 2003-10-27

Quad Summary: Denverton (3812128/481B), Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.22244° / -121.98427°	Township: 04N
UTM: Zone-10 N4230983 E588909	Range: 01W
Area: 48.3 acres	Section: 04
Elevation: 4 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: SOUTH OF HILL SLOUGH, WEST OF EMMINGTON ROAD, SUISUN MARSH. "HILL SLOUGH EAST."

Location Detail: BETWEEN SE END OF HILL SLOUGH AND THE FOOT OF POTRERO HILLS, ALONG NORTH SIDE OF UNNAMED ROAD ON TOPO.

Ecological: WITH SALICORNIA VIRGINICA, DISTICHLIS SPICATA, CUSCUTA SALINA MAJOR, JAUMEA CARNOSA, POLYPOGON MONSPELIENSIS, SCIRPUS AMERICANUS, & ATRIPLEX TRIANGULARIS. ANOTHER RARE PLANT IN NEARBY SLOUGHS: LILAEOPSIS MASONII.

Threat: SOME FOOT, BICYCLE TRAFFIC, FISHING, EXOTICS, RESIDENTIAL ENCROACHMENT AND GRAZING. MAJOR HYDROLOGICAL CHANGES THREATEN.

General: AT LEAST 1000 PLANTS IN E PORTION OF SITE IN 1992, 141,000 PLANTS SEEN HERE AND AT OCCURRENCE #19 IN 1993, 2000+ IN 1999, AND 100,479 IN 2000. IN 2000, TRAMPLING BY CATTLE REDUCED POPULATION. SURVIVORSHIP, FECUNDITY VERY LOW IN 2002.

Owner/Manager: DFG-HILL SLOUGH WA, PVT

Cordylanthus mollis ssp. *mollis*

soft bird's-beak

Element Code: PDSCR0J0D2

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G2T1	Element: 1993-08-15
State: Rare	State: S1.1	Site: 1993-08-15
		Record Last Updated: 1995-11-14

Habitat Associations
 General: COASTAL SALT MARSH.
 Micro: IN COASTAL SALT MARSH WITH DISTICHLIS, SALICORNIA, FRANKENIA, ETC. 0-3M.

Occurrence No. 22	Map Index: 30276	EO Index: 17182	Dates Last Seen
Occ Rank: Good			Element: 1993-08-15
Origin: Natural/Native occurrence			Site: 1993-08-15
Presence: Presumed Extant			
Trend: Unknown			

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.19623° / -122.02674°	Township: 04N
UTM: Zone-10 N4228035 E585222	Range: 01W
Area: 4.3 acres	Section: 13
Elevation: 4 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: RUSH RANCH, GRIZZLY ISLAND. SOUTHEAST OF FIRST MALLARD BR, 0.85-1.0 MI W OF SECOND MALLARD BR.
Location Detail: MAPPED AS SPECIFIC POLYGON, PLANTS FOUND IN 2 CLUSTERS AT EACH END OF POLYGON.
Ecological: WITH SALICORNIA VIRGINICA, DISTICHLIS SPICATA, JAUMEA CARNOSA, CUSCUTA SALINA MAJOR. ANOTHER RARE PLANT NEARBY: CIRSIUM HYDROPHILUM HYDROPHILUM.
Threat: TRAMPLING BY GRAZING CATTLE. FENCES ERRECTED TO LIMIT DAMAGE. EXTENSIVE FERAL PIG DAMAGE.
General: TOTAL OF 2013 PLANTS SEEN HERE AND AT OCCURRENCE #20 IN 1993. SITE OWNED (MANAGED?) BY THE SOLANO COUNTY OPEN SPACE AND FARMLAND FOUNDATION.

Owner/Manager: PVT

Occurrence No. 23	Map Index: 37483	EO Index: 32485	Dates Last Seen
Occ Rank: Fair			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.22960° / -121.92264°	Township: 05N
UTM: Zone-10 N4231838 E594295	Range: 01W
Area: 4.3 acres	Section: 36
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: SOUTH OF TRAVIS AFB, ALONG HIGHWAY 12 ABOUT 1.6 MILES EAST OF BRANSCOME ROAD, SUISUN MARSH.
Location Detail: TWO COLONIES ALONG EITHER SIDE OF HIGHWAY 12 NEAR POST MILE 11.
Ecological: BRACKISH VERNAL MARSH. ASSOCIATED WITH SALICORNIA, DISTICHLIS SPICATA, FRANKENIA, CENTAUREA SOLSTITIALIS, AND HORDEUM.
General: 3 PLANTS SOUTH OF HIGHWAY IN 1994, UNKNOWN NUMBER OF PLANTS MAPPED NORTH OF HIGHWAY IN 1999.

Owner/Manager: CALTRANS

Occurrence No. 25	Map Index: 43728	EO Index: 43728	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.22520° / -121.93520°	Township: 04N
UTM: Zone-10 N4231338 E593200	Range: 01W
Area: 4.6 acres	Section: 02
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: NORTH OF LUCO HILL AT NORTHWEST END OF LUCO SLOUGH, ABOUT 0.9 MILE ESE OF BRANSCOME RD AT HWY 12, SUISUN MARSH.
Location Detail: 3 COLONIES MAPPED AT NORTH END OF SLOUGH ABOUT 0.15 MILE SOUTH OF HIGHWAY 12. WITHIN THE NE 1/4 NE 1/4 SECTION 2.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1999 MAP BY THE STATE LANDS COMMISSION.

Owner/Manager: UNKNOWN

Cordylanthus mollis ssp. mollis

soft bird's-beak

Element Code: PDSCR0J0D2

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G2T1	Other Lists
State: Rare	State: S1.1	CNPS List: 1B.2

Habitat Associations

General: COASTAL SALT MARSH.
 Micro: IN COASTAL SALT MARSH WITH DISTICHLIS, SALICORNIA, FRANKENIA, ETC. 0-3M.

Occurrence No. 26	Map Index: 43729	EO Index: 43729	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-11

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.21984° / -121.93869°	Township: 04N
UTM: Zone-10 N4230739 E592902	Range: 01W
Area: 5.8 acres	Section: 02
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: NORTH OF LUCO HILL AT NORTHWEST END OF LUCO SLOUGH, ABOUT 0.8-1.2 MI SOUTHEAST OF BRANSCOME RD AT HWY 12, SUISUN MARSH.
Location Detail: 3 COLONIES MAPPED ALONG ROAD ON WEST SIDE OF SLOUGH; ABOUT 0.5-0.8 MILE SOUTH OF HIGHWAY 12. MOSTLY WITHIN THE SE 1/4 SECTION 2.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1999 MAP BY THE STATE LANDS COMMISSION.

Owner/Manager: UNKNOWN

Occurrence No. 27	Map Index: 43730	EO Index: 43730	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-11

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.19030° / -121.89817°	Township: 04N
UTM: Zone-10 N4227503 E596488	Range: 01E
Area: 17.4 acres	Section: 17
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: W
Symbol Type: POLYGON	

Location: EAST OF BRADMOOR ISLAND, ABOUT 1.5 MILE NNW OF MONTEZUMA, SUISUN MARSH.

Location Detail: 6 COLONIES MAPPED IN 4 POLYGONS ALONG EASTERN EDGE OF MARSH. WITHIN THE THE SW 1/4 NW 1/4 SECTION 17 AND ALONG THE LINE BETWEEN SECTIONS 17 AND 18.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1999 MAP BY THE STATE LANDS COMMISSION.

Owner/Manager: UNKNOWN

Occurrence No. 28	Map Index: 43731	EO Index: 43731	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-11

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.18159° / -121.89803°	Township: 04N
UTM: Zone-10 N4226537 E596512	Range: 01E
Area: 15.6 acres	Section: 20
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: E
Symbol Type: POLYGON	

Location: EAST OF BRADMOOR ISLAND, ABOUT 1 MILE NNW OF MONTEZUMA, SUISUN MARSH.

Location Detail: 4 COLONIES MAPPED ALONG EASTERN EDGE OF MARSH. COLONIES MAPPED ALONG THE N 1/2 OF LINE BETWEEN SECTIONS 19 AND 20.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1999 MAP BY THE STATE LANDS COMMISSION.

Owner/Manager: UNKNOWN

Cordylanthus mollis ssp. mollis

soft bird's-beak

Element Code: PDSCR0J0D2

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G2T1	CNPS List: 1B.2
State: Rare	State: S1.1	

Habitat Associations

General: COASTAL SALT MARSH.
Micro: IN COASTAL SALT MARSH WITH DISTICHLIS, SALICORNIA, FRANKENIA, ETC. 0-3M.

Occurrence No. 29	Map Index: 46594	EO Index: 46594	Dates Last Seen
Occ Rank: Good			Element: 2002-XX-XX
Origin: Introduced Back into Native Hab./Range			Site: 2002-XX-XX
Presence: Presumed Extant			
Trend: Increasing			Record Last Updated: 2003-10-26

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.20391° / -122.02328°	Township: 04N
UTM: Zone-10 N4228890 E585516	Range: 01W
Area: 2.2 acres	Section: 07 Qtr: SW
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	
Symbol Type: POLYGON	

Location: SPRING BRANCH MARSH RESTORATION SITE, RUSH RANCH OPEN SPACE RESERVE, POTRERO HILLS, SOUTH OF FAIRFIELD.
Location Detail: JUST NORTH OF SPRING CREEK AND EAST OF UNNAMED DIRT ROAD. PLANTED IN SPRING 2000 AS AN EXPERIMENTALLY REINTRODUCED POPULATION: CALFED 99-05; 1/4 SW 1/4 SECTION 7.
Ecological: TIDAL BRACKISH MARSH, IN LOWER HIGH INTERDIAL ZONE. TIDAL FLOWS RESTORED IN 1991, CORDYLANTHUS REINTRODUCED IN 2000. ASSOCIATES INCLUDE SALICORNIA VIRGINICA, DISTICHLIS SPICATA, CUSCUTA SALINA, PLANTAGO SUBNUDA, ATRIPLEX TRIANGULARIS.
Threat: SPREAD OF INVASIVE LEPIDIUM LATIFOLIUM INTO RESTORATION AREA, SOME HYDROLOGIC DISTURBANCE IN FIRST MALLARD BRANCH.
General: 2053 PLANTS IN 2001. PLANTED IN SPRING 2000. SEEDS COLLECTED FROM OCC'S #16 & #21. UNKNOWN NUMBER OF PLANTS SEEN IN 2002, DENSITY OF PLANTS WAS EXPONENTIALLY HIGHER THAN DENSITIES OBSERVED IN 2001.

Owner/Manager: SOLANO LAND TRUST

Danaus plexippus

monarch butterfly

Element Code: IILEPP2010

Status ----- **NDDB Element Ranks** ----- **Other Lists** -----
 Federal: None Global: G5 CDFG Status:
 State: None State: S3

Habitat Associations -----
General: WINTER ROOST SITES EXTEND ALONG THE COAST FROM NORTHERN MENDOCINO TO BAJA CALIFORNIA, MEXICO.
Micro: ROOSTS LOCATED IN WIND-PROTECTED TREE GROVES (EUCALYPTUS, MONTEREY PINE, CYPRESS), WITH NECTAR AND WATER SOURCES NEARBY.

Occurrence No. 23 **Map Index:** 09717 **EO Index:** 12915 **Dates Last Seen** -----
Occ Rank: Unknown **Element:** 1976-12-24
Origin: Natural/Native occurrence **Site:** 1976-12-24
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1996-01-08

Quad Summary: Fairfield South (3812221/482A), Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.24546° / -122.06330° **Township:** 05N
UTM: Zone-10 N4233464 E581965 **Range:** 02W
Radius: 1 mile **Mapping Precision:** NON-SPECIFIC **Section:** 26 **Qtr:** XX
Elevation: 20 ft **Symbol Type:** POINT **Meridian:** M

Location: W SIDE OF FAIRFIELD.
Ecological: HABITAT IS A LONG ROW OF EUCALYPTUS RUNNING ALONG THE WEST SIDE OF THE CITY.
General: APPROXIMATELY 50 INDIVIDUALS OBSERVED BY SHAPIRO, UCD LEPIDOPTERIST. THIS OCCURRENCE IS EXTREMELY FAR INLAND (APPROXIMATELY 50 MI FROM THE OCEAN).
Owner/Manager: UNKNOWN

Delphinium recurvatum

recurved larkspur

Element Code: PDRAN0B1J0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: CHENOPOD SCRUB, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND.
Micro: ON ALKALINE SOILS; OFTEN IN VALLEY SALT BUSH OR VALLEY CHENOPOD SCRUB. 3-685M.

Occurrence No.: 12	Map Index: 51926	EO Index: 51926	Dates Last Seen
Occ Rank: Unknown			Element: 1940-03-23
Origin: Natural/Native occurrence			Site: 1940-03-23
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-07-30

Quad Summary: Elmira (3812138/498C), Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.38652° / -121.97761°	Township: 06N
UTM: Zone-10 N4249197 E589291	Range: 01W
Area:	Mapping Precision: NON-SPECIFIC
Elevation:	Section: 09 Qtr: XX
	Meridian: M
	Symbol Type: POLYGON

Location: NORTH END OF BROWNS VALLEY, NORTH OF VACAVILLE.
Location Detail: "ALONG THE ROADSIDE." EXACT LOCATION UNKNOWN. MAPPED ALONG BROWNS VALLEY ROAD.
Ecological: ALONG THE ROADSIDE IN CLAY SOIL.
Threat: ROADSIDE OCCURRENCE.
General: 1902 COLLECTION BY HELLER AND BROWN "NEAR VACAVILLE" (FORMER EO #62) ATTRIBUTED TO THIS SITE. QUESTION BY JANEWAY ABOUT POSSIBLE MIS-ID ON HELLER'S 1940 COLLECTION AT THIS SITE. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Desmocerus californicus dimorphus

valley elderberry longhorn beetle

Element Code: IICOL48011

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G3T2	CDFG Status:
State: None	State: S2	

Habitat Associations

General: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).

Micro: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Occurrence No. 3	Map Index: 09785	EO Index: 14458	Dates Last Seen
Occ Rank: Fair			Element: 1991-07-26
Origin: Natural/Native occurrence			Site: 1991-07-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1998-07-15

Quad Summary: Mt. Vaca (3812241/499A), Monticello Dam (3812251/515D)

County Summary: Yolo, Napa, Solano

Lat/Long: 38.50347° / -122.04067°	Township: 08N
UTM: Zone-10 N4262114 E583648	Range: 02W
Area: 500.2 acres	Section: 26
Elevation: 150 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: PUTAH CREEK, FROM MONTICELLO DAM 6 MILES EAST TO THE PUTAH DIVERSION CREEK DAM, SOLANO LAKE, ~3 MILES SW OF WINTERS

Location Detail: LOCATED IN SECTIONS 26, 27, 28, 29, AND 36.

Ecological: HABITAT CONSISTS OF ELDERBERRY/RIPARIAN ALONG STREAM BANKS.

Threat: POSSIBLE THREAT OF ELDERBERRY PRUNING IN THE VICINITY OF THE SOLANO LAKE PARKING LOT.

General: FOUR SPECIMENS FOUND ON SHRUBS EXPOSED TO SUNLIGHT AND ADJACENT TO OPEN FIELDS IN 1975. TWO ADULTS COLLECTED ALONG THE BANK IN 1985. A POSSIBLY-RECENT EXIT HOLE IN LIVE WOOD FOUND IN 1991.

Owner/Manager: SOL COUNTY

Occurrence No. 12	Map Index: 09658	EO Index: 22737	Dates Last Seen
Occ Rank: Unknown			Element: 1982-XX-XX
Origin: Natural/Native occurrence			Site: 1982-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-12-13

Quad Summary: Monticello Dam (3812251/515D), Mt. Vaca (3812241/499A)

County Summary: Yolo, Napa, Solano

Lat/Long: 38.50101° / -122.09970°	Township: 08N
UTM: Zone-10 N4261789 E578503	Range: 02W
Radius: 1 mile	Section: 32
Elevation: 500 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: G.L. STEBBINS UCLWR RESERVE, COLD CANYON, JUST BELOW MONTICELLO DAM ON PUTAH CREEK.

General: ONE COLLECTED IN 1982 BY SAM GON FROM UCD; COLLECTION MADE ALONG THE MAIN TRAIL WITHIN ONE MILE OF THE MAIN ENTRANCE TO THE RESERVE. NO VELB COLLECTIONS HAVE BEEN MADE HERE SINCE 1982.

Owner/Manager: UCNR-COLD CANYON RESERVE

Occurrence No. 80	Map Index: 33013	EO Index: 3790	Dates Last Seen
Occ Rank: Poor			Element: 1991-06-19
Origin: Natural/Native occurrence			Site: 1991-06-19
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1998-08-11

Quad Summary: Dixon (3812147/498A)

County Summary: Solano

Lat/Long: 38.44640° / -121.80328°	Township: 07N
UTM: Zone-10 N4256024 E604430	Range: 02E
Radius: 80 meters	Section: 18
Elevation: 55 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: DUDLEY CREEK, JUST EAST OF PEDRICK ROAD, 0.1 MILE NORTH OF DIXON AVENUE, JUST EAST OF DIXON.

Location Detail: REPORT ON: TAXONOMY; DISTRIBUTION; LIFE HISTORY; HABITAT; FIELD TECHNIQUES & OBSERVATIONS; BEETLE RECOVERY.

Ecological: HABITAT CONSISTS OF ELDERBERRIES (SAMBUCUS MEXICANA) GROWING ALONG THE FENCE OF A RESIDENCE, ADJACENT TO AN AGRICULTURAL FIELD.

General: ISOLATED CLUMP WITH A FEW OLD, CLEAN-CUT EXIT HOLES ON DEAD WOOD.

Owner/Manager: PVT

Desmocerus californicus dimorphus

valley elderberry longhorn beetle

Element Code: IICOL48011

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G3T2	CDFG Status:
State: None	State: S2	

Habitat Associations

General: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).
Micro: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Occurrence No. 91	Map Index: 33023	EO Index: 3711	Dates Last Seen
Occ Rank: Good			Element: 1991-06-18
Origin: Natural/Native occurrence			Site: 1991-06-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1998-08-11

Quad Summary: Fairfield North (3812231/499D)
County Summary: Napa

Lat/Long: 38.35367° / -122.12509°	Township: 06N
UTM: Zone-10 N4245418 E576444	Range: 02W
Radius: 80 meters	Section: 19
Elevation: 320 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: SUISUN CREEK, JUST BELOW GORDON VALLEY DAM ON LAKE CURRY, 7 MILES WEST OF VACAVILLE.
Location Detail: REPORT ON: TAXONOMY; DISTRIBUTION; LIFE HISTORY; HABITAT; FIELD TECHNIQUES & OBSERVATIONS; BEETLE RECOVERY.
General: AN OLD EXIT HOLE WAS FOUND ON AN ISOLATED ELDERBERRY CLUMP.
Owner/Manager: UNKNOWN

Occurrence No. 92	Map Index: 33024	EO Index: 3709	Dates Last Seen
Occ Rank: Good			Element: 1991-06-18
Origin: Natural/Native occurrence			Site: 1991-06-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1998-08-11

Quad Summary: Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.29252° / -122.09877°	Township: 05N
UTM: Zone-10 N4238655 E578811	Range: 02W
Radius: 80 meters	Section: 8
Elevation: 140 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: UNNAMED TRIBUTARY TO LEDGEWOOD CREEK, ALONG CLAYTON ROAD, 0.5 MILE NE OF GORDON VALLEY ROAD, 3 MILES NW OF FAIRFIELD.
Location Detail: REPORT ON: TAXONOMY; DISTRIBUTION; LIFE HISTORY; HABITAT; FIELD TECHNIQUES & OBSERVATIONS; BEETLE RECOVERY.
Ecological: HABITAT CONSISTS OF ELDERBERRIES GROWING ALONG A CREEK IN AN ORCHARD.
General: 4-5 CLUMPS OF ELDERBERRY; 1 OLD HOLE IN DEAD WOOD OBSERVED.
Owner/Manager: PVT

Occurrence No. 93	Map Index: 26483	EO Index: 3517	Dates Last Seen
Occ Rank: Unknown			Element: 1991-06-18
Origin: Natural/Native occurrence			Site: 1991-06-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1998-08-11

Quad Summary: Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.30257° / -122.10662°	Township: 05N
UTM: Zone-10 N4239764 E578113	Range: 02W
Area: 13.9 acres	Section: 5
Elevation: 145 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: GORDON VALLEY CREEK, IN THE VICINITY OF THE BRIDGE ON GORDON VALLEY ROAD (#B174), ~4 MILES NW OF FAIRFIELD.
Location Detail: REPORT ON: TAXONOMY; DISTRIBUTION; LIFE HISTORY; HABITAT; FIELD TECHNIQUES & OBSERVATIONS; BEETLE RECOVERY.
Ecological: HABITAT CONSISTS OF ONE RATHER LARGE, RELATIVELY YOUNG, ELDERBERRY CLUMP WITH MANY TRUNKS, AND 1 SMALL CLUMP ACROSS THE CREEK; SURROUNDED BY ORCHARDS AND FARMLAND.
General: POSSIBLE OLD EXIT HOLES IN DEAD WOOD OBSERVED.
Owner/Manager: PVT

Desmocerus californicus dimorphus

valley elderberry longhorn beetle

Element Code: IICOL48011

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G3T2	CDFG Status:
State: None	State: S2	

Habitat Associations

General: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).

Micro: PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Occurrence No. 95	Map Index: 33026	EO Index: 3712	Dates Last Seen
Occ Rank: Poor			Element: 1995-12-29
Origin: Natural/Native occurrence			Site: 1995-12-29
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1998-08-26

Quad Summary: Mt. Vaca (3812241/499A)

County Summary: Solano

Lat/Long: 38.47006° / -122.03987°	Township: 07N
UTM: Zone-10 N4258407 E583756	Range: 02W
Radius: 80 meters	Section: 12
Elevation: 200 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: PLEASANTS CREEK, ALONG PLEASANTS VALLEY ROAD, NEAR PLEASANTS VALLEY ROAD BRIDGE, ~5 MILES WNW OF ALLENDALE.

Location Detail: REPORT ON: TAXONOMY; DISTRIBUTION; LIFE HISTORY; HABITAT; FIELD TECHNIQUES & OBSERVATIONS; BEETLE RECOVERY.

Ecological: HABITAT CONSISTS OF SCATTERED CLUMPS OF STRESSED ELDERBERRIES.

General: 1 POSSIBLE RECENT EXIT HOLE OBSERVED, 1991. 1 EXIT HOLE OBSERVED, 1995.

Owner/Manager: UNKNOWN

Occurrence No. 192	Map Index: 48984	EO Index: 48984	Dates Last Seen
Occ Rank: Good			Element: 2002-09-12
Origin: Natural/Native occurrence			Site: 2002-09-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-10-09

Quad Summary: Fairfield North (3812231/499D)

County Summary: Solano

Lat/Long: 38.29133° / -122.04412°	Township: 05N
UTM: Zone-10 N4238571 E583591	Range: 02W
Radius: 80 meters	Section: 11
Elevation: 158 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: 0.5 MILE WEST OF I-80, ON THE NORTH EDGE OF FAIRFIELD

Location Detail: ELDERBERRY WITH EMERGENCE HOLES LOCATED ON THE SOUTH BANK OF THE CREEK BED; SMALLER SHRUBS FOUND ON BOTH BANKS.

Ecological: HABITAT CONSISTS OF A RIPARIAN CORRIDOR DOMINATED BY QUERCUS LOBATA, POPULUS FREMONTII, AESCULUS CALIFORNICA, CERCIS OCCIDENTALIS, AND ALNUS RHOMBIFOLIA, WITH AN UNDERSTORY OF TYPHA LATIFOLIA, JUNCUS XIPHIODES, AND JUNCUS EFFUSUS.

Threat: THREATENED BY DEVELOPMENT OF AN ELEMENTARY SCHOOL ON AN ADJACENT PARCEL.

General: VELB EMERGENCE HOLES FOUND ON A LARGE (BASAL DIAMETER = 14-16") ELDERBERRY ON 12 SEP 2002.

Owner/Manager: CITY OF FAIRFIELD

Occurrence No. 211	Map Index: 65054	EO Index: 65133	Dates Last Seen
Occ Rank: Fair			Element: 2004-05-12
Origin: Natural/Native occurrence			Site: 2004-05-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-07-10

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.23286° / -122.11258°	Township: 05N
UTM: Zone-10 N4232024 E577666	Range: 02W
Radius: 80 meters	Section: 32
Elevation: 40 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: ALONG SUISUN CREEK, ABOUT 0.1 MI NORTH OF I-80.

Location Detail: RIPARIAN AREA ALONG BIKE TRAIL.

Ecological: RIPARIAN HABITAT ALONG SUISUN CREEK; CANOPY DOMINATED BY QUERCUS AND JUGLANS SP. HOST PLANT (SAMBUCUS MEXICANA) FORMS A DISCONTINUOUS UNDERSTORY, OR IN SOME PLACES, COLONIES.

Threat: OCCASIONAL HERBICIDING AND OTHER MAINTENANCE ALONG CORRIDOR.

General: PRESENCE OF BORE HOLES FOUND IN A NUMBER OF DEAD BRANCHES/TRUNKS OF BLUE ELDERBERRY ALONG RIPARIAN CORRIDOR.

Owner/Manager: FAIRFIELD-SUISUN SEWER DIST

Downingia pusilla

dwarf downingia

Element Code: PDCAM060C0

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G3 CNPS List: 2.2
 State: None State: S3.1

Habitat Associations _____

General: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.
 Micro: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-485M.

Occurrence No. 1 Map Index: 10073 EO Index: 19619 Dates Last Seen _____
 Occ Rank: Unknown Element: 1893-04-XX
 Origin: Natural/Native occurrence Site: 1893-04-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2008-01-30

Quad Summary: Elmira (3812138/498C)
 County Summary: Solano

Lat/Long: 38.28879° / -121.96247° Township: 05N
 UTM: Zone-10 N4238367 E590735 Range: 01W
 Radius: 1 mile Mapping PrecisionNON-SPECIFIC Section: 10 Qtr: SW
 Elevation: 80 ft Symbol Type:POINT Meridian: M

Location: VANDEN.
 Location Detail: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB AS A BEST GUESS. VANDEN STATION WAS A SOUTHERN PACIFIC TRAIN STOP FIVE MILES SOUTH OF VACAVILLE.
 General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS AN 1893 COLLECTION BY BRANDEGEE.
 Owner/Manager: UNKNOWN

Occurrence No. 2 Map Index: 10592 EO Index: 17419 Dates Last Seen _____
 Occ Rank: Unknown Element: 1961-04-24
 Origin: Natural/Native occurrence Site: 1961-04-24
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1989-08-11

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.27851° / -121.80496° Township: 05N
 UTM: Zone-10 N4237392 E604524 Range: 02E
 Radius: 1/5 mile Mapping PrecisionNON-SPECIFIC Section: 18 Qtr: W
 Elevation: 10 ft Symbol Type:POINT Meridian: M

Location: BARKER SLOUGH 6.7 MILES SOUTH OF ELMIRA LATERAL, ABOUT 1 MILE SE OF DOZIER, ON DIXON-RIO VISTA ROAD.
 Ecological: MARGINS OF WATER. ASSOCIATED WITH LASTHENIA GLABERRIMA, LEGENERE LIMOSA, MYOSURUS MINIMUS, AND PSILOCARPUS OREGONUS.
 General: ABUNDANT IN 1961.
 Owner/Manager: UNKNOWN

Occurrence No. 3 Map Index: 24757 EO Index: 17420 Dates Last Seen _____
 Occ Rank: Good Element: 1990-04-08
 Origin: Natural/Native occurrence Site: 1990-04-08
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2008-02-13

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.27381° / -121.82219° Township: 05N
 UTM: Zone-10 N4236851 E603024 Range: 01E
 Area: 15.0 acres Mapping PrecisionSPECIFIC Section: 13 Qtr: SW
 Elevation: 20 ft Symbol Type:POLYGON Meridian: M

Location: NORTHERN MARGIN OF OLCOTT LAKE.
 Location Detail: THREE COLONIES ALONG THE N AND NE MARGIN OF OLCOTT LAKE, ON EITHER SIDE OF COOK LANE. FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97.
 Ecological: GROWING IN HOGWALLOWS, VERNAL POOLS, AND RUTS IN THE DIRT ROADS. MARGINS OF LARGE VERNAL LAKE. ASSOCIATED WITH PLAGIOBOTHRYUS AND NAVARRETIA.
 General: 50+ PLANTS IN 1982. 10,000+ PLANTS OBSERVED IN 1990 BETWEEN THIS OCCURRENCE AND OCCURRENCES #38, 46, 47, 48, AND 126 COMBINED. INCLUDES FORMER OCCURRENCE #49.
 Owner/Manager: SOLANO LAND TRUST

Downingia pusilla

dwarf downingia

Element Code: PDCAM060C0

Status: _____ NDDB Element Ranks: _____ Other Lists: _____
 Federal: None Global: G3 CNPS List: 2.2
 State: None State: S3.1

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.
 Micro: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-485M.

Occurrence No. 4 Map Index: 10523 EO Index: 5247 Dates Last Seen: _____
 Occ Rank: Good Element: 1990-03-28
 Origin: Natural/Native occurrence Site: 1990-03-28
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1994-08-08

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.28125° / -121.83879° Township: 05N
 UTM: Zone-10 N4237658 E601562 Range: 01E
 Area: 65.3 acres Mapping Precision: SPECIFIC Section: 14 Qtr: N
 Elevation: 20 ft Symbol Type: POLYGON Meridian: M

Location: ABOUT 0.5 MILE WEST OF THE JUNCTION OF COOK LANE AND THE SACRAMENTO NORTHERN RAILROAD, ABOUT 1 MILE WSW OF DOZIER.
 Location Detail: FOUND IN 80% OF THE 30+ VERNAL POOLS IN THIS AREA. MAPPED MOSTLY WITHIN THE CENTER OF THE NORTH HALF OF SECTION 14. SITE OF PROPOSED VEHICLE PARK.
 Ecological: VERNAL POOL DOMINATED BY PSILOCARPHUS AND PLANTAGO ERECTA; OTHER RARE SPECIES INCLUDE LEPIDIUM LATIPES (HECKARDII?) AND MYOSURUS MINIMUS SSP. APUS VAR. SESSILIFLORUS. SALTY AND ALKALINE SOILS.
 Threat: GRAZING, ALTERED HYDROLOGY; PLANNED FOR EXPANSION OF VACA VALLEY RACEWAY.
 General: THOUSANDS OF PLANTS OBSERVED IN 1990. LAND IS SEVERELY OVERGRAZED BY SHEEP. SITE IS ADJACENT TO THE JEPSON PRAIRIE PRESERVE (TNC).

Owner/Manager: PVT

Occurrence No. 5 Map Index: 10300 EO Index: 17416 Dates Last Seen: _____
 Occ Rank: Unknown Element: 1961-04-30
 Origin: Natural/Native occurrence Site: 1961-04-30
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1989-08-11

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.21462° / -121.89440° Township: 04N
 UTM: Zone-10 N4230205 E596786 Range: 01E
 Radius: 1 mile Mapping Precision: NON-SPECIFIC Section: 05 Qtr: SW
 Elevation: 30 ft Symbol Type: POINT Meridian: M

Location: BOTTOM OF GRAVEL PIT IN PASTURE ALONG HIGHWAY 12, 10.1 MILES EAST OF FAIRFIELD.
 Ecological: BOTTOM OF GRAVEL PIT IN PASTURE. ASSOCIATED WITH PSILOCARPHUS OREGONUS, ERYNGIUM SP. AND PLAGIOBOTHRYIS STIPITATUS.

Owner/Manager: UNKNOWN

Occurrence No. 31 Map Index: 10371 EO Index: 7661 Dates Last Seen: _____
 Occ Rank: Good Element: 1982-05-18
 Origin: Natural/Native occurrence Site: 1982-05-18
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1993-12-29

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.27595° / -121.87493° Township: 05N
 UTM: Zone-10 N4237031 E598408 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 16 Qtr: SW
 Elevation: 40 ft Symbol Type: POINT Meridian: M

Location: 2.75 AIR MILES WEST OF OLCOTT AND RAILROAD TRACKS, EAST OF TRAVIS AFB.
 Ecological: LARGE VERNAL POOL WITH CLAY BOTTOM. ASSOCIATED WITH DOWNINGIA, LASTHENIA, CALLITRICHE, AND PLAGIOBOTHRYIS CF. STIPITATUS.
 Threat: NO VISIBLE THREATS BUT OTHER POOLS NEARBY MODIFIED FOR WATERFOWL.
 General: ABOUT 10 PLANTS OBSERVED IN 1982, BUT MALLOCH WAS CONFIDENT THERE WERE MANY MORE PLANTS IN THE AREA.

Owner/Manager: PVT

Downingia pusilla

dwarf downingia

Element Code: PDCAM060C0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 2.2
State: None	State: S3.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.
Micro: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-485M.

Occurrence No. 34	Map Index: 10611	EO Index: 4560	Dates Last Seen
Occ Rank: Good			Element: 1991-05-02
Origin: Natural/Native occurrence			Site: 1994-05-29
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-11-01

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25860° / -121.79655°	Township: 05N
UTM: Zone-10 N4235192 E605289	Range: 02E
Radius: 80 meters	Section: 19
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: CALHOUN CUT ECOLOGICAL RESERVE, 0.5 MILE EAST OF HIGHWAY 113 AT CALHOUN CUT, EAST OF JEPSON PRAIRIE.
Location Detail: SMALL ARM OF HISTORIC LINDSEY SLOUGH BED WHICH WAS HYDROLOGICALLY ISOLATED WHEN CALHOUN CUT WAS DREDGED. BORDERED ON THE NORTH SIDE BY A LEVEE.
Ecological: VERNAL MARSH/POOL PLANT COMMUNITY DOMINATED BY CRYPHIS AND DISTICHLIS SPICATA. CLUMP OF SALIX OCCURS ON MARGIN OF THIS DEPRESSION.
Threat: AREA NO LONGER GRAZED ACCORDING TO WITHAM, 1994. COMPETITION FROM WEEDY PHYLLA NODIFLORA MAY BE A THREAT.
General: MORE THAN 1000 PLANTS SEEN IN 1986. PLANTS NOT SEEN IN 1994; SITE PROBABLY VISITED TOO LATE IN THE SEASON. HABITAT CONSIDERED INTACT AND STILL SUITABLE FOR THE SPECIES AT THAT TIME.
Owner/Manager: DFG-CALHOUN CUT ER

Occurrence No. 38	Map Index: 70816	EO Index: 6798	Dates Last Seen
Occ Rank: Good			Element: 2002-04-11
Origin: Natural/Native occurrence			Site: 2002-04-11
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-02-13

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26730° / -121.82596°	Township: 05N
UTM: Zone-10 N4236125 E602703	Range: 01E
Area: 15.0 acres	Section: 23
Elevation: 25 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: SOUTH OF OLCOTT LAKE, 0.1 TO 0.3 AIR MILE WEST OF COOK LANE, JEPSON PRAIRIE.
Location Detail: THREE COLONIES.
Ecological: IN VERNAL POOL. ASSOC WITH LASTHENIA GLABERRIMA, L. FREMONTII, ELEOCHARIS PALUSTRIS, PLAGIOBOTHRYUS STIPITATUS VAR. MICRANTHUS, PSILOCARPUS BREVISSIMUS, ALLOCARYA BRACTEATUS, PLEUROPOGON CALIFORNICUS, LEGENERE LIMOSA, & LASTHENIA FREMONTII.
Threat: SHEEP GRAZING OCCURS ON PART OF THIS LAND.
General: OVER 10,000 PLANTS OBSERVED IN 1990 BETWEEN THIS OCCURRENCE AND OCCURRENCES #3, 46, 47, 48, AND 126 COMBINED. D. PUSILLA ACCOUNTED FOR SIGNIFICANTLY LESS THAN 1% OF TOTAL PLANT COVER NOTED DURING 2002 VEGETATION SURVEYS AT THIS LOCATION.
Owner/Manager: SOLANO LAND TRUST

Downingia pusilla

dwarf downingia

Element Code: PDCAM060C0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 2.2
State: None	State: S3.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.

Micro: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-485M.

Occurrence No. 39	Map Index: 24745	EO Index: 9259	Dates Last Seen
Occ Rank: Good			Element: 1991-05-03
Origin: Natural/Native occurrence			Site: 1991-05-03
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1993-12-29

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.29236° / -121.86117°	Township: 05N	
UTM: Zone-10 N4238867 E599589	Range: 01E	
Area: 74.4 acres	Mapping Precision: SPECIFIC	Section: 09
Elevation: 35 ft	Symbol Type: POLYGON	Meridian: M
		Qtr: E

Location: 2.5 MILES WEST OF DOZIER, NORTH OF THE SACRAMENTO NORTHERN RAILROAD TRACKS.

Location Detail: FOURTEEN POOLS SCATTERED WITHIN THE EASTERN HALF OF SECTION 9.

Ecological: VERNAL POOLS. TYPICAL DOMINANT SPECIES INCLUDE ELEOCHARIS MACROSTACHYA, LASTHENIA FREMONTII, L. GLABERRIMA, ERYNGIUM ARISTULATUM, DISTICHLIS SPICATA, ALOPECURUS HOWELLII, PLEUROPOGON CALIFORNICUS, HORDEUM GENICULATUM, & DOWNINGIA CONCOLOR.

Threat: PARCEL IS CONSIDERED TO BE IN RELATIVELY GOOD SHAPE ALTHOUGH CURRENTLY UNDER WINTER CATTLE PASTURE.

General: OTHER RARE TAXA FOUND IN ONE OR MORE OF THESE POOLS INCLUDE LEPIDIUM LATIPES, ASTRAGALUS TENER TENER, GRATIOLA HETEROSEPALA, MYOSURUS MINIMUS APUS SESSILIFLORUS, AND CUSCUTA HOWELLIANA.

Owner/Manager: PVT

Occurrence No. 40	Map Index: 24746	EO Index: 9284	Dates Last Seen
Occ Rank: Good			Element: 1991-04-22
Origin: Natural/Native occurrence			Site: 1991-04-22
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1993-12-29

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.27842° / -121.86036°	Township: 05N	
UTM: Zone-10 N4237321 E599679	Range: 01E	
Radius: 80 meters	Mapping Precision: SPECIFIC	Section: 15
Elevation: 30 ft	Symbol Type: POINT	Meridian: M
		Qtr: W

Location: 2 MILES DUE WEST OF OLCOTT.

Location Detail: 0.5 MILE SOUTH OF THE SACRAMENTO NORTHERN RAILROAD TRACKS.

Ecological: GROWING IN A VERNAL POOL DOMINATED BY LASTHENIA FREMONTII, DESCHAMPSIA DANTHONIODES, PSILOCARPUS BREVISSIMUS, AND BLENNOSPERMA NANUM. ALSO ASSOCIATED WITH LEPIDIUM LATIPES.

Threat: AREA IN GOOD CONDITION ALTHOUGH IT IS USED AS WINTER CATTLE PASTURE.

Owner/Manager: PVT

Downingia pusilla

dwarf downingia

Element Code: PDCAM060C0

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G3 CNPS List: 2.2
 State: None State: S3.1

Habitat Associations _____

General: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.
 Micro: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-485M.

Occurrence No. 41 Map Index: 24748 EO Index: 9222 Dates Last Seen _____
 Occ Rank: Good Element: 1991-04-30
 Origin: Natural/Native occurrence Site: 1991-04-30
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1993-12-29

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.27167° / -121.86084° Township: 05N
 UTM: Zone-10 N4236572 E599646 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 16 Qtr: SE
 Elevation: 35 ft Symbol Type: POINT Meridian: M

Location: 2 MILES WEST OF OLCOTT LAKE.
 Location Detail: MAPPED IN EXTREME SOUTHEAST CORNER OF SECTION 16.
 Ecological: GROWING IN A VERNAL POOL WITH DESCHAMPSIA DANTHONIOIDES, DISTICHILIS SPICATA NANA, LASTHENIA FREMONTII, PSILOCARPUS BREVISSIMUS, AND MYOSURUS MINIMUS APUS SESSILIFLORUS.
 Threat: SITE UNDER PERMANENT CATTLE PASTURE.
 Owner/Manager: PVT

Occurrence No. 42 Map Index: 24749 EO Index: 17012 Dates Last Seen _____
 Occ Rank: Unknown Element: 1991-04-30
 Origin: Natural/Native occurrence Site: 1991-04-30
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1993-12-29

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.26620° / -121.86045° Township: 05N
 UTM: Zone-10 N4235965 E599688 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 22 Qtr: NW
 Elevation: 35 ft Symbol Type: POINT Meridian: M

Location: APPROXIMATELY 2.5 MILES WSW OF DOZIER.
 Location Detail: MAPPED 1.4 MILES SOUTH OF THE NORTHERN SACRAMENTO RAILROAD TRACKS AND 2 MILES WEST OF COOK LANE.
 Ecological: GROWING IN A VERNAL POOL IN ASSOCIATION WITH LASTHENIA FREMONTII, DESCHAMPSIA DANTHONIOIDES, AND LEGENERE LIMOSA.
 Threat: THIS AREA IS EXTREMELY OVERGRAZED AND THE POOLS ARE DAMAGED BY CATTLE TRAMPLING.
 Owner/Manager: PVT

Occurrence No. 43 Map Index: 24752 EO Index: 6814 Dates Last Seen _____
 Occ Rank: Good Element: 1991-05-07
 Origin: Natural/Native occurrence Site: 1991-05-07
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2004-03-16

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.25751° / -121.84755° Township: 05N
 UTM: Zone-10 N4235015 E600828 Range: 01E
 Area: 7.4 acres Mapping Precision: SPECIFIC Section: 22 Qtr: S
 Elevation: 30 ft Symbol Type: POLYGON Meridian: M

Location: 2.5 MILES SOUTHWEST OF DOZIER ALONG EITHER SIDE OF THE RAILROAD TRACKS.
 Location Detail: FOUND IN 7 OF THE POOLS IN THE VERNAL POOL COMPLEX NORTHWEST OF THE NORTHERN END OF CALHOUN CUT.
 Ecological: GROWING IN VERNAL POOLS. ASSOCIATED WITH LASTHENIA FREMONTII, L. GLABERRIMA, ALOPECURUS HOWELLII, ELEOCHARIS MACROSTACHYA, DESCHAMPSIA DANTHONIOIDES, HORDEUM GENICULATUM, VULPIA BROMOIDES, ERYNGIUM ARISTULATUM, AND DISTICHILIS SPICATA NANA.
 General: 1991 & 1993 TAYLOR COLLECTIONS "2 MILES SW OF OLCOTT..." LOCATED IN SECTION 27 ATTRIBUTED & FORMER OCCURRENCE #44 LUMPED HERE. RARE PLANTS PRESENT: ASTRAGALUS TENER V. TENER, CUSCUTA HOWELLIANA, GRATIOLA HETEROSEPALA, LEGENERE LIMOSA,
 Owner/Manager: PVT

Downingia pusilla

dwarf downingia

Element Code: PDCAM060C0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 2.2
State: None	State: S3.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.
Micro: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-485M.

Occurrence No. 45	Map Index: 13114	EO Index: 6805	Dates Last Seen
Occ Rank: Good			Element: 1995-04-23
Origin: Natural/Native occurrence			Site: 1995-04-23
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-09-06

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25829° / -121.80450°	Township: 05N
UTM: Zone-10 N4235149 E604593	Range: 02E
Area: 1.6 acres	Section: 19
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POLYGON	

Location: CALHOUN CUT ECOLOGICAL RESERVE, SOUTH SIDE OF CALHOUN CUT, EAST OF HIGHWAY 113, SOUTHEAST OF DOZIER.
Location Detail: TWO COLONIES: NORTH COLONY LOCATED WITHIN THE SW 1/4 OF THE SW 1/4 OF SECTION 19; SOUTH COLONY WITHIN THE NW 1/4 OF THE NW 1/4 OF SECTION 30.
Ecological: GROWING IN SMALL VERNAL MARSH, PLANT COMMUNITY JUST SOUTH OF THE SLOUGH ON HIGHER GROUND. ASSOCIATED WITH LEGENERE LIMOSA, CRASSULA AQUATICA, LILAEA SCILLOIDES, ELEOCHARIS MACROSTACHYA, DISTICHLIS SPICATA, PLAGIOBOTHRYUS UNDULATUS, ET AL.
Threat: POSSIBLE GRAZING, COMPETITION FROM WEEDY PHYLAs NODIFLORA, AND REDUCTION OF USABLE HABITAT VIA DEAD BIOMASS BUILD-UP.
General: SITE IS WITHIN THE DFG CALHOUN CUT ECOLOGICAL RESERVE. N COLONY: HUNDREDS OF PLANTS SEEN IN 1990, 100+ IN 1994. NO GRAZING IN 1994. S COLONY: <100 PLANTS IN 1990. COLLECTED HERE BY SCHULTHEIS IN 1995.

Owner/Manager: DFG-CALHOUN CUT ER

Occurrence No. 46	Map Index: 24759	EO Index: 6810	Dates Last Seen
Occ Rank: Good			Element: 1990-04-08
Origin: Natural/Native occurrence			Site: 1990-04-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1993-11-11

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26287° / -121.82059°	Township: 05N
UTM: Zone-10 N4235639 E603180	Range: 01E
Radius: 80 meters	Section: 24
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: N
Symbol Type: POINT	

Location: BETWEEN OLCOTT LAKE AND CALHOUN CUT, APPROXIMATELY 200 METERS EAST OF COOK LANE.
Location Detail: COOK LANE IS ROAD RUNNING NORTH-SOUTH THROUGH OLCOTT. FORMERLY TNC JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS AND OPEN SPACE ON 8/97. TNC RETAINS CONSERVATION EASEMENT.
Ecological: GROWING IN HOGWALLOWS, VERNAL POOLS, AND RUTS IN THE DIRT ROADS.
General: 10,000+ PLANTS ESTIMATED IN 1990 BETWEEN THIS OCCURRENCE AND OCCURRENCES #3, 38, 47, 48 AND 126 COMBINED.
Owner/Manager: SOLANO LAND TRUST

Downingia pusilla

dwarf downingia

Element Code: PDCAM060C0

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G3 State: S3.1	CNPS List: 2.2

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.
Micro: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-485M.

Occurrence No. 47	Map Index: 24760	EO Index: 6808	Dates Last Seen
Occ Rank: Good			Element: 1990-04-08
Origin: Natural/Native occurrence			Site: 1990-04-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-02-13

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25952° / -121.81433°	Township: 05N
UTM: Zone-10 N4235274 E603731	Range: 01E
Area: 10.0 acres	Section: 24
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: ALONG MARGINS OF NORTHERN ARM OF CALHOUN CUT, JUST WEST OF HIGHWAY 113.
Location Detail: TWO COLONIES APPROXIMATELY 1.7 MILES SOUTH OF DOZIER AND 0.5 MILE WEST OF HIGHWAY 113. FORMERLY TNC JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS AND OPEN SPACE ON 8/97. TNC RETAINS CONSERVATION EASEMENT.
Ecological: GROWING IN HOGWALLOWS, VERNAL POOLS, AND RUTS IN THE DIRT ROADS.
General: 10,000+ PLANTS ESTIMATED IN 1990 BETWEEN THIS OCCURRENCE AND OCCURRENCES #3, 38, 46, 48 AND 126 COMBINED.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 48	Map Index: 24762	EO Index: 6804	Dates Last Seen
Occ Rank: Good			Element: 1990-04-08
Origin: Natural/Native occurrence			Site: 1990-04-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1993-11-11

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27140° / -121.80839°	Township: 05N
UTM: Zone-10 N4236599 E604235	Range: 01E
Radius: 80 meters	Section: 13
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: 0.7 MILE EAST OF OLCOTT LAKE.
Location Detail: MAPPED WITHIN THE SE 1/4 OF THE SE 1/4 OF SECTION 13; APPROXIMATELY 250 METERS WEST OF HWY 113 NEAR HEAD OF DRAINAGE INTO BARKER SLOUGH. FORMERLY TNC JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS AND OPEN SPACE ON 8/97.
Ecological: GROWING IN HOGWALLOWS, VERNAL POOLS, AND RUTS IN THE DIRT ROADS.
General: 10,000+ PLANTS ESTIMATED IN 1990 BETWEEN THIS OCCURRENCE AND OCCURRENCES #3, 38, 46, 47, AND 126 COMBINED.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 92	Map Index: 39023	EO Index: 34030	Dates Last Seen
Occ Rank: Fair			Element: 1998-05-08
Origin: Natural/Native occurrence			Site: 1998-05-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1998-06-22

Quad Summary: Allendale (3812148/498B)
County Summary: Solano

Lat/Long: 38.39767° / -121.94467°	Township: 06N
UTM: Zone-10 N4250466 E592153	Range: 01W
Area: 3.3 acres	Section: 02
Elevation: 95 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: ABOUT 1.5 MILES WSW OF VACA DIXON SUBSTATION, 0.2 MILE EAST OF I-505, 0.6 MILE WEST OF LEISURE TOWN ROAD.
Ecological: AMONG DENSE ELEOCHARIS MACROSTACHYA, CALLITRICHE MARGINATA, AND LASTHENIA GLABERRIMA.
Threat: PROPOSED DEVELOPMENT, CATTLE GRAZING; PROPERTY HAS BEEN DRY-FARMED IN THE PAST.
General: 250,000 PLANTS ESTIMATED IN 1998.
Owner/Manager: UNKNOWN

Downingia pusilla

dwarf downingia

Element Code: PDCAM060C0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 2.2
State: None	State: S3.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.
Micro: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-485M.

Occurrence No. 112	Map Index: 54686	EO Index: 54686	Dates Last Seen
Occ Rank: Good			Element: 2003-04-30
Origin: Natural/Native occurrence			Site: 2003-04-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-03-11

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.29542° / -121.80140°	Township: 05N
UTM: Zone-10 N4239273 E604811	Range: 02E
Radius: 80 meters	Section: 07
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: NORTHEAST OF DOZIER, JUST SOUTHEAST OF WINDMILL.
Location Detail: ONE COLONY LOCATED PRIMARILY IN THE SW 1/4 OF THE NW 1/4 OF SECTION 7.
Ecological: LARGE ALKALINE PLAYA POOL, PONDED TO ABOUT 50% IN NON-NATIVE GRASSLAND (SOME NASELLA). ASSOCIATED WITH TYPICAL VERNAL POOL SPECIES, INCLUDING LASTHENIA FREMONTII, DOWNINGIA INSIGNIS, D. CONCOLOR, PLAGIOBOTHRYUS STIPITATUS, LASTHENIA ET AL.
Threat: GRAZING, TRAMPLING, AND DUNG FROM GOATS AND SHEEP ON SITE.
General: 10,000+ INDIVIDUALS OBSERVED IN 2003. RARE ATRIPLEX CORDULATA ALSO HERE.
Owner/Manager: PVT-WETLANDS RESOURCES

Occurrence No. 113	Map Index: 54687	EO Index: 54687	Dates Last Seen
Occ Rank: Good			Element: 2003-04-15
Origin: Natural/Native occurrence			Site: 2003-04-15
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-03-11

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26571° / -121.88056°	Township: 05N
UTM: Zone-10 N4235890 E597929	Range: 01E
Radius: 80 meters	Section: 20
Elevation: 40 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: EAST OF TRAVIS AIR FORCE BASE, APPROXIMATELY 0.4 AIR MILE EAST OF POWERLINES, JUST NORTH OF JEEP TRAIL.
Location Detail: ONE COLONY MAPPED IN THE SE 1/4 OF THE NE 1/4 OF SECTION 20.
Ecological: VERNAL POOL / SWALE ON SOLANO LOAM WITH LASTHENIA FREMONTII, PLAGIOBOTHRYUS STIPITATUS, P. BREVISSIMUS, AND DOWNINGIA SSP. RARE PLANTS NEAR THIS SITE: ORCUTTIA INAEQUALIS, NAVARRETIA LEUCOCEPHALA SSP. BAKERI, AND ASTRAGALUS TENER VAR. TENER.
Threat: GRAZING AND TRAMPLING BY CATTLE. MUZZY RANCH PROPOSED AS MITIGATION BANK.
General: 10 INDIVIDUALS OBSERVED IN 2003.
Owner/Manager: PVT

Downingia pusilla

dwarf downingia

Element Code: PDCAM060C0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 2.2
State: None	State: S3.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.

Micro: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-485M.

Occurrence No. 126	Map Index: 70819	EO Index: 71733	Dates Last Seen
Occ Rank: Unknown			Element: 1995-04-23
Origin: Natural/Native occurrence			Site: 1995-04-23
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-02-13

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.28208° / -121.82253°	Township: 05N
UTM: Zone-10 N4237768 E602983	Range: 01E
Area: 9.0 acres	Mapping Precision: SPECIFIC
Elevation: 20 ft	Section: 13
	Meridian: M
	Symbol Type: POLYGON
	Qtr: NW

Location: JUST SOUTH OF BARKER SLOUGH, BETWEEN COOK LANE AND THE RAILROAD TRACKS, JEPSON PRAIRIE.

Location Detail: IN THE NW 1/4 OF THE NW 1/4 OF SECTION 13.

Ecological: VERNAL POOLS.

General: 10,000+ PLANTS ESTIMATED IN 1990 BETWEEN THIS OCCURRENCE AND OCCURRENCES #3, 38, 46, 47, AND 48 COMBINED.

Owner/Manager: SOLANO LAND TRUST

Dumontia oregonensis

hairy water flea

Element Code: ICBRA23010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1G3	CDFG Status:
State: None	State: S1	

Habitat Associations

General: VERNAL POOLS. IN CALIFORNIA, KNOWN ONLY FROM MATHER FIELD.

Micro:

Occurrence No. 2	Map Index: 65266	EO Index: 65345	Dates Last Seen
Occ Rank: Good			Element: 2006-01-09
Origin: Natural/Native occurrence			Site: 2006-01-09
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-07-20

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.24442° / -121.96853°	Township: 05N
UTM: Zone-10 N4233437 E590259	Range: 01W
Area: 14.0 acres	Section: 27
Elevation: 26 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: SW CORNER OF TRAVIS AFB NEAR SOUTH GATE ENTRANCE, JUST N OF SCANDIA RD, ABOUT 3.7 MI E OF FAIRFIELD AND 1 MI N HWY 12.

Ecological: VERNAL POOLS WITHIN GRAZED PASTURE LAND; LARGE BROAD POOLS WITH SCATTERED CYPERUS ERAGROSTIS, ELEOCHARIS MACROSTACHYA, AND GLYCERIA OCCIDENTALIS. ANTIOCH-SAN YSIDRO COMPLEX SOIL TYPE; 0-2% SLOPES (NRCS 1997 SOIL SURVEY FOR SOLANO CO.)

Threat: MOSQUITOFISH (GAMBUSIA AFFINIS) INADVERTANTLY INTRODUCED INTO AREA IN 2006.

General: 100'S OF ADULTS OBSERVED.

Owner/Manager: DOD-TRAVIS AFB

Elanus leucurus

white-tailed kite

Element Code: ABNKC06010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: None	State: S3	

Habitat Associations

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

Occurrence No. 47	Map Index: 24958	EO Index: 6354	Dates Last Seen
Occ Rank: Good			Element: 1993-06-22
Origin: Natural/Native occurrence			Site: 1993-06-22
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1994-01-31

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.40678° / -121.85894°	Township: 07N
UTM: Zone-10 N4251566 E599627	Range: 01E
Radius: 80 meters	Section: 34
Elevation: 60 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: EAST SIDE OF BATAVIA ROAD, 0.7 MILE SOUTH OF MIDWAY ROAD, 6 MILES EAST OF ELMIRA.
Ecological: HABITAT IS A MIXTURE OF PINES, EUCALYPTUS, POPLAR, WILLOW, AND PASTURE ALONG A SMALL RIPARIAN AREA.
General: 2 ADULTS FLEDGED 3 YOUNG IN 1993. SWAINSON'S HAWKS, WHICH ALSO NEST IN THIS AREA, WERE REPEATEDLY CHASED BY THE ADULT KITES.
Owner/Manager: UNKNOWN

Occurrence No. 48	Map Index: 25472	EO Index: 27031	Dates Last Seen
Occ Rank: Good			Element: 1993-05-15
Origin: Natural/Native occurrence			Site: 1993-05-15
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1994-01-31

Quad Summary: Saxon (3812146/497B)
County Summary: Solano

Lat/Long: 38.41486° / -121.72216°	Township: 07N
UTM: Zone-10 N4252619 E611558	Range: 02E
Radius: 80 meters	Section: 35
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: SW CORNER OF THE INTERSECTION OF MIDWAY AND BULKLEY ROADS, 10.5 MILES EAST OF DIXON.
Ecological: HABITAT CONSISTS OF VARIOUS EUCALYPTUS, PINE, AND POPLARS, BORDERED BY FALLOW PASTURE THAT IS PART OF A HOUSING COMPOUND FOR FARM WORKERS.
Threat: THREATENED BY HUMAN ACTIVITIES, SHOOTING, AND POISONING.
General: 2 ADULTS FLEDGED 4 YOUNG IN 1993; 2ND, 3RD, 4TH, AND 5TH KITE NESTS TO THE EAST AND WEST OF THIS NEST FAILED DUE TO SWAINSON'S HAWK DOMINATION OF THE TERRITORY.
Owner/Manager: PVT

Occurrence No. 49	Map Index: 25470	EO Index: 11806	Dates Last Seen
Occ Rank: Good			Element: 1993-04-25
Origin: Natural/Native occurrence			Site: 1993-04-25
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-11-02

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo, Solano

Lat/Long: 38.49283° / -121.69287°	Township: 08N
UTM: Zone-10 N4261307 E613992	Range: 03E
Radius: 1/5 mile	Section: 31
Elevation: 30 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: EAST SIDE OF ROAD 104, SOUTH OF THE INTERSECTION OF TREMONT ROAD, YOLO COUNTY PARK.
Ecological: NEST TREE IS A EUCALYPTUS WITHIN A HEDGEROW; FORAGING HABITAT CONSISTS OF "MANAGED" NATIVE VEGETATION, BORDERED BY AGRICULTURAL FIELDS TO THE NORTH, WEST, AND SOUTH.
General: 2 ADULTS FLEDGED 3 YOUNG IN 1993; NESTING SWAINSON'S HAWK NEARBY SOMETIMES OBSERVED IN CONFLICT WITH THE KITES (ALWAYS THE KITES PURSUING THE HAWKS).
Owner/Manager: YOL COUNTY

Elanus leucurus

white-tailed kite

Element Code: ABNKC06010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: None	State: S3	

Habitat Associations

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

Occurrence No. 57	Map Index: 46097	EO Index: 46097	Dates Last Seen
Occ Rank: Fair			Element: 2001-06-14
Origin: Natural/Native occurrence			Site: 2001-06-14
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2001-10-10

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.38734° / -121.92388°	Township: 06N
UTM: Zone-10 N4249341 E593982	Range: 01W
Radius: 80 meters	Section: 12
Elevation: 80 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: 0.1 MILE NORTH OF WALNUT ROAD AND 0.1 MILE EAST OF WILLOW ROAD, ALONG THE NORTH EDGE OF VACAVILLE
Location Detail: 2000 NEST TREE WAS THE FOURTH TREE EAST OF THE DRIVE TO #5165. 2001 NEST TREE WAS A WILLOW NORTH OF THE BUILDINGS AND SOUTH OF THE IRRIGATION CANAL.
Ecological: HABITAT CONSISTS OF THE SEMI-URBAN FRINGE OF VACAVILLE. SURROUNDING AREA CONSISTS OF SOME PASTURE SOUTH AND WEST; RUDERAL TO THE NORTH WITH NEW DIRT FILL.
General: PAIR NESTED IN 2000. NEST SITE WAS MONITORED FROM 2 MAY-14 JUN 2001 (3 VISITS); 2 CHICKS OBSERVED ON 27 MAY 2001, 2 YOUNG FLEDGED.

Owner/Manager: PVT

Occurrence No. 58	Map Index: 46099	EO Index: 46099	Dates Last Seen
Occ Rank: Excellent			Element: 2001-07-09
Origin: Natural/Native occurrence			Site: 2001-07-09
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2001-10-10

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.37983° / -121.89208°	Township: 06N
UTM: Zone-10 N4248540 E596769	Range: 01E
Radius: 80 meters	Section: 08
Elevation: 60 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: 0.25 MILE EAST OF LEWIS ROAD, 6 MILES SW OF DIXON
Location Detail: NEST TREE IS LOCATED ON LEWIS ROAD FARMSTEAD #6654, WITHIN A ROW OF OSAGE ORANGES.
Ecological: NEST TREE IS IN AN OSAGE ORANGE. SWHA NEST IS FOUND FURTHER DOWN IN THE SAME ROW OF TREES.
General: NEST SITE WAS MONITORED FROM 3 APR-9 JUL 2001 (9 VISITS); 2 CHICKS OBSERVED ON 9 JUL 2001, 2 FLEDGED.

Owner/Manager: PVT

Occurrence No. 97	Map Index: 65931	EO Index: 66010	Dates Last Seen
Occ Rank: Good			Element: 2004-05-XX
Origin: Natural/Native occurrence			Site: 2004-05-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-08-21

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.22624° / -122.10698°	Township: 04N
UTM: Zone-10 N4231295 E578163	Range: 02W
Radius: 1/10 mile	Section: 05
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: JUST EAST OF SUISIN CREEK, ABOUT 0.5 MI SOUTH OF I-80.
Location Detail: NEST IS LOCATED AT THE TOP OF A LIVE OAK TREE.
Ecological: LIVE OAK WOODLAND ADJACENT TO RR TRACKS.
General: 2 ADULTS AND 2 JUVENILES OBSERVED IN MAY 2004.

Owner/Manager: PVT

Elaphrus viridis

Delta green ground beetle

Element Code: IICOL36010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: Threatened **Global:** G1 **CDFG Status:**
State: None **State:** S1

Habitat Associations

General: RESTRICTED TO THE MARGINS OF VERNAL POOLS IN THE GRASSLAND AREA BETWEEN JEPSON PRAIRIE AND TRAVIS AFB.
Micro: PREFERS THE SANDY MUD SUBSTRATE WHERE IT SLOPES GENTLY INTO THE WATER, WITH LOW-GROWING VEGETATION, 25-100% COVER.

Occurrence No. 2 **Map Index:** 10558 **EO Index:** 23142 **Dates Last Seen** _____
Occ Rank: None **Element:** 1986-XX-XX
Origin: Natural/Native occurrence **Site:** 1986-XX-XX
Presence: Extirpated
Trend: Unknown **Record Last Updated:** 1991-07-24

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.29352° / -121.82053° **Township:** 05N
UTM: Zone-10 N4239040 E603141 **Range:** 01E
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 12 **Qtr:** NW
Elevation: 15 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.6 MI N OF DOZIER.

Ecological: BEETLE USES MUD CRACKS NEAR THE MARGINS OF VERNAL POOLS AS A REFUGIUM.

General: ORIGINAL SITE HAS BEEN PLOWED. 5 SPECIMENS COLLECTED IN 1975 AND 3 ON 11 MAY 1974. 193 SEEN IN 1985, 27 SEEN IN 1986 (FEB & MAR ARE BEST VIEWING TIMES, BUT FLOODED OUT IN 1986).

Owner/Manager: UNKNOWN

Occurrence No. 4 **Map Index:** 10451 **EO Index:** 13327 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2002-02-21
Origin: Natural/Native occurrence **Site:** 2002-02-21
Presence: Presumed Extant
Trend: Fluctuating **Record Last Updated:** 2005-06-20

Quad Summary: Elmira (3812138/498C), Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.26297° / -121.85122° **Township:** 05N
UTM: Zone-10 N4235616 E600500 **Range:** 01E
Area: 2,150.4 acres **Mapping Precision:**SPECIFIC **Section:** 22 **Qtr:** XX
Elevation: 30 ft **Symbol Type:**POLYGON **Meridian:** M

Location: JEPSON PRAIRIE AND VICINITY, SOUTHWEST OF DOZIER.

Location Detail: BEETLES HAVE BEEN OBSERVED AT MANY VERNAL POOLS WITHIN THE SURVEY AREA AND HAVE BEEN OBSERVED HUNDREDS OF METERS FROM VERNAL POOLS. THEY HAVE ALSO BEEN FOUND ALONG THE ROADSIDE SHOULDER OF COOK LANE.

Ecological: THE ENTIRE GRASSLAND/VERNAL POOL MATRIX SHOULD BE CONSIDERED BEETLE HABITAT; QUALITY OF HABITAT RANGES FROM GOOD TO POOR.

Threat: THREATS INCLUDE AGRICULTURAL CONVERSION, HEAVY GRAZING, HOUSING DEVELOPMENT & RAPID SPREAD OF THE WEED LIPIA NODIFLORA.

General: FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. IN 1989, 10 BEETLES SIGHTED AT OLCOTT POOL DURING 9 HRS OF OBSERVATION OVER A PERIOD OF THREE DAYS.

Owner/Manager: SOLANO LAND TRUST

Occurrence No. 5 **Map Index:** 41827 **EO Index:** 41827 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 1999-03-11
Origin: Natural/Native occurrence **Site:** 1999-03-11
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1999-11-01

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.29637° / -121.85295° **Township:** 05N
UTM: Zone-10 N4239321 E600302 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 10 **Qtr:** NW
Elevation: 30 ft **Symbol Type:**POINT **Meridian:** M

Location: 1.6 MILES WEST OF HWY 113 AND 0.25 MILE SOUTH OF BURKE ROAD, 2 MILES WNW OF DOZIER.

Location Detail: BEETLES OBSERVED FORAGING IN SPARSE VEGETATION ALONG THE DAMP MARGIN OF THE POOL. THIS WAS ONLY SITE SURVEYED, PROBABLY OCCURS ON OTHER PLAYAS NEARBY.

Ecological: LARGE, SHALLOW, UNVEGETATED & TURBID VERNAL POOL ON SOLANO LOAM SOILS WITHIN ANTIOCH-SAN YSIDRO COMPLEX; AREA IS LIGHTLY GRAZED BY SHEEP & CATTLE. BRANCHINECTA CONSERVATIO, B. LYNCHI, & LEPIDURUS PACKARDI OBS NEARBY.

General: >7 INDIVIDUALS OBSERVED ON 24 FEB, 2 MAR, AND 11 MAR 1999.

Owner/Manager: PVT-BURKE RANCH

Elaphrus viridis

Delta green ground beetle

Element Code: IICOL36010

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G1	CDFG Status:
State: None	State: S1	

Habitat Associations

General: RESTRICTED TO THE MARGINS OF VERNAL POOLS IN THE GRASSLAND AREA BETWEEN JEPSON PRAIRIE AND TRAVIS AFB.
Micro: PREFERS THE SANDY MUD SUBSTRATE WHERE IT SLOPES GENTLY INTO THE WATER, WITH LOW-GROWING VEGETATION, 25-100% COVER.

Occurrence No. 6	Map Index: 61647	EO Index: 61683	Dates Last Seen
Occ Rank: Unknown			Element: 2002-02-21
Origin: Natural/Native occurrence			Site: 2002-02-21
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-06-20

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26016° / -121.89766°	UTM: Zone-10 N4235255 E596440	Area: 4.8 acres	Elevation: 37 ft
	Mapping Precision: SPECIFIC	Symbol Type: POLYGON	
	Township: 05N	Range: 01E	Section: 20
	Meridian: M		Qtr: XX

Location: ABOUT 4.6 MILES SOUTHWEST OF DOZIER.
Location Detail: VERNAL POOL #11.
General: NUMBER OF INDIVIDUALS NOT RECORDED.
Owner/Manager: UNKNOWN

Occurrence No. 7	Map Index: 61648	EO Index: 61684	Dates Last Seen
Occ Rank: Unknown			Element: 2002-02-21
Origin: Natural/Native occurrence			Site: 2002-02-21
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-06-20

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.25712° / -121.90577°	UTM: Zone-10 N4234910 E595735	Area: 21.7 acres	Elevation: 47 ft
	Mapping Precision: SPECIFIC	Symbol Type: POLYGON	
	Township: 05N	Range: 01E	Section: 30
	Meridian: M		Qtr: XX

Location: ABOUT 5.0 MILES SOUTHWEST OF DOZIER.
Location Detail: TAKEN FROM NORTHEAST AND NORTHWEST EDGES OF VERNAL POOL #12.
General: NUMBER OF INDIVIDUALS NOT RECORDED.
Owner/Manager: UNKNOWN

Elaphrus viridis

Delta green ground beetle

Element Code: IICOL36010

Status
 Federal: Threatened
 State: None

NDDB Element Ranks
 Global: G1
 State: S1

Other Lists
 CDFG Status:

Habitat Associations

General: RESTRICTED TO THE MARGINS OF VERNAL POOLS IN THE GRASSLAND AREA BETWEEN JEPSON PRAIRIE AND TRAVIS AFB.
 Micro: PREFERS THE SANDY MUD SUBSTRATE WHERE IT SLOPES GENTLY INTO THE WATER, WITH LOW-GROWING VEGETATION, 25-100% COVER.

Occurrence No. 8 Map Index: 61649 EO Index: 61685 Dates Last Seen
 Occ Rank: Unknown Element: 2002-02-21
 Origin: Natural/Native occurrence Site: 2002-02-21
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-06-20

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.24766° / -121.88685° Township: 05N
 UTM: Zone-10 N4233880 E597403 Range: 01E
 Area: 23.9 acres Mapping Precision: SPECIFIC Section: 29 Qtr: XX
 Elevation: 36 ft Symbol Type: POLYGON Meridian: M

Location: ABOUT 4.6 MILES SOUTHWEST OF DOZIER.
 Location Detail: VERNAL POOL #14.
 General: NUMBER OF INDIVIDUALS NOT RECORDED.
 Owner/Manager: UNKNOWN

Occurrence No. 9 Map Index: 61650 EO Index: 61686 Dates Last Seen
 Occ Rank: Unknown Element: 2002-02-21
 Origin: Natural/Native occurrence Site: 2002-02-21
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-06-20

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.24640° / -121.88060° Township: 05N
 UTM: Zone-10 N4233747 E597951 Range: 01E
 Area: 3.5 acres Mapping Precision: SPECIFIC Section: 29 Qtr: XX
 Elevation: 36 ft Symbol Type: POLYGON Meridian: M

Location: ABOUT 4.3 MILES SOUTHWEST OF DOZIER.
 Location Detail: VERNAL POOL #16.
 General: NUMBER OF INDIVIDUALS NOT RECORDED.
 Owner/Manager: UNKNOWN

Eriogonum truncatum

Mt. Diablo buckwheat

Element Code: PDPGN085Z0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: CHAPARRAL, COASTAL SCRUB, VALLEY AND FOOTHILL GRASSLAND.
Micro: DRY, EXPOSED CLAY OR SANDY SUBSTRATES. 100-600M.

Occurrence No. 8	Map Index: 56465	EO Index: 60629	Dates Last Seen
Occ Rank: Unknown			Element: 1888-08-03
Origin: Natural/Native occurrence			Site: 1888-08-03
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-03-16

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.23849° / -122.04013°	Township: 05N
UTM: Zone-10 N4232712 E584000	Range: 02W
Radius: 3/5 mile	Section: 36 Qtr: XX
Elevation:	Meridian: M
Mapping Precision: NON-SPECIFIC	Symbol Type: POINT

Location: SUISUN CITY.
Location Detail: BASED ON COLLECTION FROM "SUISUN" (EARLE SN) AND MAPPED AS BEST GUESS IN THE VICINITY OF SUISUN CITY. EXACT LOCATION UNKNOWN.
General: ONLY SOURCE IS 1888 COLLECTION. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Fritillaria liliacea

fragrant fritillary

Element Code: PMLILOV0C0

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None Global: G2 CNPS List: 1B.2
 State: None State: S2.2

Habitat Associations

General: COASTAL SCRUB, VALLEY AND FOOTHILL GRASSLAND, COASTAL PRAIRIE.
Micro: OFTEN ON SERPENTINE; VARIOUS SOILS REPORTED THOUGH USUALLY CLAY, IN GRASSLAND. 3-410M.

Occurrence No. 1 **Map Index:** 10545 **EO Index:** 6793 **Dates Last Seen** _____
Occ Rank: Good **Element:** 1994-03-31
Origin: Natural/Native occurrence **Site:** 1994-03-31
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-03-30

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27056° / -121.83045° **Township:** 05N
UTM: Zone-10 N4236482 E602306 **Range:** 01E
Area: 22.0 acres **Mapping Precision:** SPECIFIC **Section:** 23 **Qtr:** NE
Elevation: 25 ft **Symbol Type:** POLYGON **Meridian:** M

Location: FROM 0.2 TO 1.5 MILES SW OF DOZIER, NEAR SACRAMENTO NORTHERN RR ALONG N, W, AND SW EDGE OF OLCOTT VERNAL LAKE.
Location Detail: MAPPED AS THREE MAIN COLONIES. ALONG EITHER SIDE OF RR TRACKS. PLANTS MAY OCCUR AROUND THE ENTIRE LAKE ACCORDING TO YORK, 1982.
Ecological: VERNAL POOL, GRASSLAND, MIMA MOUNDS. SCATTERED IN SWALES NEAR EDGE OF VERNAL POOL/LAKE. ASSOCIATED WITH BROMUS, ERODIUM, TRIPHYSARIA ERIANTHA, SENECIO VULGARE, DISTICHLIS, AND LACTUCA. SOILS ARE PESCADERO CLAY. LOW RAINFALL IN 1994.
Threat: FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO LAND TRUST ON 8/97. TNC RETAINS CONS. EASEMENT.
General: ON N SIDE OF LAKE, <50 PLANTS OBSERVED IN 1980, <1,000 IN 1982. IN 1983, APPROX. 20 PLANTS ON W AND SW SIDES, <10,000 ON N SIDE; 100+ ON SW SIDE IN 1990; 100+ ON N SIDE IN 1994. POSS. MIS-ID IN 1983 (JENSEN). INCLUDES FORMER EO #2.

Owner/Manager: SOLANO LAND TRUST

Occurrence No. 3 **Map Index:** 10555 **EO Index:** 21982 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1983-03-20
Origin: Natural/Native occurrence **Site:** 1983-03-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1995-10-11

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.28101° / -121.82274° **Township:** 05N
UTM: Zone-10 N4237650 E602966 **Range:** 01E
Radius: 1/5 mile **Mapping Precision:** NON-SPECIFIC **Section:** 13 **Qtr:** NW
Elevation: 23 ft **Symbol Type:** POINT **Meridian:** M

Location: ABOUT 0.5 MILE SOUTHWEST OF DOZIER, JUST WEST OF SACRAMENTO NORTHERN RR, ON EAST SIDE OF COOK LANE.
Location Detail: FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97.
Ecological: MIMA MOUNDS AND VERNAL POOL AREA.
Threat: AREA HEAVILY GRAZED.
General: SPECIES SEARCHED FOR BUT NOT FOUND IN 1983.

Owner/Manager: SOLANO LAND TRUST

Fritillaria liliacea

fragrant fritillary

Element Code: PMLILOV0C0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: COASTAL SCRUB, VALLEY AND FOOTHILL GRASSLAND, COASTAL PRAIRIE.
Micro: OFTEN ON SERPENTINE; VARIOUS SOILS REPORTED THOUGH USUALLY CLAY, IN GRASSLAND. 3-410M.

Occurrence No. 4	Map Index: 10567	EO Index: 5642	Dates Last Seen
Occ Rank: Excellent			Element: 2000-03-19
Origin: Natural/Native occurrence			Site: 2000-03-19
Presence: Presumed Extant			
Trend: Decreasing			Record Last Updated: 2003-06-17

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26115° / -121.81460°	Township: 05N
UTM: Zone-10 N4235455 E603706	Range: 01E
Area: 15.4 acres	Section: 24
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: S
Symbol Type: POLYGON	

Location: JEPSON PRAIRIE, NORTH & WEST OF CALHOUN CUT.
Location Detail: APPROX. 1.2 KM (0.8 MI) SOUTHEAST OF OLCOTT VERNAL LAKE AND 0.8 KM (0.5 MI) WEST OF HWY 113. MAPPED AS MULTIPLE POLYGONS (COLONIES) AT CNDDDB.
Ecological: VALLEY BUNCHGRASS GRASSLAND. MIMA TOPOGRAPHY WITH VERNAL SWALES. NASELLA PULCHRA GRASSLAND WITH LOMATIUM, SANICULA BIPINNIFIDA, ERODIUM, BLENNOSPERMA, ET AL, VARIOUS ANNUAL GRASSES.
Threat: SHEEP GRAZING IS PRESUMED REASON FOR DECLINE IN NUMBER OF PLANTS BETWEEN MARCH 9 & MARCH 20, 1983.
General: APPROX 25-50 PLANTS IN 2 COLONIES IN 1983. APPROX 30 INDIVIDUALS OBS IN 3 DIFFERENT COLONIES IN 2000. FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY OPEN SPACE ON 8/97. TNC RETAINS CONSERVATION EASEMENT.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 42	Map Index: 25422	EO Index: 19791	Dates Last Seen
Occ Rank: Good			Element: 198X-XX-XX
Origin: Natural/Native occurrence			Site: 198X-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1994-05-09

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26231° / -121.83583°	Township: 05N
UTM: Zone-10 N4235560 E601847	Range: 01E
Radius: 80 meters	Section: 23
Elevation: 25 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: 2 KM (1.2 MI) SOUTHWEST OF OLCOTT, EAST OF THE RAILROAD TRACKS.
Location Detail: MAPPED IN THE NE 1/4 OF THE SW 1/4 OF SECTION 23. FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97.
Ecological: GRASSLAND.
General: 100+ PLANTS OBSERVED AT THE JEPSON PRAIRIE POPULATIONS IN 1990 (OCCURRENCES #1, 2, AND 4). POPULATIONS OBSERVED SEVERAL TIMES IN YEARS PRIOR TO 1990.
Owner/Manager: SOLANO LAND TRUST

Fritillaria liliacea

fragrant fritillary

Element Code: PMLILOV0C0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: COASTAL SCRUB, VALLEY AND FOOTHILL GRASSLAND, COASTAL PRAIRIE.
Micro: OFTEN ON SERPENTINE; VARIOUS SOILS REPORTED THOUGH USUALLY CLAY, IN GRASSLAND. 3-410M.

Occurrence No. 58	Map Index: 51597	EO Index: 51597	Dates Last Seen
Occ Rank: Unknown			Element: 1992-04-16
Origin: Natural/Native occurrence			Site: 1992-04-16
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-06-19

Quad Summary: Birds Landing (3812127/481A), Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25078° / -121.84363°	Township: 05N
UTM: Zone-10 N4234272 E601181	Range: 01E
Radius: 1/5 mile	Section: 27
Elevation: 30 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: APPROX 2 MILES SW OF OLCUTT (OLCOTT), JEPSON PRAIRIE, ABOUT 0.45 MILE E OF RIGHT OF WAY OF SACRAMENTO NORTHERN RAILROAD.
Location Detail: MAPPED AS DESCRIBED IN SECTION 27.
Ecological: VERNAL POOLS.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1992 COLLECTION BY TAYLOR. NEEDS FIELDWORK AND BETTER LOCATION INFO.
Owner/Manager: UNKNOWN

Fritillaria pluriflora

adobe-lily

Element Code: PMLILOV0F0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: CHAPARRAL, CISMONTANE WOODLAND, FOOTHILL GRASSLAND.
Micro: USUALLY ON CLAY SOILS; SOMETIMES SERPENTINE. 55-820M.

Occurrence No. 25	Map Index: 45410	EO Index: 45410	Dates Last Seen
Occ Rank: Unknown			Element: 1910-02-25
Origin: Natural/Native occurrence			Site: 1910-02-25
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2001-08-09

Quad Summary: Dixon (3812147/498A)
County Summary: Solano

Lat/Long: 38.44696° / -121.82208°	Township: 07N
UTM: Zone-10 N4256065 E602788	Range: 01E
Radius: 1 mile	Section: 13
Elevation:	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: DIXON.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1910 COLLECTION BY HALLAWELL SEED COMPANY. R. POWELL AND CNDDB QUESTION THE IDENTITY OF THIS SPECIMEM; IT MAY BE F. LILIACEA.

Owner/Manager: UNKNOWN

Occurrence No. 26	Map Index: 24739	EO Index: 45336	Dates Last Seen
Occ Rank: Unknown			Element: 1913-02-22
Origin: Natural/Native occurrence			Site: 1913-02-22
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2001-05-11

Quad Summary: Elmira (3812138/498C), Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.35642° / -121.98869°	Township: 06N
UTM: Zone-10 N4245845 E588359	Range: 01W
Radius: 1 mile	Section: 20
Elevation: 180 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: VACAVILLE.

Location Detail: LOCATION GIVEN AS BENNET'S HILL, VACAVILLE, SOLANO COUNTY. COULD NOT LOCATE BENNET'S HILL; MAPPED IN GENERAL VICINITY OF VACAVILLE.

General: SEEN IN 1913. ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1913 COLLECTION BY JEPSON; NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Geothlypis trichas sinuosa

saltmarsh common yellowthroat

Element Code: ABPBX1201A

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G5T2 State: S2	CDFG Status: SC

Habitat Associations

General: RESIDENT OF THE SAN FRANCISCO BAY REGION, IN FRESH AND SALT WATER MARSHES.
Micro: REQUIRES THICK, CONTINUOUS COVER DOWN TO WATER SURFACE FOR FORAGING; TALL GRASSES, TULE PATCHES, WILLOWS FOR NESTING.

Occurrence No. 90	Map Index: 59862	EO Index: 59898	Dates Last Seen
Occ Rank: Good			Element: 2004-06-12
Origin: Natural/Native occurrence			Site: 2004-06-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-02-04

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.20185° / -122.06517°	Township: 04N
UTM: Zone-10 N4228624 E581850	Range: 02W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 9 ft	Section: 10 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: FROM JUST NORTH OF, TO 0.5 MILE SW OF BOYNTON SLOUGH, 3 MILES SOUTH OF FAIRFIELD
Location Detail: LOCATION MAPPED ACCORDING TO UTM COORDINATES. A PORTION OF THIS SITE IS PARALLEL TO THE WEST SIDE OF THE RAILROAD TRACKS.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SALICORNIA VIRGINICA, SCIRPUS SPP., AND TYPHA SPP. CURRENT/SURROUNDING LAND USE: AGRICULTURE.
General: 4-11 DETECTED AT EACH OF 5 DIFFERENT POINTS ON 12 JUN 2004.
Owner/Manager: DFG-GRIZZLY ISLAND WA, UNKNOWN

Occurrence No. 91	Map Index: 59858	EO Index: 59894	Dates Last Seen
Occ Rank: Good			Element: 2004-06-13
Origin: Natural/Native occurrence			Site: 2004-06-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-02-04

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.23771° / -122.02232°	Township: 05N
UTM: Zone-10 N4232642 E585560	Range: 01W
Area: 12.7 acres	Mapping Precision: SPECIFIC
Elevation: 9 ft	Section: 31 Qtr: NW
	Symbol Type: POLYGON
	Meridian: M

Location: APPROXIMATELY 0.5 MILE NORTH OF DUCK SLOUGH, EAST OF SUISUN CITY.
Location Detail: MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SALICORNIA VIRGINICA, SCIRPUS SPP., AND TYPHA SPP.. CURRENT/SURROUNDING LAND USE: AGRICULTURE.
General: 1 DETECTION AT EACH OF TWO POINTS ON 13 JUN 2004.
Owner/Manager: DFG-HILL SLOUGH WA

Occurrence No. 92	Map Index: 59866	EO Index: 59902	Dates Last Seen
Occ Rank: Good			Element: 2004-05-06
Origin: Natural/Native occurrence			Site: 2004-05-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-02-04

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.19973° / -122.02908°	Township: 04N
UTM: Zone-10 N4228421 E585012	Range: 02W
Area: 97.7 acres	Mapping Precision: SPECIFIC
Elevation: 9 ft	Section: 13 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: AREA EAST OF FIRST MALLARD BRANCH, WEST OF POTRERO HILLS, 3 MILES SSE OF FAIRFIELD.
Location Detail: MAPPED ACCORDING TO UTM COORDINATES.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SALICORNIA VIRGINICA, SCIRPUS SPP., AND TYPHA SPP.. CURRENT/SURROUNDING LAND USE: AGRICULTURE.
General: 1-3 DETECTED AT EACH OF 10 DIFFERENT POINTS. 6 POINTS SAMPELED ON 22 MAR AND 6 MAY 2004. 1 POINT SAMPLED ONLY ON 22 MAR AND 3 POINTS SAMPLED ONLY ON 6 MAY 2004. 1 NEST ALSO DETECTED IN 2004.
Owner/Manager: UNKNOWN

Geothlypis trichas sinuosa

saltmarsh common yellowthroat

Element Code: ABPBX1201A

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G5T2 State: S2	CDFG Status: SC

Habitat Associations

General: RESIDENT OF THE SAN FRANCISCO BAY REGION, IN FRESH AND SALT WATER MARSHES.
Micro: REQUIRES THICK, CONTINUOUS COVER DOWN TO WATER SURFACE FOR FORAGING; TALL GRASSES, TULE PATCHES, WILLOWS FOR NESTING.

Occurrence No. 93	Map Index: 59861	EO Index: 59897	Dates Last Seen
Occ Rank: Good			Element: 2004-06-12
Origin: Natural/Native occurrence			Site: 2004-06-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-02-04

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.19031° / -122.06366°	Township: 04N
UTM: Zone-10 N4227345 E581996	Range: 02W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 9 ft	Symbol Type: POLYGON
	Section: 14 Qtr: XX
	Meridian: M

Location: AREA 0.25 MI EAST OF JACKSNIPE AND WEST OF SUISUN SLOUGH, 3.8 MILES SOUTH OF FAIRFIELD
Location Detail: MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SALICORNIA VIRGINICA, SCIRPUS SPP., AND TYPHA SPP..
 CURRENT/SURROUNDING LAND USE: AGRICULTURE.
General: 1-3 DETECTED AT EACH OF 5 DIFFERENT POINTS ON 12 JUN 2004.
Owner/Manager: UNKNOWN

Occurrence No. 109	Map Index: 60116	EO Index: 60152	Dates Last Seen
Occ Rank: Fair			Element: 2004-05-26
Origin: Natural/Native occurrence			Site: 2004-05-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-02-18

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.17679° / -121.91308°	Township: 04N
UTM: Zone-10 N4225989 E595199	Range: 01E
Radius: 80 meters	Mapping Precision: SPECIFIC
Elevation: 8 ft	Symbol Type: POINT
	Section: 19 Qtr: W
	Meridian: M

Location: NORTH OF A SLOUGH ENTERING NURSE SLOUGH AT THE SOUTH END OF LITTLE HONKER BAY.
Location Detail: LOCATION MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SCIRPUS SPP., TYPHA SPP., AND SALICORNIA VIRGINICA.
General: 1 BREEDING INDIVIDUAL DETECTED ON 26 MAY 2004.
Owner/Manager: UNKNOWN

Occurrence No. 110	Map Index: 60125	EO Index: 60161	Dates Last Seen
Occ Rank: Fair			Element: 2004-05-26
Origin: Natural/Native occurrence			Site: 2004-05-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-02-22

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.17963° / -121.90735°	Township: 04N
UTM: Zone-10 N4226310 E595698	Range: 01E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 8 ft	Symbol Type: POLYGON
	Section: 19 Qtr: W
	Meridian: M

Location: SOUTH SIDE OF THE MOUTH OF A SLOUGH ENTERING THE NE SIDE OF LITTLE HONKER BAY.
Location Detail: LOCATION MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SCIRPUS SPP., TYPHA SPP., AND SALICORNIA VIRGINICA.
General: 2 DETECTIONS ON 26 MAY 2004. SITE USED FOR BREEDING.
Owner/Manager: UNKNOWN

Geothlypis trichas sinuosa

saltmarsh common yellowthroat

Element Code: ABPBX1201A

Status: _____ NDDB Element Ranks: _____ Other Lists: _____
 Federal: None Global: G5T2 CDFG Status: SC
 State: None State: S2

Habitat Associations

General: RESIDENT OF THE SAN FRANCISCO BAY REGION, IN FRESH AND SALT WATER MARSHES.
 Micro: REQUIRES THICK, CONTINUOUS COVER DOWN TO WATER SURFACE FOR FORAGING; TALL GRASSES, TULE PATCHES, WILLOWS FOR NESTING.

Occurrence No. 111 Map Index: 60142 EO Index: 60178 Dates Last Seen: _____
 Occ Rank: Fair Element: 2004-06-16
 Origin: Natural/Native occurrence Site: 2004-06-16
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-02-22

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.17177° / -121.96355° Township: 04N
 UTM: Zone-10 N4225381 E590785 Range: 01W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 22 Qtr: SW
 Elevation: 4 ft Symbol Type: POINT Meridian: M

Location: JUST SOUTH SIDE OF MONTEZUMA SLOUGH, BETWEEN ISLAND AND FROST SLOUGHS, JUST EAST THE GRIZZLY ISLAND WILDLIFE AREA.
 Location Detail: LOCATION MAPPED ACCORDING TO UTM COORDINATES GIVEN.
 Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SCIRPUS SPP., TYPHA SPP., AND SALICORNIA VIRGINICA.
 General: 1 DETECTION ON 16 JUNE 2004. SITE USED FOR BREEDING.
 Owner/Manager: DFG-GRIZZLY ISLAND WA, UNKNOWN

Occurrence No. 112 Map Index: 60147 EO Index: 60183 Dates Last Seen: _____
 Occ Rank: Fair Element: 2004-06-16
 Origin: Natural/Native occurrence Site: 2004-06-16
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-02-22

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.16762° / -121.96807° Township: 04N
 UTM: Zone-10 N4224916 E590395 Range: 01W
 Area: Mapping Precision: NON-SPECIFIC Section: 27 Qtr: NW
 Elevation: 0 ft Symbol Type: POLYGON Meridian: M

Location: ABOUT 0.4 MI SOUTH OF MONTEZUMA SLOUGH, BETWEEN ISLAND AND FROST SLOUGHS, JUST EAST OF GRIZZLY ISLAND WA.
 Location Detail: LOCATION MAPPED ACCORDING TO UTM COORDINATES GIVEN.
 Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SCIRPUS SPP., TYPHA SPP., AND SALICORNIA VIRGINICA.
 General: 1 DETECTION AT EACH OF 2 DIFFERENT POINTS ON 16 JUNE 2004. SITE USED FOR BREEDING.
 Owner/Manager: UNKNOWN

Occurrence No. 113 Map Index: 60148 EO Index: 60184 Dates Last Seen: _____
 Occ Rank: Fair Element: 2004-06-16
 Origin: Natural/Native occurrence Site: 2004-06-16
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-02-22

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.16201° / -121.96711° Township: 04N
 UTM: Zone-10 N4224295 E590485 Range: 01W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 27 Qtr: W
 Elevation: 0 ft Symbol Type: POINT Meridian: M

Location: ABOUT 0.7 MI SOUTH OF MONTEZUMA SLOUGH, BETWEEN ISLAND AND FROST SLOUGHS, EAST OF GRIZZLY ISLAND WA.
 Location Detail: LOCATION MAPPED ACCORDING TO UTM COORDINATES GIVEN.
 Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SCIRPUS SPP., TYPHA SPP., AND SALICORNIA VIRGINICA.
 General: 1 DETECTED ON 16 JUNE 2004. SITE USED FOR BREEDING.
 Owner/Manager: UNKNOWN

Geothlypis trichas sinuosa

saltmarsh common yellowthroat

Element Code: ABPBX1201A

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G5T2 State: S2	CDFG Status: SC

Habitat Associations

General: RESIDENT OF THE SAN FRANCISCO BAY REGION, IN FRESH AND SALT WATER MARSHES.
Micro: REQUIRES THICK, CONTINUOUS COVER DOWN TO WATER SURFACE FOR FORAGING; TALL GRASSES, TULE PATCHES, WILLOWS FOR NESTING.

Occurrence No. 114	Map Index: 60149	EO Index: 60185	Dates Last Seen
Occ Rank: Fair			Element: 2004-06-25
Origin: Natural/Native occurrence			Site: 2004-06-25
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-02-24

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.19002° / -121.90834°	Township: 04N
UTM: Zone-10 N4227462 E595597	Range: 01E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 4 ft	Section: 18 Qtr: XX
	Meridian: M
	Symbol Type: POLYGON

Location: ALONG SLOUGH (DENVERTON SLOUGH?) ALONG EAST SIDE OF BRADMOOR ISLAND.
Location Detail: LOCATION MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SCIRPUS SPP., TYPHA SPP., AND SALICORNIA VIRGINICA.
General: 1 TO 4 DETECTED AT EACH OF 8 DIFFERENT POINTS ON 25 JUNE 2004.
Owner/Manager: UNKNOWN

Occurrence No. 116	Map Index: 66304	EO Index: 66408	Dates Last Seen
Occ Rank: Good			Element: 2006-02-06
Origin: Natural/Native occurrence			Site: 2006-02-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-09-25

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.23905° / -122.04768°	Township: 05N
UTM: Zone-10 N4232768 E583339	Range: 02W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 5 ft	Section: 35 Qtr: NE
	Meridian: M
	Symbol Type: POLYGON

Location: EAST OF SOUTH PENNSYLVANIA AVENUE, BETWEEN CORDELIA STREET AND HIGHWAY 12, SOUTH OF FAIRFIELD AND WEST OF SUISUN CITY.
Location Detail: SITE IS SURROUNDED BY SUBURBAN DEVELOPMENT TO THE NORTH AND EAST, PASTURE LAND AND LIGHT INDUSTRIAL TO THE WEST, AND PASTURE LAND AND ESTUARY TO THE SOUTH.
Ecological: HABITAT CONSISTS OF NON-NATIVE GRASSLAND, SEASONAL/PERENNIAL MARSHES, VERNAL POOLS, SEASONALLY-SATURATED GRASSLAND, RIPARIAN WETLANDS, AND DRAINAGE CHANNELS.
Threat: THREATENED BY PROPOSED DEVELOPMENT.
General: 2 ADULTS OBSERVED ON 6 FEB 2006 IN A SMALL REMNANT SLOUGH CHANNEL IN EMERGENT VEGETATION..
Owner/Manager: UNKNOWN

Gratiola heterosepala

Boggs Lake hedge-hyssop

Element Code: PDSCR0R060

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G3 CNPS List: 1B.2
 State: Endangered State: S3.1

Habitat Associations

General: MARSHES AND SWAMPS (FRESHWATER), VERNAL POOLS.
 Micro: CLAY SOILS; USUALLY IN VERNAL POOLS, SOMETIMES ON LAKE MARGINS. 5-2400M.

Occurrence No. 36 Map Index: 10538 EO Index: 6799 Dates Last Seen _____
 Occ Rank: Good Element: 1995-05-11
 Origin: Natural/Native occurrence Site: 1995-05-11
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1995-12-27

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.26665° / -121.82774° Township: 05N
 UTM: Zone-10 N4236051 E602548 Range: 01E
 Area: 18.8 acres Mapping Precision: SPECIFIC Section: 23 Qtr: NE
 Elevation: 25 ft Symbol Type: POLYGON Meridian: M

Location: S OF OLCOTT LAKE, 0.2 MI W OF COOK LANE. JEPSON PRAIRIE.
 Location Detail: FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONS. EASEMENT.
 Ecological: SMALL PLAYA-TYPE POOL IN PESCADERO-CLAY SOIL. WITH ELEOCHARIS MACROSTACHYA, LASTHENIA GLABERRIMA, L. FREMONTII, & PSILOCARPUS BREVISSIMUS. DOWNINGIA PUSILLA ALSO IN POOL (ALSO RARE). LEGENERE LIMOSA NEARBY.
 Threat: HEAVY SHEEP GRAZING IN 1992.
 General: 10,000 PLANTS ESTIMATED IN 1991 AND 1992, A MILLION ESTIMATED IN 1993 AND 1995.
 Owner/Manager: SOLANO LAND TRUST

Occurrence No. 37 Map Index: 23976 EO Index: 7235 Dates Last Seen _____
 Occ Rank: Good Element: 1992-05-04
 Origin: Natural/Native occurrence Site: 1992-05-04
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1993-08-11

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.27166° / -121.83490° Township: 05N
 UTM: Zone-10 N4236599 E601915 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 14 Qtr: SW
 Elevation: 25 ft Symbol Type: POINT Meridian: M

Location: 0.25 MI W OF OLCOTT LAKE AND RAILROAD TRACKS. 0.5 MI S OF UNNAMED GRAVEL RD.
 Ecological: SMALL PLAYA POOL W/ELEOCHARIS MACROSTACHYA/LASTHENIA GLABERRIMA IN CENTER OF POOL & LASTHENIA FREMONTII/PSILOCARPUS BREVISSIMUS ON MARGIN. GRATIOLA FOUND IN SPARSELY VEGETATED AREA W/ERYNGIUM ARISTULATUM,
 General: APPROX 200 PLANTS IN 1991. PARCEL WAS FOR SALE AT THAT TIME.
 Owner/Manager: PVT

Occurrence No. 38 Map Index: 23975 EO Index: 7236 Dates Last Seen _____
 Occ Rank: Poor Element: 1992-05-06
 Origin: Natural/Native occurrence Site: 1993-05-06
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1994-07-10

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.27737° / -121.83950° Township: 05N
 UTM: Zone-10 N4237227 E601505 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 14 Qtr: SW
 Elevation: 25 ft Symbol Type: POINT Meridian: M

Location: APPROX 0.75 MI W OF JUNCTION OF RAILROAD TRACKS AND COOK LANE, NW OF OLCOTT LAKE, JUST S OF UNNAMED GRAVEL ROAD.
 Ecological: SMALL PLAYA-TYPE VERNAL POOL WITH PLAGIOBOTHRYIS BRACTEATUS & ERYNGIUM ARISTULATUM. GRATIOLA IN SPARSELY VEGETATED AREAS WITH DOWNINGIA CUSPIDATA, LILAEA SCILLOIDES, & ELATINE CALIFORNICA.
 Threat: EVIDENCE OF HEAVY GRAZING IN 1993-VERY LITTLE VEGETATION GROWING IN MUDDY HOOFPRIINTS; NO GRATIOLA FOUND.
 General: TENS OF THOUSANDS OF PLANTS IN 1991 AND 1992. PARCEL WAS FOR SALE IN 1993.
 Owner/Manager: PVT

Gratiola heterosepala

Boggs Lake hedge-hyssop

Element Code: PDSCR0R060

Status: **Federal:** None **State:** Endangered **NDDB Element Ranks:** **Global:** G3 **State:** S3.1 **Other Lists:** **CNPS List:** 1B.2

Habitat Associations

General: MARSHES AND SWAMPS (FRESHWATER), VERNAL POOLS.
Micro: CLAY SOILS; USUALLY IN VERNAL POOLS, SOMETIMES ON LAKE MARGINS. 5-2400M.

Occurrence No. 39 **Map Index:** 23978 **EO Index:** 12812 **Dates Last Seen**
Occ Rank: Good **Element:** 1991-05-03
Origin: Natural/Native occurrence **Site:** 1991-05-03
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1993-08-16

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.28808° / -121.86253° **Township:** 05N
UTM: Zone-10 N4238390 E599476 **Range:** 01E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 09 **Qtr:** SE
Elevation: 30 ft **Symbol Type:** POINT **Meridian:** M

Location: END OF DALLY ROAD, S OF HAY ROAD. 0.1 MI N OF SACRAMENTO NORTHERN RAILROAD AND 2.1 MI W OF HWY 113.
Ecological: IN SPARSELY VEGETATED PORTION OF SMALL PLAYA-TYPE VERNAL POOL WITH LASTHENIA GLABERRIMA, PLEUROPOGON CALIFORNICUS, ELEOCHARIS MACROSTACHYA AND DOWNINGIA CUSPIDATA. OTHER RARE PLANTS IN POOL: DOWNINGIA PUSILLA, AND MYOSURUS MINIMUS APUS.
Threat: POTENTIALLY THREATENED BY PROPOSED PGE-PGT PIPELINE REROUTE AROUND JEPSON PRAIRIE. CATTLE GRAZING COULD ALSO THREATEN.
General: OVER 100 PLANTS IN 1991.
Owner/Manager: PVT

Occurrence No. 40 **Map Index:** 23979 **EO Index:** 7229 **Dates Last Seen**
Occ Rank: Good **Element:** 1991-05-02
Origin: Natural/Native occurrence **Site:** 1991-05-02
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-29

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25652° / -121.84455° **Township:** 05N
UTM: Zone-10 N4234908 E601092 **Range:** 01E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 27 **Qtr:** NE
Elevation: 28 ft **Symbol Type:** POINT **Meridian:** M

Location: 2.5 MILES SW OF DOZIER, JUST WEST OF SACRAMENTO NORTHERN RAILROAD, JUST SOUTH OF JEPSON PRAIRIE.
Ecological: IN LESS DENSELY VEGETATED PORTIONS OF SMALL PLAYA-TYPE POOL WITH ELEOCHARIS MACROSTACHYA, LASTHENIA GLABERRIMA, L. FREMONTII, DESCHAMPSIA DANTHONIOIDES, ALLOCARYA STIPITATA, & THE RARE CUSCUTA HOWELLIANA & LEPIDIUM LATIPES.
Threat: POTENTIALLY THREATENED BY PROPOSED PGE-PGT PIPELINE REROUTE AROUND JEPSON PRAIRIE. SHEEP GRAZING COULD ALSO THREATEN.
General: THOUSANDS OF PLANTS IN 1991.
Owner/Manager: PVT

Occurrence No. 92 **Map Index:** 62766 **EO Index:** 62820 **Dates Last Seen**
Occ Rank: Unknown **Element:** 2002-04-03
Origin: Natural/Native occurrence **Site:** 2002-04-03
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-09-30

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.29480° / -121.79912° **Township:** 05N
UTM: Zone-10 N4239207 E605012 **Range:** 02E
Radius: 1/10 mile **Mapping Precision:** NON-SPECIFIC **Section:** 07 **Qtr:** NW
Elevation: 15 ft **Symbol Type:** POINT **Meridian:** M

Location: 1.2 AIR MILES ENE OF DOZIER. GRIDLEY RANCH. POOL GRI001.
Ecological: GRASSLAND / VERNAL POOL COMPLEX. EDGE OF PLAYA POOL ON PESCADERO CLAY SOIL SERIES. ASSOC WITH PLAGIOBOTHRYUS UNDULATUS AND NAVARRETTIA LEUCOCEPHALA BAKERI.
General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 2002 COLLECTION BY THE VERNAL POOL TEAM.
Owner/Manager: UNKNOWN

Hesperolinon breweri

Brewer's western flax

Element Code: PDLIN01030

Status: _____ NDDB Element Ranks: _____ Other Lists: _____
 Federal: None Global: G2 CNPS List: 1B.2
 State: None State: S2.2

Habitat Associations

General: CHAPARRAL, CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.
 Micro: OFTEN IN ROCKY SERPENTINE SOIL IN SERPENTINE CHAPARRAL AND SERPENTINE GRASSLAND. 30-885M.

Occurrence No. 10 Map Index: 09735 EO Index: 18644 Dates Last Seen: _____
 Occ Rank: Unknown Element: 1892-06-20
 Origin: Natural/Native occurrence Site: 1892-06-20
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2001-10-23

Quad Summary: Fairfield North (3812231/499D), Mt. Vaca (3812241/499A)
 County Summary: Solano

Lat/Long: 38.38587° / -122.06561° Township: 06N
 UTM: Zone-10 N4249043 E581605 Range: 02W
 Radius: 1 mile Mapping PrecisionNON-SPECIFIC Section: 10 Qtr: XX
 Elevation: Symbol Type:POINT Meridian: M

Location: GATES CYN, VACA MTNS.

General: ONLY SOURCES OF INFORMATION FOR THIS SITE ARE 1884 AND 1892 COLLECTIONS BY JEPSON AND UNDATED ARCVIEW SHAPEFILE OF RARE PLANT LOCATIONS FROM NAPA COUNTY CNPS; NEEDS FIELDWORK.

Owner/Manager: PVT

Occurrence No. 11 Map Index: 09702 EO Index: 18643 Dates Last Seen: _____
 Occ Rank: Unknown Element: 1891-06-01
 Origin: Natural/Native occurrence Site: 1891-06-01
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2001-10-23

Quad Summary: Mt. Vaca (3812241/499A)
 County Summary: Solano

Lat/Long: 38.41210° / -122.08460° Township: 07N
 UTM: Zone-10 N4251937 E579918 Range: 02W
 Radius: 1 mile Mapping PrecisionNON-SPECIFIC Section: 33 Qtr: XX
 Elevation: Symbol Type:POINT Meridian: M

Location: WELDON CYN (MIX CYN), VACA MTS.

General: ONLY SOURCES OF INFORMATION FOR THIS SITE ARE 1891 COLLECTION BY JEPSON AND UNDATED ARCVIEW SHAPEFILE OF RARE PLANT LOCATIONS FROM NAPA COUNTY CNPS; NEEDS FIELDWORK.

Owner/Manager: PVT

Occurrence No. 12 Map Index: 09670 EO Index: 18645 Dates Last Seen: _____
 Occ Rank: Good Element: 1997-05-12
 Origin: Natural/Native occurrence Site: 1997-05-12
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-04-25

Quad Summary: Mt. Vaca (3812241/499A)
 County Summary: Solano

Lat/Long: 38.43426° / -122.10197° Township: 07N
 UTM: Zone-10 N4254381 E578378 Range: 02W
 Radius: 80 meters Mapping PrecisionSPECIFIC Section: 20 Qtr: SE
 Elevation: 1,650 ft Symbol Type:POINT Meridian: M

Location: MILLER CANYON, ABOUT 2.3 MILES NORTH OF MT. VACA, VACA MOUNTAINS.

Location Detail: SOUTHERLY FACING SLOPES IN UPPER CANYON. ON EDGES OF NARROW TRAIL. MAPPED WITHIN THE SW 1/4 OF SE 1/4 OF SECTION 20.

Ecological: MARGIN OF LITTLE TRAVELED ROADWAY. ASSOCIATED WITH SPARSE VULPIA BROMOIDES. BORDERING ADENOSTOMA FASCICULATUM CHAPARRAL. HESPEROLINON MICRANTHUM ALSO PRESENT AT THIS SITE. ON SANDSTONE SUBSTRATES.

Threat: RECENT BULLDOZER WORK ON THE ROAD DESTROYED SOME PLANTS. PARCEL IS UNDER CONSIDERATION FOR LAND EXCHANGE.

General: 500 PLANTS OBSERVED IN 1997. COLONY IS DEPENDENT ON OPEN AREAS MAINTAINED ALONG FIRE ROAD. 1897 COLLECTION BY JEPSON (#13534 JEPS) ATTRIBUTED TO THIS SITE.

Owner/Manager: PVT

Hesperolinon breweri

Brewer's western flax

Element Code: PDLIN01030

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: CHAPARRAL, CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.

Micro: OFTEN IN ROCKY SERPENTINE SOIL IN SERPENTINE CHAPARRAL AND SERPENTINE GRASSLAND. 30-885M.

Occurrence No. 20	Map Index: 42825	EO Index: 42825	Dates Last Seen
Occ Rank: Unknown			Element: 1891-06-19
Origin: Natural/Native occurrence			Site: 1891-06-19
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-04-25

Quad Summary: Mt. George (3812232/499C), Fairfield North (3812231/499D)

County Summary: Solano, Napa

Lat/Long: 38.32267° / -122.13485°	Township: 06N
UTM: Zone-10 N4241971 E575624	Range: 03W
Radius: 1 mile	Section: 36
Elevation:	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: UPPER SUISUN VALLEY.

Location Detail:UPPER VALLEY, ON HILLS. MAPPED AS BEST GUESS BY CNDDDB.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IN 1891 COLLECTION BY JEPSON.

Owner/Manager: UNKNOWN

Hibiscus lasiocarpus

woolly rose-mallow

Element Code: PDMAL0H0Q0

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G4 **CNPS List:** 2.2
 State: None **State:** S2.2

Habitat Associations _____
General: MARSHES AND SWAMPS (FRESHWATER).
Micro: MOIST, FRESHWATER-SOAKED RIVER BANKS & LOW PEAT ISLANDS IN SLOUGHS; IN CALIF., KNOWN FROM THE DELTA WATERSHED. 0-150M.

Occurrence No. 36 **Map Index:** 10841 **EO Index:** 20816 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1891-09-16
Origin: Natural/Native occurrence **Site:** 1974-07-15
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1989-08-11

Quad Summary: Rio Vista (3812126/480B)
County Summary: Solano

Lat/Long: 38.14963° / -121.69328° **Township:** 04N
UTM: Zone-10 N4223223 E614495 **Range:** 03E
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 31 **Qtr:** XX
Elevation: _____ **Symbol Type:**POINT **Meridian:** M

Location: SACRAMENTO RIVER NEAR RIO VISTA.
General: SPECIES SEEN IN 1887 AND 1891. ALSO SEEN AT THIS LOCATION BY HOOD (DATE UNKNOWN).
Owner/Manager: PVT

Occurrence No. 142 **Map Index:** 63324 **EO Index:** 63416 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-24
Origin: Natural/Native occurrence **Site:** 2005-08-24
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-12-06

Quad Summary: Liberty Island (3812136/497C)
County Summary: Solano

Lat/Long: 38.31859° / -121.74364° **Township:** 06N
UTM: Zone-10 N4241910 E609827 **Range:** 02E
Area: 30.7 acres **Mapping Precision:**SPECIFIC **Section:** 34 **Qtr:** SE
Elevation: 0 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ALONG SOUTHERN EDGE OF HASS SLOUGH, ON NORTH SIDE OF PETERS POCKET; 1.0-1.4 MI NORTHWEST OF DUCK SLOUGH.
Ecological: SCATTERED INDIVIDUALS ALONG SLOUGH BANK RIGHT AT WATER LINE. FOUND WITH POLYGONUM PUNCTATUM, SCIRPUS ACUTUS, JUNCUS XIPHOIDES, MENTHA ARVENSIS, PLUCHEA ORDORATA, AND ROSA CALIFORNICA.
Threat: GRAZING IN AREA, BUT CATTLE SEEM TO AVOID THIS PLANT.
General: ABOUT 10 INDIVIDUALS OBSERVED IN 2005.
Owner/Manager: PVT

Hydrochara rickseckeri

Ricksecker's water scavenger beetle

Element Code: IICOL5V010

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G1G2 CDFG Status: _____
 State: None State: S1S2

Habitat Associations _____

General: AQUATIC.
 Micro:

Occurrence No. 4 Map Index: 30008 EO Index: 4689 Dates Last Seen _____
 Occ Rank: Excellent Element: 1993-05-09
 Origin: Natural/Native occurrence Site: 1993-05-09
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-01-21

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.27077° / -121.82372° Township: 05N
 UTM: Zone-10 N4236512 E602894 Range: 01E
 Radius: 2/5 mile Mapping PrecisionNON-SPECIFIC Section: 24 Qtr: XX
 Elevation: 15 ft Symbol Type:POINT Meridian: M

Location: OLCOTT LAKE, JEPSON PRAIRIE.
 Location Detail: FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONS. EASEMENT.
 Ecological: HABITAT CONSISTS OF A VERNAL POOL MEASURING 0.25 X 0.50 MILE, BISECTED BY A ROAD. OTHER RARE TAXA FOUND AT THIS SITE INCLUDE DELTA GREEN GROUND BEETLE, CONSERVANCY FAIRY SHRIMP, VERNAL POOL TADPOLE SHRIMP, AND SOLANO GRASS.
 General: THE BEETLE LANDED ON A PERSON STANDING ON COOK LANE, BETWEEN THE TWO PARTS OF OLCOTT LAKE (VERNAL POOL).
 Owner/Manager: SOLANO LAND TRUST

Occurrence No. 12 Map Index: 61645 EO Index: 61681 Dates Last Seen _____
 Occ Rank: Unknown Element: 2002-04-02
 Origin: Natural/Native occurrence Site: 2002-04-02
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-06-20

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.26893° / -121.85760° Township: 05N
 UTM: Zone-10 N4236272 E599933 Range: 01E
 Radius: 1/10 mile Mapping PrecisionNON-SPECIFIC Section: 22 Qtr: XX
 Elevation: 35 ft Symbol Type:POINT Meridian: M

Location: ABOUT 2.5 MILES SOUTHWEST OF DOZIER.
 Location Detail: TAKEN FROM POOL 30; NOT SHOWN ON SOURCE DOCUMENT MAP, BUT LISTED IN TABLE WITH UTM COORDINATES.
 General: POOL HAS AN IRREGULAR MARGIN.
 Owner/Manager: UNKNOWN

Occurrence No. 13 Map Index: 62152 EO Index: 62188 Dates Last Seen _____
 Occ Rank: Good Element: 2005-03-21
 Origin: Natural/Native occurrence Site: 2005-03-21
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-08-02

Quad Summary: Dozier (3812137/498D), Elmira (3812138/498C)
 County Summary: Solano

Lat/Long: 38.28623° / -121.86857° Township: 05N
 UTM: Zone-10 N4238179 E598950 Range: 01E
 Area: 317.8 acres Mapping PrecisionSPECIFIC Section: 09 Qtr: XX
 Elevation: 60 ft Symbol Type:POLYGON Meridian: M

Location: ALONG SACRAMENTO NORTHERN RAILROAD RIGHT-OF-WAY, BETWEEN MERIDIAN RD. AND RT. 113
 Ecological: TAKEN FROM LINEAR VERNAL POOLS & SEASONAL WETLANDS ALONG THE RIGHT-OF-WAY.
 General: 10 ADULTS & NUMEROUS LARVA OBSERVED.
 Owner/Manager: DOD-TRAVIS AFB

Icteria virens

yellow-breasted chat

Element Code: ABPBX24010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status: SC
State: None	State: S3	

Habitat Associations

General: SUMMER RESIDENT; INHABITS RIPARIAN THICKETS OF WILLOW & OTHER BRUSHY TANGLES NEAR WATERCOURSES.
Micro: NESTS IN LOW, DENSE RIPARIAN, CONSISTING OF WILLOW, BLACKBERRY, WILD GRAPE; FORAGES AND NESTS WITHIN 10 FT OF GROUND.

Occurrence No. 70	Map Index: 09819	EO Index: 24858	Dates Last Seen
Occ Rank: Unknown			Element: 1987-04-24
Origin: Natural/Native occurrence			Site: 1987-04-24
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1989-08-10

Quad Summary: Mt. Vaca (3812241/499A)
County Summary: Solano

Lat/Long: 38.48073° / -122.03914°	Township: 07N
UTM: Zone-10 N4259592 E583808	Range: 02W
Radius: 1/5 mile	Section: 01
Elevation: 500 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: 0.6 MI NW ON DIRT ROAD THAT IS 0.7 MI S OF JCT OF HWY 128 & PLEASANTS VALLEY ROAD.
Location Detail: CHAT HEARD IN BRAMBLES OF RIPARIAN AREA WITH OAK TREES AND LARGE COTTONWOODS AND MANY VINY TYPE PLANTS.
Ecological: PROPERTY INCL HORSE RANCH, HAY FIELDS AND VINYARDS.
Threat: HILLSIDES & RIPARIAN AREAS ARE MINIMALLY DISTURBED, ADJACENT AREAS ARE CULTIVATED HAY FIELDS & PRIVATE RESIDENCES.
Owner/Manager: PVT

Isocoma arguta

Carquinez goldenbush

Element Code: PDAST57050

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G1 **CNPS List:** 1B.1
 State: None **State:** S1.1

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND.
Micro: ALKALINE SOILS, FLATS, LOWER HILLS. ON LOW BENCHES NEAR DRAINAGES & ON TOPS & SIDES OF MOUNDS IN SWALE HABITAT. 1-20M.

Occurrence No. 1 **Map Index:** 22110 **EO Index:** 8266 **Dates Last Seen** _____
Occ Rank: Good **Element:** 1992-09-27
Origin: Natural/Native occurrence **Site:** 1992-09-27
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1995-10-30

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.13144° / -121.88448° **Township:** 03N
UTM: Zone-10 N4220986 E597765 **Range:** 01E
Area: 19.2 acres **Mapping Precision:** SPECIFIC **Section:** 05 **Qtr:** SE
Elevation: 10 ft **Symbol Type:** POLYGON **Meridian:** M

Location: ON BIRDS LANDING ROAD, 0.6 MI W OF BIRDS LANDING. 0.2-0.6 MI E OF WATER TANK IN SECTION 5.
Location Detail: MOST PLANTS JUST S OF ROAD, ABOUT 150 PLANTS 0.1 MI S OF ROAD, AND A FEW PLANTS JUST N OF ROAD.
Ecological: ON LOW BENCHES ADJACENT TO SEASONAL DRAINAGE, IN SILTY CLAY SOIL WITH BROMUS DIANDRUS, DISTICHLIS SPICATA, LACTUCA SERRIOLA, HAPLOPAPPUS RACEMOSUS, HEMIZONIA PUNGENS, JUNCUS MEXICANUS, AND ANEMOPSIS CALIFORNICA.
Threat: SITE USED AS HUNTING CLUB; PERSON SEEN SPOT SPRAYING HERBICIDE TO MANAGE DUCK HABITAT (1991).
General: 200 PLANTS SEEN IN 1991, 760 PLANTS SEEN IN 1992 (MORE THOROUGH SEARCH MADE). MAY BE PROTECTED AS A MITIGATION MEASURE OF THE MONTEZUMA WETLANDS RESTORATION PROJECT. MAPPED AS 3 POLYGONS.

Owner/Manager: PVT-CATELLUS CORP

Occurrence No. 2 **Map Index:** 22109 **EO Index:** 8268 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1965-10-12
Origin: Natural/Native occurrence **Site:** 1991-10-10
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1992-12-29

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.24248° / -121.88556° **Township:** 05N
UTM: Zone-10 N4233306 E597523 **Range:** 01E
Radius: 1/5 mile **Mapping Precision:** NON-SPECIFIC **Section:** 29 **Qtr:** SE
Elevation: 40 ft **Symbol Type:** POINT **Meridian:** M

Location: 1.8 MI W OF CREED STATION, ALONG CREED ROAD. 1.5 AIRMI NNE OF DENVERTON.
Ecological: NEARLY BARREN ALKALI SLOPES ABOVE LARGE INTERMITTENT LAKE.
General: NO PLANTS SEEN FROM THE ROADSIDE IN 1992.

Owner/Manager: UNKNOWN

Occurrence No. 3 **Map Index:** 22103 **EO Index:** 8265 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1992-10-10
Origin: Natural/Native occurrence **Site:** 1992-10-10
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1992-12-29

Quad Summary: Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.23904° / -121.84276° **Township:** 05N
UTM: Zone-10 N4232970 E601273 **Range:** 01E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 34 **Qtr:** NE
Elevation: 30 ft **Symbol Type:** POINT **Meridian:** M

Location: GOOSE HAVEN ROAD, 0.2 MI S OF CREED ROAD.
Location Detail: ON FENCELINE.
General: 1 PLANT SEEN IN 1992.

Owner/Manager: UNKNOWN

Isocoma arguta

Carquinez goldenbush

Element Code: PDAST57050

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND.
Micro: ALKALINE SOILS, FLATS, LOWER HILLS. ON LOW BENCHES NEAR DRAINAGES & ON TOPS & SIDES OF MOUNDS IN SWALE HABITAT. 1-20M.

Occurrence No. 4	Map Index: 22104	EO Index: 17322	Dates Last Seen
Occ Rank: Unknown			Element: 1992-10-10
Origin: Natural/Native occurrence			Site: 1992-10-10
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-02-14

Quad Summary: Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.24152° / -121.80610°	Township: 05N
UTM: Zone-10 N4233286 E604478	Range: 01E
Radius: 80 meters	Section: 36
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: W SIDE OF HWY 113 (RIO-DIXON ROAD) JUST S OF CREED ROAD JUNCTION.
Ecological: ATRIPLEX CORDULATA ALSO MAPPED HERE.
Threat: RECENT SHOULDER WORK HAD DAMAGED AT LEAST 1 PLANT IN 1992.
General: ABOUT 35 PLANTS SEEN IN 1992. ALSO COLLECTED HERE IN 1959 BY ROBBINS. LABEL SAYS "HASTINGS ISLAND JCT, 3.1 MI S OF THE JCT. 0.7 MI E OF DOZIER STATION."
Owner/Manager: UNKNOWN, CALTRANS

Occurrence No. 5	Map Index: 22222	EO Index: 7630	Dates Last Seen
Occ Rank: Unknown			Element: 1959-12-08
Origin: Natural/Native occurrence			Site: 1959-12-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1994-04-28

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.33798° / -121.82333°	Township: 06N
UTM: Zone-10 N4243970 E602833	Range: 01E
Radius: 1/5 mile	Section: 25
Elevation: 25 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: ABOUT 4 MI N OF DOZIER STATION ALONG HWY 113 (WHERE THE ULATIS CREEK CROSSES HWY 113).
Ecological: ON ALKALI VALLEY PLAIN.
General: THIS SITE WAS NOT CHECKED BY ERTTER IN 1992. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Occurrence No. 6	Map Index: 32620	EO Index: 1557	Dates Last Seen
Occ Rank: Good			Element: 1994-09-20
Origin: Natural/Native occurrence			Site: 1994-09-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-09-08

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.22897° / -121.93439°	Township: 05N
UTM: Zone-10 N4231757 E593267	Range: 01W
Radius: 80 meters	Section: 35
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: ON N SIDE OF HWY 12, 2 AIRMI WNW OF DENVERTON, 1 AIRMI W OF MT DIABLO MERIDIAN.
Location Detail: PLANTS FOUND ON THE TOPS AND SIDES OF THE LARGER MOUNDS; NOT IN THE SWALES BETWEEN THE MOUNDS.
Ecological: IN HUMMOCKY ANNUAL GRASSLAND WITH MOUNDS SURROUNDED BY VERNALLY WET SWALES. IN SOLANO LOAM SOIL. ASSOCIATED WITH BROMUS, DISTICHLIS SPICATA, AVENA, AND HEMIZONIA.
Threat: SITE CURRENTLY AN OPEN PASTURE GRAZED BY CATTLE. POTENTIAL THREATS INCLUDE DEVELOPMENT AND ROAD WIDENING.
General: 85 PLANTS SEEN IN 1994 ON 5 MOUNDS.
Owner/Manager: PVT

Isocoma arguta

Carquinez goldenbush

Element Code: PDAST57050

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND.

Micro: ALKALINE SOILS, FLATS, LOWER HILLS. ON LOW BENCHES NEAR DRAINAGES & ON TOPS & SIDES OF MOUNDS IN SWALE HABITAT. 1-20M.

Occurrence No. 7	Map Index: 41667	EO Index: 42728	Dates Last Seen
Occ Rank: Unknown			Element: 1933-09-17
Origin: Natural/Native occurrence			Site: 1933-09-17
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-05-04

Quad Summary: Honker Bay (3812118/481C), Birds Landing (3812127/481A), Denverton (3812128/481B), Antioch North (3812117/481D), Jersey Island (3812116/480C), Rio Vista (3812126/480B)

County Summary: Sacramento, Solano

Lat/Long: 38.12619° / -121.78745°	Township: 03N
UTM: Zone-10 N4220510 E606277	Range: 02E
Radius: 5 mile	Section: 05
Elevation: 200 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: MONTEZUMA HILLS, WEST OF RIO VISTA.

Location Detail: EXACT LOCATION NOT KNOWN. SITE MAPPED TO INCLUDE GENERAL AREA OF THE MONTEZUMA HILLS.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1933 COLLECTION BY HOWELL.

Owner/Manager: UNKNOWN

Occurrence No. 8	Map Index: 10073	EO Index: 42729	Dates Last Seen
Occ Rank: Unknown			Element: 1929-10-26
Origin: Natural/Native occurrence			Site: 1929-10-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-07-01

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.28879° / -121.96247°	Township: 05N
UTM: Zone-10 N4238367 E590735	Range: 01W
Radius: 1 mile	Section: 10
Elevation: 80 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: VANDEN, BASE OF PELLEJO HILLS.

Location Detail: EXACT LOCATION NOT KNOWN, UNABLE TO LOCATE 'PELLEJO HILLS'. SITE MAPPED AT VANDEN STATION.

Ecological: SUBSALINE PLAINS.

General: DATA FOR THIS SITE INCLUDES COLLECTIONS BY JEPSON: 1891 (SN JEPS. #32915 UNK, SN UC) FROM "MORNING LIGHT", "VANDEN" & 1929 (#15347 JEPS) FROM "VANDEN STA"; CITATION OF "MORNING LIGHT [SUBSALINE PLAINS EAST OF THE VACA MOUNTAINS,]".

Owner/Manager: UNKNOWN

Occurrence No. 9	Map Index: 42889	EO Index: 42889	Dates Last Seen
Occ Rank: Fair			Element: 1999-09-26
Origin: Natural/Native occurrence			Site: 1999-09-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-05-08

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.31542° / -121.84196°	Township: 06N
UTM: Zone-10 N4241446 E601237	Range: 01E
Area: 1.3 acres	Section: 34
Elevation: 25 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: NORTH SIDE OF HAY ROAD ABOUT 1 MILE WEST OF HIGHWAY 113, NORTHWEST OF DOZIER AND SOUTH OF DIXON.

Location Detail: MAPPED ALONG SECTION LINE BETWEEN SECTIONS 34 AND 35, JUST NORTH OF ROAD.

Ecological: ANNUAL GRASSLAND WITH DISTICHLIS, LOLIUM, BROMUS HORDEACEOUS, AND B. DIANDRUS.

Threat: ROAD MAINTENANCE, GRAZING IN ADJACENT FIELD.

General: 12 PLANTS OBSERVED IN 1999. SITE IS WITHIN COUNTY ROAD RIGHT-OF-WAY.

Owner/Manager: SOL COUNTY

Isocoma arguta

Carquinez goldenbush

Element Code: PDAST57050

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND.

Micro: ALKALINE SOILS, FLATS, LOWER HILLS. ON LOW BENCHES NEAR DRAINAGES & ON TOPS & SIDES OF MOUNDS IN SWALE HABITAT. 1-20M.

Occurrence No. 10	Map Index: 42890	EO Index: 42890	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-05-08

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.19342° / -121.89516°	Township: 04N
UTM: Zone-10 N4227852 E596748	Range: 01E
Area: 14.7 acres	Section: 17
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: BETWEEN DENVERTON AND MONTEZUMA, ABOUT 2 MILES SOUTH OF HIGHWAY 12 ALONG W-SIDE OF SHILO ROAD, EAST OF GRIZZLY ISLAND.

Location Detail: 5 COLONIES MAPPED IN 1 POLYGON ALONG DIRT ROAD ABOUT 0.3 MILE WEST OF SHILO ROAD. MAPPED MOSTLY WITHIN THE SW1/4 NW1/4 SECTION 17.

Threat: NATURAL GAS EXPLORATION IN THE AREA, BUT PROBABLY NOT A THREAT?

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1999 MAP FROM THE STATE LANDS COMMISSION (PREPARED BY JONES AND STOKES).

Owner/Manager: UNKNOWN

Occurrence No. 11	Map Index: 42891	EO Index: 42891	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-05-08

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.18255° / -121.89608°	Township: 04N
UTM: Zone-10 N4226645 E596681	Range: 01E
Area: 7.7 acres	Section: 20
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: NORTH OF MONTEZUMA, ABOUT 2.6 MILES SOUTH OF HIGHWAY 12 ALONG W-SIDE OF SHILO ROAD, EAST OF GRIZZLY ISLAND.

Location Detail: 2 COLONIES MAPPED IN 1 POLYGON ALONG DIRT ROAD ABOUT 0.35 MILE WEST OF SHILO ROAD. MAPPED WITHIN THE NW 1/4 NW 1/4 SECTION 20.

Threat: NATURAL GAS EXPLORATION IN THE AREA, BUT PROBABLY NOT A LARGE THREAT.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1999 MAP FROM THE STATE LANDS COMMISSION (PREPARED BY JONES AND STOKES).

Owner/Manager: UNKNOWN

Occurrence No. 12	Map Index: 42892	EO Index: 42892	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-05-08

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.16997° / -121.89988°	Township: 04N
UTM: Zone-10 N4225246 E596365	Range: 01E
Area: 8.6 acres	Section: 19
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: WEST OF MONTEZUMA, ABOUT 3.5 MILES SOUTH OF HIGHWAY 12 ALONG W-SIDE OF SHILO ROAD, EAST OF GRIZZLY ISLAND.

Location Detail: 1 COLONY MAPPED ALONG SOUTH SIDE OF DRAINAGE ABOUT 0.5 MILE WEST OF CEMETERY AT MONTEZUMA. MAPPED WITHIN THE SE1/4 SE1/4 SECTION 20.

Threat: NATURAL GAS EXPLORATION IN THE AREA, BUT PROBABLY NOT A LARGE THREAT.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1999 MAP FROM THE STATE LANDS COMMISSION (PREPARED BY JONES AND STOKES).

Owner/Manager: UNKNOWN

Isocoma arguta

Carquinez goldenbush

Element Code: PDAST57050

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND.

Micro: ALKALINE SOILS, FLATS, LOWER HILLS. ON LOW BENCHES NEAR DRAINAGES & ON TOPS & SIDES OF MOUNDS IN SWALE HABITAT. 1-20M.

Occurrence No. 13	Map Index: 54736	EO Index: 54736	Dates Last Seen
Occ Rank: Good			Element: 2003-04-27
Origin: Natural/Native occurrence			Site: 2003-04-27
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-03-18

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.27040° / -121.83000°	Township: 05N
UTM: Zone-10 N4236464 E602345	Range: 01E
Area: 0.4 acres	Section: 23
Elevation: 16 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: WEST SIDE OF OLCOTT LAKE, SOUTH OF OLCOTT.

Location Detail: ONE SMALL COLONY LOCATED NEAR FENCE LINE MAPPED IN THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 23

Ecological: ANNUAL GRASSLAND WITH LOLIUM MULTIFLORUM, BROMUS HORDEACEUS, HORDEUM DEPRESSUM, BRODIAEA TERRESTRIS, & SPERGULARIA MACROTHECA.

Threat: SITE ADJACENT TO RAILROAD.

General: 30-50 INDIVIDUALS OBSERVED IN 2003.

Owner/Manager: SOLANO LAND TRUST

Juglans hindsii

Northern California black walnut

Element Code: PDJUG02040

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: RIPARIAN FOREST, RIPARIAN WOODLAND. FEW EXTANT NATIVE STANDS REMAIN; WIDELY NATURALIZED.
Micro: DEEP ALLUVIAL SOIL ASSOCIATED WITH A CREEK OR STREAM. 0-395M.

Occurrence No. 3	Map Index: 17206	EO Index: 9845	Dates Last Seen
Occ Rank: None			Element: XXXX-XX-XX
Origin: Natural/Native occurrence			Site: 2002-10-XX
Presence: Extirpated			
Trend: Unknown			Record Last Updated: 2002-11-21

Quad Summary: Rio Vista (3812126/480B), Isleton (3812125/480A), Courtland (3812135/497D), Florin (3812144/496B), Clarksburg (3812145/497A)
County Summary: Sacramento, Solano, Yolo

Lat/Long: 38.30672° / -121.57422°	Township: 05N
UTM: Zone-10 N4240809 E624659	Range: 04E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Section: 5
	Meridian: M
	Symbol Type: POLYGON
	Qtr: XX

Location: ALONG THE SACRAMENTO RIVER, BETWEEN FREEPORT AND RIO VISTA, MOSTLY AT WALNUT GROVE.
Location Detail: TREES WERE ALONG BOTH SIDES OF RIVER.
Ecological: ON HIGH SPOTS ALONG THE BANK.
Threat: TREES NO LONGER REMAIN AT THIS SITE, THEY WERE CUT PRIOR TO 1949 ACCORDING TO SMITH, 1949.
General: SITE EXTIRPATED ACCORDING TO CALLIZO (2002).
Owner/Manager: UNKNOWN

Lasiurus blossevillii

western red bat

Element Code: AMACC05060

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status: SC
State: None	State: S3?	

Habitat Associations

General: ROOSTS PRIMARILY IN TREES, 2-40 FT ABOVE GROUND, FROM SEA LEVEL UP THROUGH MIXED CONIFER FORESTS.
Micro: PREFERS HABITAT EDGES & MOSAICS WITH TREES THAT ARE PROTECTED FROM ABOVE & OPEN BELOW WITH OPEN AREAS FOR FORAGING.

Occurrence No. 65	Map Index: 68993	EO Index: 69702	Dates Last Seen
Occ Rank: Unknown			Element: 1999-09-24
Origin: Natural/Native occurrence			Site: 1999-09-24
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-04-19

Quad Summary: Rio Vista (3812126/480B)
County Summary: Sacramento

Lat/Long: 38.14667° / -121.64745°	Township: 04N
UTM: Zone-10 N4222952 E618515	Range: 03E
Radius: 1/10 mile	Section: 33
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: BRANNAN ISLAND, ABOUT 1.8 ROAD MILES SE OF INTERSECTION OF HWYS 12 AND 160.
Location Detail: MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY SOURCE, WITH LOCALITY "RIVER EDGE." SOURCE LISTS 4 COORDINATES FOR "BRANNAN SRA." BAT ASSUMED TO BE DETECTED AT ALL 4 LOCATIONS (OCC #64-65).
Ecological: NO TREES. CONSISTS OF GRASSLAND OR SHRUBS.
General: BAT(S) DETECTED ON 24 SEP 1999.
Owner/Manager: DPR-BRANNAN ISLAND SRA

Occurrence No. 69	Map Index: 68997	EO Index: 69709	Dates Last Seen
Occ Rank: Unknown			Element: 1999-08-31
Origin: Natural/Native occurrence			Site: 1999-08-31
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-04-19

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.15135° / -121.97225°	Township: 04N
UTM: Zone-10 N4223107 E590048	Range: 01W
Radius: 1/10 mile	Section: 33
Elevation: 0 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: GRIZZLY ISLAND, ABOUT 0.25 MILES SSE OF CALIFORNIA STATE FISH AND GAME HEADQUARTERS.
Location Detail: MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY SOURCE.
Ecological: EXOTIC. CONSISTS PRIMARILY OF YOUNG TREES AND/OR A SPARSE RIPARIAN STRIP OF 1 TREE WIDE.
General: BAT(S) DETECTED ON 31 AUG 1999.
Owner/Manager: DFG-GRIZZLY ISLAND WA

Lasiurus cinereus

hoary bat

Element Code: AMACC05030

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G5 State: S4?	CDFG Status:

Habitat Associations

General: PREFERS OPEN HABITATS OR HABITAT MOSAICS, WITH ACCESS TO TREES FOR COVER & OPEN AREAS OR HABITAT EDGES FOR FEEDING.
Micro: ROOSTS IN DENSE FOLIAGE OF MEDIUM TO LARGE TREES. FEEDS PRIMARILY ON MOTHS. REQUIRES WATER.

Occurrence No. 122	Map Index: 56465	EO Index: 68885	Dates Last Seen
Occ Rank: Unknown			Element: 1916-03-15
Origin: Natural/Native occurrence			Site: 1916-03-15
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-03-19

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.23849° / -122.04013°	Township: 05N
UTM: Zone-10 N4232712 E584000	Range: 02W
Radius: 3/5 mile	Section: 36
Elevation:	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: SUISIN CITY.
Location Detail: MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY MANIS, WITH UNCERTAINTY OF 804.672M.
General: 1 MALE SPECIMEN (MVZ #106317) COLLECTED AT "SUISIN" BY A.L. SCARLETT ON 15 MAR 1916.
Owner/Manager: UNKNOWN

Occurrence No. 207	Map Index: 68993	EO Index: 69701	Dates Last Seen
Occ Rank: Unknown			Element: 1999-09-24
Origin: Natural/Native occurrence			Site: 1999-09-24
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-04-19

Quad Summary: Rio Vista (3812126/480B)
County Summary: Sacramento

Lat/Long: 38.14667° / -121.64745°	Township: 04N
UTM: Zone-10 N4222952 E618515	Range: 03E
Radius: 1/10 mile	Section: 33
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: BRANNAN ISLAND, ABOUT 1.8 ROAD MILES SE OF INTERSECTION OF HWYS 12 AND 160.
Location Detail: MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY SOURCE, WITH LOCALITY "RIVER EDGE." SOURCE LISTS 4 COORDINATES FOR "BRANNAN SRA." BAT ASSUMED TO BE DETECTED AT ALL 4 LOCATIONS (OCC #206-207).
Ecological: NO TREES. CONSISTS OF GRASSLAND OR SHRUBS.
General: BAT(S) DETECTED ON 24 SEP 1999.
Owner/Manager: UNKNOWN

Lasthenia conjugens

Contra Costa goldfields

Element Code: PDAST5L040

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS, CISMONTANE WOODLAND. EXTIRPATED FROM MOST OF ITS RANGE; EXTREM. ENDANGERED.
Micro: VERNAL POOLS, SWALES, LOW DEPRESSIONS, IN OPEN GRASSY AREAS. 1-445M.

Occurrence No. 3	Map Index: 09732	EO Index: 16733	Dates Last Seen
Occ Rank: Fair			Element: 2002-04-25
Origin: Natural/Native occurrence			Site: 2002-04-25
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-05-03

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.23477° / -122.05954°	Township: 05N
UTM: Zone-10 N4232281 E582306	Range: 02W
Area: 15.0 acres	Section: 35
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: CORDELIA RD, WEST OF SUISUN CITY, 0.4 MI E OF O'REHR RD ESPECIALLY ALONG LEDGEWOOD CREEK.
Location Detail: IN 1991 PLANTS SEEN ALONG CREEK THROUGH MIDDLE OF PROPERTY N OF TRACKS. PLANTS ALSO SEEN LATER SOUTH OF THE TRACKS AND EVEN SOUTH OF HWY 12. ALL THESE COLONIES MAPPED AS ONE OCCURRENCE.
Ecological: DISTURBED GRASSLAND AND SWALES. IN VERNAL DRAINAGE IN PASTURE W/VERNAL POOL. WITH HORDEUM GENICULATUM, LOLIUM MULTIFLORUM, LASTHENIA GLABERRIMA, COTULA CORONOPIFOLIA, FRANKENIA, ERYNGIUM, PSILOCARPUS BREVISSIMUS, AND BRODIAEA CORONARIA.
Threat: HEAVILY GRAZED, MOST VEG. REMOVED BY DISKING (3/94) EXCEPT SMALL AREAS DELINEATED AS WETLANDS. INDUSTRIAL DEV. PROBABLE.
General: ABOUT 75 PLANTS SEEN IN 1991, BUT SITE WAS VISITED LATE IN THE SEASON. 1000'S SEEN IN 1993, 1500 IN 1994, EST. 6,500 PLANTS SEEN ON 220 ACRES AT "GENTRY" IN 1999. NEED UPDATED FIELDWORK.

Owner/Manager: PVT

Occurrence No. 4	Map Index: 10113	EO Index: 16731	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-08-22

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.23005° / -121.94181°	Township: 05N
UTM: Zone-10 N4231869 E592616	Range: 01W
Area: 1.8 acres	Section: 35
Elevation: 13 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: S
Symbol Type: POLYGON	

Location: SOUTH OF TRAVIS AFB, ALONG NORTH SIDE OF HIGHWAY 12 ABOUT 0.5 MILE EAST OF BRANSCOMBE ROAD, EAST OF FAIRFIELD.
Location Detail: MAPPED ABOUT 0.1 MILE NORTH OF HIGHWAY 12 NEAR CENTER OF S 1/4 SECTION 35.
Ecological: GRASSY FIELD.
Threat: GRAZING.
General: FIRST REPORTED IN 1960 COLLECTION BY R. ORNDUFF (#6055 UC) FROM "6 MI E OF FAIRFIELD." NO PLANTS FOUND IN 1988; VERY DRY SPRING. IDENTIFICATION QUESTIONED BY J. CALLIZO (1988). PLANTS REPORTED AGAIN IN 1999 MAP BY STATE LANDS COMMISSION.

Owner/Manager: UNKNOWN

Lasthenia conjugens

Contra Costa goldfields

Element Code: PDAST5L040

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS, CISMONTANE WOODLAND. EXTIRPATED FROM MOST OF ITS RANGE; EXTREM. ENDANGERED.
Micro: VERNAL POOLS, SWALES, LOW DEPRESSIONS, IN OPEN GRASSY AREAS. 1-445M.

Occurrence No. 5	Map Index: 10127	EO Index: 21904	Dates Last Seen
Occ Rank: None			Element: 1974-06-20
Origin: Natural/Native occurrence			Site: 1993-04-14
Presence: Possibly Extirpated			
Trend: Unknown			Record Last Updated: 2007-04-26

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.30806° / -121.94534°	Township: 05N
UTM: Zone-10 N4240522 E592208	Range: 01W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 100 ft	Section: 02
	Symbol Type: POLYGON
	Meridian: M
	Qtr: NW

Location: ROADSIDE DITCH BESIDE RAILROAD TRACKS APPROXIMATELY 2 MILES NORTHEAST OF VANDEN.
Location Detail: MAPPED AT CNDDDB AS A NON-SPECIFIC POLYGON ALONG VANDEN ROAD NORTH OF JUNCTION WITH CANNON ROAD.
Threat: THICK PERENNIAL RYE.
General: NO PLANTS SEEN IN 1988-VERY DRY SPRING, LITTLE RAIN (CALLIZO). NO PLANTS SEEN IN 1993-A VERY WET SPRING (HOWALD). VERY DISTURBED SITE THAT WAS ONCE VERNAL POOL HABITAT; AREA NOW DOMINATED BY INTRODUCED GRASSES AND ANNUALS.
Owner/Manager: PVT

Occurrence No. 7	Map Index: 09982	EO Index: 21918	Dates Last Seen
Occ Rank: Good			Element: 2003-04-XX
Origin: Natural/Native occurrence			Site: 2003-04-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-04-24

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.28095° / -121.98353°	Township: 05N
UTM: Zone-10 N4237477 E588902	Range: 01W
Area: 166.1 acres	Mapping Precision: SPECIFIC
Elevation: 45 ft	Section: 16
	Symbol Type: POLYGON
	Meridian: M
	Qtr: N

Location: WEST OF TRAVIS AFB; EAST AND NORTH OF INTERSECTION OF AIRBASE PARKWAY AND WALTERS ROAD.
Location Detail: NORTH AND WEST PORTIONS OF SECTION 16, SE 1/4 OF SECTION 17, AND NW 1/4 OF SECTION 21. 1995 KELCH COLLECTION FROM "194 WALTERS ROAD, FAIRFIELD" ATTRIBUTED TO THIS OCCURRENCE, BUT EXACT LOCATION OF ADDRESS UNKNOWN.
Ecological: ALKALINE VERNAL POOLS/VERNAL SWALE WITHIN NON-NATIVE GRASSLAND. WITH LOLIUM MULTIFLORUM, PLAGIOBOTHRYUS STIPITATUS MICRANTHUS, DOWNINGIA INSIGNIS, D. CONCOLOR, ERYNGIUM SP., PLEUROPOGON CALIFORNICUS, COTULA CORONOPHOLIA, RUMEX SPP., ET AL.
Threat: PROPOSED FOR DEVELOPMENT (1995). FIELD EAST OF WALTERS ROAD IS MOWED ANNUALLY AND PORTIONS ALONG THE ROAD ARE DISKED.
General: >100 PLANTS SEEN E OF WALTERS RD IN 1995; 100,000 EST. IN 1995 OVER LARGER AREA; >300,000 IN 2000. UNKNOWN NUMBER IN 2002 & 2003. >100,000 AT N COLONIES (1996). SEVERAL COLLECTIONS ATTRIBUTED TO THIS OCCURRENCE. INCL FORMER EO #26, #27.
Owner/Manager: PVT

Lasthenia conjugens

Contra Costa goldfields

Element Code: PDAST5L040

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS, CISMONTANE WOODLAND. EXTIRPATED FROM MOST OF ITS RANGE; EXTREM. ENDANGERED.
Micro: VERNAL POOLS, SWALES, LOW DEPRESSIONS, IN OPEN GRASSY AREAS. 1-445M.

Occurrence No. 19	Map Index: 09759	EO Index: 9463	Dates Last Seen
Occ Rank: None			Element: 1985-05-08
Origin: Natural/Native occurrence			Site: 1994-XX-XX
Presence: Possibly Extirpated			
Trend: Unknown			Record Last Updated: 1996-02-05

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.24015° / -122.05179°	Township: 05N
UTM: Zone-10 N4232886 E582979	Range: 02W
Area: 8.6 acres	Section: 35
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: JUST WEST OF SUISUN CITY, NEAR JUNCTION OF CORDELIA ROAD AND PENNSYLVANIA AVE.
Location Detail: BOTH SIDES OF PENNSYLVANIA AVE, N OF RAILROAD TRACKS.
Ecological: IN GRASSLAND IN VERNAL POOLS ASSOCIATED WITH ERYNGIUM VASEYI, LASTHENIA GLABERRIMA, DOWNINGIA PULCHELLA, AND MYOSURUS MINIMUS.
Threat: CURRENTLY GRAZED AND ZONED FOR INDUSTRIAL DEVELOPMENT. INDUSTRIAL DEVELOPMENT ALREADY EXISTS NEARBY.
General: 2 POPULATIONS WERE HERE, E AND W OF PENNSYLVANIA AVE. NOT FOUND IN 1988; NO RAIN. INCLUDES FORMER OCC. #9 KNOWN FROM "SUISUN". SITE DISKED IN 1994; NO PLANTS FOUND AFTER DISKING.

Owner/Manager: PVT

Occurrence No. 20	Map Index: 10039	EO Index: 17769	Dates Last Seen
Occ Rank: Excellent			Element: 2004-04-29
Origin: Natural/Native occurrence			Site: 2004-04-29
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-04-25

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.22448° / -121.96410°	Township: 04N
UTM: Zone-10 N4231229 E590672	Range: 01W
Area: 130.0 acres	Section: 03
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: N
Symbol Type: POLYGON	

Location: SOUTH OF TRAVIS AFB, ALONG BOTH SIDES OF SCALLY ROAD AND SOUTH OF HIGHWAY 12, EAST OF FAIRFIELD.
Location Detail: SEVERAL COLONIES MAPPED SOUTH OF KILDEER ROAD BETWEEN POTRERO HILLS LANE AND SCALLY ROAD, IN THE NE 1/4 OF SECTION 4. LARGER AREA OF PLANTS SOUTH OF HWY 12 BETWEEN SCALLY ROAD AND BRANSCOMBE ROAD, IN THE N 1/2 OF SECTION 3.
Ecological: VERNAL POOLS, GRASSLAND AND SEASONAL WETLANDS ON SOLANO LOAM SOIL. ASSOCIATED WITH LASTHENIA PLATYCARPHA, PSILOCARPHUS, FRANKENIA GRANDIFOLIA, DOWNINGIA, MYOSURUS MINIMUS, PLAGIOBOTHRYIS, PLEUROPOGON, ERYNGIUM, TRIFOLIUM, ET AL.
Threat: GRAZING AND DEVELOPMENT THREATEN. LANDFILL NEARBY. NONNATIVES MAY ALSO THREATEN.
General: 10,000+ IN 1986 AND 1992, 100,000+ IN 1993 WEST OF SCALLY RD. 4,500 IN 1996 AT SW END OF SITE. EST. 5,000 PLANTS ON 26 ACRES IN "POTRERO HILLS" IN 1999. UNKNOWN NUMBER E OF SCALLY RD IN 1999. APPROX 18 MILLION AT NW COLONY IN 2004.

Owner/Manager: PVT

Lasthenia conjugens

Contra Costa goldfields

Element Code: PDAST5L040

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS, CISMONTANE WOODLAND. EXTIRPATED FROM MOST OF ITS RANGE; EXTREM. ENDANGERED.
Micro: VERNAL POOLS, SWALES, LOW DEPRESSIONS, IN OPEN GRASSY AREAS. 1-445M.

Occurrence No. 22	Map Index: 30303	EO Index: 21933	Dates Last Seen
Occ Rank: Good			Element: 1999-05-XX
Origin: Natural/Native occurrence			Site: 1999-05-XX
Presence: Presumed Extant			
Trend: Fluctuating			Record Last Updated: 2007-05-03

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26805° / -121.97315°	Township: 05N
UTM: Zone-10 N4236055 E589826	Range: 01W
Area: 24.8 acres	Section: 21
Elevation: 45 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: ALONG AND SOUTH OF TRAVIS AIR FORCE BASE LANDING STRIP, SOUTH OF AIR BASE DRIVE AND WEST OF TRAVIS AFB HOSPITAL.
Location Detail: FIVE COLONIES MAPPED AS A SINGLE POLYGON AT CNDD. COLONIES OCCUR ALONG EITHER SIDE OF THE SW END OF LANDING STRIP AND BOTH SIDES OF RR TRACKS SOUTH OF THE STRIP. HABITAT NEAR RR TRACKS IS GOOD; NEAR RUNWAY, HABITAT QUAL ONLY FAIR.
Ecological: ALKALINE VERNAL POOLS. MANY NATIVES. ADJACENT UPLANDS SERIOUSLY INVADDED BY INTRODUCED ANNUAL GRASSES AND LEGUMES. ASTRAGALUS TENER TENER ALSO NEARBY.
Threat: SEASONALLY USED FOR HORSE GRAZING. PART OF SITE BLADED ANNUALLY TO PROVIDE PARKING FOR ANNUAL FAIR.
General: APPROX. 22,000 PLANTS SEEN IN 1993. EST. 6,500 SEEN BY COLLINGE IN 1999 AT UNKNOWN SITE ON APPROX. 25 ACRES IN "TRAVIS AFB." 1999 COLLINGE ET AL. COLLECTION "VERNAL POOL COMPLEX NEAR THE AERO CLUB, TRAVIS AFB" ATTRIBUTED TO THIS SITE.
Owner/Manager: DOD-TRAVIS AFB

Occurrence No. 24	Map Index: 32988	EO Index: 568	Dates Last Seen
Occ Rank: Good			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-04-25

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.28568° / -121.95817°	Township: 05N
UTM: Zone-10 N4238025 E591115	Range: 01W
Area: 87.8 acres	Section: 15
Elevation: 70 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: NW OF TRAVIS AFB, EAST OF PEABODY ROAD, SOUTH OF SOUTHERN PACIFIC RAILROAD & WEST OF SACRAMENTO NORTHERN RAILROAD.
Location Detail: TWO SIGNIFICANT COLONIES LOCATED NORTHEAST AND SOUTHWEST OF VANDEN HIGH SCHOOL. L. CONJUGENS ESPECIALLY ABUNDANT IN DEPRESSIONS (MANMADE FURROWS).
Ecological: LOW, MOIST PLACES AND VERNAL POOLS IN A COMPLEX OF ANTIOCH AND SAN YSIDRO SOILS. ASSOCIATED WITH LOLIUM MULTIFLORUM, PLAGIOBOTHRYUS STIPITATUS MICRANTHUS, POLYPOGON SP., AND LASTHENIA GLABERRIMA.
Threat: LARGE MOUNDS OF FILL MATERIAL FOUND ADJACENT TO SITE IN 1994; POTENTIALLY THREATENED BY DEVELOPMENT.
General: EST. 10,000 PLANTS IN 1999 ON 77 ACRES ON "MCBAIL PROPERTY." AT LEAST 250,000 PLANTS IN 1995; POSSIBLY MANY MORE. APPROX 1300 PLANTS IN 1993 AND 94 IN SEVERAL DEPRESSIONS THROUGHOUT MAPPED POLYGON. FMR OCC #25 LUMPED HERE.
Owner/Manager: PVT

Lasthenia conjugens

Contra Costa goldfields

Element Code: PDAST5L040

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS, CISMONTANE WOODLAND. EXTIRPATED FROM MOST OF ITS RANGE; EXTREM. ENDANGERED.
Micro: VERNAL POOLS, SWALES, LOW DEPRESSIONS, IN OPEN GRASSY AREAS. 1-445M.

Occurrence No. 28	Map Index: 32993	EO Index: 541	Dates Last Seen
Occ Rank: Unknown			Element: 1993-XX-XX
Origin: Natural/Native occurrence			Site: 1993-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1996-02-05

Quad Summary: Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.27456° / -122.00415°	Township: 05N
UTM: Zone-10 N4236747 E587107	Range: 01W
Radius: 80 meters	Section: 17
Elevation: 60 ft	Meridian: M
	Qtr: SW

Location: NE OF FAIRFIELD; 0.1 MI N OF AIR BASE PARKWAY, 1.75 AIRMI DUE S OF SUMMIT OF CEMENT HILL.

General: ABOUT 10 PLANTS IN 1993.

Owner/Manager: UNKNOWN

Occurrence No. 33	Map Index: 42506	EO Index: 42506	Dates Last Seen
Occ Rank: Unknown			Element: 1998-05-08
Origin: Natural/Native occurrence			Site: 1998-05-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-03-07

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.21325° / -122.11662°	Township: 04N
UTM: Zone-10 N4229844 E577333	Range: 02W
Radius: 1/10 mile	Section: 07
Elevation: 10 ft	Meridian: M
	Qtr: XX

Location: CORDELIA, ALONG CORDELIA ROAD ABOUT 0.7 MILE EAST OF PITMAN ROAD, SOUTHWEST OF FAIRFIELD.

Location Detail: SITE IS 30 METERS SOUTH OF CORDELIA ROAD AND 0.7 MILE EAST OF JUNCTION WITH PITMAN ROAD. MAPPED AT BEND IN ROAD BETWEEN CORDELIA ROAD AND RR TRACKS.

Ecological: GROWING IN GRASSY CAUSEWAY AND ALONG BANKS OF A POND.

General: CHAN PROVIDES SITE DESCRIPTION "STRAY INDIVIDUALS GROWING ON GRASSY CAUSEWAY; DISPERSED FROM DENSE PATCHES GROWING ALONG SHARED POND OF ADJACENT PROPERTY." & COLLECTIONS 1996 (#96001 JEPS) & 1998 (#98021 JEPS).

Owner/Manager: PVT

Occurrence No. 34	Map Index: 43586	EO Index: 43586	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-08-22

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.23215° / -121.93011°	Township: 05N
UTM: Zone-10 N4232114 E593638	Range: 01W
Area: 9.7 acres	Section: 36
Elevation: 10 ft	Meridian: M
	Qtr: SW

Location: SOUTH OF TRAVIS AFB, ALONG NORTH SIDE OF HIGHWAY 12 ABOUT 1.2 MILES EAST OF BRANSCOMBE ROAD, EAST OF FAIRFIELD.

Location Detail: MAPPED WITHIN THE W 1/2 SW 1/4 SECTION 36.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL (STATE LANDS COMMISSION, 1999).

Owner/Manager: UNKNOWN

Lasthenia conjugens

Contra Costa goldfields

Element Code: PDAST5L040

Status _____	NDDB Element Ranks _____	Other Lists _____
Federal: Endangered	Global: G1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations _____

General: VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS, CISMONTANE WOODLAND. EXTIRPATED FROM MOST OF ITS RANGE; EXTREM. ENDANGERED.
Micro: VERNAL POOLS, SWALES, LOW DEPRESSIONS, IN OPEN GRASSY AREAS. 1-445M.

Occurrence No. 36	Map Index: 24709	EO Index: 51716	Dates Last Seen _____
Occ Rank: None			Element: 1918-10-01
Origin: Natural/Native occurrence			Site: 1918-10-01
Presence: Possibly Extirpated			
Trend: Unknown			Record Last Updated: 2005-09-20

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.32825° / -121.96125°	Township: 06N
UTM: Zone-10 N4242747 E590791	Range: 01W
Radius: 3/5 mile	Section: 34
Elevation: 150 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: LITTLE OAK.

Location Detail: MAPPED IN THE HISTORICAL VICINITY OF THE JEPSON FAMILY'S LITTLE OAK RANCH, EAST OF PEABODY RD AND SOUTH OF ALAMO DR.

General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1918 COLLECTION BY JEPSON.

Owner/Manager: UNKNOWN

Laterallus jamaicensis coturniculus

California black rail

Element Code: ABNME03041

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4T1	CDFG Status:
State: Threatened	State: S1	

Habitat Associations

General: INHABITS FRESHWATER MARTSHES, WET MEADOWS & SHALLOW MARGINS OF SALTWATER MARSHES BORDERING LARGER BAYS.
Micro: NEEDS WATER DEPTHS OF ABOUT 1 INCH THAT DOES NOT FLUCTUATE DURING THE YEAR & DENSE VEGETATION FOR NESTING HABITAT.

Occurrence No. 20	Map Index: 37831	EO Index: 25814	Dates Last Seen
Occ Rank: Excellent			Element: 2006-04-06
Origin: Natural/Native occurrence			Site: 2006-04-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-02-08

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.22656° / -122.04552°	Township: 04N
UTM: Zone-10 N4231384 E583542	Range: 02W
Area:	Section: 02 Qtr: XX
Elevation: 10 ft	Meridian: M

Location: PEYTONIA SLOUGH, 0.75 MI S OF SUISUN CITY.
Ecological: MARSH VEGETATION CONSISTS OF MIXTURE OF DISTICHLIS, TYPHA, SCIRPUS, JUNCUS, AND SALICORNIA.
Threat: JET SKIS ARE BECOMING MORE COMMON ON PEYTONIA SLOUGH; POSSIBILITY OF FERAL CATS, RATS, RACCOONS, AND RIVER OTTERS.
General: ONE RAIL OBSERVED IN JUL 1977. 1 BIRD OBSERVED IN MAY 2002. 4 BREEDING ADULTS OBSERVED 29 JAN 2003. 7 BIRDS OBSERVED 1 APR 2004. 6 BIRDS OBSERVED 22 FEB & 1 OBSERVED 6 APR 2006.
Owner/Manager: DFG-PEYTONIA SLOUGH ER

Occurrence No. 22	Map Index: 44408	EO Index: 6759	Dates Last Seen
Occ Rank: Excellent			Element: 2006-03-27
Origin: Natural/Native occurrence			Site: 2006-03-27
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-02-08

Quad Summary: Denverton (3812128/481B), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.19228° / -122.01826°	Township: 04N
UTM: Zone-10 N4227605 E585969	Range: 01W
Area:	Section: 18 Qtr: XX
Elevation: 9 ft	Meridian: M

Location: RUSH RANCH, SW OF GRIZZLY ISLAND RD, 3 MILES SSE OF SUISUN CITY.
Location Detail: MVZ RECORDS GIVE LOCATION ONLY AS "SUISUN MARSH" & "SUISUN". HER04R0001: 10 SURVEY LOCATIONS WITHIN THIS AREA. DETECTIONS WERE WITHIN 100 METERS OF SURVEY LOCATIONS.
Ecological: MUDFLATS & SLOUGHS WITH PICKLEWEED & CORD GRASS, IN NATURAL TIDAL MARSH WITH UNMANAGED UPLAND AREA ADJACENT. HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SALICORNIA VIRGINICA, SCIRPUS SPP., AND TYPHA SPP.
Threat: INLET & OUTLET TIDE GATES ON CUTOFF SLOUGH, ENLARGING CUTOFF SLOUGH TO INCREASE WATER CAPACITY, RED FOXES MAY BE PRESENT
General: MVZ#17252-3 (1911) & 23524 (1913). OBS '75, '76, '78, '85, '86, '88 & 2000. 1 OBS 2/91 & 2 HEARD NEAR 2ND MALLARD BRANCH 12/92 . 3 NESTS & 11 TERRITORIES OBS MAR-JUN 2005. BIRDS OBS: 2002 (20), 2003 (32), 2004; (34), 2005 (24), & 2006 (14).
Owner/Manager: DFG, UNKNOWN

Laterallus jamaicensis coturniculus

California black rail

Element Code: ABNME03041

Status	NDDB Element Ranks	Other Lists
Federal: None State: Threatened	Global: G4T1 State: S1	CDFG Status:

Habitat Associations

General: INHABITS FRESHWATER MARTSHES, WET MEADOWS & SHALLOW MARGINS OF SALTWATER MARSHES BORDERING LARGER BAYS.
Micro: NEEDS WATER DEPTHS OF ABOUT 1 INCH THAT DOES NOT FLUCTUATE DURING THE YEAR & DENSE VEGETATION FOR NESTING HABITAT.

Occurrence No. 118	Map Index: 47343	EO Index: 47343	Dates Last Seen
Occ Rank: Good			Element: 2004-02-20
Origin: Natural/Native occurrence			Site: 2004-02-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-11-29

Quad Summary: Denverton (3812128/481B), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.22819° / -121.99552°	Township: 04N
UTM: Zone-10 N4231610 E587917	Range: 01W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 5 ft	Symbol Type: POLYGON
	Section: 05 Qtr: XX
	Meridian: M

Location: 2.3 MILES SE OF SUISUN CITY; LOCATED WITHIN MARSH NEAR HILL SLOUGH, NORTH OF POTRERO HILLS AND SOUTH OF TOLENAS.
Ecological: LOWER HIGH INTERTIDAL ZONE OF BRACKISH MARSH. AREA VEGETATED WITH CUSCUTA SALINA, DISTICHLIS SPICATA, SALICORNIA VIRGINICA, JAUMEA CARNOSA, LIMONIUM CALIFORNICUM, ATRIPLEX TRIANGULARIS AND PLANTAGO SUBNUDA.
Threat: THREAT CONSISTS OF BICYCLE/FOOT TRAFFIC AND STRAY DOGS. JET SKIS ARE BECOMING MORE COMMON, PRODUCING NOISE AND WAKE.
General: 12 SEP 2000: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/HEARD. IN 2002, 4 WERE OBSERVED. IN MAR 2003, 3 BREEDING ADULTS WERE OBSERVED. IN 2004, 4 WERE OBSERVED.

Owner/Manager: DFG-HILL SLOUGH WA

Occurrence No. 129	Map Index: 59862	EO Index: 63294	Dates Last Seen
Occ Rank: Good			Element: 2005-03-30
Origin: Natural/Native occurrence			Site: 2005-03-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-11-22

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.20185° / -122.06517°	Township: 04N
UTM: Zone-10 N4228624 E581850	Range: 02W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 9 ft	Symbol Type: POLYGON
	Section: 10 Qtr: XX
	Meridian: M

Location: FROM JUST NORTH OF, TO 0.5 MILE SW OF BOYNTON SLOUGH, 3 MILES SOUTH OF FAIRFIELD.
Location Detail: 7 SURVEY LOCATIONS WITHIN THIS AREA. DETECTIONS WITHIN 100 METERS OF SURVEY LOCATIONS.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SALICORNIA VIRGINICA, SCIRPUS SPP., AND TYPHA SPP.
General: 3 DETECTIONS ON 30 MAR 2005.

Owner/Manager: DFG-GRIZZLY ISLAND WA, UNKNOWN

Occurrence No. 178	Map Index: 70568	EO Index: 71478	Dates Last Seen
Occ Rank: Excellent			Element: 2006-05-08
Origin: Natural/Native occurrence			Site: 2006-05-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-02-25

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.22481° / -122.01415°	Township: 04N
UTM: Zone-10 N4231219 E586290	Range: 01W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 5 ft	Symbol Type: POLYGON
	Section: 06 Qtr: XX
	Meridian: M

Location: HILL SLOUGH, JUST EAST OF MCCOY CREEK, 2.5 MILES ESE OF FAIRFIELD.
Ecological: TIDAL BRACKISH MARSH CHARACTERIZED BY SCIRPUS CALIFORNICUS, JUNCUS BALTICUS, TRIGLOCHIN MARITIMA, DISTICHLIS SPICATA, PONTENTILLA ANSERINA, SALICORNIA VIRGINICA.
Threat: JET SKIS ARE BECOMING MORE COMMON ON CUTOFF SLOUGH, PRODUCING NOISE AND WAKE; POSSIBILITY OF FERAL CATS, RATS, RACCOONS.
General: 3 BREEDING ADULTS DETECTED BY VOCALIZATION ON 8 APR 2003 AND 3 INDIVIDUALS DETECTED BY VOCALIZATION IN MAR AND MAY 2006.
Owner/Manager: DFG-HILL SLOUGH WA

Laterallus jamaicensis coturniculus

California black rail

Element Code: ABNME03041

Status	NDDB Element Ranks	Other Lists
Federal: None State: Threatened	Global: G4T1 State: S1	CDFG Status:

Habitat Associations
 General: INHABITS FRESHWATER MARTSHES, WET MEADOWS & SHALLOW MARGINS OF SALTWATER MARSHES BORDERING LARGER BAYS.
 Micro: NEEDS WATER DEPTHS OF ABOUT 1 INCH THAT DOES NOT FLUCTUATE DURING THE YEAR & DENSE VEGETATION FOR NESTING HABITAT.

Occurrence No. 183	Map Index: 70577	EO Index: 71487	Dates Last Seen
Occ Rank: Excellent			Element: 2006-03-22
Origin: Natural/Native occurrence			Site: 2006-03-22
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-02-25

Quad Summary: Vine Hill (3812211/482D), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.12603° / -122.06916°	Township: 03N
UTM: Zone-10 N4220208 E581585	Range: 02W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 8 ft	Section: 10 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: SOUTH END OF JOICE ISLAND.
Ecological: TIDAL BRACKISH MARSH CHARACTERIZED BY POTENTILLA ANSERINA, JUNCUS BALTICUS, DISTICHLIS SPICATA, SCIRPUS AMERICANUS AND TYPHA ANGUSTIFOLIA.
Threat: INVASIVE PLANT: LEPIDIUM LATIFOLIUM.
General: 06/1988: ABOUT 14 BIRDS OBS. 1 INDIVIDUAL WAS DETECTED VOCALLY ON 15 MAR 2004. 10 INDIVIDUALS WERE DETECTED VOCALLY ON 28 FEB 2005. 15 INDIVIDUALS WERE DETECTED VOCALLY IN FEB & MAR 2006.

Owner/Manager: DOD-NAVY

Occurrence No. 187	Map Index: 60149	EO Index: 71493	Dates Last Seen
Occ Rank: Unknown			Element: 2005-01-13
Origin: Natural/Native occurrence			Site: 2005-01-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-12-04

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.19002° / -121.90834°	Township: 04N
UTM: Zone-10 N4227462 E595597	Range: 01E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 4 ft	Section: 18 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: ALONG SLOUGH (DENVERTON SLOUGH?) ALONG EAST SIDE OF BRADMOOR ISLAND.
Location Detail: MAPPED ACCORDING TO UTM COORDINATES GIVEN FOR SURVEY LOCATION.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SCIRPUS SPP., TYPHA SPP., AND SALICORNIA VIRGINICA.
General: 2 DETECTED VOCALLY ALONG SLOUGH ON 13 JAN 2005.

Owner/Manager: UNKNOWN

Occurrence No. 188	Map Index: 70584	EO Index: 71494	Dates Last Seen
Occ Rank: Fair			Element: 2005-07-07
Origin: Natural/Native occurrence			Site: 2005-07-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-02-25

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.17862° / -121.91143°	Township: 04N
UTM: Zone-10 N4226193 E595342	Range: 01E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 8 ft	Section: 19 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: AREA SOUTH OF LITTLE HONKER BAY AND EAST OF NURSE SLOUGH, NORTHEASTERN SUISUN MARSH.
Location Detail: MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: BRACKISH TIDAL MARSH CHARACTERIZED BY TYPHA ANGUSTIFOLIA, SCIRPUS CALIFORNICUS, AND SCIRPUS ACUTUS.
General: 1 INDIVIDUAL DETECTED VOCALLY ON 26 MAY 2004. 3 INDIVIDUALS DETECTED VOCALLY, 1 ON 30 APR, 1 ON 10 MAY AND 1 ON 7 JUL 2005. IN 2005 THERE WERE 15 POINT SURVEY LOCATIONS IN THIS AREA.

Owner/Manager: DWR

Laterallus jamaicensis coturniculus

California black rail

Element Code: ABNME03041

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4T1	CDFG Status:
State: Threatened	State: S1	

Habitat Associations

General: INHABITS FRESHWATER MARTSHES, WET MEADOWS & SHALLOW MARGINS OF SALTWATER MARSHES BORDERING LARGER BAYS.
Micro: NEEDS WATER DEPTHS OF ABOUT 1 INCH THAT DOES NOT FLUCTUATE DURING THE YEAR & DENSE VEGETATION FOR NESTING HABITAT.

Occurrence No. 189	Map Index: 70585	EO Index: 71495	Dates Last Seen
Occ Rank: Unknown			Element: 2005-07-07
Origin: Natural/Native occurrence			Site: 2005-07-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-12-04

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.19608° / -121.91020°	Township: 04N
UTM: Zone-10 N4228132 E595427	Range: 01E
Radius: 80 meters	Section: 18
Elevation: 8 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: JUST EAST OF THE JUNCTION OF DENVERTON SLOUGH AND UNNAMED SLOUGH, EAST OF BRADMOOR ISLAND.
Location Detail: MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: BRACKISH TIDAL MARSH CHARACTERIZED BY TYPHA ANGUSTIFOLIA, SCIRPUS CALIFORNICUS, AND SCIRPUS ACUTUS.
General: 1 INDIVIDUAL DETECTED VOCALLY ON 7 JUL 2005.
Owner/Manager: UNKNOWN

Occurrence No. 190	Map Index: 70586	EO Index: 71496	Dates Last Seen
Occ Rank: Good			Element: 2005-07-07
Origin: Natural/Native occurrence			Site: 2005-07-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-02-25

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.20024° / -121.91384°	Township: 04N
UTM: Zone-10 N4228590 E595102	Range: 01E
Radius: 80 meters	Section: 07
Elevation: 9 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: 0.23 MILES NORTH OF THE JUNCTION OF DENVERTON SLOUGH AND UNNAMED SLOUGH, NORTHEAST OF BRADMOOR ISLAND.
Location Detail: MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: BRACKISH TIDAL MARSH CHARACTERIZED BY TYPHA ANGUSTIFOLIA, SCIRPUS CALIFORNICUS, AND SCIRPUS ACUTUS.
General: 1 INDIVIDUAL DETECTED VOCALLY ON 7 JUL 2005.
Owner/Manager: UNKNOWN

Occurrence No. 191	Map Index: 70587	EO Index: 71497	Dates Last Seen
Occ Rank: Good			Element: 2005-07-07
Origin: Natural/Native occurrence			Site: 2005-07-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-02-25

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.20520° / -121.91134°	Township: 04N
UTM: Zone-10 N4229143 E595315	Range: 01E
Radius: 80 meters	Section: 07
Elevation: 7 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: ALONG DENVERTON SLOUGH, .60 MILES NNE OF THE JUNCTION OF DENVERTON SLOUGH AND UNNAMED SLOUGH.
Location Detail: MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: BRACKISH TIDAL MARSH CHARACTERIZED BY TYPHA ANGUSTIFOLIA, SCIRPUS CALIFORNICUS, AND SCIRPUS ACUTUS.
General: 1 INDIVIDUAL DETECTED VOCALLY ON 7 JUL 2005.
Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5T2 **CNPS List:** 1B.2
 State: None **State:** S2.2

Habitat Associations _____
General: FRESHWATER AND BRACKISH MARSHES.
Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 3 **Map Index:** 11226 **EO Index:** 19249 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1980-10-XX
Origin: Natural/Native occurrence **Site:** 1980-10-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2000-03-08

Quad Summary: Rio Vista (3812126/480B)
County Summary: Sacramento, Solano

Lat/Long: 38.18394° / -121.65511° **Township:** 04N
UTM: Zone-10 N4227078 E617784 **Range:** 03E
Area: **Mapping Precision:**NON-SPECIFIC **Section:** 21 **Qtr:** XX
Elevation: 2 ft **Symbol Type:**POLYGON **Meridian:** M

Location: STEAMBOAT SLOUGH NEAR JUNCTION WITH SACRAMENTO RIVER.
Location Detail: UNKNOWN WHICH SIDE OF RIVER THE PLANTS WERE SEEN. SITE MAPPED TO ENCOMPASS ALL LIKELY HABITAT ALONG BOTH SIDES OF THE SLOUGH UP TO 0.5 MILE UPSTREAM FROM CONFLUENCE WITH THE SACRAMENTO RIVER. ACTUAL POP. SIZE SMALLER THAN DEPICTED AT CNDDB.
Ecological: EDGE OF SLOUGH JUST ABOVE HIGH WATER LINE. ASSOCIATED WITH EUISETUM, VITUS CALIFORNICA, AND ROSA, QUERCUS LOBATA, PLATANUS RACEMOSA, ALNUS RHOMBIFOLIA, FRAXINUS, AND RUBUS.
General: 5 PLANTS.
Owner/Manager: PVT

Occurrence No. 6 **Map Index:** 09671 **EO Index:** 19246 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1992-XX-XX
Origin: Natural/Native occurrence **Site:** 1992-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1997-12-11

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.17259° / -122.07671° **Township:** 04N
UTM: Zone-10 N4225367 E580872 **Range:** 02W
Radius: 1/10 mile **Mapping Precision:**NON-SPECIFIC **Section:** 22 **Qtr:** XX
Elevation: 5 ft **Symbol Type:**POINT **Meridian:** M

Location: TEAL STATION, SUISUN MARSHES.
Location Detail: MAPPED IN VICINITY OF SLOUGH JUST EAST OF TEAL STATION ALONG SPRR TRACKS.
General: MANY HISTORICAL COLLECTIONS FROM SUISUN MARSHES INCLUDING JEPSON #10231 (JEPS) IN 1938.
Owner/Manager: UNKNOWN

Occurrence No. 7 **Map Index:** 09790 **EO Index:** 6370 **Dates Last Seen** _____
Occ Rank: Good **Element:** 1992-XX-XX
Origin: Natural/Native occurrence **Site:** 1992-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1997-12-11

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.22700° / -122.03894° **Township:** 04N
UTM: Zone-10 N4231438 E584118 **Range:** 02W
Area: 48.6 acres **Mapping Precision:**SPECIFIC **Section:** 01 **Qtr:** XX
Elevation: 5 ft **Symbol Type:**POLYGON **Meridian:** M

Location: SUISUN MARSH, 0.5 MILE SOUTH OF SUISUN ALONG NORTH BANK OF PEYTONIA SLOUGH.
Location Detail: MAPPED ALONG SLOUGH FROM MOUTH WEST ABOUT 0.5 MILE. ADDITIONAL COLONY MAPPED BETWEEN SLOUGH AND SUISUN CITY. WITHIN THE DFG PEYTONIA SLOUGH ECOLOGICAL RESERVE.
Ecological: COASTAL BRACKISH MARSH, ABOVE TIDAL ACTION. ASSOCIATED WITH SCIRPUS SPP., BACCHARIS PILULARIS SSP. CONSANGUINEA, ASTER, AND TYPHA.
Threat: VEGETATION BURNING ASSOCIATED WITH MOSQUITO ABATEMENT PRACTICES. VEGETATION HAS BEEN CUT DOWN IN THE AREA.
General: 200 PLANTS OBSERVED IN WESTERN COLONY IN 1987. ONE + PLANT OBSERVED AT THE EAST COLONY IN 1989. ADDITIONAL COLONIES OBSERVED BY DWR IN 1992. MANY HISTORICAL COLLECTIONS. GROUND HAS BEEN BROKEN NEAR SLOUGH.
Owner/Manager: DFG-PEYTONIA SLOUGH ER

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES.
Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 11	Map Index: 42511	EO Index: 42511	Dates Last Seen
Occ Rank: Unknown			Element: 1923-10-04
Origin: Natural/Native occurrence			Site: 1923-10-04
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-03-08

Quad Summary: Jersey Island (3812116/480C), Bouldin Island (3812115/480D), Rio Vista (3812126/480B), Isleton (3812125/480A)
County Summary: Sacramento

Lat/Long: 38.15251° / -121.68141°	Township: 04N
UTM: Zone-10 N4223558 E615530	Range: 03E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 5 ft	Section: 31
	Meridian: M
	Qtr: XX
	Symbol Type: POLYGON

Location: BRANNAN ISLAND.
Location Detail: EXACT LOCATION NOT KNOWN; POTENTIAL HABITAT ALONG PERIMETER OF ISLAND MAPPED TO REFLECT UNCERTAINTY OF COLLECTION LOCALITY. ACTUAL POPS PROBABLY NOT AS EXTENSIVE AS MAPPED AT CNDDb.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1923 COLLECTION BY W. JEPSON.
Owner/Manager: UNKNOWN

Occurrence No. 15	Map Index: 09734	EO Index: 19238	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1998-08-11

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.15781° / -122.06371°	Township: 04N
UTM: Zone-10 N4223738 E582027	Range: 02W
Area: 224.0 acres	Mapping Precision: SPECIFIC
Elevation: 5 ft	Section: 26
	Meridian: M
	Qtr: XX
	Symbol Type: POLYGON

Location: ALONG SUISUN SLOUGH, FROM WELLS SLOUGH SOUTH PAST ROOS CUT, INCLUDING HUNTER CUT, SUISUN MARSH.
Location Detail: MAPPED MOSTLY ON THE NORTH AND WEST SIDES OF SUISUN SLOUGH, THE MOUTH OF ROOS CUT, AND ALONG HUNTER CUT TO MONTEZUMA SLOUGH.
Ecological: BRACKISH MARSH IN TAMBA MUCKY CLAY. ASSOCIATED WITH TRIGLOCHIN, ARTEMISIA DOUGLASIANA, SCIRPUS, DIPSACUS, LEPIDIUM LATIFOLIUM AND ROSA CALIFORNICA.
General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (DWR). ECOLOGICAL COMMENTS BY LACEY (1986).
Owner/Manager: UNKNOWN

Occurrence No. 47	Map Index: 21929	EO Index: 8490	Dates Last Seen
Occ Rank: Fair			Element: 1991-06-03
Origin: Natural/Native occurrence			Site: 1991-06-03
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-09

Quad Summary: Honker Bay (3812118/481C), Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.12377° / -121.88897°	Township: 03N
UTM: Zone-10 N4220131 E597382	Range: 01E
Area: 49.0 acres	Mapping Precision: SPECIFIC
Elevation: 5 ft	Section: 08
	Meridian: M
	Qtr: NE
	Symbol Type: POLYGON

Location: MONTEZUMA SLOUGH, ALONG BEND ON EAST SIDE OF GRIZZLY ISLAND ABOUT 2 MILES NORTH OF GRIZZLY SLOUGH.
Location Detail: ALONG BOTH SIDES OF SLOUGH AT THE WEST END OF DINKELSPIEL ROAD; ABOUT 0.6 MILE (1 KM) SOUTH OF BIRD'S LANDING.
Ecological: GROWING IN ESTUARINE SALT MARSH ALONG THE BANK OF LEVEE. ASSOCIATED WITH PHRAGMITES, DISTICHLIS SPICATA, SCIRPUS ACUTUS, RUMEX CRISPUS, AND JUNCUS. LILAEOPSIS MASONII, A STATE LISTED RARE PLANT, GROWS ALONG THE WATER'S EDGE.
Threat: GRAZING AND FISHING ARE PRESENT THREATS; POSSIBLE IMPACTS FROM BANK MODIFICATION FOR WETLAND RESTORATION PROJECT.
General: APPROX. 25 PLANTS OBSERVED IN 1991. ADDITIONAL PLANTS OBSERVED IN 1992. SITE HAS SOME RIP-RAP, FISHING MAY LEAD TO TRAMPLING, AND GRAZING OCCURS. OWNED BY CATELLUS CORPORATION.
Owner/Manager: PVT

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G5T2 CNPS List: 1B.2
 State: None State: S2.2

Habitat Associations _____
 General: FRESHWATER AND BRACKISH MARSHES.
 Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 49 Map Index: 24967 EO Index: 15642 Dates Last Seen _____
 Occ Rank: Unknown Element: 1988-XX-XX
 Origin: Natural/Native occurrence Site: 1988-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1994-02-10

Quad Summary: Rio Vista (3812126/480B)
 County Summary: Solano

Lat/Long: 38.24109° / -121.66332° Township: 05N
 UTM: Zone-10 N4233409 E616974 Range: 03E
 Area: 15.6 acres Mapping Precision: SPECIFIC Section: 32 Qtr: XX
 Elevation: 0 ft Symbol Type: POLYGON Meridian: M

Location: RYER ISLAND ALONG MINER SLOUGH, APPROX. 1 KM (0.5 MI) FROM THE SOUTHWEST TIP OF PROSPECT ISLAND.
 Location Detail: ALONG WATER SIDE OF LEVEE NEAR MOUTH OF MINER SLOUGH.
 General: MAP DETAIL IS ONLY SOURCE OF INFORMATION FOR THIS SITE. SITE QUALITY, POPULATION TRENDS, AND ECOLOGICAL INFORMATION NEEDED.
 Owner/Manager: UNKNOWN

Occurrence No. 51 Map Index: 24990 EO Index: 6308 Dates Last Seen _____
 Occ Rank: Poor Element: 1991-03-15
 Origin: Natural/Native occurrence Site: 1991-03-15
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1994-09-07

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.25882° / -121.80975° Township: 05N
 UTM: Zone-10 N4235202 E604133 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 24 Qtr: SE
 Elevation: 0 ft Symbol Type: POINT Meridian: M

Location: NORTH BANK OF CALHOUN CUT, APPROX 400 METERS (1/4 MILE) WEST OF HIGHWAY 113.
 Location Detail: FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONS. EASEMENT.
 Ecological: INTERTIDAL SCIRPUS ACUTUS AND SALIX HINDSIANA MARSH.
 Threat: MARSH SEVERELY DAMAGED BY EXHAUSTIVE SHEEP GRAZING.
 General: 2 PLANTS OBSERVED IN 1991 (THERE MAY BE MORE). WITHAM AND KAREOFELAS SUGGEST THAT TEMPORARY ELECTRIC FENCING SHOULD BE USED TO KEEP SHEEP OUT OF MARSH DURING GROWING SEASON/YEAR-ROUND.
 Owner/Manager: SOLANO LAND TRUST

Occurrence No. 52 Map Index: 24989 EO Index: 6307 Dates Last Seen _____
 Occ Rank: Good Element: 1994-07-XX
 Origin: Natural/Native occurrence Site: 1994-07-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1998-10-29

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.26044° / -121.77651° Township: 05N
 UTM: Zone-10 N4235420 E607039 Range: 02E
 Area: 222.5 acres Mapping Precision: SPECIFIC Section: 20 Qtr: XX
 Elevation: 5 ft Symbol Type: POLYGON Meridian: M

Location: BARKER SLOUGH, CALHOUN CUT AND LINDSAY SLOUGH, ABOUT 1-1.5 MILES UP EACH SLOUGH FROM THEIR MUTUAL CONFLUENCE.
 Location Detail: ACTUAL DISTRIBUTION OF LATHYRUS IS 2.1 MILES UP CALHOUN CUT, 1.3 MILE UP BARKER SLOUGH, AND 1.1 MILES UP LINDSEY SLOUGH. LILAEOPSIS MASONII #70 OVERLAPS THIS OCCURRENCE.
 Ecological: GROWING WITHIN MIXED WILLOW SCRUB JUST ABOVE TIDAL ZONE. ASSOCIATED WITH ROSA CALIFORNICA AND SALIX EXIGUA. OTHER RARE PLANTS NEARBY INCLUDE ASTER LENTUS, LILAEOPSIS MASONII, AND LIMOSELLA SUBULATA.
 Threat: NO THREATS NOTED IN 1994.
 General: 25 PATCHES OF PLANTS OBSERVED IN 1994.
 Owner/Manager: DFG-CALHOUN CUT ER, PVT

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES.
Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 53	Map Index: 24962	EO Index: 6306	Dates Last Seen
Occ Rank: Unknown			Element: 1988-XX-XX
Origin: Natural/Native occurrence			Site: 1988-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1994-02-10

Quad Summary: Liberty Island (3812136/497C)
County Summary: Solano

Lat/Long: 38.30275° / -121.72973°	Township: 05N
UTM: Zone-10 N4240170 E611068	Range: 02E
Area: 210.7 acres	Section: 2
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: HASS SLOUGH AND CACHE SLOUGH, ADJACENT TO THE SOUTHEAST END OF PETERS POCKET.
Location Detail: ALONG ISLANDS AND SHORELINE OF HASS SLOUGH FROM MOUTH UPSTREAM 3 KM AND ALONG SHORES OF CACHE SLOUGH FROM TIP OF PETERS POCKET UPSTREAM TO HASTINGS CUT.
General: 12 COLONIES OBSERVED IN 1988. MAP DETAIL IS ONLY SOURCE OF INFORMATION. SITE QUALITY AND ECOLOGICAL INFORMATION NEEDED.
Owner/Manager: UNKNOWN

Occurrence No. 54	Map Index: 24961	EO Index: 6305	Dates Last Seen
Occ Rank: Unknown			Element: 1988-XX-XX
Origin: Natural/Native occurrence			Site: 1988-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-12-15

Quad Summary: Liberty Island (3812136/497C)
County Summary: Solano

Lat/Long: 38.29670° / -121.74571°	Township: 05N
UTM: Zone-10 N4239479 E609680	Range: 02E
Area: 10.1 acres	Section: 10
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: CACHE SLOUGH, NORTH BANK OF SLOUGH 2 KM (1.2 MI) WEST OF THE SOUTHEAST TIP OF PETERS POCKET.
General: MAP DETAIL IS ONLY SOURCE OF INFORMATION FOR THIS SITE. ECOLOGICAL AND SITE QUALITY INFORMATION NEEDED.
Owner/Manager: UNKNOWN

Occurrence No. 55	Map Index: 24984	EO Index: 8097	Dates Last Seen
Occ Rank: Fair			Element: 1989-10-25
Origin: Natural/Native occurrence			Site: 1989-10-25
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1993-12-27

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.23908° / -122.03951°	Township: 05N
UTM: Zone-10 N4232778 E584054	Range: 02W
Radius: 80 meters	Section: 36
Elevation: 0 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: SUISUN CITY, WEST BANK OF SUISUN SLOUGH.
Location Detail: GROWING APPROX. 50 METERS (150') NORTH OF THE EAST END OF SOLANO STREET.
Ecological: GROWING IN NARROW STRIP BETWEEN WATER'S EDGE AND MOWN LAWN/PAVED AREA. ASSOCIATED WITH GRINDELIA HUMILIS, PHRAGMITES COMMUNIS, AMBROSIA PSILOSTACHYA, AND ATRIPLEX PATULA VAR. HASTATA.
Threat: FUTURE FLOOD AND EROSION CONTROL PROJECTS POSE POTENTIAL THREATS.
General: APPROX. 5 PLANTS OBSERVED IN 1989. SITE IS WITHIN A PRIVATELY OWNED MARINA. 1903 COLLECTION BY BAKER FROM SUISUN ATTRIBUTED TO THIS SITE.
Owner/Manager: PVT

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES.
Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 75	Map Index: 37673	EO Index: 32675	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-09

Quad Summary: Honker Bay (3812118/481C), Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.12548° / -121.91601°	Township: 03N
UTM: Zone-10 N4220292 E595010	Range: 01W
Radius: 1/10 mile	Section: 12
Elevation: 5 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: MONTEZUMA SLOUGH ALONG EAST SIDE OF GRIZZLY ISLAND, WEST SIDE OF SLOUGH ABOUT 1.2 MILES SOUTH OF MEINS LANDING.
Location Detail: SINGLE COLONY MAPPED IN 1994.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Occurrence No. 76	Map Index: 37675	EO Index: 32677	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-09

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.13575° / -121.91454°	Township: 03N
UTM: Zone-10 N4221433 E595125	Range: 01E
Area: 49.5 acres	Section: 06
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: MONTEZUMA SLOUGH ALONG EAST SIDE OF GRIZZLY ISLAND, WEST SIDE OF SLOUGH DOWNSTREAM FROM MEINS LANDING.
Location Detail: FROM OPPOSITE MEINS LANDING SOUTH ABOUT 0.5 MILES.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Occurrence No. 77	Map Index: 37677	EO Index: 32679	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-14

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.16396° / -121.93267°	Township: 04N
UTM: Zone-10 N4224545 E593500	Range: 01W
Area: 5.5 acres	Section: 25
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: MONTEZUMA SLOUGH ALONG NORTHEAST SIDE OF GRIZZLY ISLAND, ALONG W SIDE OF SLOUGH SOUTH OF CONFLUENCE WITH NURSE SLOUGH.
Location Detail: FOUR COLONIES MAPPED NEAR LEVEES ALONG THE SHORE OPPOSITE LINGOS LANDING.
General: MAIN SOURCES OF INFORMATION ARE MAP DETAIL (STATE LANDS COMMISSION 1999, DEPARTMENT OF WATER RESOURCES 1994).
Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G5T2 CNPS List: 1B.2
 State: None State: S2.2

Habitat Associations _____
 General: FRESHWATER AND BRACKISH MARSHES.
 Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 78 Map Index: 37678 EO Index: 32680 Dates Last Seen _____
 Occ Rank: Unknown Element: 1992-XX-XX
 Origin: Natural/Native occurrence Site: 1992-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-12-09

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.18051° / -121.91262° Township: 04N
 UTM: Zone-10 N4226402 E595235 Range: 01E
 Radius: 1/10 mile Mapping Precision: NON-SPECIFIC Section: 19 Qtr: XX
 Elevation: 5 ft Symbol Type: POINT Meridian: M

Location: SOUTH SIDE OF LITTLE HONKER BAY NORTHEAST OF GRIZZLY ISLAND, SUISUN MARSH.
 Location Detail: SINGLE COLONY ALONG SHORE ABOUT 1.5 MILES NORTHWEST OF SHILO CHURCH AT MONTEZUMA.
 General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
 Owner/Manager: UNKNOWN

Occurrence No. 79 Map Index: 37679 EO Index: 32681 Dates Last Seen _____
 Occ Rank: Unknown Element: 1999-XX-XX
 Origin: Natural/Native occurrence Site: 1999-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-09-14

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.18852° / -121.93025° Township: 04N
 UTM: Zone-10 N4227272 E593681 Range: 01W
 Area: 41.7 acres Mapping Precision: SPECIFIC Section: 13 Qtr: XX
 Elevation: 5 ft Symbol Type: POLYGON Meridian: M

Location: WEST SIDE OF NURSE SLOUGH WEST OF BRADMOOR ISLAND, NORTHEAST OF GRIZZLY ISLAND, SUISUN MARSH.
 Location Detail: FOUR COLONIES MAPPED IN 1992 AS ONE POLYGON AT CNDDB.
 General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR). ALSO REPORTED IN 1999 MAP BY STATE LANDS COMMISSION.
 Owner/Manager: UNKNOWN

Occurrence No. 80 Map Index: 37680 EO Index: 32682 Dates Last Seen _____
 Occ Rank: Unknown Element: 1999-XX-XX
 Origin: Natural/Native occurrence Site: 1999-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-09-14

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.18000° / -121.95440° Township: 04N
 UTM: Zone-10 N4226303 E591577 Range: 01W
 Area: 104.2 acres Mapping Precision: SPECIFIC Section: 22 Qtr: XX
 Elevation: 5 ft Symbol Type: POLYGON Meridian: M

Location: CROSS SLOUGH AND ADJACENT MONTEZUMA SLOUGH, SUISUN MARSH.
 Location Detail: MANY COLONIES MAPPED ALONG OR NEAR LEVEES FROM JUST WEST OF THE MOUTH TO THE LAST BEND AT THE NW END OF THE SLOUGH.
 General: MAIN SOURCE OF INFO IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR). ALSO REPORTED IN 1999 MAP BY STATE LANDS COMMISSION. INCLUDES FORMER OCC #81, 82.
 Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES.
Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 83	Map Index: 37683	EO Index: 32685	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-14

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.17612° / -121.95393°	Township: 04N
UTM: Zone-10 N4225873 E591622	Range: 01W
Area: 2.6 acres	Section: 22
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: NORTH SIDE OF MONTEZUMA SLOUGH OPPOSITE THE NE END OF GRIZZLY ISLAND, ACROSS FROM MOUTH OF FROST SLOUGH, SUISUN MARSH.
Location Detail: SINGLE COLONY MAPPED ALONG LEVEE.
General: SITE REPORTED IN 1999 MAP BY STATE LANDS COMMISSION AND 1994 REPORT BY DEPARTMENT OF WATER RESOURCES.
Owner/Manager: UNKNOWN

Occurrence No. 84	Map Index: 37684	EO Index: 32686	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-03-09

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.18647° / -121.98540°	Township: 04N
UTM: Zone-10 N4226991 E588854	Range: 01W
Area: 71.5 acres	Section: 16
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: NORTH SIDE OF MONTEZUMA SLOUGH OPPOSITE THE NORTH END OF GRIZZLY ISLAND, VICINITY OF BELDONS LANDING AND CUTOFF SLOUGH.
Location Detail: SEVERAL COLONIES MAPPED FROM JUST EAST OF BELDONS LANDING TO JUST WEST OF CUTOFF SLOUGH IN 1992. MAPPED AS THREE POLYGONS AT CNDDB.
General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR). 75 PLANTS REPORTED IN TWO OF THE COLONIES IN 1991 MAP BY P. ALLEN.
Owner/Manager: UNKNOWN

Occurrence No. 85	Map Index: 37685	EO Index: 32687	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-09

Quad Summary: Denverton (3812128/481B), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.16492° / -121.99494°	Township: 04N
UTM: Zone-10 N4224591 E588044	Range: 01W
Area: 117.8 acres	Section: 29
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: TREE SLOUGH, NORTH END OF GRIZZLY ISLAND.
Location Detail: NUMEROUS COLONIES MAPPED ALONG THE LENGTH OF THE SLOUGH IN 1992. MAPPED AS TWO LONG POLYGONS AT CNDDB.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES.
Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 86	Map Index: 37686	EO Index: 32688	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-14

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.19527° / -121.92841°	Township: 04N
UTM: Zone-10 N4228023 E593833	Range: 01W
Area: 1.8 acres	Mapping Precision: SPECIFIC
Elevation: 5 ft	Section: 13
	Meridian: M
	Qtr: XX
	Symbol Type: POLYGON

Location: NORTH SIDE OF NURSE SLOUGH NEAR CONFLUENCE WITH DENVERTON SLOUGH AND 1 MILE SE OF LUCO HILL, SUISUN MARSH.
Location Detail: SINGLE COLONY MAPPED NEAR LEVEE.
General: SITE REPORTED IN 1999 MAP BY STATE LANDS COMMISSION AND 1994 REPORT BY DEPARTMENT OF WATER RESOURCES.
Owner/Manager: UNKNOWN

Occurrence No. 90	Map Index: 37694	EO Index: 32696	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-03-08

Quad Summary: Denverton (3812128/481B), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.18616° / -122.01388°	Township: 04N
UTM: Zone-10 N4226930 E586360	Range: 01W
Area: 166.5 acres	Mapping Precision: SPECIFIC
Elevation: 5 ft	Section: 19
	Meridian: M
	Qtr: XX
	Symbol Type: POLYGON

Location: SOUTH OF POTRERO HILLS ALONG CUTOFF SLOUGH, SECOND MALLARD BRANCH, AND MONTEZUMA SLOUGH, SUISUN MARSH.
Location Detail: NUMEROUS COLONIES MAPPED ALONG THE SLOUGH IN VICINITY OF MORROW ISLAND FARM, 1992.
General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR). 21 PLANTS SEEN WITHIN THIS AREA IN 1991.
Owner/Manager: UNKNOWN

Occurrence No. 91	Map Index: 37695	EO Index: 32697	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-11

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.16917° / -122.02114°	Township: 04N
UTM: Zone-10 N4225038 E585744	Range: 01W
Radius: 1/10 mile	Mapping Precision: NON-SPECIFIC
Elevation: 5 ft	Section: 30
	Meridian: M
	Qtr: XX
	Symbol Type: POINT

Location: SOUTH SIDE OF MONTEZUMA SLOUGH ALONG GRIZZLY ISLAND, NEAR THE GRIZZLY ISLAND CLUB.
Location Detail: SINGLE COLONY MAPPED IN 1992.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tulle pea

Element Code: PDFAB250D2

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G5T2 CNPS List: 1B.2
 State: None State: S2.2

Habitat Associations _____
 General: FRESHWATER AND BRACKISH MARSHES.
 Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 92 Map Index: 37696 EO Index: 32698 Dates Last Seen _____
 Occ Rank: Unknown Element: 1992-XX-XX
 Origin: Natural/Native occurrence Site: 1992-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-12-11

Quad Summary: Fairfield South (3812221/482A)
 County Summary: Solano

Lat/Long: 38.17064° / -122.02649° Township: 04N
 UTM: Zone-10 N4225196 E585274 Range: 02W
 Radius: 1/10 mile Mapping PrecisionNON-SPECIFIC Section: 25 Qtr: XX
 Elevation: 5 ft Symbol Type:POINT Meridian: M

Location: NORTH SIDE OF MONTEZUMA SLOUGH ALONG JOICE ISLAND, BETWEEN MONTEZUMA CLUB AND GRIZZLY ISLAND CLUB.
 Location Detail: SINGLE COLONY MAPPED IN 1992.
 General: MAPPED FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR). 1951 COLLECTION BY CARTER FROM JOICE ISLAND STATE GAME REFUGE ATTRIBUTED TO THIS SITE.
 Owner/Manager: UNKNOWN

Occurrence No. 93 Map Index: 37697 EO Index: 32699 Dates Last Seen _____
 Occ Rank: Unknown Element: 1992-XX-XX
 Origin: Natural/Native occurrence Site: 1992-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-12-11

Quad Summary: Fairfield South (3812221/482A)
 County Summary: Solano

Lat/Long: 38.17210° / -122.03302° Township: 04N
 UTM: Zone-10 N4225352 E584700 Range: 02W
 Radius: 1/10 mile Mapping PrecisionNON-SPECIFIC Section: 24 Qtr: XX
 Elevation: 5 ft Symbol Type:POINT Meridian: M

Location: NORTH SIDE OF MONTEZUMA SLOUGH ALONG JOICE ISLAND, OPPOSITE FROM THE MONTEZUMA CLUB.
 Location Detail: SINGLE COLONY MAPPED IN 1992.
 General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
 Owner/Manager: UNKNOWN

Occurrence No. 94 Map Index: 37698 EO Index: 32700 Dates Last Seen _____
 Occ Rank: Unknown Element: 1992-XX-XX
 Origin: Natural/Native occurrence Site: 1992-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-12-11

Quad Summary: Fairfield South (3812221/482A)
 County Summary: Solano

Lat/Long: 38.17036° / -122.03984° Township: 04N
 UTM: Zone-10 N4225152 E584105 Range: 02W
 Area: 19.4 acres Mapping PrecisionSPECIFIC Section: 25 Qtr: XX
 Elevation: 5 ft Symbol Type:POLYGON Meridian: M

Location: NORTHWEST SIDE OF MONTEZUMA SLOUGH ALONG JOICE ISLAND, WEST OF THE MONTEZUMA CLUB.
 Location Detail: TWO COLONIES MAPPED IN 1992.
 General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
 Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tulle pea

Element Code: PDFAB250D2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES.
Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 95	Map Index: 37703	EO Index: 32705	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.16528° / -122.04572°	Township: 04N
UTM: Zone-10 N4224583 E583595	Range: 02W
Radius: 1/10 mile	Section: 26
Elevation: 5 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: WEST SIDE OF MONTEZUMA SLOUGH ALONG JOICE ISLAND, ABOUT 0.75 MILE NORTH OF HUNTER CUT.
Location Detail: SINGLE COLONY MAPPED IN 1992.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Occurrence No. 96	Map Index: 37705	EO Index: 32707	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.14925° / -122.05810°	Township: 04N
UTM: Zone-10 N4222794 E582529	Range: 02W
Area: 22.9 acres	Section: 35
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: WEST SIDE OF MONTEZUMA SLOUGH ALONG JOICE ISLAND, ABOUT 0.3-0.7 MILE SOUTH OF HUNTER CUT.
Location Detail: TWO COLONIES MAPPED IN 1992.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Occurrence No. 97	Map Index: 37706	EO Index: 32708	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.13656° / -122.06240°	Township: 03N
UTM: Zone-10 N4221382 E582166	Range: 02W
Area: 14.1 acres	Section: 02
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: WEST SIDE OF MONTEZUMA SLOUGH ALONG JOICE ISLAND, ABOUT 1.5 MILES SOUTH OF HUNTER CUT NEAR MOUTH OF SLOUGH.
Location Detail: TWO COLONIES MAPPED IN 1992.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES.
Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 98	Map Index: 37707	EO Index: 32709	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.21381° / -122.03537°	Township: 04N
UTM: Zone-10 N4229978 E584446	Range: 02W
Area: 52.2 acres	Section: 12
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: UPPER SUISUN SLOUGH FROM BOYNTON SLOUGH NORTH TO RUSH LANDING, SUISUN MARSH.
Location Detail: SEVERAL COLONIES MAPPED IN 1992.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Occurrence No. 99	Map Index: 37708	EO Index: 32710	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.22112° / -122.02941°	Township: 04N
UTM: Zone-10 N4230794 E584959	Range: 02W
Area: 45.8 acres	Section: 01
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: UPPER SUISUN SLOUGH AT MOUTH OF HILL SLOUGH, SUISUN MARSH.
Location Detail: SEVERAL COLONIES MAPPED IN 1992.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR). SEVERAL OLD COLLECTIONS FROM SUISUN MARSHES ATTRIBUTED TO THIS SITE.
Owner/Manager: UNKNOWN

Occurrence No. 100	Map Index: 37709	EO Index: 32711	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.22478° / -122.05363°	Township: 04N
UTM: Zone-10 N4231178 E582835	Range: 02W
Area: 46.0 acres	Section: 02
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: UPPER PEYTONIA SLOUGH ALONG BOTH SIDES OF RR TRACKS, SUISUN MARSH.
Location Detail: SEVERAL COLONIES MAPPED IN 1992.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES.
Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 101	Map Index: 37710	EO Index: 32712	Dates Last Seen
Occ Rank: Unknown			Element: 2000-09-27
Origin: Natural/Native occurrence			Site: 2000-09-27
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-11-25

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.22586° / -122.01197°	Township: 04N
UTM: Zone-10 N4231336 E586480	Range: 01W
Radius: 80 meters	Section: 06
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: HILL SLOUGH ABOUT 0.9 MILE NNE OF SUISUN HILL, SUISUN MARSH.
Location Detail: SINGLE COLONY MAPPED IN 1992.
Threat: CATTLE GRAZING AND TRAMPLING MAY THREATEN.
General: MAIN SOURCE OF INFO IS MAP FROM "SUMMARY OF SENSITIVE PLANT & WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR). UNKNOWN NUMBER OF PLANTS SEEN ALONG HILL SLOUGH DURING 2000 SURVEY FOR CORDYLANTHUS MOLLIS SSP. MOLLIS.
Owner/Manager: UNKNOWN

Occurrence No. 102	Map Index: 37711	EO Index: 32713	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.20558° / -122.06125°	Township: 04N
UTM: Zone-10 N4229041 E582190	Range: 02W
Area: 28.7 acres	Section: 11
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: UPPER BOYNTON SLOUGH ALONG BOTH SIDES OF RR TRACKS, SUISUN MARSH.
Location Detail: SEVERAL COLONIES MAPPED IN 1992 TWO POLYGONS AT CNDDB.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Occurrence No. 103	Map Index: 37712	EO Index: 32714	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.20221° / -122.04119°	Township: 04N
UTM: Zone-10 N4228685 E583950	Range: 02W
Area: 67.3 acres	Section: 14
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: SHELDRAKE SLOUGH & ADJACENT SUISUN SLOUGH, FROM MOUTH OF SHELDRAKE SLOUGH NORTH ABOUT 0.7 MILE, SUISUN MARSH.
Location Detail: SEVERAL COLONIES MAPPED IN 1992.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5T2 **CNPS List:** 1B.2
 State: None **State:** S2.2

Habitat Associations _____
General: FRESHWATER AND BRACKISH MARSHES.
Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 104 **Map Index:** 37713 **EO Index:** 32715 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1992-XX-XX
Origin: Natural/Native occurrence **Site:** 1992-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.19114° / -122.04015° **Township:** 04N
UTM: Zone-10 N4227458 E584053 **Range:** 02W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 13 **Qtr:** XX
Elevation: 5 ft **Symbol Type:**POINT **Meridian:** M

Location: NORTH SIDE OF SUISUN SLOUGH ABOUT 0.5 MILE SOUTH OF THE MOUTH OF SHELDRAKE SLOUGH, SUISUN MARSH.
Location Detail: SINGLE COLONY MAPPED IN 1992.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Occurrence No. 105 **Map Index:** 37714 **EO Index:** 32716 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1992-XX-XX
Origin: Natural/Native occurrence **Site:** 1992-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2000-03-09

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.17898° / -122.05690° **Township:** 04N
UTM: Zone-10 N4226094 E582600 **Range:** 02W
Area: 108.9 acres **Mapping Precision:**SPECIFIC **Section:** 23 **Qtr:** XX
Elevation: 5 ft **Symbol Type:**POLYGON **Meridian:** M

Location: SUISUN SLOUGH IN VICINTIY OF NAVY POINT, SUISUN MARSH.
Location Detail: MAPPED ALONG ALONG BOTH SIDES OF SLOUGH FROM ABOUT 0.6 MILE NE OF POINT TO 0.7 MILE SE OF POINT. SEVERAL COLONIES MAPPED IN 1992.
General: MAIN SOURCES OF MAP DETAIL FOR THIS SITE ARE "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR) AND 1991 MAP BY P. ALLEN.
Owner/Manager: UNKNOWN

Occurrence No. 106 **Map Index:** 37716 **EO Index:** 32718 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1992-XX-XX
Origin: Natural/Native occurrence **Site:** 1992-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.17255° / -122.06114° **Township:** 04N
UTM: Zone-10 N4225376 E582236 **Range:** 02W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 23 **Qtr:** XX
Elevation: 5 ft **Symbol Type:**POINT **Meridian:** M

Location: NORTH SIDE OF SUISUN SLOUGH JUST EAST OF WELLS SLOUGH, SUISUN MARSH.
Location Detail: SINGLE COLONY MAPPED IN 1992.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES.
Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 107	Map Index: 37717	EO Index: 32719	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.18206° / -122.06980°	Township: 04N
UTM: Zone-10 N4226424 E581467	Range: 02W
Radius: 80 meters	Section: 22
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: ALONG WELLS SLOUGH ABOUT 0.2 MILE NORTHEAST OF CONFLUENCE WITH CHADBOURNE SLOUGH, SUISUN MARSH.
Location Detail: SINGLE COLONY MAPPED IN 1992.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Occurrence No. 108	Map Index: 37718	EO Index: 32720	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-03-08

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.18619° / -122.09389°	Township: 04N
UTM: Zone-10 N4226861 E579353	Range: 02W
Area: 82.1 acres	Section: 16
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: CHADBOURNE SLOUGH, ABOUT 1-2 MILES WEST OF CONFLUENCE WITH WELLS SLOUGH, SUISUN MARSH.
Location Detail: SEVERAL COLONIES MAPPED IN 1992.
General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR). 72 PLANTS SEEN WITHIN THIS AREA IN 1991.
Owner/Manager: UNKNOWN

Occurrence No. 109	Map Index: 37719	EO Index: 32721	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.19733° / -122.12030°	Township: 04N
UTM: Zone-10 N4228075 E577028	Range: 02W
Area: 18.7 acres	Section: 18
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: UPPER CORDELIA SLOUGH, ABOUT 1.5 MILES SSW OF THE SPRR AT THOMASSON, SUISUN MARSH.
Location Detail: SEVERAL COLONIES MAPPED IN 1992 AS TWO POLYGONS AT CNDDB.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tulle pea

Element Code: PDFAB250D2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES.
Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 110	Map Index: 37720	EO Index: 32722	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.18561° / -122.11740°	Township: 04N
UTM: Zone-10 N4226777 E577294	Range: 02W
Area: 137.2 acres	Section: 17
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: CORDELIA SLOUGH, ABOUT 1.5-2.5 MILES SOUTH OF THE SPRR AT THOMASSON, SUISUN MARSH.
Location Detail: SEVERAL COLONIES MAPPED IN 1992.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Occurrence No. 111	Map Index: 37721	EO Index: 32723	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.17315° / -122.10086°	Township: 04N
UTM: Zone-10 N4225408 E578756	Range: 02W
Area: 156.4 acres	Section: 20
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: VICINITY OF FRANK HORAN SLOUGH, FROM 0.5-1.3 MILES WEST OF TEAL AND 0.5-1 MILE SOUTH OF CHADBOURNE SLOUGH, SUISUN MARSH.
Location Detail: SEVERAL COLONIES MAPPED IN 1992.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
Owner/Manager: UNKNOWN

Occurrence No. 112	Map Index: 37722	EO Index: 32724	Dates Last Seen
Occ Rank: Good			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.15710° / -122.09983°	Township: 04N
UTM: Zone-10 N4223628 E578864	Range: 02W
Area: 194.6 acres	Section: 32
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: CORDELIA SLOUGH, FROM 0.3 MILE NW OF IBIS CUT TO 0.2 MILE EAST OF CYGNUS (SPRR), SUISUN MARSH.
Location Detail: SEVERAL COLONIES MAPPED IN 1991, 1992.
General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR). CUNEO VISITED PART OF SITE IN 1989. 172 PLANTS SEEN IN 1991 (ALLEN).
Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tulle pea

Element Code: PDFAB250D2

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G5T2 CNPS List: 1B.2
 State: None State: S2.2

Habitat Associations _____
 General: FRESHWATER AND BRACKISH MARSHES.
 Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 113 Map Index: 37723 EO Index: 32725 Dates Last Seen _____
 Occ Rank: Unknown Element: 1992-XX-XX
 Origin: Natural/Native occurrence Site: 1992-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-03-09

Quad Summary: Fairfield South (3812221/482A)
 County Summary: Solano

Lat/Long: 38.14438° / -122.09028° Township: 04N
 UTM: Zone-10 N4222225 E579715 Range: 02W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 33 Qtr: XX
 Elevation: 5 ft Symbol Type: POINT Meridian: M

Location: CORDELIA SLOUGH, ABOUT 0.7 MILE DUE SOUTH OF CYGNUS (SPRR), SUISUN MARSH.
 Location Detail: SINGLE COLONY MAPPED IN 1991, 1992.
 General: MAIN SOURCES OF INFORMATION FOR THIS SITE ARE 1991 MAP BY P. ALLEN AND MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
 Owner/Manager: UNKNOWN

Occurrence No. 114 Map Index: 37724 EO Index: 32726 Dates Last Seen _____
 Occ Rank: Unknown Element: 1992-XX-XX
 Origin: Natural/Native occurrence Site: 1992-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
 County Summary: Solano

Lat/Long: 38.13211° / -122.08747° Township: 03N
 UTM: Zone-10 N4220866 E579974 Range: 02W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 04 Qtr: XX
 Elevation: 5 ft Symbol Type: POINT Meridian: M

Location: GOODYEAR SLOUGH, ABOUT 0.25 MILE SOUTH OF CONFLUENCE WITH CORDELIA SLOUGH, SUISUN MARSH.
 Location Detail: SINGLE COLONY MAPPED IN 1992.
 General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
 Owner/Manager: UNKNOWN

Occurrence No. 115 Map Index: 37726 EO Index: 32728 Dates Last Seen _____
 Occ Rank: Unknown Element: 1992-XX-XX
 Origin: Natural/Native occurrence Site: 1992-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-12-15

Quad Summary: Fairfield South (3812221/482A)
 County Summary: Solano

Lat/Long: 38.12828° / -122.09664° Township: 03N
 UTM: Zone-10 N4220433 E579174 Range: 02W
 Area: 23.9 acres Mapping Precision: SPECIFIC Section: 04 Qtr: XX
 Elevation: 5 ft Symbol Type: POLYGON Meridian: M

Location: GOODYEAR SLOUGH ALONG NORTH SIDE OF MORROW ISLAND, ABOUT 0.1-0.5 MILE EAST OF PIERCE (SPRR) SUISUN SLOUGH.
 Location Detail: SEVERAL COLONIES MAPPED IN 1992.
 General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).
 Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES.

Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 116	Map Index: 37727	EO Index: 32729	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-15

Quad Summary: Vine Hill (3812211/482D), Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.12698° / -122.08290°	Township: 03N
UTM: Zone-10 N4220301 E580380	Range: 02W
Area: 32.6 acres	Section: 10
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: SUISUN SLOUGH ABOUT 0.5-1 MILE SOUTH OF CONFLUENCE WITH CORDELIA SLOUGH, SUISUN SLOUGH.

Location Detail: SEVERAL COLONIES MAPPED IN 1992.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP FROM 1994 REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994 (DWR).

Owner/Manager: UNKNOWN

Occurrence No. 117	Map Index: 43737	EO Index: 43737	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-14

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.21301° / -121.92441°	Township: 04N
UTM: Zone-10 N4229996 E594161	Range: 01W
Area: 1.3 acres	Section: 12
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: LUCO SLOUGH, WEST BRANCH OF SLOUGH ABOUT 1 MILE NORTH OF CONFLUENCE WITH NURSE SLOUGH, SUISUN MARSH.

Location Detail: SINGLE COLONY MAPPED NEAR LEVEE.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1999 MAP BY STATE LANDS COMMISSION.

Owner/Manager: UNKNOWN

Occurrence No. 118	Map Index: 43738	EO Index: 43738	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-14

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.20667° / -121.92378°	Township: 04N
UTM: Zone-10 N4229293 E594224	Range: 01W
Area: 1.2 acres	Section: 12
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: LUCO SLOUGH, NORTH END OF ISLAND AT FORK IN SLOUGH ABOUT 0.5 MILE NORTH OF CONFLUENCE WITH NURSE SLOUGH, SUISUN MARSH.

Location Detail: SINGLE COLONY MAPPED NEAR LEVEE.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1999 MAP BY STATE LANDS COMMISSION.

Owner/Manager: UNKNOWN

Lathyrus jepsonii var. jepsonii

Delta tule pea

Element Code: PDFAB250D2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES.
Micro: OFTEN FOUND W/ TYPHA, ASTER LENTUS, ROSA CALIF., JUNCUS SPP., SCIRPUS, ETC. USUALLY ON MARSH AND SLOUGH EDGES.

Occurrence No. 119	Map Index: 43739	EO Index: 43739	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-14

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.18810° / -121.94298°	Township: 04N
UTM: Zone-10 N4227213 E592567	Range: 01W
Area: 4.6 acres	Section: 14
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: HASTING SLOUGH, ABOUT 0.5 MILE UPSTREAM FROM CONFLUENCE WITH CROSS SLOUGH, SUISUN MARSH.

Location Detail: THREE COLONIES MAPPED NEAR LEVEES ALONG THE SLOUGH.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1999 MAP BY STATE LANDS COMMISSION.

Owner/Manager: UNKNOWN

Occurrence No. 120	Map Index: 43740	EO Index: 43740	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-14

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.18512° / -121.91206°	Township: 04N
UTM: Zone-10 N4226914 E595278	Range: 01E
Area: 1.6 acres	Section: 18
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: BRADMOOR ISLAND, NORTH SIDE OF LITTLE HONKER BAY, SUISUN MARSH.

Location Detail: SINGLE COLONY MAPPED NEAR LEVEE.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1999 MAP BY STATE LANDS COMMISSION.

Owner/Manager: UNKNOWN

Occurrence No. 121	Map Index: 43741	EO Index: 43741	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-14

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.17206° / -121.92825°	Township: 04N
UTM: Zone-10 N4225448 E593877	Range: 01W
Area: 1.1 acres	Section: 24
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: NORTH OF KIRBY HILL, ALONG SOUTH SIDE OF NURSE SLOUGH OPPOSITE MOUTH OF CROSS SLOUGH, SUISUN MARSH.

Location Detail: SINGLE COLONY MAPPED NEAR LEVEE.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1999 MAP BY STATE LANDS COMMISSION.

Owner/Manager: UNKNOWN

Legenere limosa

legenere

Element Code: PDCAM0C010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.1
State: None	State: S2.2	

Habitat Associations

General: VERNAL POOLS. MANY HISTORICAL OCCURRENCES ARE EXTIRPATED.
Micro: IN BEDS OF VERNAL POOLS. 1-880M.

Occurrence No. 1	Map Index: 10590	EO Index: 6806	Dates Last Seen
Occ Rank: Good			Element: 1994-05-04
Origin: Natural/Native occurrence			Site: 1994-05-04
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1996-01-02

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25839° / -121.80464°	Township: 05N
UTM: Zone-10 N4235160 E604581	Range: 02E
Radius: 80 meters	Section: 19
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: CALHOUN CUT ECOLOGICAL RESERVE, MARGIN OF BARKERS SLOUGH ALONG DIXON-RIO VISTA RD (HWY 113), 5.2 MI N OF JCT W/HWY 12.
Location Detail: SOUTH SIDE OF SLOUGH. LEGENERE FOUND IN WETTER AREAS NEAR BOTTOM OF DEPRESSION.
Ecological: MARGINS OF SLOUGH WITH DOWNINGIA PUSILLA, CRASSULA AQUATICA, LASTHENIA GLABERRIMA, & PLAGIOBOTHRYUS UNDULATUS.
Threat: SLOUGH ALTERED BY PIPELINE CONSTRUCTION BUT VERNAL POOL HABITAT REMAINS. NONNATIVE PHYLLA NODIFLORA MAY ALSO THREATEN.
General: ABUNDANT IN 1961. SEARCHED FOR BUT NOT FOUND 1975, 1980, 1983. SEEN IN 1991, OVER 100 PLANTS IN 1994.
Owner/Manager: DFG-CALHOUN CUT ER

Occurrence No. 2	Map Index: 09829	EO Index: 17390	Dates Last Seen
Occ Rank: None			Element: 1892-05-03
Origin: Natural/Native occurrence			Site: 1983-05-22
Presence: Extirpated			
Trend: Unknown			Record Last Updated: 2008-01-15

Quad Summary: Fairfield South (3812221/482A), Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.25379° / -122.02497°	Township: 05N
UTM: Zone-10 N4234424 E585310	Range: 02W
Radius: 1 mile	Section: 30
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: RAILROAD TRACK ABOUT 1 MILE NORTH AND 1 MILE EAST OF SUISUN STATION.
Location Detail: TRENCHES ALONG RAILROAD.
Threat: SITE HAS BEEN DISTURBED BY DEVELOPMENT, ORV USE, AND WASTE DUMPING.
General: OCCURRENCE KNOWN ONLY FROM TWO 1892 COLLECTIONS BY BRANDEGEE. HOLLAND ATTEMPTED TO RELOCATE SITE IN 1983, BUT NO SUITABLE HABITAT COULD BE FOUND. OCCURRENCE HAS BEEN EXTIRPATED.
Owner/Manager: UNKNOWN

Occurrence No. 3	Map Index: 23957	EO Index: 7224	Dates Last Seen
Occ Rank: None			Element: 1890-05-XX
Origin: Natural/Native occurrence			Site: 1983-05-22
Presence: Extirpated			
Trend: Unknown			Record Last Updated: 1993-07-22

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.35022° / -121.90850°	Township: 06N
UTM: Zone-10 N4245237 E595374	Range: 01E
Radius: 1 mile	Section: 19
Elevation: 70 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: LOWER SACRAMENTO VALLEY, NEAR ELMIRA.
Ecological: OBSERVED GROWING IN FIELDS IN 1890.
Threat: AGRICULTURAL DEVELOPMENT HAS ELIMINATED HABITAT FOR LEGENERE IN THIS VICINITY.
General: TYPE LOCALITY. SEARCHED FOR IN 1983 BUT NOT FOUND; SITE EXTIRPATED ACCORDING TO HOLLAND (1983).
Owner/Manager: UNKNOWN

Legenere limosa

legenere

Element Code: PDCAM0C010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.1
State: None	State: S2.2	

Habitat Associations

General: VERNAL POOLS. MANY HISTORICAL OCCURRENCES ARE EXTIRPATED.
Micro: IN BEDS OF VERNAL POOLS. 1-880M.

Occurrence No. 15	Map Index: 10341	EO Index: 17381	Dates Last Seen
Occ Rank: Unknown			Element: 1985-04-14
Origin: Natural/Native occurrence			Site: 1985-04-14
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1989-08-11

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.21935° / -121.88051°	Township: 04N
UTM: Zone-10 N4230745 E597996	Range: 01E
Radius: 1/5 mile	Section: 05
Elevation: 65 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: SOUTH SIDE OF LAMBIE RD, 0.45 MI EAST OF JCT W/HWY 12, SE OF DENVERTON.
Location Detail:JUST INSIDE FENCE.
Ecological: ASSOCIATED WITH LASTHENIA, DOWNINGIA, PSILOCARPHUS AND NAVARRETIA.
Owner/Manager: UNKNOWN

Occurrence No. 16	Map Index: 67507	EO Index: 6796	Dates Last Seen
Occ Rank: Good			Element: 1991-05-05
Origin: Natural/Native occurrence			Site: 1991-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-12-27

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26522° / -121.82980°	Township: 05N
UTM: Zone-10 N4235890 E602370	Range: 01E
Area: 25.0 acres	Section: 23
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: E
Symbol Type: POLYGON	

Location: SOUTH OF OLCOTT LAKE BETWEEN COOK LANE AND RAILROAD TRACKS, JEPSON PRAIRIE.
Location Detail:FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS AND OPEN SPACE ON 8/97. TNC RETAINS CONSERVATION EASEMENT.
Ecological: VERNAL POOLS AND SURROUNDING GRASSLAND. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA, LASTHENIA GLABERRIMA, AND OTHER RARE PLANTS: GRATIOLA HETEROSEPALA & DOWNINGIA PUSILLA.
Threat: LIGHT GRAZING.
General: INCLUDES FIVE POOLS/DITCHES: CANTEEN DITCH, BUNNY DITCH, HOLLAND POOL, BIG POOL, AND CORNER POOL AS NAMED BY WOODWARD AND BOYD. INCLUDES FORMER OCCURRENCE #20.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 17	Map Index: 10553	EO Index: 6811	Dates Last Seen
Occ Rank: Good			Element: 1985-04-06
Origin: Natural/Native occurrence			Site: 1985-04-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1993-12-30

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26073° / -121.82182°	Township: 05N
UTM: Zone-10 N4235400 E603075	Range: 01E
Radius: 80 meters	Section: 24
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: APPROX 0.7 AIRMI SOUTH OF OLCOTT LAKE, 0.1 MI E OF COOK LANE; JEPSON PRAIRIE.
Location Detail:FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONS. EASEMENT.
Ecological: IN BROAD, SHALLOW VERNAL POOL. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA, LASTHENIA GLABERRIMA.
Threat: LIGHT GRAZING.
General: FEWER THAN 50 PLANTS OBSERVED IN 1985.
Owner/Manager: SOLANO LAND TRUST

Legenere limosa

legenere

Element Code: PDCAM0C010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.1
State: None	State: S2.2	

Habitat Associations

General: VERNAL POOLS. MANY HISTORICAL OCCURRENCES ARE EXTIRPATED.
Micro: IN BEDS OF VERNAL POOLS. 1-880M.

Occurrence No. 18	Map Index: 10584	EO Index: 6803	Dates Last Seen
Occ Rank: Good			Element: 1985-05-22
Origin: Natural/Native occurrence			Site: 1985-05-22
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1993-12-30

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27204° / -121.80726°	Township: 05N
UTM: Zone-10 N4236672 E604333	Range: 01E
Radius: 80 meters	Section: 13
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: JEPSON PRAIRIE AT "DITCH POOL NEAR RD".
Location Detail: JUST WEST OF HWY 113, 0.8 KM (0.5 MI) SOUTH OF BRIDGE OVER BARKER SLOUGH. FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONS. EASEMENT.
Ecological: VERNAL POOL ASSOCIATED WITH ELEOCHARIS.
Threat: SHEEP GRAZING HAS CAUSED SEVERE DAMAGE.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 19	Map Index: 10566	EO Index: 6802	Dates Last Seen
Occ Rank: Good			Element: 1985-05-XX
Origin: Natural/Native occurrence			Site: 1985-05-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1993-12-30

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27690° / -121.81536°	Township: 05N
UTM: Zone-10 N4237202 E603617	Range: 01E
Area: 20.9 acres	Section: 13
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POLYGON	

Location: JEPSON PRAIRIE, 0.5 MI NE OF OLCOTT LAKE.
Location Detail: FOUR COLONIES MAPPED AS A SINGLE POLYGON 0.8 KM (0.5 MI) EAST OF COOK LANE AT RR TRACKS. FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONS. EASEMENT.
Ecological: VERNAL POOLS. ASSOCIATED WITH ELEOCHARIS.
General: INCLUDES FOUR POOLS: FENCE POOL, EUCALYPTUS POOL, CUT EUCALYPTUS POOL AND FIELD POOL, AS NAMED BY WOODWARD AND BOYD, 1985.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 23	Map Index: 24750	EO Index: 9221	Dates Last Seen
Occ Rank: Good			Element: 1991-04-30
Origin: Natural/Native occurrence			Site: 1991-04-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1993-12-29

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26560° / -121.86054°	Township: 05N
UTM: Zone-10 N4235898 E599681	Range: 01E
Area: 11.4 acres	Section: 22
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: 4.5 KM (2.5 MI) WSW OF DOZIER.
Location Detail: TWO COLONIES MAPPED AS ONE POLYGON APPROX. 2.2 KM (1.4 MI) SOUTH OF THE SACRAMENTO NORTHERN RR TRACKS AND 3.2 KM (2 MI) WEST OF COOK LANE.
Ecological: GROWING IN VERNAL POOLS WITH DOWNINGIA PUSILLA, LASTHENIA FREMONTII, PLEUROPOGON CALIFORNICUS, AND DESCHAMPSIA DANTHONIOIDES.
Threat: AREA OVERGRAZED BY CATTLE, POOLS DAMAGED BY CATTLE TRAMPLING AS EVIDENCED BY HOOFPRIENTS.
General: NONE.
Owner/Manager: PVT

Legenere limosa

legenere

Element Code: PDCAM0C010

Status: Federal: None
 State: None
 NDDB Element Ranks: Global: G2
 State: S2.2
 Other Lists: CNPS List: 1B.1

Habitat Associations

General: VERNAL POOLS. MANY HISTORICAL OCCURRENCES ARE EXTIRPATED.
 Micro: IN BEDS OF VERNAL POOLS. 1-880M.

Occurrence No. 24 Map Index: 24754 EO Index: 6813 Dates Last Seen: 1991-05-02
 Occ Rank: Good Element: 1991-05-02
 Origin: Natural/Native occurrence Site: 1991-05-02
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-10-03

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.25765° / -121.84308° Township: 05N
 UTM: Zone-10 N4235035 E601219 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 22 Qtr: SE
 Elevation: 30 ft Symbol Type: POINT Meridian: M

Location: 4 KM (2.4 MILES) SOUTHWEST OF DOZIER ALONG THE RAILROAD TRACKS.
 Location Detail: GROWING IN A POOL IN THE EXTREME SOUTHEAST CORNER OF SECTION 22, JUST WEST OF THE RAILROAD TRACKS.
 Ecological: GROWING IN A VERNAL POOL IN ASSOCIATION WITH ASTRAGALUS TENER TENER, DOWNINGIA PUSILLA, LEPIDIUM LATIPES, HORDEUM GENICULATUM, LASTHENIA FREMONTII, DESCHAMPSIA DANTHONIODES, AND VULPIA BROMOIDES.
 Owner/Manager: PVT

Occurrence No. 25 Map Index: 30195 EO Index: 12959 Dates Last Seen: 1990-04-03
 Occ Rank: Good Element: 1990-04-03
 Origin: Natural/Native occurrence Site: 1990-04-03
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1995-11-01

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.25448° / -121.80253° Township: 05N
 UTM: Zone-10 N4234728 E604772 Range: 02E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 30 Qtr: NW
 Elevation: 10 ft Symbol Type: POINT Meridian: M

Location: CALHOUN CUT ECOLOGICAL RESERVE, 0.25 MILE SOUTH OF CALHOUN CUT AND 0.15 MILE EAST OF HIGHWAY 113, SOUTHEAST OF DOZIER.
 Location Detail: MAPPED WITHIN THE NW 1/4 OF THE NW 1/4 OF SECTION 30.
 Ecological: VERNAL POOL. ASSOCIATED WITH PLAGIOBOTHRYIS STIPITATUS, LILAEA SCILLOIDES, AND DOWNINGIA PUSILLA.
 General: 100'S TO 1000'S OBSERVED IN 1990. SITE IS WITHIN THE DFG CALHOUN CUT ECOLOGICAL RESERVE.
 Owner/Manager: DFG-CALHOUN CUT ER

Occurrence No. 56 Map Index: 48970 EO Index: 48970 Dates Last Seen: 2002-04-15
 Occ Rank: Fair Element: 2002-04-15
 Origin: Natural/Native occurrence Site: 2002-04-15
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2002-10-09

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.26251° / -121.78752° Township: 05N
 UTM: Zone-10 N4235636 E606073 Range: 02E
 Area: 2.2 acres Mapping Precision: SPECIFIC Section: 19 Qtr: SE
 Elevation: 8 ft Symbol Type: POLYGON Meridian: M

Location: CALHOUN CUT ECOLOGICAL RESERVE, BETWEEN CALHOUN CUT AND BARKER SLOUGH, 2.2 AIRMILES SOUTHEAST OF DOZIER.
 Location Detail: MAPPED WITHIN THE NE 1/4 OF THE SE 1/4 OF SECTION 19.
 Ecological: ON EDGE OF CREATED MITIGATION SEASONAL WETLAND WITH PLAGIOBOTHRYIS STIPITATUS, PSILOCARPUS TENELLUS VAR. GLOBIFERUS, AND RUMEX SEEDLINGS. MYOSURUS MINIMUS ALSO PRESENT.
 Threat: SHEEP GRAZING MAY OR MAY NOT BE A THREAT.
 General: 12 PLANTS OBSERVED IN 2002.
 Owner/Manager: DFG-CALHOUN CUT ER

Lepidium latipes var. heckardii

Heckard's pepper-grass

Element Code: PDBRA1MOK1

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G4T1 State: S1.2	CNPS List: 1B.2

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.
Micro: GRASSLAND, AND SOMETIMES VERNAL POOL EDGES. ALKALINE SOILS. 3-30M.

Occurrence No. 7	Map Index: 28792	EO Index: 30160	Dates Last Seen
Occ Rank: Unknown			Element: XXXX-XX-XX
Origin: Natural/Native occurrence			Site: XXXX-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-02-04

Quad Summary: Liberty Island (3812136/497C), Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.31118° / -121.73559°	Township: 05N
UTM: Zone-10 N4241098 E610543	Range: 02E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 10 ft	Section: 03 Qtr: XX
	Symbol Type: POLYGON Meridian: M

Location: HAAS SLOUGH.
Location Detail: MAPPED ALONG THE FULL EXTENT OF HAAS SLOUGH WHICH EXTENDS ONTO THE DOZIER QUAD. SURVEYS NEEDED.
General: 2 COLLEC. BY JEPSON, R. ROLLINS (IN ROL93A01 AT CNDD) CONCLUDED THAT THESE PLANTS ARE "UNDOUBTEDLY" L. LATIPES HECKARDII BASED ON COMMENTS ON ONE OF THE LABELS WHICH STATES, "A REMARKABLE FORM WITH LONG ERECT STEMS 11 1/2 INCHES HIGH".
Owner/Manager: UNKNOWN

Occurrence No. 9	Map Index: 51705	EO Index: 54737	Dates Last Seen
Occ Rank: Good			Element: 2002-03-30
Origin: Natural/Native occurrence			Site: 2002-03-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-03-18

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26438° / -121.86270°	Township: 05N
UTM: Zone-10 N4235761 E599493	Range: 01E
Area: 7.7 acres	Mapping Precision: SPECIFIC
Elevation: 35 ft	Section: 21 Qtr: NE
	Symbol Type: POLYGON Meridian: M

Location: 2.2 MILES WSW OF OLCOTT, WSW OF DOZIER.
Location Detail: MAPPED WITHIN THE SE 1/4 OF THE NE 1/4 OF SECTION 21. (WILCOX RANCH SITES)
Ecological: ALKALINE VERNAL FLAT WITH LASTHENIA FREMONTII, BLENNOSPERMA NANUM, LOLIUM MULTIFLORUM, PLEUROPOGON, DESCHAMPSIA DANTHONIOIDES, LEPIDIUM NITIDUM, LEPIDIUM OXYCARPUM, FRANKENIA, CRESSA TRUXILLENIS, ALOPECURUS SACCATUS, COTULA CORONOPIFOLIA.
Threat: TRAMPLING, DEER HOOFPRIENTS.
General: UNKNOWN NUMBER PLANTS OBSERVED IN 2002. WILCOX RANCH IS BEING PURCHASED BY TNC. THE RARE LEPIDIUM LATIPES VAR. LATIPES AND ASTRAGALUS TENER VAR. TENER ALSO OCCUR AT THIS SITE.
Owner/Manager: TNC

Occurrence No. 10	Map Index: 54738	EO Index: 54738	Dates Last Seen
Occ Rank: Excellent			Element: 2003-04-XX
Origin: Natural/Native occurrence			Site: 2003-04-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-03-18

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.45933° / -121.67422°	Township: 07N
UTM: Zone-10 N4257613 E615672	Range: 03E
Area: 1.4 acres	Mapping Precision: SPECIFIC
Elevation: 15 ft	Section: 17 Qtr: NW
	Symbol Type: POLYGON Meridian: M

Location: WEST OF SACRAMENTO NORTHERN RAILROAD, AT INTERSECTION OF ROAD 38 AND ROAD 105.
Location Detail: TWO COLONIES MAPPED AS ONE POLYGON IN THE NORTHWESTERNMOST CORNER OF THE NORTHWEST 1/4 OF SECTION 17.
Ecological: MESIC GRASSLAND DOMINATED BY LASTHENIA GLABRATA ANS LOLIUM MULTIFLORUM. ASSOCIATES INCLUDE LAYIA CHRYSANTHEMOIDES, BLENNOSPERMA NANUM AND VARIOUS OTHERS. OCCASIONALLY OCCURRING WITH VAR. LATIPES.
Threat: CATTLE GRAZING.
General: >1000 OBSERVED BETWEEN THIS SITE AND OCC #11.
Owner/Manager: DFG

Lepidium latipes var. heckardii

Heckard's pepper-grass

Element Code: PDBRA1MOK1

_____ Status _____

_____ NDDB Element Ranks _____

_____ Other Lists _____

Federal: None

Global: G4T1

CNPS List: 1B.2

State: None

State: S1.2

_____ Habitat Associations _____

General: VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.

Micro: GRASSLAND, AND SOMETIMES VERNAL POOL EDGES. ALKALINE SOILS. 3-30M.

Occurrence No. 11

Map Index: 54739

EO Index: 54739

_____ Dates Last Seen _____

Occ Rank: Excellent

Element: 2003-04-XX

Origin: Natural/Native occurrence

Site: 2003-04-XX

Presence: Presumed Extant

Trend: Unknown

Record Last Updated: 2004-03-18

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.43745° / -121.67036°

Township: 07N

UTM: Zone-10 N4255190 E616043

Range: 03E

Area: 7.8 acres

Mapping Precision: SPECIFIC

Section: 20

Qtr: /

Elevation: 15 ft

Symbol Type: POLYGON

Meridian: M

Location: EAST OF SACRAMENTO NORTHERN RAILROAD, APPROXIMATELY 1.5 AIRMILES NNE OF VAUGHN RANCH PUMP HOUSE.

Location Detail: SEVEN COLONIES MAPPED AS SEVEN POLYGONS, LOCATED PRIMARILY IN THE CENTER OF THE WESTERN HALF OF SECTION 20.

Ecological: MESIC GRASSLAND DOMINATED BY LASTHENIA GLABRATA AND LOLIUM MULTIFLORUM. ASSOCIATES INCLUDE LAYIA CHRYSANTHEMOIDES, BLENNOSPERMA NANUM AND VARIOUS OTHERS. OCCASIONALLY OCCURRING WITH VAR. LATIPES.

Threat: CATTLE GRAZING.

General: >1000 OBSERVED BETWEEN THIS SITE AND OCC #10.

Owner/Manager: DFG

Lepidurus packardi

vernal pool tadpole shrimp

Element Code: ICBRA10010

Status
 Federal: Endangered
 State: None

NDDB Element Ranks
 Global: G3
 State: S2S3

Other Lists
 CDFG Status:

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.

Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 26

Map Index: 32460

EO Index: 1767

Dates Last Seen

Occ Rank: Poor
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown

Element: 1995-04-26
Site: 1995-04-26

Record Last Updated: 1999-12-16

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.36062° / -121.96860°
UTM: Zone-10 N4246331 E590110
Radius: 80 meters
Elevation: 130 ft

Township: 06N
Range: 01W
Section: 15
Meridian: M
Qtr: SW

Mapping Precision: SPECIFIC
Symbol Type: POINT

Location: VACAVILLE; 1.1 KM NE OF ELMIRA ROAD X INTERSTATE ROUTE 80.

Location Detail: ALLISON DRIVE/INTERSTATE 80 INTERCHANGE PROJECT.

Ecological: MIXED, NON-NATIVE ANNUAL GRASSLAND OF ANNUAL GRASSES, WEEDS, SMALL INTRODUCED HERBS, AND VERY SMALL REPRESENTATION BY NATIVE SPECIES; FEW SEASONAL WETLAND SPECIES AROUND SWALE.

Threat: AGRICULTURAL USES (DISKING), GRAVEL DUMPING, DEVELOPMENT, ALLISON DRIVE/I-80 INTERCHANGE PROJECT.

General: 1 EGG FOUND AND COLLECTED DURING SOIL SAMPLING, EGG CURRENTLY IN VIAL AT JONES & STOKES; NO SHRIMP OBSERVED DURING AQUATIC SAMPLING; UNCERTAIN IF EGG REPRESENTS VIABLE TADPOLE SHRIMP POPULATION; POOL WILL BE DESTROYED BY HIGHWAY PROJECT.

Owner/Manager: CITY OF VACAVILLE

Occurrence No. 29

Map Index: 32514

EO Index: 1994

Dates Last Seen

Occ Rank: Excellent
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown

Element: 2004-03-23
Site: 2004-03-23

Record Last Updated: 2006-03-28

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.49318° / -121.68156°
UTM: Zone-10 N4261360 E614977
Radius: 2/5 mile
Elevation: 25 ft

Township: 08N
Range: 03E
Section: 31
Meridian: M
Qtr: SE

Mapping Precision: NON-SPECIFIC
Symbol Type: POINT

Location: USAF DAVIS COMMUNICATIONS FACILITY; SE OF DAVIS; ABOUT 1.5 KM EAST OF TREMONT ROAD X ROAD 104.

Location Detail: 5 POOLS SURVEYED IN 1995 & LEPIDURUS FOUND IN 3 OF THEM. POOL #3 ESTIMATED TO BE 200 FT LONG, 50 FT WIDE & 12 INCHES DEEP. POOL #9 ESTIMATED TO BE 300 FT LONG, 75 FT WIDE & 36 INCHES DEEP. FOUND IN 8 POOLS IN 2004.

Ecological: ANNUAL GRASSLAND WITH VERNAL POOLS & BORROW PIT WITH MUD BOTTOM. SITE BURNED IN 2003. WATER FLEAS, CLAM SHRIMP, WATER BOATMEN, PACIFIC CHORUS FROGS, FLATWORMS & OTHER AQUATIC INSECT LARVA ALSO FOUND IN 2004. SURROUNDING AREA IS AGRICULTURE.

Threat: DISKING OF POOLS; HERBICIDE RUNOFF FROM ANTENNA PADS; INTRUSION OF EXOTIC WEEDS INTO VERNAL POOLS (LEPIDIUM LATIFOLIUM)

General: POOL #3 & #9: MANY ADULTS/JUVENILES OBS ON 2/10, 3/2 & 3/16/95. 6 VOUCHER SPECIMENS FROM POOLS 3 & 9 DEPOSITED AT CAS (#102857, 102859). POOL PERSISTED UNTIL MAY-JUNE. SHRIMP FOUND HERE IN 1993-94, 1997-98, & 2003-4.

Owner/Manager: DOD-MCCLELLAN AFB

Lepidurus packardii

vernal pool tadpole shrimp

Element Code: ICBRA10010

Status ----- **NDDB Element Ranks** ----- **Other Lists** -----
 Federal: Endangered **Global:** G3 **CDFG Status:**
 State: None **State:** S2S3

Habitat Associations -----

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.
Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 37 **Map Index:** 34153 **EO Index:** 1959 **Dates Last Seen** -----
Occ Rank: Good **Element:** 1998-01-31
Origin: Natural/Native occurrence **Site:** 1998-01-31
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-06-20

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26970° / -121.84368° **Township:** 05N
UTM: Zone-10 N4236371 E601150 **Range:** 01E
Area: **Mapping Precision:**NON-SPECIFIC **Section:** 22 **Qtr:** XX
Elevation: 25 ft **Symbol Type:**POLYGON **Meridian:** M

Location: 1.8 MILES SW OF DOZIER, 2.2 MILES WNW OF HIGHWAY 113 AT CALHOUN CUT, WEST OF JEPSON PRAIRIE.
Location Detail: LOCATED ALONG PG&E/PGT UNDERGROUND GAS PIPELINE RIGHT-OF-WAY, 1992 DATA MODIFIED MAPPED AREA TO INCLUDE TO LAKES. BRANCHINECTA CONSERVATIO PRESENT IN SOME CORRESPONDING POOLS.
Ecological: HABITAT CONSISTS OF RESTORED VERNAL POOLS IN CENTRAL VALLEY GRASSLAND; PLAYA POOLS CONTAINING WATER INTO JUNE, HIGH TURBIDITY; AND MODERATE-SIZED, SHALLOW VERNAL POOLS WITH LESS TURBIDITY.
Threat: POSSIBLE THREATS INCLUDE OVERGRAZING, CONVERSION TO CROPLAND, DEVELOPMENT.
General: 1995: 7 POOLS, 3 PLAYAS WITH ESTIMATED #S OF 100'S TO 1000'S. 1996: NUMEROUS ADULTS/JUVENILES OBSERVED IN SAME POOLS (PLUS 2 MORE) & PLAYAS. 4 OUT OF 85 POOLS SAMPLED CONTAINED L. PACKARDII. TIGER SALAMANDER LARVA & HYLIA REGILLA OBSERVED.

Owner/Manager: PVT

Occurrence No. 45 **Map Index:** 32549 **EO Index:** 1701 **Dates Last Seen** -----
Occ Rank: Unknown **Element:** 1993-02-07
Origin: Natural/Native occurrence **Site:** 1993-02-07
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1997-01-21

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.28742° / -121.79637° **Township:** 05N
UTM: Zone-10 N4238390 E605263 **Range:** 02E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 07 **Qtr:** SW
Elevation: 13 ft **Symbol Type:**POINT **Meridian:** M

Location: E OF DOZIER; ON WEST SIDE OF SALEM ROAD, 2.1 KM S OF BROWN ROAD X SALEM ROAD.
Ecological: ROADSIDE DITCH ADJACENT TO HORSE PASTURE; TURBID POOL CHOKED WITH ALGAE.
General: 20+ INDIVIDUALS OBSERVED.

Owner/Manager: UNKNOWN

Occurrence No. 49 **Map Index:** 32556 **EO Index:** 17942 **Dates Last Seen** -----
Occ Rank: Good **Element:** 2003-05-28
Origin: Natural/Native occurrence **Site:** 2003-05-28
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-01-10

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27069° / -121.82633° **Township:** 05N
UTM: Zone-10 N4236500 E602666 **Range:** 01E
Area: 58.5 acres **Mapping Precision:**SPECIFIC **Section:** 23 **Qtr:** NE
Elevation: 18 ft **Symbol Type:**POLYGON **Meridian:** M

Location: OLCOTT LAKE, SW OF DOZIER
Location Detail: 1997: ONLY NORTHERN PORTION OF LAKE SURVEYED, FROM NORTH EDGE TO E-W FENCE, SO ESTIMATES DO NOT REFLECT POPULATION FROM ENTIRE LAKE. FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97.
Ecological: HABITAT CONSISTS OF A LARGE VERNAL POOL, WHICH IS ALMOST ALWAYS CLOUDY. ROAD DIVIDES POOL INTO 2 HALVES. BRANCHINECTA CONSERVATIO, AMBYSTOMA CALIFORNIENSE, AND ELAPHRUS VIRIDIS ARE ALSO FOUND AT THIS SITE.
General: IN 1992, 2 TRANSECTS WERE RUN; TRANSECT #1: 5 TADPOLE SHRIMP, TRANSECT #2: 23 TADPOLE SHRIMP. ONLY 10 NET SWEEPS MADE IN 1997: 1 CAPTURE. 35 INDIVIDUALS COLLECTED 21 MAY 1994. ~100 ADULTS OBSERVED ON 28 MAY 2003.

Owner/Manager: SOLANO LAND TRUST

Lepidurus packardi

vernal pool tadpole shrimp

Element Code: ICBRA10010

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.

Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 97	Map Index: 33690	EO Index: 30600	Dates Last Seen
Occ Rank: Unknown	Origin: Natural/Native occurrence		Element: 1999-03-09
Presence: Presumed Extant	Trend: Unknown		Site: 1999-03-09
			Record Last Updated: 2000-03-14
Quad Summary: Denverton (3812128/481B)			
County Summary: Solano			
Lat/Long: 38.22497° / -121.96640°	UTM: Zone-10 N4231281 E590470	Area: 7.8 acres	Elevation: 10 ft
	Mapping Precision: SPECIFIC	Symbol Type: POLYGON	
	Township: 04N	Range: 01W	Section: 03
		Meridian: M	Qtr: XX
Location: SOUTHEAST OF THE INTERSECTION OF HIGHWAY 12 AND SCALLY ROAD, NORTH OF POTRERO HILLS AND SOUTH OF TRAVIS AIR FORCE BASE.			
Location Detail: SUGNET & ASSOCIATES REPORTED TADPOLE SHRIMP FROM "SOMEWHERE IN SECTION 3" (RECORD #114).			
Ecological: HABITAT CONSISTS OF A LARGE VERNAL POOL; SCALLY ROAD INTERSECTS THIS POOL.			
General: OBSERVED DURING SAMPLING ON 9 MAR 1999. B. CONSERVATIO SAID TO HAVE BEEN OBSERVED BY STEVE FOREMAN OF RMI, DATE UNKNOWN.			
Owner/Manager: UNKNOWN			

Lepidurus packardi

vernal pool tadpole shrimp

Element Code: ICBRA10010

Status
 Federal: Endangered
 State: None

NDDB Element Ranks
 Global: G3
 State: S2S3

Other Lists
 CDFG Status:

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.

Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 98 Map Index: 33700 EO Index: 30544 Dates Last Seen
 Occ Rank: Unknown Element: 1992-05-11
 Origin: Natural/Native occurrence Site: 1992-05-11
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-03-11

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.27890° / -121.83310° Township: 05N
 UTM: Zone-10 N4237404 E602063 Range: 01E
 Radius: 3/5 mile Mapping PrecisionNON-SPECIFIC Section: 14 Qtr: XX
 Elevation: 25 ft Symbol Type:POINT Meridian: M

Location: SOUTHWEST OF THE INTERSECTION OF HWY 113 AND COOK LANE. SOUTHWEST OF DOZIER.

Location Detail: VERNAL POOLS LOCATED SOMEWHERE IN SECTION 14.

Ecological: NATURAL VERNAL POOLS.

General: LEPIDURUS PACKARDI OBSERVED IN THE ONE FEATURE INSPECTED. SUGNET RECORD #115. NO B. LYNCHI OBSERVED.

Owner/Manager: UNKNOWN

Occurrence No. 99 Map Index: 33699 EO Index: 30543 Dates Last Seen
 Occ Rank: Unknown Element: 1993-02-07
 Origin: Natural/Native occurrence Site: 1993-02-07
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-03-11

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.29263° / -121.79550° Township: 05N
 UTM: Zone-10 N4238970 E605331 Range: 02E
 Radius: 3/5 mile Mapping PrecisionNON-SPECIFIC Section: 07 Qtr: XX
 Elevation: 10 ft Symbol Type:POINT Meridian: M

Location: NORTHEAST OF THE INTERSECTION OF HWY 113 AND HASTINGS ROAD. ENE OF DOZIER.

Location Detail: ROADSIDE DITCH SOMEWHERE IN SECTION 7.

Ecological: MANMADE ROADSIDE DITCH.

General: LEPIDURUS PACKARDI OBSERVED IN THE 1 FEATURE INSPECTED. SUGNET RECORD #116. NO B. LYNCHI OBSERVED.

Owner/Manager: UNKNOWN

Occurrence No. 111 Map Index: 35356 EO Index: 31379 Dates Last Seen
 Occ Rank: Good Element: 2000-03-16
 Origin: Natural/Native occurrence Site: 2000-03-16
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-11-09

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.22365° / -121.97711° Township: 04N
 UTM: Zone-10 N4231124 E589534 Range: 01W
 Area: Mapping PrecisionNON-SPECIFIC Section: 04 Qtr: NE
 Elevation: 5 ft Symbol Type:POLYGON Meridian: M

Location: ALONG POTRERO HILLS LANE, 0.5 MILE SW OF THE INTERSECTION OF SCALLY ROAD AND HIGHWAY 12, SE OF FAIRFIELD

Location Detail: SITE CONTAINS DRAINAGE DITCHES AROUND THE PERIPHERY OF THE LANDFILL AREA. THESE DITCHES RUN ALONG THE SOUTH SIDE OF THE CAPPED LANDFILL AND ALONG THE EAST SIDE OF EMMINGTON ROAD. DITCHES ARE CONNECTED TO LARGE VERNAL POOLS TO THE

Ecological: WETLAND MITIGATION SITE. HABITAT CONSISTS OF ARTIFICIAL DRAINAGE DITCHES, CONNECTED TO VERNAL POOLS; DITCH VEGETATION CONSISTS OF SALICORNIA SP AND TYPHA SP.

General: TADPOLE SHRIMP FOUND IN THE 10'S TO 100'S IN THE PERIPHERY DITCHES ON 26 FEB 1996; CAS #106750. 100'S OF ADULT VERNAL POOL TADPOLE SHRIMP WERE FOUND ON 16 MAR 2000 IN A DITCH AT THE SOUTH END OF A CAPPED LANDFILL.

Owner/Manager: PVT

Lepidurus packardii

vernal pool tadpole shrimp

Element Code: ICBRA10010

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.
Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 141	Map Index: 41829	EO Index: 41832	Dates Last Seen
Occ Rank: Excellent			Element: 1999-03-11
Origin: Natural/Native occurrence			Site: 1999-03-11
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-31

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.29405° / -121.85090°	Township: 05N
UTM: Zone-10 N4239065 E600485	Range: 01E
Area: 19.7 acres	Section: 10
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: 1.5 MILES WEST OF HIGHWAY 113 AND 0.25-0.50 MILE SOUTH OF BURKE ROAD, 2 MILES WNW OF DOZIER.
Location Detail: SITE IS LOCATED 2 MILES SW OF THE SOLANO COUNTY LANDFILL.
Ecological: SITE CONSISTS OF TWO PLAYA-TYPE VERNAL POOLS, ON PESCADERO CLAY AND/OR SOLANO LOAM SOILS; ONE POOL IS MAN-MADE, WITH A BERM AT THE SOUTH END. A SERIES OF POOLS, SWALES, AND MOUNDS ARE FOUND DOWNSLOPE. PLAYAS ARE UNVEGETATED AND VERY TURBID.
Threat: POSSIBLE THREAT FROM GRAZING (SHEEP AND CATTLE).
General: >1000 INDIVIDUALS (A MIXTURE OF REPRODUCTIVE ADULTS AND IMMATURES) FOUND ON 11 MAR 1999. SPECIMENS IN FWS COLLECTION. BRANCHINECTA CONSERVATIO AND ELAPHRUS VIRIDIS FOUND NEARBY.
Owner/Manager: PVT-BURKE RANCH

Occurrence No. 142	Map Index: 41833	EO Index: 41833	Dates Last Seen
Occ Rank: Excellent			Element: 1999-03-11
Origin: Natural/Native occurrence			Site: 1999-03-11
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-07-31

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.29398° / -121.85659°	Township: 05N
UTM: Zone-10 N4239052 E599987	Range: 01E
Radius: 80 meters	Section: 10
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: 1.8 MILES WEST OF HIGHWAY 113 AND 0.25 MILE SOUTH OF BURKE ROAD, 2 MILES WNW OF DOZIER.
Location Detail: SITE IS LOCATED 2 MILES SW OF THE SOLANO COUNTY LANDFILL.
Ecological: HABITAT CONSISTS OF A LARGE, BUT SHALLOW, WELL-VEGETATED VERNAL POOL ON ANTIOCH-SAN YSIDRO SOILS; LIGHTLY GRAZED BY SHEEP AND CATTLE. HIGH COVER OF VERNAL POOL FORBS. BRANCHINECTA CONSERVATIO, B. LYNCHI, AND ELAPHRUS VIRIDIS FOUND NEARBY.
General: NUMEROUS INDIVIDUALS (A MIXTURE OF REPRODUCTIVE ADULTS AND IMMATURES) FOUND ON 11 MAR 1999. SPECIMENS IN THE FWS COLLECTION.
Owner/Manager: PVT-BURKE RANCH

Lepidurus packardii

vernal pool tadpole shrimp

Element Code: ICBRA10010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: Endangered **Global:** G3 **CDFG Status:**
 State: None **State:** S2S3

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.
Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 143 **Map Index:** 41839 **EO Index:** 41839 **Dates Last Seen** _____
Occ Rank: Good **Element:** 1999-03-05
Origin: Natural/Native occurrence **Site:** 1999-03-05
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-07-31

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27959° / -121.84021° **Township:** 05N
UTM: Zone-10 N4237473 E601440 **Range:** 01E
Area: 15.0 acres **Mapping Precision:**SPECIFIC **Section:** 14 **Qtr:** NW
Elevation: 20 ft **Symbol Type:**POLYGON **Meridian:** M

Location: UPPER END OF BARKER SLOUGH, NW OF JEPSON PRAIRIE AND WSW OF ARGYLLE PARK RACETRACK, 11 MILES SOUTH OF DIXON.
Location Detail: SITE IS LOCATED ALONG A MAPPED TRIBUTARY TO BARKER SLOUGH. TADPOLE SHRIMP OCCUR WITHIN A 600-FT AREA DOWNSTREAM FROM THE FENCE AT THE GRAVEL ROAD.
Ecological: HABITAT CONSISTS OF LARGE, MUDDY DEPRESSIONS WITHIN THE SLOUGH TRIBUTARY CHANNEL. DOWNINGIA PUSILLA FOUND AT THIS SITE IN 1990; BRANCHINECTA LYNCHI REPORTED IN 1994.
General: 100 INDIVIDUALS (50% LARGE, REPRODUCTIVE ADULTS, 50% SMALLER INDIVIDUALS) OBSERVED OVER A 600 FT LENGTH OF THE TRIBUTARY ON 5 MAR 1999. VOUCHER SPECIMEN IN FWS COLLECTION.

Owner/Manager: PVT-CAMPBELL RANCH

Occurrence No. 154 **Map Index:** 42555 **EO Index:** 42555 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1992-XX-XX
Origin: Natural/Native occurrence **Site:** 1992-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-06-27

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.29499° / -121.81860° **Township:** 05N
UTM: Zone-10 N4239206 E603307 **Range:** 01E
Area: 11.0 acres **Mapping Precision:**SPECIFIC **Section:** 12 **Qtr:** XX
Elevation: 15 ft **Symbol Type:**POLYGON **Meridian:** M

Location: SEASONAL LAKE, JUST EAST OF HIGHWAY 113 & JEPSON PRAIRIE, 0.6 MILE NORTH OF DOZIER.
Ecological: HABITAT CONSISTS OF A NORTHERN CLAYPAN VERNAL POOL.
General: OBSERVED THE SPECIES IN 1992; NO NUMBERS GIVEN.

Owner/Manager: UNKNOWN

Occurrence No. 155 **Map Index:** 42556 **EO Index:** 42556 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1992-XX-XX
Origin: Natural/Native occurrence **Site:** 1992-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2000-03-15

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26344° / -121.83138° **Township:** 05N
UTM: Zone-10 N4235690 E602235 **Range:** 01E
Radius: 2/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 23 **Qtr:** XX
Elevation: 20 ft **Symbol Type:**POINT **Meridian:** M

Location: SEASONAL WETLANDS, 1 MILE SOUTH OF OLCOTT, JEPSON PRAIRIE, 1.5 MILES WEST OF CALHOUN CUT CROSSING BY HIGHWAY 113.
Ecological: VERNAL POOL HABITAT TYPE DESCRIBED AS CLAYPAN.
General: OBSERVED THE SPECIES IN 1992, NO NUMBERS GIVEN.

Owner/Manager: UNKNOWN

Lepidurus packardii

vernal pool tadpole shrimp

Element Code: ICBRA10010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: Endangered **Global:** G3 **CDFG Status:**
 State: None **State:** S2S3

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.
Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 158 **Map Index:** 43444 **EO Index:** 43444 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2002-04-01
Origin: Natural/Native occurrence **Site:** 2002-04-01
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2002-08-01

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.27172° / -121.98603° **Township:** 05N
UTM: Zone-10 N4236450 E588695 **Range:** 01W
Area: 15.2 acres **Mapping Precision:**SPECIFIC **Section:** 21 **Qtr:** NW
Elevation: 45 ft **Symbol Type:**POLYGON **Meridian:** M

Location: PARKER RANCH, 0.1 TO 0.2 MILE EAST INTERSECT OF WALTERS ROAD AND AIRBASE PARKWAY, ~2.5 MILES WEST OF TRAVIS FIELD.
Location Detail: 5 APR 2000: POOL NUMBER 8. APR 2002: POOL NUMBERS 27-14 AND 27-14A (ADJACENT TO AIRBASE PARKWAY).
Ecological: NATURAL VERNAL POOLS WITHIN A GRASSLAND: AT TIME OF SAMPLING WAS 10CM DEEP & 10 X 20M; ESTIMATED MAX SIZE IS 30 CM DEEP & 50 X 40M. WATER EXTREMELY TURBID, BOTTOM IRREGULAR DUE TO NUMEROUS HOOF PRINTS. LINDERIELLA OCCIDENTALIS IN POOLS.
Threat: DISTURBED, MODERATELY GRAZED, CATTLE. PARCEL ISOLATED FROM OTHER VERNAL POOLS DUE TO DEVELOPMENT.
General: 2000: ONLY 1 ADULT SEINED, BUT MORE ESTIMATED TO BE PRESENT. HOOF PRINTS PROVIDE REFUGE FROM SEINING, NO VOUCHER SPECIMENS TAKEN BECAUSE OF LOW POPULATION NUMBERS. 2 INDIVIDUALS OBSERVED BETWEEN FEB AND APR OF 2002.

Owner/Manager: PVT

Occurrence No. 159 **Map Index:** 43445 **EO Index:** 43445 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2000-07-06
Origin: Natural/Native occurrence **Site:** 2000-07-06
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-10-16

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.25584° / -121.86959° **Township:** 05N
UTM: Zone-10 N4234806 E598902 **Range:** 01E
Area: 58.0 acres **Mapping Precision:**SPECIFIC **Section:** 28 **Qtr:** XX
Elevation: 33 ft **Symbol Type:**POLYGON **Meridian:** M

Location: 1.8 MILES WEST OF WEST END OF CALHOUN CUT, 3.5 MILES SW OF DOZIER.
Location Detail: 5 LARGE PLAYA POOLS 2.5 MILES WSW OF OLCOTT LAKE.
Ecological: LARGE PLAYA-TYPE POOLS: DOMINANTS MALVELLA LEPROSA, CRESSA TRUXILENSIS, FRANKENIA SALINA, DISTCHLIS SPICATA, AND ELECCHARIS MACROSTACHYA. AREA IS GRAZED BY SHEEP.
General: CARAPACES FOUND IN POOLS WHILE SEARCHING FOR TUCTORIA MUCRONATA, 6 JULY 2000.

Owner/Manager: PVT

Occurrence No. 170 **Map Index:** 48478 **EO Index:** 48494 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2002-04-02
Origin: Natural/Native occurrence **Site:** 2002-04-02
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2002-08-08

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.44536° / -121.67336° **Township:** 07N
UTM: Zone-10 N4256063 E615769 **Range:** 03E
Area: 20.9 acres **Mapping Precision:**SPECIFIC **Section:** 17 **Qtr:** SW
Elevation: 15 ft **Symbol Type:**POLYGON **Meridian:** M

Location: 3 MILES NE OF YOLANO; APPROX. 1 TO 1.2 MILES SW ALONG THE SACRAMENTO NORTHERN ELECTRIC RAILROAD GRADE FROM ROAD 38.
Location Detail: SITE NUMBERS 52-10D, 52-10F, 52-25, 52-10E, 52-10, 52-10A, 52-10B AND 52-10C.
Ecological: HABITAT CONSISTS OF 8 POOLS IN A VERNAL POOL COMPLEX LOCATED PRIMARILY AROUND DITCHES & THE EDGES OF BERMS. NATURAL TOPOGRAPHY IS MOSTLY ABSENT. BRANCHINECTA LYNCH, BRANCHINECTA MESOVALLENSIS & LINDERIELLA OCCIDENTALIS ALSO IN VICINITY.
General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED ON 11 & 23 JAN 2002; 5, 6 & 20 FEB 2002; 4 & 19 MAR 2002 AND 2 APR 2002. ON 4 MAR 2002 AND 20 FEB 2002 INDIVIDUALS OBS DEAD. CARAPACE OBS ON 4 MAR 2002.

Owner/Manager: UNKNOWN

Lepidurus packardi

vernal pool tadpole shrimp

Element Code: ICBRA10010

Status
 Federal: Endangered
 State: None

NDDB Element Ranks
 Global: G3
 State: S2S3

Other Lists
 CDFG Status:

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.

Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 171

Map Index: 48495

EO Index: 48495

Dates Last Seen

Occ Rank: Fair

Element: 2003-04-07

Origin: Natural/Native occurrence

Site: 2003-04-07

Presence: Presumed Extant

Trend: Unknown

Record Last Updated: 2004-11-17

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.45729° / -121.66652°

Township: 07N

UTM: Zone-10 N4257396 E616347

Range: 03E

Area: 66.8 acres

Mapping Precision: SPECIFIC

Section: 17

Qtr: NE

Elevation: 15 ft

Symbol Type: POLYGON

Meridian: M

Location: 0.5 MI SW OF SAXON; 100 TO 400' SW ALONG SACRAMENTO NORTHERN ELECTRIC RR GRADE FROM RD 38, & IN POOLS TO WEST OF TRACKS.

Location Detail: SITE NUMBERS 53-01A AND 53-07. 1 POOL ON EACH SIDE OF RAILROAD GRADE, AND SEVERAL POOLS ON WEST SIDE OF TRACKS.

Ecological: POOLS ALONG RR-2 ARTIFICIALLY CREATED POOLS (BORROW PITS) THAT SEASONALLY POND RAINWATER. POOL ON W SIDE IS DEEP, TURBID & LONG-LASTING, TADPOLE SHRIMP ARE EXTREMELY ABUNDANT. LINDERIELLA OCCIDENTALIS & CYZICUS CALIFORNICUS ALSO PRESENT.

General: UNKNOWN NUMBER OBS ON 5, 20 FEB 2002; 4, 19 MAR 2002 & 2 APR 2002. >50 OBS JAN/FEB 2003, AND "LOTS" ON 7 APR 2003. INDIVIDUALS COLLECTED FOR CAL ACAD OF SCI NOT YET ACCESSIONED. SURROUNDING AREA USED FOR GRAZING CATTLE.

Owner/Manager: DFG

Lepidurus packardii

vernal pool tadpole shrimp

Element Code: ICBRA10010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: Endangered **Global:** G3 **CDFG Status:**
 State: None **State:** S2S3

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.
Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 182 **Map Index:** 54520 **EO Index:** 54521 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2003-04-07
Origin: Natural/Native occurrence **Site:** 2003-04-07
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2004-11-17

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.43662° / -121.66998° **Township:** 07N
UTM: Zone-10 N4255098 E616078 **Range:** 03E
Area: 10.3 acres **Mapping Precision:**SPECIFIC **Section:** 20 **Qtr:** SW
Elevation: 15 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ~1.4 MILES NNE OF VAUGHN RANCH, GLIDE TULE ELK RESERVE
Ecological: HABITAT CONSISTS OF A PLAYA POOL; SURROUNDING AREA GRAZED BY CATTLE. LEPIDURUS PACKARDI AND CYZICUS CALIFORNICUS ALSO FOUND AT THIS SITE.
General: "LOTS" OF INDIVIDUALS OBSERVED ON 7 APR 2003.
Owner/Manager: DPR-TULE ELK SR

Occurrence No. 223 **Map Index:** 61653 **EO Index:** 61701 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 2002-02-15
Origin: Natural/Native occurrence **Site:** 2002-02-15
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-06-20

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26581° / -121.87815° **Township:** 05N
UTM: Zone-10 N4235903 E598139 **Range:** 01E
Area: 18.7 acres **Mapping Precision:**SPECIFIC **Section:** 21 **Qtr:** XX
Elevation: 32 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ABOUT 3.6 MILES WSW DOZIER.
Location Detail: VERNAL POOLS #3, 10, AND 23. POOL #10 NOT SHOWN ON TOPO MAP.
Ecological: VERNAL POOL.
General: NUMBER OF INDIVIDUALS NOT RECORDED.
Owner/Manager: UNKNOWN

Occurrence No. 224 **Map Index:** 61666 **EO Index:** 61702 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 2002-03-25
Origin: Natural/Native occurrence **Site:** 2002-03-25
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-06-20

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.25778° / -121.86674° **Township:** 05N
UTM: Zone-10 N4235024 E599149 **Range:** 01E
Area: 35.4 acres **Mapping Precision:**SPECIFIC **Section:** 21 **Qtr:** XX
Elevation: 34 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ABOUT 3.5 MILES SOUTHWEST OF DOZIER.
Location Detail: VERNALS POOLS #4, 5, AND 6.
Ecological: VERNAL POOLS.
General: NUMBER OF INDIVIDUALS NOT RECORDED.
Owner/Manager: UNKNOWN

Lepidurus packardii

vernal pool tadpole shrimp

Element Code: ICBRA10010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: Endangered **Global:** G3 **CDFG Status:**
 State: None **State:** S2S3

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.
Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 225 **Map Index:** 61667 **EO Index:** 61703 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 2002-02-15
Origin: Natural/Native occurrence **Site:** 2002-02-15
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-06-20

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26430° / -121.86822° **Township:** 05N
UTM: Zone-10 N4235746 E599010 **Range:** 01E
Area: 14.1 acres **Mapping Precision:**SPECIFIC **Section:** 21 **Qtr:** XX
Elevation: 34 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ABOUT 3.0 MILES WSW DOZIER.
Location Detail: VERNAL POOLS #7, 8, AND 9. POOL #8 DOES NOT SHOW AS A SEPARATE POOL ON TOPO MAP.
Ecological: VERNAL POOL.
General: NUMBER OF INDIVIDUALS NOT GIVEN.
Owner/Manager: UNKNOWN

Occurrence No. 226 **Map Index:** 61647 **EO Index:** 61704 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 2002-02-15
Origin: Natural/Native occurrence **Site:** 2002-02-15
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-06-20

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26016° / -121.89766° **Township:** 05N
UTM: Zone-10 N4235255 E596440 **Range:** 01E
Area: 4.8 acres **Mapping Precision:**SPECIFIC **Section:** 20 **Qtr:** XX
Elevation: 37 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ABOUT 4.6 MILES SOUTHWEST OF DOZIER.
Location Detail: VERNAL POOL #11.
Ecological: VERNAL POOL.
General: NUMBER OF INDIVIDUALS NOT RECORDED.
Owner/Manager: UNKNOWN

Occurrence No. 227 **Map Index:** 61659 **EO Index:** 61705 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 2002-02-15
Origin: Natural/Native occurrence **Site:** 2002-02-15
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-06-20

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.25734° / -121.90547° **Township:** 05N
UTM: Zone-10 N4234934 E595761 **Range:** 01E
Area: 26.8 acres **Mapping Precision:**SPECIFIC **Section:** 30 **Qtr:** XX
Elevation: 45 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ABOUT 5.0 MILES SOUTHWEST OF DOZIER.
Location Detail: VERNAL POOLS #12 AND 13.
Ecological: VERNAL POOLS.
General: NUMBER OF INDIVIDUALS NOT RECORDED.
Owner/Manager: UNKNOWN

Lepidurus packardii

vernal pool tadpole shrimp

Element Code: ICBRA10010

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.
Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 228	Map Index: 61670	EO Index: 61706	Dates Last Seen
Occ Rank: Unknown			Element: 2002-02-15
Origin: Natural/Native occurrence			Site: 2002-02-15
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-06-20

Quad Summary: Denverton (3812128/481B), Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.24780° / -121.88418°	Township: 05N
UTM: Zone-10 N4233899 E597636	Range: 01E
Area: 41.7 acres	Section: 29
Elevation: 36 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: ABOUT 4.5 MILES SOUTHWEST OF DOZIER.
Location Detail: VERNAL POOLS #14, 15, 17, AND 18. POOLS #15 AND 17 NOT SHOWN ON TOPO MAP.
Ecological: VERNAL POOL.
General: POOLS #15 AND 17 HAVE IRREGULAR MARGINS. NUMBER OF INDIVIDUALS NOT RECORDED.
Owner/Manager: UNKNOWN

Occurrence No. 229	Map Index: 61662	EO Index: 61707	Dates Last Seen
Occ Rank: Unknown			Element: 2002-05-13
Origin: Natural/Native occurrence			Site: 2002-05-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-03-08

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.24794° / -121.90775°	Township: 05N
UTM: Zone-10 N4233889 E595573	Range: 01E
Radius: 1/10 mile	Section: 30
Elevation: 42 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: ABOUT 5.5 MILES SOUTHWEST OF DOZIER.
Location Detail: VERNAL POOLS #20, 21, 31, & 32. POOLS #31 & 32 NOT SHOWN ON SOURCE MAP, NOTED AS "LARGE NORTHERN & SOUTHERN GRAVEL PIT POOLS".
Ecological: VERNAL POOLS.
General: NUMBER OF INDIVIDUALS NOT RECORDED.
Owner/Manager: UNKNOWN

Occurrence No. 230	Map Index: 61672	EO Index: 61708	Dates Last Seen
Occ Rank: Unknown			Element: 2002-02-15
Origin: Natural/Native occurrence			Site: 2002-02-15
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-06-21

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.26201° / -121.90152°	Township: 05N
UTM: Zone-10 N4235457 E596100	Range: 01E
Radius: 80 meters	Section: 19
Elevation: 42 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: ABOUT 5.0 MILES SOUTHWEST OF DOZIER.
Location Detail: VERNAL POOL #22 (NOT SHOWN ON TOPO MAP)
Ecological: VERNAL POOLS.
General: NUMBER OF INDIVIDUALS NOT RECORDED.
Owner/Manager: UNKNOWN

Lepidurus packardii

vernal pool tadpole shrimp

Element Code: ICBRA10010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: Endangered **Global:** G3 **CDFG Status:**
 State: None **State:** S2S3

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.
Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 231 **Map Index:** 61673 **EO Index:** 61709 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 2002-02-15
Origin: Natural/Native occurrence **Site:** 2002-02-15
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-06-21

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.27269° / -121.87934° **Township:** 05N
UTM: Zone-10 N4236665 E598026 **Range:** 01E
Area: 22.3 acres **Mapping Precision:**SPECIFIC **Section:** 17 **Qtr:** XX
Elevation: 34 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ~3.4 MILES WSW OF DOZIER.
Location Detail:LARRY SERPA'S POOL 24
Ecological: VERNAL POOLS.
General: NUMBER OF INDIVIDUALS NOT RECORDED.
Owner/Manager: UNKNOWN

Occurrence No. 232 **Map Index:** 61661 **EO Index:** 61710 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 2002-02-15
Origin: Natural/Native occurrence **Site:** 2002-02-15
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-06-21

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26950° / -121.87073° **Township:** 05N
UTM: Zone-10 N4236321 E598784 **Range:** 01E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 21 **Qtr:** XX
Elevation: 35 ft **Symbol Type:**POINT **Meridian:** M

Location: ABOUT 3.1 MILES WEST-SOUTHWEST OF DOZIER.
Location Detail:VERNAL POOL #25.
Ecological: VERNAL POOLS.
General: NUMBER OF SPECIMENS NOT RECORDED.
Owner/Manager: UNKNOWN

Occurrence No. 233 **Map Index:** 61675 **EO Index:** 61711 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 2002-03-25
Origin: Natural/Native occurrence **Site:** 2002-03-25
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-06-21

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26080° / -121.85604° **Township:** 05N
UTM: Zone-10 N4235371 E600080 **Range:** 01E
Area: 6.6 acres **Mapping Precision:**SPECIFIC **Section:** 22 **Qtr:** XX
Elevation: 29 ft **Symbol Type:**POLYGON **Meridian:** M

Location: ABOUT 2.6 MILES SOUTHWEST OF DOZIER.
Location Detail:VERNAL POOL #26. NOT IDENTIFIED FROM MAP; LOCATION TAKEN FROM UTM COORDINATES IN TABLE.
Ecological: VERNAL POOLS.
General: NUMBER OF INDIVIDUALS NOT RECORDED.
Owner/Manager: PVT

Lepidurus packardii

vernal pool tadpole shrimp

Element Code: ICBRA10010

Status
 Federal: Endangered
 State: None

NDDB Element Ranks
 Global: G3
 State: S2S3

Other Lists
 CDFG Status:

Habitat Associations

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.

Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 234 Map Index: 61676 EO Index: 61712 Dates Last Seen
 Occ Rank: Unknown Element: 2002-04-02
 Origin: Natural/Native occurrence Site: 2002-04-02
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-06-21

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.26705° / -121.85667° Township: 05N
 UTM: Zone-10 N4236064 E600017 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 22 Qtr: XX
 Elevation: 32 ft Symbol Type: POINT Meridian: M

Location: ABOUT 2.5 MILES SOUTHWEST OF DOZIER.

Location Detail: VERNAL POOL #29. POOL DOES NOT SHOW ON TOPO MAP; LOCATION TAKEN FROM UTM COORDINATES IN TABLE.

Ecological: VERNAL POOLS. POOL HAS AN IRREGULAR MARGIN.

General: UNKNOWN NUMBER OBSERVED.

Owner/Manager: UNKNOWN

Occurrence No. 236 Map Index: 64319 EO Index: 64399 Dates Last Seen
 Occ Rank: Fair Element: 2004-11-29
 Origin: Natural/Native occurrence Site: 2004-12-29
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-03-15

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.28697° / -121.91476° Township: 05N
 UTM: Zone-10 N4238213 E594909 Range: 01W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 12 Qtr: XX
 Elevation: 60 ft Symbol Type: POINT Meridian: M

Location: TRAVIS AFB, AT INTERSECTION OF MERIDIAN ROAD AND RAILROAD TRACKS.

Ecological: PONDED AREA IN RAILROAD RIGHT-OF-WAY, SHALLOW TURBID POOL, UNVEGETATED. SURROUNDING AREA IS ANNUAL GRASSLAND/VERNAL POOL HABITAT.

Threat: OFF-ROAD VEHICLES.

General: FEWER THAN 10 ADULTS OBSERVED.

Owner/Manager: DOD-TRAVIS AFB

Occurrence No. 237 Map Index: 64349 EO Index: 64428 Dates Last Seen
 Occ Rank: Fair Element: 2004-12-14
 Origin: Natural/Native occurrence Site: 2004-12-14
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-03-27

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.28608° / -121.86029° Township: 05N
 UTM: Zone-10 N4238171 E599675 Range: 01E
 Area: 64.8 acres Mapping Precision: SPECIFIC Section: 10 Qtr: XX
 Elevation: 35 ft Symbol Type: POLYGON Meridian: M

Location: ALONG RAILROAD RIGHT-OF-WAY BETWEEN MERIDIAN ROAD AND ROUTE 113.

Ecological: PONDED AREAS IN RAILROAD RIGHT-OF-WAY. DEEP, TURBID POOLS. ANNUAL GRASSLAND/VERNAL POOL HABITAT IN ADJACENT LANDSCAPE.

Threat: ORV ACTIVITY.

General: ABOUT 50 ADULTS OBSERVED.

Owner/Manager: DOD-TRAVIS AFB

Lilaeopsis masonii

Mason's lilaeopsis

Element Code: PDAPI19030

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 1B.1
State: Rare	State: S3.1	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES, RIPARIAN SCRUB.
Micro: TIDAL ZONES, IN MUDDY OR SILTY SOIL FORMED THROUGH RIVER DEPOSITION OR RIVER BANK EROSION. 0-10M.

Occurrence No. 18	Map Index: 43719	EO Index: 43719	Dates Last Seen
Occ Rank: Unknown			Element: 2000-09-12
Origin: Natural/Native occurrence			Site: 2000-09-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-09-29

Quad Summary: Denverton (3812128/481B), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.19119° / -122.04154°	Township: 04N
UTM: Zone-10 N4227462 E583932	Range: 02W
Area: 1,287.4 acres	Section: 13
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: SUISUN SLOUGH, FROM MORROW ISLAND NORTH TO SUISUN CITY, SUISUN MARSH.
Location Detail: MANY SCATTERED COLONIES MAPPED ALONG SUISUN SLOUGH, PEYTONIA SLOUGH, AND HILL SLOUGH WITH ONE COLONY MAPPED ALONG MONTEZUMA SLOUGH ADJACENT TO HUNTER CUT. NEED GIS LAYER OR OVERLAY TO APPRECIATE.
Ecological: COASTAL BRACKISH MARSH WITH TRIGLOCHIN STRIATA, ATRIPLEX PATULA, ELEOCHARIS, DISTICHLIS SPICATA, SCIRPUS SPP, POTENTILLA SP., CAREX SP., JAUMEA CARNOSA, AND HYDROCOTYLE VERTICILLATA VAR. TRIDENTATA.
Threat: TRAMPLING BY FISHERMEN, RIVERFRONT DEVELOPMENT AND FLOODWALL CONSTRUCTION AT SUISUN CITY.
General: NUMEROUS COLONIES MAPPED AS PER DWR ENVIRONMENTAL SERVICES OFFICE REPORT (1994) AND DWR MAP (1992). UNKNOWN NUMBER OF PLANTS SEEN IN HILL SLOUGH SURVEY DURING 2000 CORDYLANTHUS MOLLIS SSP. MOLLIS SURVEY.

Owner/Manager: UNKNOWN

Occurrence No. 23	Map Index: 66758	EO Index: 7763	Dates Last Seen
Occ Rank: Fair			Element: 1990-07-26
Origin: Natural/Native occurrence			Site: 1990-07-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-10-20

Quad Summary: Rio Vista (3812126/480B)
County Summary: Sacramento

Lat/Long: 38.13348° / -121.68637°	Township: 03N
UTM: Zone-10 N4221440 E615125	Range: 03E
Radius: 80 meters	Section: 06
Elevation: 0 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: ABOUT 2.0 MI S OF RIO VISTA, EAST SIDE SACRAMENTO RIVER NEAR GAS WELLS ALONG HWY 160.
Location Detail: 1.5 MILES SOUTH OF THE RIO VISTA BRIDGE ON THE WEST SIDE OF BRANNON ISLAND. IMMEDIATELY SOUTH OF PULLOUT.
Ecological: SAND AND SILT WITH SIGNIFICANT ORGANIC MATTER CONTENT. ASSOCIATED WITH SCIRPUS ACUTUS, CYPERUS ERAGOSTIS, POLYGONUM, RUMEX, AND VERBENA BONARIENSIS.
Threat: THIS SITE IS THREATENED BY TRAMPLING FROM RECREATIONAL USE.
General: 2 CLUMPS OF 1 BY 1/2 FOOT OBSERVED IN 1986. 5 CLUMPS TOTALLING APPROXIMATELY 75 SQUARE METERS OBSERVED IN 1990. THERE MAY BE ADDITIONAL UNSURVEYED POPULATIONS BETWEEN RIO VISTA BRIDGE AND BRANNON ISLAND BRIDGE.

Owner/Manager: PVT

Lilaeopsis masonii

Mason's lilaeopsis

Element Code: PDAP19030

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G3 **CNPS List:** 1B.1
State: Rare **State:** S3.1

Habitat Associations _____
General: FRESHWATER AND BRACKISH MARSHES, RIPARIAN SCRUB.
Micro: TIDAL ZONES, IN MUDDY OR SILTY SOIL FORMED THROUGH RIVER DEPOSITION OR RIVER BANK EROSION. 0-10M.

Occurrence No. 25 **Map Index:** 22576 **EO Index:** 16464 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1988-XX-XX
Origin: Natural/Native occurrence **Site:** 1988-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1995-12-15

Quad Summary: Liberty Island (3812136/497C)
County Summary: Solano

Lat/Long: 38.29490° / -121.74154° **Township:** 05N
UTM: Zone-10 N4239284 E610047 **Range:** 02E
Area: 91.3 acres **Mapping Precision:**SPECIFIC **Section:** 10 **Qtr:** XX
Elevation: 10 ft **Symbol Type:**POLYGON **Meridian:** M

Location: CACHE SLOUGH, FROM PUMPING STATIONS DOWNSTREAM 1 MILE TOWARDS SE TIP OF PETERS POCKET.
Ecological: IN SPLASH ZONE ALONG THE EAST BANK OF BARKER SLOUGH.
Threat: DISRUPTION OF SPLASH ZONE BY DREDGING POSSIBLE THREAT.
General: 15 CLUSTERS OF THE PLANT; BASED ON NON-FLOWERING SPECIMEN, BUT VERIFIED BY LINCOLN CONSTANCE. 1988 SURVEYS REVEALED MUCH LARGER POPULATION.
Owner/Manager: PVT

Occurrence No. 26 **Map Index:** 10908 **EO Index:** 19975 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1995-08-09
Origin: Natural/Native occurrence **Site:** 1995-08-09
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1995-11-14

Quad Summary: Rio Vista (3812126/480B)
County Summary: Solano, Sacramento

Lat/Long: 38.18241° / -121.65218° **Township:** 04N
UTM: Zone-10 N4226912 E618043 **Range:** 02E
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 21 **Qtr:** XX
Elevation: 1 ft **Symbol Type:**POINT **Meridian:** M

Location: 0.5 MILE EAST OF CONFLUENCE OF STEAMBOAT SLOUGH WITH SACRAMENTO RIVER ON NORTH BANK OF GRAND ISLAND.
Ecological: IN TIDALLY INUNDATED FRESHWATER MARSH BORDERING SLOUGH ON SOD FORMED BY VERBENA HASTATA. ASSOCIATED WITH ALNUS RHOMBIFOLIA AND SALIX.
General: ABOUT 100 PLANTS SEEN IN 1985. PLANTS ALSO SEEN IN THIS AREA IN 1995 (ZEBELL AND FIEDLER, 1996).
Owner/Manager: DOD-COE

Occurrence No. 27 **Map Index:** 10883 **EO Index:** 9610 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1995-08-09
Origin: Natural/Native occurrence **Site:** 1995-08-09
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1995-10-25

Quad Summary: Rio Vista (3812126/480B)
County Summary: Solano

Lat/Long: 38.23361° / -121.66967° **Township:** 05N
UTM: Zone-10 N4232571 E616430 **Range:** 03E
Area: 95.4 acres **Mapping Precision:**SPECIFIC **Section:** 32 **Qtr:** XX
Elevation: 5 ft **Symbol Type:**POLYGON **Meridian:** M

Location: CONFLUENCE OF MINER SLOUGH AND CACHE SLOUGH, SOUTH OF LIBERTY ISLAND.
Ecological: SOUTH-FACING BANKS OF TULE ISLANDS, INUNDATED AT HIGH TIDE AND EXPOSED AT LOW TIDE. ASSOCIATED WITH LIMOSELLA SUBULATA, HYDROCOTYLE VERTICILLATA V. TRIRADIATA, SCIRPUS CALIFORNICUS, PASPALUM DISTICHUM, JUNCUS OXYMERIS, CYPERUS ERAGROSTIS.
General: WILDLIFE AREA. PLANTS ALSO REPORTED IN THIS VICINITY IN 1995 (ZEBELL AND FIEDLER, 1996).
Owner/Manager: DFG-MINER SLOUGH WA

Lilaeopsis masonii

Mason's lilaeopsis

Element Code: PDAP19030

Status Federal: None
 State: Rare
NDDB Element Ranks Global: G3
 State: S3.1
Other Lists CNPS List: 1B.1

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES, RIPARIAN SCRUB.
Micro: TIDAL ZONES, IN MUDDY OR SILTY SOIL FORMED THROUGH RIVER DEPOSITION OR RIVER BANK EROSION. 0-10M.

Occurrence No. 39 **Map Index:** 10853 **EO Index:** 14347 **Dates Last Seen**
Occ Rank: Unknown **Element:** 1990-08-08
Origin: Natural/Native occurrence **Site:** 1990-08-08
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2006-10-17

Quad Summary: Rio Vista (3812126/480B)
County Summary: Sacramento

Lat/Long: 38.13975° / -121.68650° **Township:** 03N
UTM: Zone-10 N4222136 E615104 **Range:** 03E
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 31 **Qtr:** XX
Elevation: 10 ft **Symbol Type:** POINT **Meridian:** M

Location: ALONG HWY 160 APPROXIMATELY 1 MI S OF THE RIO VISTA BRIDGE. WEST EDGE OF BRANNAN ISLAND ALONG THE SACRAMENTO RIVER.
Location Detail: JUST SOUTH OF THE R.V. PARK. SEVERAL DENSE POPULATIONS ALONG THE BEACH BETWEEN OLD PILINGS AND THE LEVEE.
Ecological: ON SAND AND CLAY WITH HIGH ORGANIC MATTER CONTENT.
Threat: RECREATIONAL USE OF AREA AND RIPRAPPING ARE THREATS.
Owner/Manager: PVT

Occurrence No. 40 **Map Index:** 10848 **EO Index:** 19967 **Dates Last Seen**
Occ Rank: Unknown **Element:** 1988-05-01
Origin: Natural/Native occurrence **Site:** 1988-05-01
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1989-08-11

Quad Summary: Rio Vista (3812126/480B)
County Summary: Solano

Lat/Long: 38.24462° / -121.69219° **Township:** 05N
UTM: Zone-10 N4233765 E614441 **Range:** 02E
Radius: 1/5 mile **Mapping Precision:** NON-SPECIFIC **Section:** 30 **Qtr:** XX
Elevation: 15 ft **Symbol Type:** POINT **Meridian:** M

Location: ON 2 ISLANDS S OF LITTLE HASTINGS TRACT, LINDSEY SLOUGH.
Ecological: ON CLAY BANKS SUBJECT TO TIDALLY-MEDIATED FRESHWATER INUNDATION.
Threat: PUMPING FOR NORTH BAY AQUEDUCT WILL INCREASE CHANNEL EROSION.
Owner/Manager: UNKNOWN

Occurrence No. 65 **Map Index:** 26651 **EO Index:** 13880 **Dates Last Seen**
Occ Rank: Unknown **Element:** 1992-XX-XX
Origin: Natural/Native occurrence **Site:** 1992-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-12-03

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.13778° / -121.91140° **Township:** 03N
UTM: Zone-10 N4221662 E595397 **Range:** 01E
Area: 39.0 acres **Mapping Precision:** SPECIFIC **Section:** 06 **Qtr:** NW
Elevation: 5 ft **Symbol Type:** POLYGON **Meridian:** M

Location: MONTEZUMA SLOUGH, NEAR MEINS LANDING, SUISUN MARSH.
Location Detail: MAPPED BY CNDDDB AS 4 COLONIES ALONG BOTH SIDES OF SLOUGH ACCORDING TO A 1992 MAP IN A 1994 DWR REPORT.
Threat: RIP-RAP; PHRAGMITES INVADING.
General: MAP DETAIL IS ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE.
Owner/Manager: UNKNOWN

Lilaeopsis masonii

Mason's lilaeopsis

Element Code: PDAPI19030

----- Status ----- NDDB Element Ranks ----- Other Lists -----
 Federal: None Global: G3 CNPS List: 1B.1
 State: Rare State: S3.1

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES, RIPARIAN SCRUB.
 Micro: TIDAL ZONES, IN MUDDY OR SILTY SOIL FORMED THROUGH RIVER DEPOSITION OR RIVER BANK EROSION. 0-10M.

Occurrence No. 69 Map Index: 21627 EO Index: 14257 Dates Last Seen -----
 Occ Rank: Good Element: 1995-07-26
 Origin: Natural/Native occurrence Site: 1995-07-26
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-02-14

Quad Summary: Rio Vista (3812126/480B)
 County Summary: Sacramento

Lat/Long: 38.16117° / -121.67378° Township: 04N
 UTM: Zone-10 N4224528 E616185 Range: 03E
 Area: Mapping PrecisionNON-SPECIFIC Section: 29 Qtr: XX
 Elevation: 5 ft Symbol Type:POLYGON Meridian: M

Location: BRANNAN ISLAND, 0.5 MILE NORTH OF RIO VISTA BRIDGE ALONG STATE ROUTE 160.
 Ecological: GROWING AT THE INUNDATION LINE IN SUBSTRATE OF SEDIMENTS AND FINES WHICH HAVE BEEN DEPOSITED AMONG SUBSIDED RIP-RAP. ASSOCIATES INCLUDE SCIRPUS CALIFORNICUS, MIMULUS SP., JUNCUS SP., VERBENA BONARIENSIS, AND ASTER LENTUS.
 Threat: LEVEE BANK STABILIZATION POSES THREAT TO THIS POPULATION.
 General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS 1990 OBSERVATION BY MCKEE. PLANTS ALSO REPORTED IN THIS VICINITY IN 1995 (ZEBELL ET AL. 1996). MANAGED BY THE BRANNON-ANDRUS LEVEE DISTRICT.

Owner/Manager: PVT, BRANNON-ANDRUS LEVEE DIST

Occurrence No. 70 Map Index: 22542 EO Index: 22268 Dates Last Seen -----
 Occ Rank: Excellent Element: 1997-05-24
 Origin: Natural/Native occurrence Site: 1997-05-24
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-12-10

Quad Summary: Liberty Island (3812136/497C), Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.26596° / -121.78428° Township: 05N
 UTM: Zone-10 N4236023 E606352 Range: 02E
 Area: 93.5 acres Mapping PrecisionSPECIFIC Section: 19 Qtr: XX
 Elevation: 5 ft Symbol Type:POLYGON Meridian: M

Location: BARKER SLOUGH, CALHOUN CUT, AND LINDSEY SLOUGH: APPROX. 1.5 MILES UP EACH SLOUGH FROM THEIR MUTUAL CONFLUENCE.
 Ecological: ALONG MUDDY BANKS AND INTERTIDAL MUDFLATS GROWING WITH LIMOSELLA SUBULATA, SCIRPUS SP., JUNCUS ACUTUS, HYDROCOTYLE VERTICILLATA VAR. TRIRADIATA, LATHYRUS JEPSONII VAR. JEPSONII, AND ASTER LENTUS.
 Threat: ROCK REVETMENT (RIP-RAP) PROJECT REQUIRED TRANSPLANT OF PORTION OF THIS POPULATION.
 General: 110,000+ PLANTS OBSERVED BY WITHAM AND KAREOFELAS IN 1994. DFG CALHOUN CUT ECOLOGICAL RESERVE PROVIDES PROTECTION FOR CALHOUN CUT AND PORTION OF BARKER SLOUGH. FEW PLANTS REMAIN IN AREA WHERE THE TRANSPLANT OCCURRED.

Owner/Manager: DFG-CALHOUN CUT ER, UNKNOWN

Occurrence No. 72 Map Index: 22575 EO Index: 16465 Dates Last Seen -----
 Occ Rank: Good Element: 2005-08-24
 Origin: Natural/Native occurrence Site: 2005-08-24
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-11-30

Quad Summary: Liberty Island (3812136/497C)
 County Summary: Solano

Lat/Long: 38.31249° / -121.73734° Township: 05N
 UTM: Zone-10 N4241241 E610387 Range: 02E
 Area: 56.5 acres Mapping PrecisionSPECIFIC Section: 03 Qtr: NE
 Elevation: 10 ft Symbol Type:POLYGON Meridian: M

Location: ALONG HASS SLOUGH, FROM DUCK SLOUGH NORTHWEST APPROX. 1 MILE.
 Location Detail: ALSO INTO THE SOUTH 1/2 OF PROJECTED SECTION 34.
 Ecological: GROWING ON LEVEE BANKS AND ISLANDS.
 General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED IN 1988. 1 PATCH (8" X8") OBSERVED AT NORTHWESTERN EDGE OF SITE IN 2005.
 Owner/Manager: UNKNOWN

Lilaeopsis masonii

Mason's lilaeopsis

Element Code: PDAPI19030

Status: _____ NDDB Element Ranks: _____ Other Lists: _____
 Federal: None Global: G3 CNPS List: 1B.1
 State: Rare State: S3.1

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES, RIPARIAN SCRUB.
 Micro: TIDAL ZONES, IN MUDDY OR SILTY SOIL FORMED THROUGH RIVER DEPOSITION OR RIVER BANK EROSION. 0-10M.

Occurrence No. 73 Map Index: 22577 EO Index: 16579 Dates Last Seen: _____
 Occ Rank: Fair Element: 2005-08-24
 Origin: Natural/Native occurrence Site: 2005-08-24
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2005-11-30

Quad Summary: Liberty Island (3812136/497C)
 County Summary: Solano

Lat/Long: 38.29046° / -121.72392° Township: 05N
 UTM: Zone-10 N4238813 E611594 Range: 02E
 Area: 10.1 acres Mapping Precision: SPECIFIC Section: 11 Qtr: SW
 Elevation: 10 ft Symbol Type: POLYGON Meridian: M

Location: AT THE SOUTHEAST TIP OF PETERS POCKET, AT CONFLUENCE OF CACHE SLOUGH AND HASS SLOUGH.
 Location Detail: 2 CNDDB POLYGONS: (1) ON THE VERY SE CORNER OF PETERS POCKET, (2) THE ERODING BASE OF THE OUTBOARD SIDE OF A LEVEE, ON THE EASTERN EDGE OF CACHE SLOUGH/HASS SLOUGH.
 Ecological: LEVEE EDGE, FOUND WITH SALIX LUCIDA, MENTHA ARVENSIS, AND ALNUS RHOMBIFOLIA.
 Threat: A LOT OF TRASH ON SITE (A TELEVISION, LARGE STYROFOAM PIECES).
 General: 1988 MAP DETAIL IS ONLY SOURCE OF INFORMATION FOR COLONY (1). 1 PATCH SEEN AT COLONY (2) IN 2005.
 Owner/Manager: PVT

Occurrence No. 141 Map Index: 26543 EO Index: 16101 Dates Last Seen: _____
 Occ Rank: Unknown Element: 1992-05-XX
 Origin: Natural/Native occurrence Site: 1992-05-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-09-01

Quad Summary: Fairfield South (3812221/482A)
 County Summary: Solano

Lat/Long: 38.13662° / -122.03718° Township: 03N
 UTM: Zone-10 N4221411 E584377 Range: 02W
 Area: 72.9 acres Mapping Precision: SPECIFIC Section: 1 Qtr: XX
 Elevation: 5 ft Symbol Type: POLYGON Meridian: X

Location: SOUTH SHORE OF GRIZZLY ISLAND ALONG GRIZZLY BAY, FROM MONTEZUMA SLOUGH EAST ABOUT 2.7 MILES, SUISUN MARSH.
 General: MAP DETAIL IS ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE.
 Owner/Manager: UNKNOWN

Occurrence No. 148 Map Index: 43687 EO Index: 43687 Dates Last Seen: _____
 Occ Rank: Unknown Element: 1992-06-16
 Origin: Natural/Native occurrence Site: 1992-06-16
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-09-01

Quad Summary: Fairfield South (3812221/482A)
 County Summary: Solano

Lat/Long: 38.19300° / -122.10269° Township: 04N
 UTM: Zone-10 N4227609 E578575 Range: 02W
 Area: 3.2 acres Mapping Precision: SPECIFIC Section: 17 Qtr: XX
 Elevation: 5 ft Symbol Type: POLYGON Meridian: M

Location: SUISUN CREEK, ALONG MOUTH OF CREEK AS IT ENTERS MARSH, SUISUN MARSH.
 Location Detail: MAPPED 1.9 MILES WEST OF JACKSNIPPE STATION ALONG SPRR.
 General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL.
 Owner/Manager: UNKNOWN

Lilaeopsis masonii

Mason's lilaeopsis

Element Code: PDAPI19030

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 1B.1
State: Rare	State: S3.1	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES, RIPARIAN SCRUB.
Micro: TIDAL ZONES, IN MUDDY OR SILTY SOIL FORMED THROUGH RIVER DEPOSITION OR RIVER BANK EROSION. 0-10M.

Occurrence No. 153	Map Index: 43721	EO Index: 43721	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-07

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.20523° / -121.91194°	Township: 04N
UTM: Zone-10 N4229145 E595263	Range: 01E
Area: 226.3 acres	Section: 07
Elevation: 0 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: NORTH OF BRADMOOR ISLAND ALONG NURSE SLOUGH, DENVERTON SLOUGH, AND LUCO SLOUGH; SUISUN MARSH.
Location Detail: NUMEROUS COLONIES MAPPED ALONG SLOUGHS.
General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL FROM DWR (1992, 1994) AND STATE LANDS COMMISSION (1999).
Owner/Manager: UNKNOWN

Occurrence No. 154	Map Index: 43722	EO Index: 43722	Dates Last Seen
Occ Rank: Unknown			Element: 1992-05-19
Origin: Natural/Native occurrence			Site: 1992-05-19
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-07

Quad Summary: Denverton (3812128/481B), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.16702° / -122.00050°	Township: 04N
UTM: Zone-10 N4224818 E587554	Range: 01W
Area: 6.0 acres	Section: 29
Elevation: 10 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: GRIZZLY ISLAND, ALONG TREE SLOUGH ABOUT 1.1 MILE SOUTH OF MONTEZUMA SLOUGH, SUISUN MARSH.
Location Detail: MAPPED BY CNDDDB ACCORDING TO DWR MAP.
General: ONLY SOURCE OF INFORMATION IS MAP DETAIL FROM DWR.
Owner/Manager: UNKNOWN

Occurrence No. 155	Map Index: 43723	EO Index: 43723	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-08-28

Quad Summary: Denverton (3812128/481B), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.18602° / -121.96812°	Township: 04N
UTM: Zone-10 N4226958 E590368	Range: 01W
Area: 928.5 acres	Section: 15
Elevation: 0 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: NORTH SIDE OF GRIZZLY ISLAND ALONG MONTEZUMA SLOUGH, INCL NURSE SLOUGH, CROSS SLOUGH, AND HASTING SLOUGH; SUISUN MARSH.
Location Detail: LARGE AREA: ALONG MONTEZUMA SLOUGH FROM 0.5 MILE N OF MEINS LANDING TO 1 MILE E OF HUNTER CUT, NURSE SLOUGH W OF BRADMOOR ISLAND, ENTIRE LENGTH OF CROSS SLOUGH, & LOWER PORTION OF HASTING SLOUGH. NEED OVERLAY OR GIS COVERAGE TO APPRECIATE.
General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL FROM DWR (1992, 1994) AND STATE LANDS COMMISSION (1999).
Owner/Manager: UNKNOWN

Lilaeopsis masonii

Mason's lilaeopsis

Element Code: PDAPI19030

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 1B.1
State: Rare	State: S3.1	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES, RIPARIAN SCRUB.
Micro: TIDAL ZONES, IN MUDDY OR SILTY SOIL FORMED THROUGH RIVER DEPOSITION OR RIVER BANK EROSION. 0-10M.

Occurrence No. 156	Map Index: 43724	EO Index: 43724	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-07

Quad Summary: Fairfield South (3812221/482A), Vine Hill (3812211/482D)
County Summary: Solano

Lat/Long: 38.12258° / -122.06864°	Township: 03N
UTM: Zone-10 N4219825 E581635	Range: 02W
Area: 68.7 acres	Section: 10
Elevation: 0 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: SOUTHERN TIP OF JOICE ISLAND AT MOUTH OF SUISUN SLOUGH, SUISUN MARSH.
Location Detail: SEVERAL COLONIES ALONG SOUTHERN AND SOUTHEASTERN TIP OF JOICE ISLAND, ONE COLONY ON ADJACENT SHORE OF MORROW ISLAND.
General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL FROM DWR-ENVIRONMENTAL SERVICES OFFICE (1994).
Owner/Manager: UNKNOWN

Occurrence No. 179	Map Index: 70526	EO Index: 71430	Dates Last Seen
Occ Rank: Unknown			Element: 1992-05-19
Origin: Natural/Native occurrence			Site: 1992-05-19
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-11-27

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.16057° / -121.99501°	Township: 04N
UTM: Zone-10 N4224108 E588043	Range: 01W
Area: 7.0 acres	Section: 29
Elevation: 3 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: GRIZZLY ISLAND, ALONG TREE SLOUGH ABOUT 1.8 MILES S OF MONTEZUMA SLOUGH, SUISUN MARSH.
Location Detail: MAPPED BY CNDDB ACCORDING TO DWR MAP.
General: ONLY SOURCE OF INFORMATION IS MAP DETAIL FROM DWR.
Owner/Manager: UNKNOWN

Occurrence No. 183	Map Index: 70545	EO Index: 71451	Dates Last Seen
Occ Rank: Unknown			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-12-03

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.12720° / -121.91627°	Township: 03N
UTM: Zone-10 N4220483 E594985	Range: 01W
Area: 15.0 acres	Section: 01
Elevation: 4 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: MONTEZUMA SLOUGH, ABOUT 1 MILE SW OF MEINS LANDING ON THE SE PORTION OF GRIZZLY ISLAND, SUISUN MARSH.
Location Detail: MAPPED BY CNDDB AS 2 COLONIES ALONG W SIDE OF SLOUGH ACCORDING TO A 1992 MAP IN A 1994 DWR REPORT.
General: MAP DETAIL IS ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE.
Owner/Manager: UNKNOWN

Lilaeopsis masonii

Mason's lilaeopsis

Element Code: PDAP19030

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 1B.1
State: Rare	State: S3.1	

Habitat Associations

General: FRESHWATER AND BRACKISH MARSHES, RIPARIAN SCRUB.

Micro: TIDAL ZONES, IN MUDDY OR SILTY SOIL FORMED THROUGH RIVER DEPOSITION OR RIVER BANK EROSION. 0-10M.

Occurrence No. 185	Map Index: 70547	EO Index: 71453	Dates Last Seen
Occ Rank: Fair			Element: 1992-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-11-28

Quad Summary: Honker Bay (3812118/481C), Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.10333° / -121.89075°	Township: 03N
UTM: Zone-10 N4217861 E597253	Range: 01E
Area: 199.0 acres	Section: 17
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: MONTEZUMA SLOUGH, FROM NEAR MOLENA TO NEAR MONTEZUMA, SUISUN MARSH.

Location Detail: MAPPED BY CNDDDB AS MULTIPLE COLONIES ALONG BOTH SIDES OF SLOUGH ACCORDING TO A 1992 MAP IN A 1994 DWR REPORT AND 2 RUYGT FIELD SURVEY FORMS. COLONIES SCATTERED ALONG A 4 MILE STRETCH OF THE SLOUGH.

Ecological: ESTUARINE, SALT MARSH/BANK OF LEVEE, INTERTIDAL. DOMINANTS: SCIRPUS ACUTUS, PHRAGMITES COMMUNIS, JUNCUS LESUEURII. ALSO ASSOCIATED: SOLDIAGO OCCIDENTALIS, LATHYRUS JEPSONII JEPSONII, DESCHAMPSIA CESPITOSA.

Threat: AT LEAST SOME PORTIONS OF POPULATION HAVE SOME RIP-RAP AND ARE INVADDED BY PHRAGMITES.

General: INCLUDES FORMER OCCURRENCE #66.

Owner/Manager: PVT-CATELLUS CORP, OTHER?

Limosella subulata

Delta mudwort

Element Code: PDSCR10050

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G4?Q State: S2.1	CNPS List: 2.1

Habitat Associations

General: RIPARIAN SCRUB, FRESHWATER MARSH, BRACKISH MARSH. PROBABLY THE RAREST OF THE SUITE OF DELTA RARE PLANTS.
Micro: USUALLY ON MUD BANKS OF THE DELTA IN MARSHY OR SCRUBBY RIPARIAN ASSOCIATIONS; OFTEN WITH LILAEOPSIS MASONII. 0-3M.

Occurrence No. 4	Map Index: 17168	EO Index: 12056	Dates Last Seen
Occ Rank: Good			Element: 1997-05-24
Origin: Transplant Outside of Native Hab./Range			Site: 1997-05-24
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-11-01

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.26424° / -121.78366°	Township: 05N
UTM: Zone-10 N4235833 E606408	Range: 02E
Radius: 80 meters	Section: 20
Elevation: 0 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: CALHOUN CUT ECOLOGICAL RESERVE, ALONG BARKER SLOUGH, ABOUT 0.6 MILE WEST OF JUNCTION WITH HASTINGS TRACT.
Ecological: MUDDY BANKS WITH LILAEOPSIS MASONII, HYDROCOTYLE VERTICILLATA, SCIRPUS CERNUUS, AND JUNCUS ACUTUS.
General: THIS IS AN EXPERIMENTAL PLOT FOR LILAEOPSIS MASONII TRANSPLANTED FROM ACROSS THE SLOUGH (CIRCA 1987). SITE WAS MONITORED FOR FIVE YEARS. MUCH OF SITE NATURAL AND IN EXCELLENT CONDITION. TRANSPLANT AREAS ERODED BUT WITH MANY
Owner/Manager: DFG-CALHOUN CUT ER

Occurrence No. 6	Map Index: 20602	EO Index: 6290	Dates Last Seen
Occ Rank: Excellent			Element: 1994-07-XX
Origin: Natural/Native occurrence			Site: 1994-07-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-11-01

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.25913° / -121.79994°	Township: 05N
UTM: Zone-10 N4235247 E604991	Range: 02E
Area: 30.6 acres	Section: 19
Elevation: 0 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: S
Symbol Type: POLYGON	

Location: CALHOUN CUT ECOLOGICAL RESERVE, FROM JUST EAST OF HIGHWAY 113, EXTENDING EAST FOR 1.45 MILES.
Location Detail: MAPPED AS 5 POLYGONS ALONG BOTH SIDES OF SLOUGH. ALSO IN S 1/2 OF SECTION 20.
Ecological: ON MUDDY BANKS WITH HYDROCOTYLE VERTICILLATA, SCIRPUS CERNUUS. OTHER RARE PLANTS IN THIS AREA INCLUDE LILAEOPSIS MASONII, AND OCCASIONAL ASTER LENTUS AND LATHYRUS JEPSONII JEPSONII.
General: OVER 1000 PLANTS ESTIMATED IN 1994. PLANTS PROBABLY OCCUR SPORADICALLY ALL ALONG THIS SECTION OF CALHOUN CUT; DIFFICULT TO DISTINGUISH FROM LILAEOPSIS MASONII WITHOUT VERY CLOSE INSPECTION (WITHAM 1994).
Owner/Manager: DFG-CALHOUN CUT ER

Occurrence No. 7	Map Index: 10883	EO Index: 9611	Dates Last Seen
Occ Rank: Unknown			Element: 1990-08-20
Origin: Natural/Native occurrence			Site: 1990-08-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-11-13

Quad Summary: Rio Vista (3812126/480B)

County Summary: Solano

Lat/Long: 38.23361° / -121.66967°	Township: 05N
UTM: Zone-10 N4232571 E616430	Range: 03E
Area: 95.4 acres	Section: 32
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: MINER SLOUGH WILDLIFE AREA, CONFLUENCE OF MINER SLOUGH AND CACHE SLOUGH, SOUTH OF LIBERTY ISLAND.
Ecological: ON SOUTH-FACING BANKS OF TULE ISLANDS, INUNDATED AT HIGH TIDE AND EXPOSED AT LOW TIDE. ASSOCIATED WITH LILAEOPSIS MASONII, HYDROCOTYLE VERTICILLATA, SAMOLUS FLORIBUNDUS, SCIRPUS, PASPALUM, JUNCUS CYPERUS, ELEOCHARIS, AND HYPERICUM.
General: OBSERVED 1985 AND 1990 DURING LILAEOPSIS MASONII SURVEYS.
Owner/Manager: DFG-MINER SLOUGH WA

Limosella subulata

Delta mudwort

Element Code: PDSCR10050

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4?Q	CNPS List: 2.1
State: None	State: S2.1	

Habitat Associations

General: RIPARIAN SCRUB, FRESHWATER MARSH, BRACKISH MARSH. PROBABLY THE RAREST OF THE SUITE OF DELTA RARE PLANTS.
Micro: USUALLY ON MUD BANKS OF THE DELTA IN MARSHY OR SCRUBBY RIPARIAN ASSOCIATIONS; OFTEN WITH LILAEOPSIS MASONII. 0-3M.

Occurrence No. 21	Map Index: 10855	EO Index: 7761	Dates Last Seen
Occ Rank: Unknown			Element: 1990-07-26
Origin: Natural/Native occurrence			Site: 1990-07-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1993-12-29

Quad Summary: Rio Vista (3812126/480B)
County Summary: Sacramento

Lat/Long: 38.13517° / -121.68693°	Township: 03N
UTM: Zone-10 N4221627 E615074	Range: 03E
Radius: 80 meters	Section: 6 Qtr: XX
Elevation: 0 ft	Meridian: M
Mapping Precision: SPECIFIC	
Symbol Type: POINT	

Location: EAST BANK OF SACRAMENTO RIVER, 2.5 KM (1.5 MI) SOUTH OF THE RIO VISTA BRIDGE.
Location Detail: SANDY BEACH 1.5 MILES SOUTH OF JUNCTION OF HWY 160 AND HWY 12 ON THE WEST SHORE OF BRANNON ISLAND.
Ecological: GROWING IN ASSOCIATION WITH ASTER LENTUS, LILAEOPSIS MASONII, MIMULUS GUTTATUS, SCIRPUS, PHRAGMITES, POLYGONUM, JUNCUS, CYPERUS, PLANTAGO, CYNODON, HELENIUM, PASPALUM, ARUNDO, SALIX, DISTICHLIS, VERBENA, AND EQUISETUM.
Threat: SITE THREATENED BY TRAMPLING ASSOCIATED WITH RECREATIONAL USE.
General: OBSERVED DURING LILAEOPSIS MASONII SURVEY IN 1990. AREA BETWEEN SITE AND BRIDGE IS UNSURVEYED, ADDITIONAL PLANTS MAY OCCUR.

Owner/Manager: PVT

Occurrence No. 22	Map Index: 26547	EO Index: 5215	Dates Last Seen
Occ Rank: Good			Element: 1994-07-XX
Origin: Natural/Native occurrence			Site: 1994-07-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-11-01

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26597° / -121.78649°	Township: 05N
UTM: Zone-10 N4236021 E606158	Range: 02E
Radius: 80 meters	Section: 20 Qtr: XX
Elevation: 0 ft	Meridian: M
Mapping Precision: SPECIFIC	
Symbol Type: POINT	

Location: BARKER SLOUGH, APPROX 0.85 MI W OF JUNCTION WITH HASTINGS CUT, CALHOUN CUT ECOLOGICAL RESERVE.
Ecological: FOUND IN TIDAL ZONE OF SLOUGH, PRIMARILY ON CLAYEY-SILTY FLATS WITH LILAEOPSIS MASONII, HYDROCOTYLE VERTICILLATA, AND SCIRPUS CERNUUS. OCCASIONALLY WITH DENSER S. ACUTUS MARSH.

Owner/Manager: DFG-CALHOUN CUT ER

Linderiella occidentalis

California linderiella

Element Code: ICBRA06010

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G3 State: S2S3	CDFG Status:

Habitat Associations

General: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.
Micro: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Occurrence No. 86	Map Index: 32548	EO Index: 1702	Dates Last Seen
Occ Rank: Unknown			Element: 1993-02-07
Origin: Natural/Native occurrence			Site: 1993-02-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-12-01

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.30644° / -121.79641°	Township: 05N
UTM: Zone-10 N4240501 E605232	Range: 02E
Radius: 80 meters	Section: 06
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: NE OF DOZIER; SW CORNER OF BROWN ROAD X SALEM ROAD.

Ecological: TURBID ROADSIDE POND.

General: 5+ INDIVIDUALS OBSERVED.

Owner/Manager: UNKNOWN

Occurrence No. 87	Map Index: 32549	EO Index: 1703	Dates Last Seen
Occ Rank: Unknown			Element: 1993-02-07
Origin: Natural/Native occurrence			Site: 1993-02-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-12-01

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.28742° / -121.79637°	Township: 05N
UTM: Zone-10 N4238390 E605263	Range: 02E
Radius: 80 meters	Section: 07
Elevation: 13 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: EAST OF DOZIER; ON WEST SIDE OF SALEM ROAD, 2.1 KM S OF BROWN ROAD X SALEM ROAD.

Ecological: ROADSIDE DITCH ADJACENT TO HORSE PASTURE; TURBID POOL CHOKED WITH ALGAE.

General: 20+ INDIVIDUALS OBSERVED AT POOL.

Owner/Manager: UNKNOWN

Occurrence No. 189	Map Index: 47126	EO Index: 47126	Dates Last Seen
Occ Rank: Good			Element: 2002-01-15
Origin: Natural/Native occurrence			Site: 2002-01-15
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-01-30

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.34366° / -121.82289°	Township: 06N
UTM: Zone-10 N4244601 E602864	Range: 01E
Radius: 80 meters	Section: 25
Elevation: 30 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: 0.6 MILE SW OF BINGHAMPTON; 0.5 MILE NORTH OF FRY ROAD, EAST SIDE OF SR 113.

Ecological: HABITAT CONSISTS OF OPEN GRASSLAND. SURROUNDING LAND USED FOR GRAZING SHEEP AND LLAMAS.

Threat: THREAT CONSISTS OF HIGHWAY REALIGNMENT AND IMPROVEMENTS.

General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED AT POOL #10 ON 15 JAN 2002.

Owner/Manager: UNKNOWN

Linderiella occidentalis

California linderiella

Element Code: ICBRA06010

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G3 State: S2S3	CDFG Status:

Habitat Associations

General: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.
Micro: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Occurrence No. 190	Map Index: 47127	EO Index: 47127	Dates Last Seen
Occ Rank: Fair			Element: 2002-01-14
Origin: Natural/Native occurrence			Site: 2002-01-14
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-01-30

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.22814° / -121.91434°	Township: 04N
UTM: Zone-10 N4231685 E595023	Range: 01E
Radius: 80 meters	Section: 06
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: 0.9 MILE NW OF DENVERTON; 0.5 MI WEST OF DENVERTON RD. SOUTH SIDE OF SR 12.
Ecological: HABITAT CONSISTS OF OPEN GRASSLAND.
Threat: THREATENED BY ROAD MODIFICATIONS.
General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED AT POOL #28 ON 14 JAN 2002.
Owner/Manager: CALTRANS

Occurrence No. 191	Map Index: 47128	EO Index: 47128	Dates Last Seen
Occ Rank: Fair			Element: 2002-01-15
Origin: Natural/Native occurrence			Site: 2002-01-15
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-01-30

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.20951° / -121.87885°	Township: 04N
UTM: Zone-10 N4229655 E598154	Range: 01E
Area: 6.5 acres	Section: 09
Elevation: 90 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: 1.4 MILES SW OF DENVERTON; 0.9 MILE SE OF INTERSECTION OF SR 12 WITH SHILOH/LAMBIE ROAD.
Location Detail: FOUND ON BOTH SIDES OF SR 12.
Ecological: HABITAT CONSISTS OF OPEN GRASSLAND.
Threat: ROAD AND SHOULDER MODIFICATIONS.
General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED AT POOL NUMBERS 75A AND 75B ON 15 JAN 2002.
Owner/Manager: CALTRANS

Occurrence No. 202	Map Index: 43444	EO Index: 48422	Dates Last Seen
Occ Rank: Good			Element: 2002-03-18
Origin: Natural/Native occurrence			Site: 2002-04-01
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-08-01

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.27172° / -121.98603°	Township: 05N
UTM: Zone-10 N4236450 E588695	Range: 01W
Area: 15.2 acres	Section: 21
Elevation: 45 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: APPROXIMATELY 2.5 MILES WEST OF TRAVIS FIELD; FIELD AT SE CORNER OF AIRBASE PARKWAY AND WALTERS ROAD.
Location Detail: 2 POOLS (27-14 AND 27-14A) ADJACENT TO AIRBASE PARKWAY AND 1 POOL (27-09) ADJACENT TO WALTERS ROAD.
Ecological: HABITAT CONSISTS OF NATURAL VERNAL POOLS IN A GRASSLAND GRAZED BY CATTLE. LEPIDURUS PACKARDI IN 2 POOLS. OTHER FAUNA INCLUDES EPHEMEROPTERA, OSTRACODA, CLADOCERA, CORIXIDA, GASTROPODA AND HYLEA REGILLA.
Threat: PARCEL IS ISOLATED FROM OTHER VERNAL POOL HABITAT BY DEVELOPMENT.
General: UNKNOWN NUMBER OBSERVED BETWEEN JAN AND MAR OF 2002.
Owner/Manager: PVT

Linderiella occidentalis

California linderiella

Element Code: ICBRA06010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.
Micro: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Occurrence No. 203	Map Index: 48426	EO Index: 48426	Dates Last Seen
Occ Rank: Fair			Element: 2003-01-31
Origin: Natural/Native occurrence			Site: 2003-02-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-03-02

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.32484° / -121.78215°	Township: 06N
UTM: Zone-10 N4242559 E606452	Range: 02E
Area: 56.0 acres	Section: 32
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: 2.9 TO 3.7 MILES NE OF DOZIER; ALONG ABANDONED SACRAMENTO NORTHERN ELECTRIC RAILROAD GRADE.
Location Detail: ALONG GRADE BETWEEN MAINE PRAIRIE SLOUGH AND HAAS SLOUGH; SITES 41-01, 41-09, 41-02, 41-04, 41-05, 41-06, 41-07, 42-01, 42-03, 42-04, AND 42-05.
Ecological: HABITAT (DISTURBED) CONSISTS OF SEASONALLY PONDED DEPRESSIONS (DITCHES, BORROW PITS & POSSIBLY 1 NATURAL VERNAL POOL) IN A LINEAR ARRANGEMENT ALONG RAILROAD RIGHT-OF-WAY (DIRT ACCESS RD). SOME POOLS UNVEGETATED, SOME W/CATTAILS, COCKLEBUR.
Threat: THREATS INCLUDE DISKING / GRADING AND REGULAR DISTURBANCE SUCH AS VEHICULAR TRAFFIC.
General: UNKNOWN NUMBER OBSERVED, JAN-MAR 2002. B. LYNCHI PRESENT AT SITE 42-01. UNKNOWN NUMBER OBSERVED (SITE 41-03), 15 JAN 2003 AND 31 JAN 2003; POOL WAS DRY BY 12 FEB 2003.

Owner/Manager: UNKNOWN

Occurrence No. 204	Map Index: 48427	EO Index: 48427	Dates Last Seen
Occ Rank: Poor			Element: 2002-02-19
Origin: Natural/Native occurrence			Site: 2002-02-19
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-08-02

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.34358° / -121.76545°	Township: 06N
UTM: Zone-10 N4244658 E607884	Range: 02E
Area: 28.7 acres	Section: 28
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: 4.7 TO 5.1 MILES NE OF DOZIER; ALONG WEST SIDE OF ABANDONED SACRAMENTO NORTHERN ELECTRIC RAILROAD GRADE.
Location Detail: SITE 43-03; EXTENDS NE ALONG GRADE FROM NORTON ROAD.
Ecological: HABITAT CONSISTS OF A SEASONALLY PONDED, NATURAL LINEAR DEPRESSION IN AN AGRICULTURAL FIELD. POOL VEGETATED MAINLY BY AGRICULTURAL GRASSES.
Threat: THREAT INCLUDES DISKING AND AGRICULTURAL ACTIVITIES.
General: UNKNOWN NUMBER OBSERVED ON 19 FEB 2002

Owner/Manager: PVT

Linderiella occidentalis

California linderiella

Element Code: ICBRA06010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.
Micro: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Occurrence No. 205	Map Index: 48428	EO Index: 48428	Dates Last Seen
Occ Rank: Good			Element: 2003-01-16
Origin: Natural/Native occurrence			Site: 2003-01-16
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-12-23

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.31418° / -121.86968°	Township: 05N
UTM: Zone-10 N4241279 E598815	Range: 01E
Radius: 80 meters	Section: 04
Elevation: 45 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: 3.5 MILES NW OF DOZIER; SW CORNER OF INTERSECTION OF HAY ROAD AND DALLY ROAD. EAST OF TRAVIS AFB.

Location Detail: SITE 36-20

Ecological: HABITAT CONSISTS OF SHALLOW, SHORT-LIVED, NATURAL VERNAL POOL IN A GRASSLAND GRAZED BY CATTLE. CONTIGUOUS WITH OTHER GRASSLAND/VERNAL POOL HABITAT TO THE SOUTH & EAST. BRACHINECTA LYNCHI & B. MESOVALLENSIS IN NEARBY VERNAL POOLS.

General: UNKNOWN NUMBER OBSERVED 1 AND 11 JAN OF 2002.

Owner/Manager: PVT

Occurrence No. 206	Map Index: 48434	EO Index: 48434	Dates Last Seen
Occ Rank: Fair			Element: 2003-01-15
Origin: Natural/Native occurrence			Site: 2003-01-15
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-12-23

Quad Summary: Liberty Island (3812136/497C), Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.35739° / -121.75320°	Township: 06N
UTM: Zone-10 N4246205 E608933	Range: 02E
Area: 122.6 acres	Section: 21
Elevation: 18 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: 5.5 MILES NW OF DOZIER; EXTENDING 4.4 MILES NW FROM BUNKER ALONG ABANDONED SACRAMENTO NORTHERN ELECTRIC RAILROAD GRADE.

Location Detail: LOCATED BETWEEN BINGHAMTON ROAD (TO THE SOUTH) AND DEHLI ROAD (TO THE NORTH). SOUTHERN SECTION: 27 POOLS. MIDDLE SECTION: 16 POOLS. NORTHERN SECTION: 12 POOLS.

Ecological: HABITAT CONSISTS OF STRING OF SEASONALLY PONDED POOLS. MOST POOLS ARE BORROW PITS/DITCHES. A FEW NATURALLY OCCURRING VERNAL POOLS LOCATED IN SECTION 15 WITHIN A CATTLE GRAZED GRASSLAND. SOME AREAS GRAZED BY SHEEP/GOATS.

Threat: THREAT INCLUDES GRAZING OF SOME AREAS BY SHEEP/GOATS.

General: UNKNOWN NUMBER OBSERVED BETWEEN JAN AND FEB 2002, AND JAN 2003. MOST OF HABITAT SURROUNDING CORRIDOR IS UNDER AGRICULTURAL PRODUCTION.

Owner/Manager: UNKNOWN

Linderiella occidentalis

California linderiella

Element Code: ICBRA06010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.
Micro: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Occurrence No. 207	Map Index: 48444	EO Index: 48444	Dates Last Seen
Occ Rank: Poor			Element: 2003-01-XX
Origin: Natural/Native occurrence			Site: 2003-01-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-12-23

Quad Summary: Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.25468° / -122.02362°	Township: 05N
UTM: Zone-10 N4234523 E585427	Range: 01W
Area: 19.5 acres	Section: 30
Elevation: 20 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: NE OF FAIRFIELD; FROM LAUREL CREEK TO 0.4 MILES SW ALONG THE UNION PACIFIC RAILROAD GRADE.
Location Detail: SITES 25-09, 25-10, 25-12 AND 25-13.
Ecological: HABITAT CONSISTS OF SEASONALLY PONDED DEPRESSIONS AND RAILROAD BORROW PITS ALONG RAILROAD RIGHT-OF-WAY. SURROUNDING AREA COMPRISED OF RESIDENTIAL AND COMMERCIAL DEVELOPMENTS. CYZICUS CALIFORNICUS PRESENT IN ONE POOL.
General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED ON 28 DEC 2001; 8, 24 JAN 2002; 6, 20 FEB 2002; & 5 MAR 2002. A FEW OBSERVED JAN 2003.
Owner/Manager: UNKNOWN

Occurrence No. 211	Map Index: 48455	EO Index: 48455	Dates Last Seen
Occ Rank: Poor			Element: 2003-01-XX
Origin: Natural/Native occurrence			Site: 2003-01-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-12-23

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.24749° / -122.03524°	Township: 05N
UTM: Zone-10 N4233715 E584418	Range: 02W
Area: 15.9 acres	Section: 25
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: JUST NORTH OF SUISUN CITY; 0.2 MILES NORTH OF HWY 12, ALONG RAILROAD GRADE.
Location Detail: SITE NUMBER 24-04 & 24-05B; 315 FT SE OF UNION PACIFIC RAILROAD GRADE IN A DEPRESSION NORTH OF DIRT ROAD.
Ecological: HABITAT CONSISTS OF SEASONALLY PONDED, ARTIFICIALLY EXCAVATED DEPRESSIONS DOMINATED BY COCKLEBUR. THE SURROUNDING AREA IS AN UNDEVELOPED LOT WITH RUDERAL VEGETATION. SITE IS ISOLATED FROM NATURAL VERNAL POOL HABITAT BY DEVELOPMENT.
General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED ON 8, 24 JAN 2002 AND 6, 20 FEB 2002. FEW OBSERVED IN JAN 2003.
Owner/Manager: UNKNOWN

Occurrence No. 212	Map Index: 48496	EO Index: 48496	Dates Last Seen
Occ Rank: Good			Element: 2003-01-14
Origin: Natural/Native occurrence			Site: 2003-01-14
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-12-23

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.45207° / -121.66720°	Township: 07N
UTM: Zone-10 N4256816 E616296	Range: 03E
Area: 103.3 acres	Section: 17
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: 0.4 TO 2 MILES SW OF SAXON; FROM 0.1 MILE NORTH TO 1.5 MILES SOUTH OF ROAD 38 ALONG RAIROAD GRADE.
Location Detail: OBSERVED AT 28 DIFFERENT SITES ALONG BOTH SIDES OF THE SACRAMENTO NORTHERN ELECTRIC RAILROAD GRADE.
Ecological: HABITAT CONSISTS OF SEASONALLY PONDED DEPRESSIONS (BORROW PITS, DITCHES) AND SOME NATURAL VERNAL POOLS IN A GRASSLAND GRAZED BY CATTLE. NATURAL TOPOGRAPHY MAINLY ABSENT. BRANCHINECTA LYNCHI AND LEPIDURUS PACKARDI PRESENT.
General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED BETWEEN 3 JAN 2002 - 2 APR 2002, AND JAN 2003.
Owner/Manager: DFG

Linderiella occidentalis

California linderiella

Element Code: ICBRA06010

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G3 **CDFG Status:**
 State: None **State:** S2S3

Habitat Associations

General: SEASONAL POOLS IN UNFLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.
Micro: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Occurrence No. 213 **Map Index:** 48497 **EO Index:** 48497 **Dates Last Seen** _____
Occ Rank: Poor **Element:** 2002-01-14
Origin: Natural/Native occurrence **Site:** 2002-01-14
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2002-08-07

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.42764° / -121.68946° **Township:** 07N
UTM: Zone-10 N4254077 E614392 **Range:** 03E
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 30 **Qtr:** NW
Elevation: 20 ft **Symbol Type:**POINT **Meridian:** M

Location: 1.4 MILES NE OF YOLANO; 0.3 MILES SE OF THOMSEN ROAD, NORTH OF UNNAMED SLOUGH & EAST OF NORTHERN ELECTRIC RAILROAD GRADE

Location Detail: SITE NUMBERS 50-09 AND 50-10.

Ecological: HABITAT CONSISTS OF 2 SMALL ARTIFICIALLY CREATED DEPRESSIONS THAT SEASONALLY POND RAINWATER. AREA IS GENERALLY DISTURBED AND SURROUNDING LAND IS UNDER AGRICULTURAL PRODUCTION.

General: UNKNOWN NUMBER OF INDIVIDUALS OBSERVED ON 14 JAN 2002.

Owner/Manager: UNKNOWN

Occurrence No. 236 **Map Index:** 59073 **EO Index:** 59109 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1997-02-11
Origin: Natural/Native occurrence **Site:** 1997-02-11
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-01-03

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.41505° / -121.93386° **Township:** 07N
UTM: Zone-10 N4252406 E593074 **Range:** 01W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 36 **Qtr:** XX
Elevation: 95 ft **Symbol Type:**POINT **Meridian:** M

Location: ABOUT 0.1 MI SOUTH OF INTERSECTION OF LEISURE TOWN ROAD AND MIDWAY ROAD

Location Detail: IN POOLS #2 AND #3, NORTH VILLAGE PROJECT SITE.

Ecological: ANNUAL GRASSLAND WITH SEASONALLY PONDED WETLANDS GRAZED BY CATTLE

Threat: GRAZING, AGRICULTURE PRACTICES, POTENTIAL DEVELOPMENT

General: UNKNOWN NUMBER OBSERVED BETWEEN 7 JAN & 11 FEB 1997.

Owner/Manager: PVT

Occurrence No. 237 **Map Index:** 59074 **EO Index:** 59110 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1997-02-11
Origin: Natural/Native occurrence **Site:** 1997-02-11
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-01-03

Quad Summary: Allendale (3812148/498B)

County Summary: Solano

Lat/Long: 38.41183° / -121.94427° **Township:** 07N
UTM: Zone-10 N4252038 E592170 **Range:** 01W
Radius: 80 meters **Mapping Precision:**SPECIFIC **Section:** 35 **Qtr:** XX
Elevation: 100 ft **Symbol Type:**POINT **Meridian:** M

Location: ABOUT 0.1 MI EAST OF THE INTERSECTION OF I-505 AND GIBSON CANYON CREEK (NORTH FORK).

Location Detail: IN POOL #7 AT NORTH VILLAGE PROJECT SITE, VACAVILLE.

Ecological: ANNUAL GRASSLAND WITH SEASONALLY PONDED WETLANDS GRAZED BY CATTLE

Threat: GRAZING, AGRICULTURE PRACTICES, POTENTIAL DEVELOPMENT

General: UNKNOWN NUMBER OBSERVED BETWEEN 7 JAN & 11 FEB 1997.

Owner/Manager: PVT

Melospiza melodia maxillaris

Suisun song sparrow

Element Code: ABPBXA301K

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5T2 **CDFG Status:** SC
 State: None **State:** S2

Habitat Associations

General: RESIDENT OF BRACKISH-WATER MARSHES SURROUNDING SUISUN BAY.
Micro: INHABITS CATTAILS, TULE AND OTHER SEDGES, AND SALICORNIA; ALSO KNOWN TO FREQUENT TANGLES BORDERING SLOUGHS.

Occurrence No. 10 **Map Index:** 10187 **EO Index:** 24622 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1986-XX-XX
Origin: Natural/Native occurrence **Site:** 1986-XX-XX
Presence: Presumed Extant
Trend: Increasing **Record Last Updated:** 2005-02-24

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38,18826° / -121.93230° **Township:** 04N
UTM: Zone-10 N4227242 E593502 **Range:** 01W
Radius: 4/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 13 **Qtr:** XX
Elevation: 8 ft **Symbol Type:**POINT **Meridian:** M

Location: NURSE SLOUGH MARSH, SE OF POTRERO HILLS, APPROXIMATELY 3 MI SW OF RIO VISTA JUNCTION.
Location Detail: 483 PAIRS ESTIMATED IN BRACKISH MARSH.
General: COMPILATION OF 1976-1986 DATA.
Owner/Manager: UNKNOWN

Occurrence No. 11 **Map Index:** 09868 **EO Index:** 14643 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 2004-05-06
Origin: Natural/Native occurrence **Site:** 2004-05-06
Presence: Presumed Extant
Trend: Increasing **Record Last Updated:** 2005-03-08

Quad Summary: Denverton (3812128/481B), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38,19554° / -122.01103° **Township:** 04N
UTM: Zone-10 N4227973 E586598 **Range:** 01W
Area: 1,305.7 acres **Mapping Precision:**SPECIFIC **Section:** 18 **Qtr:** XX
Elevation: _____ **Symbol Type:**POLYGON **Meridian:** M

Location: CUTOFF SLOUGH MARSH, ON SE SIDE POTRERO HILLS, APPROX 4 MI S OF FAIRFIELD.
Location Detail: CAS (1915-1917): LOCATION GIVEN AS "SUISUN MARSH". MVZ (1908-1940): LOCATIONS GIVEN AS "MARSHES NEAR SUISUN", "SUISUN MARSH", "SUISUN MARSHES", "3 MI S SUISUN", "S SUISUN". 2004: DETECTIONS EAST OF FIRST MALLARD BRANCH.
Ecological: HABITAT CONSISTS OF BRACKISH MARSH. VEGETATION INCLUDES SALICORNIA VIRGINICA, SCIRPUS SPP., AND TYPHA SPP. CURRENT/SURROUNDING LAND USE: AGRICULTURE.
General: NUMEROUS RECORDS FROM MVZ, 1908-1940. 5 SPECIMENS COLLECTED (CAS) DURING 1915 & 1917. 1373 PAIRS ESTIMATED. 3 TO 11 DETECTIONS (DETECTIONS FROM 2 DATES COMBINED) OCCURRED AT 10 DIFFERENT POINTS ON 22 MAR & 6 MAY 2004. 17 NESTS IN 2004.
Owner/Manager: PVT, DFG-GRIZZLY ISLAND WA

Occurrence No. 12 **Map Index:** 09695 **EO Index:** 14644 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1986-XX-XX
Origin: Natural/Native occurrence **Site:** 1986-XX-XX
Presence: Presumed Extant
Trend: Increasing **Record Last Updated:** 2005-04-04

Quad Summary: Fairfield South (3812221/482A), Benicia (3812212/482C), Vine Hill (3812211/482D)
County Summary: Solano

Lat/Long: 38,11527° / -122.06601° **Township:** 03N
UTM: Zone-10 N4219016 E581874 **Range:** 02W
Area: 981.8 acres **Mapping Precision:**SPECIFIC **Section:** 10 **Qtr:** XX
Elevation: _____ **Symbol Type:**POLYGON **Meridian:** M

Location: MORROW ISLAND AND SOUTH JOICE ISLAND.
Location Detail: 1940: LOCATION GIVEN (AND MAPPED) AS "MOUTH SULPHUR SPRINGS VALLEY"; MVZ LAT/LONG AT DIFFERENT LOCATION. 1947: LOCATION GIVEN (AND MAPPED) AS "SUISUN BAY SHORE, MOUTH SULPHUR SPRINGS CREEK"
Ecological: NARROW STRIP OF BRACKISH COASTAL MARSH ALONG THE SHORES. CONNECTED TO GOODYEAR, CORDELIS & SUISUN SLOUGHS.
General: 8 COLLECTED (MVZ# 86762-86769) ON 7 APR AND 18 NOV 1940. 6 COLLECTED (MVZ# 97660-97665) 12 OCT 1947. 591 PAIRS ESTIMATED. COMPILATION OF 1976-86 DATA.
Owner/Manager: PVT

Melospiza melodia maxillaris

Suisun song sparrow

Element Code: ABPBXA301K

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: RESIDENT OF BRACKISH-WATER MARSHES SURROUNDING SUISUN BAY.
Micro: INHABITS CATTAILS, TULES AND OTHER SEDGES, AND SALICORNIA; ALSO KNOWN TO FREQUENT TANGLES BORDERING SLOUGHS.

Occurrence No. 16	Map Index: 09989	EO Index: 13339	Dates Last Seen
Occ Rank: Unknown			Element: 1986-XX-XX
Origin: Natural/Native occurrence			Site: 1986-XX-XX
Presence: Presumed Extant			
Trend: Increasing			Record Last Updated: 2005-04-04

Quad Summary: Honker Bay (3812118/481C), Denverton (3812128/481B), Vine Hill (3812211/482D), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.11017° / -121.98551°	Township: 03N
UTM: Zone-10 N4218524 E588937	Range: 01W
Area: 3,093.8 acres	Section: 16
Elevation:	Meridian: M
	Qtr: XX

Location: GRIZZLY BAY SHORE ISLANDS AT SUISUN CUTOFF, SUISUN AND GRIZZLY BAYS.
Location Detail: 1913: LOCATION GIVEN AS "SUISUN BAY". 1947: LOCATION GIVEN AS "SUISUN BAY SHORE, 3 MI S GRIZZLY ISLAND FERRY; GRIZZLY ISLAND".
General: 8 COLL. (CAS) IN 1913. 10 COLL. (MVZ) IN 1947. GRIZZLY BAY SHORE 433 PRS EST IN 412 ACRES OF FORMER MUD FLATS NOW COVERED W/MARSH VEGETATION. 854 PRS EST ON 813 ACRES OF TIDAL HABITAT ON ISLANDS AT SUISUN CUTOFF. COMPILATION OF 1976-86 DATA.
Owner/Manager: UNKNOWN

Occurrence No. 20	Map Index: 60149	EO Index: 60259	Dates Last Seen
Occ Rank: Fair			Element: 2004-06-25
Origin: Natural/Native occurrence			Site: 2004-06-25
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-02-24

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.19002° / -121.90834°	Township: 04N
UTM: Zone-10 N4227462 E595597	Range: 01E
Area:	Section: 18
Elevation: 4 ft	Meridian: M
	Qtr: XX

Location: ALONG SLOUGH LOCATED APPROXIMATELY 0.5 MILE EAST OF BRADMOOR ISLAND.
Location Detail: LOCATION MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH VEGETATED BY SCIRPUS SPP., TYPHA SPP., AND SALICORNIA VIRGINICA.
General: 1- 6 DETECTED AT 9 DIFFERENT POINTS ON 25 JUN 2004.
Owner/Manager: UNKNOWN

Occurrence No. 21	Map Index: 60225	EO Index: 60261	Dates Last Seen
Occ Rank: Fair			Element: 2004-06-16
Origin: Natural/Native occurrence			Site: 2004-06-16
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-02-24

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.16726° / -121.96869°	Township: 04N
UTM: Zone-10 N4224875 E590340	Range: 01W
Area:	Section: 27
Elevation: 0 ft	Meridian: M
	Qtr: XX

Location: SOUTH OF MONTEZUMA SLOUGH, W PORTION OF AREA BETWEEN ISLAND AND FROST SLOUGHS, JUST EAST OF GRIZZLY ISLAND WA.
Location Detail: MVZ: LOCATION GIVEN AS "NO SPECIFIC LOCALITY RECORDED; GRIZZLY ISLAND". 2004: LOCATION MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH VEGETATED BY SCIRPUS SPP., TYPHA SPP., AND SALICORNIA VIRGINICA.
General: 16 SPECIMENS COLLECTED (MVZ) DURING 1912, 1915, 1923, AND 1940. 1- 3 DETECTED AT 11 DIFFERENT POINTS ON 16 JUN 2004.
Owner/Manager: UNKNOWN

Melospiza melodia maxillaris

Suisun song sparrow

Element Code: ABPBXA301K

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5T2 **CDFG Status:** SC
 State: None **State:** S2

Habitat Associations

General: RESIDENT OF BRACKISH-WATER MARSHES SURROUNDING SUISUN BAY.
Micro: INHABITS CATTAILS, TULES AND OTHER SEDGES, AND SALICORNIA; ALSO KNOWN TO FREQUENT TANGLES BORDERING SLOUGHS.

Occurrence No. 22 **Map Index:** 59291 **EO Index:** 60408 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2004-05-26
Origin: Natural/Native occurrence **Site:** 2004-05-26
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-03-07

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.17873° / -121.91102° **Township:** 04N
UTM: Zone-10 N4226206 E595377 **Range:** 01E
Area: 52.1 acres **Mapping Precision:** SPECIFIC **Section:** 19 **Qtr:** XX
Elevation: 4 ft **Symbol Type:** POLYGON **Meridian:** M

Location: AREA SOUTH OF LITTLE HONKER BAY AND EAST OF NURSE SLOUGH, NORTHEASTERN SUISUN MARSH.
Location Detail: MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SCIRPUS SPP., TYPHA SPP., AND SALICORNIA VIRGINICA.
General: 2-5 DETECTED AT 6 DIFFERENT POINTS ON 26 MAY 2004.
Owner/Manager: UNKNOWN

Occurrence No. 23 **Map Index:** 59862 **EO Index:** 60432 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2004-06-12
Origin: Natural/Native occurrence **Site:** 2004-06-12
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-03-08

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.20185° / -122.06517° **Township:** 04N
UTM: Zone-10 N4228624 E581850 **Range:** 02W
Area: **Mapping Precision:** NON-SPECIFIC **Section:** 10 **Qtr:** XX
Elevation: 9 ft **Symbol Type:** POLYGON **Meridian:** M

Location: FROM JUST NORTH OF, TO 0.5 MILE SW OF BOYNTON SLOUGH, 3 MILES SOUTH OF FAIRFIELD
Location Detail: LOCATION MAPPED ACCORDING TO UTM COORDINATES GIVEN. A PORTION OF THIS SITE IS PARALLEL TO THE WEST SIDE OF THE RAILROAD TRACKS.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SALICORNIA VIRGINICA, SCIRPUS SPP., AND TYPHA SPP. CURRENT/SURROUNDING LAND USE: AGRICULTURE.
General: 5-11 DETECTIONS AT EACH OF 5 DIFFERENT POINTS ON 12 JUN 2004.
Owner/Manager: DFG-GRIZZLY ISLAND WA, UNKNOWN

Occurrence No. 24 **Map Index:** 59861 **EO Index:** 60440 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2004-06-12
Origin: Natural/Native occurrence **Site:** 2004-06-12
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-03-08

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.19031° / -122.06366° **Township:** 04N
UTM: Zone-10 N4227345 E581996 **Range:** 02W
Area: **Mapping Precision:** NON-SPECIFIC **Section:** 14 **Qtr:** XX
Elevation: 9 ft **Symbol Type:** POLYGON **Meridian:** M

Location: AREA 0.25 MI EAST OF JACKSNIPE AND WEST OF SUISUN SLOUGH, 3.8 MILES SOUTH OF FAIRFIELD
Location Detail: MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SALICORNIA VIRGINICA, SCIRPUS SPP., AND TYPHA SPP.. CURRENT/SURROUNDING LAND USE: AGRICULTURE.
General: 1 TO 5 DETECTED AT EACH OF 5 DIFFERENT POINTS ON 12 JUN 2004.
Owner/Manager: UNKNOWN

Melospiza melodia maxillaris

Suisun song sparrow

Element Code: ABPBXA301K

Status
 Federal: None
 State: None

NDDB Element Ranks
 Global: G5T2
 State: S2

Other Lists
 CDFG Status: SC

Habitat Associations

General: RESIDENT OF BRACKISH-WATER MARSHES SURROUNDING SUISUN BAY.
Micro: INHABITS CATTAILS, TULE AND OTHER SEDGES, AND SALICORNIA; ALSO KNOWN TO FREQUENT TANGLES BORDERING SLOUGHS.

Occurrence No. 25 **Map Index:** 60405 **EO Index:** 60441 **Dates Last Seen**
Occ Rank: Good **Element:** 2004-06-13
Origin: Natural/Native occurrence **Site:** 2004-06-13
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-03-08

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.23785° / -122.02394° **Township:** 05N
UTM: Zone-10 N4232656 E585418 **Range:** 01W
Area: **Mapping Precision:**NON-SPECIFIC **Section:** 31 **Qtr:** XX
Elevation: 9 ft **Symbol Type:**POLYGON **Meridian:** M

Location: SOUTH OF HIGHWAY 12 AND NORTH OF DUCK SLOUGH, JUST EAST OF SUISUN CITY.
Location Detail: CAS 1895-1915: LOCATION GIVEN AS "SUISUN". MVZ: LOCATIONS GIVEN AS "NEAR SUISUN", "SUISUN", "0.5 MI E SUISUN", "SUISUN SLOUGH, 0.8 MI N SUISUN HILL". 2004: MAPPED ACCORDING TO UTM COORDINATES GIVEN.
Ecological: HABITAT CONSISTS OF A BRACKISH MARSH. VEGETATION INCLUDES SALICORNIA VIRGINICA, SCIRPUS SPP., AND TYPHA SPP.. CURRENT/SURROUNDING LAND USE: AGRICULTURE.
General: NUMEROUS SPECIMENS COLLECTED (MVZ) IN 1909, 1916, 1921, 1923 AND 1947. NUMEROUS SPECIMENS COLLECTED (CAS) 1895-1915. 2 TO 4 DETECTIONS AT EACH OF EVERY 9 POINTS ON 13 JUN 2004.

Owner/Manager: DFG-HILL SLOUGH WA

Occurrence No. 35 **Map Index:** 09538 **EO Index:** 60891 **Dates Last Seen**
Occ Rank: Unknown **Element:** 1947-04-27
Origin: Natural/Native occurrence **Site:** 1947-04-27
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-04-05

Quad Summary: Cordelia (3812222/482B), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.21157° / -122.12692° **Township:** 04N
UTM: Zone-10 N4229650 E576433 **Range:** 02W
Radius: 1 mile **Mapping Precision:**NON-SPECIFIC **Section:** 7 **Qtr:** XX
Elevation: 20 ft **Symbol Type:**POINT **Meridian:** M

Location: CORDELIA.
Location Detail: 1910, 1940: LOCATION GIVEN AS "CORDELIA". 1947: LOCATION GIVEN AS "0.7 MI E CORDELIA".
General: 1 COLLECTED (MVZ# 17284) ON 1 DEC 1910. 5 COLLECTED (MVZ# 86757-86761) ON 8 JUL 1940. 4 COLLECTED (MVZ# 96791-96794) ON 27 APR 1947.

Owner/Manager: UNKNOWN

Occurrence No. 36 **Map Index:** 60856 **EO Index:** 60892 **Dates Last Seen**
Occ Rank: Unknown **Element:** 1946-09-22
Origin: Natural/Native occurrence **Site:** 1946-09-22
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-04-05

Quad Summary: Fairfield South (3812221/482A), Cordelia (3812222/482B)
County Summary: Solano

Lat/Long: 38.18013° / -122.12220° **Township:** 04N
UTM: Zone-10 N4226165 E576879 **Range:** 02W
Radius: 1 mile **Mapping Precision:**NON-SPECIFIC **Section:** 19 **Qtr:** XX
Elevation: **Symbol Type:**POINT **Meridian:** M

Location: AREA 3.5 MILES SSE OF CORDELIA.
Location Detail: 1909, 1946: COLLECTIONS OCCURRED ALONG UNSPECIFIED PORTION(S) OF CORDELIA SLOUGH. 1940: AREA MAPPED TO INCLUDE THE LOCATION GIVEN AS "3 MI SE CORDELIA" AND THE UTM COORDINATES PROVIDED BY MVZ.
General: 19 COLLECTED (MVZ# 10579-10597) 5, 6 NOV 1909. 6 COLLECTED (MVZ# 86751-86756) ON 13 MAY 1940. 12 COLLECTED (MVZ# 96510-96521) ON 15, 22 SEP 1946.

Owner/Manager: DFG-GRIZZLY ISLAND WA, UNKNOWN

Melospiza melodia maxillaris

Suisun song sparrow

Element Code: ABPBXA301K

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: RESIDENT OF BRACKISH-WATER MARSHES SURROUNDING SUISUN BAY.
Micro: INHABITS CATTAILS, TULE AND OTHER SEDGES, AND SALICORNIA; ALSO KNOWN TO FREQUENT TANGLES BORDERING SLOUGHS.

Occurrence No. 40	Map Index: 60889	EO Index: 60925	Dates Last Seen
Occ Rank: Unknown			Element: 1927-01-30
Origin: Natural/Native occurrence			Site: 1927-01-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-04-07

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.15258° / -122.08943°	Township: 04N
UTM: Zone-10 N4223136 E579780	Range: 02W
Radius: 1/5 mile	Section: 33
Elevation: 9 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: CYNGUS, SUISUN BAY.
Location Detail: 1914-1915, 1927: LOCATION GIVEN AS "SUISUN BAY;CYNGUS". AREA MAPPED ACCORDING TO LAT/LONG PROVIDED BY MVZ; MAX ERROR DISTANCE: 740 FT.
General: 7 SPECIMENS COLLECTED (CAS #81873-4, 81877, 81879-80, 81884 & 81886) 1914-1915. 2 COLLECTED (MVZ# 148121, 148122) ON 30 JAN 1927.
Owner/Manager: UNKNOWN

Occurrence No. 41	Map Index: 66304	EO Index: 66406	Dates Last Seen
Occ Rank: Good			Element: 2006-02-06
Origin: Natural/Native occurrence			Site: 2006-02-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-09-25

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.23905° / -122.04768°	Township: 05N
UTM: Zone-10 N4232768 E583339	Range: 02W
Area:	Section: 35
Elevation: 5 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: EAST OF SOUTH PENNSYLVANIA AVENUE, BETWEEN CORDELIA STREET AND HIGHWAY 12, SOUTH OF FAIRFIELD AND WEST OF SUISUN CITY.
Location Detail: SITE IS SURROUNDED BY SUBURBAN DEVELOPMENT TO THE NORTH AND EAST, PASTURE LAND AND LIGHT INDUSTRIAL TO THE WEST, AND PASTURE LAND AND ESTUARY TO THE SOUTH.
Ecological: HABITAT CONSISTS OF NON-NATIVE GRASSLAND, SEASONAL/PERENNIAL MARSHES, VERNAL POOLS, SEASONALLY-SATURATED GRASSLAND, RIPARIAN WETLANDS, AND DRAINAGE CHANNELS.
Threat: THREATENED BY PROPOSED DEVELOPMENT.
General: 4 ADULTS OBSERVED ON 6 FEB 2006 IN A SMALL REMNANT SLOUGH CHANNEL IN EMERGENT VEGETATION.
Owner/Manager: UNKNOWN

Navarretia leucocephala ssp. *bakeri*

Baker's navarretia

Element Code: PDPLM0C0E1

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G4T2 **CNPS List:** 1B.1
State: None **State:** S2.1

Habitat Associations

General: CISMONTANE WOODLAND, MEADOWS AND SEEPS, VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND, LOWER MONTANE CONIFEROUS FOREST.
Micro: VERNAL POOLS AND SWALES; ADOBE OR ALKALINE SOILS. 5-950M.

Occurrence No. 12 **Map Index:** 30008 **EO Index:** 4688 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1963-06-24
Origin: Natural/Native occurrence **Site:** 1963-06-24
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-03-03

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27077° / -121.82372° **Township:** 05N
UTM: Zone-10 N4236512 E602894 **Range:** 01E
Radius: 2/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 24 **Qtr:** XX
Elevation: 15 ft **Symbol Type:**POINT **Meridian:** M

Location: OLCOTT LAKE, 1 MILE SOUTHWEST OF DOZIER STATION, 12 MILES SOUTH OF DIXON.
Location Detail: LARGE INTERMITTENT LAKE. FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONS. EASEMENT.
Ecological: ALKALINE SOIL, MARGIN OF LARGE INTERMITTENT LAKE; ASSOCIATED WITH LIPPIA.
General: KNOWN FROM THREE COLLECTIONS BY CRAMPTON; #4998 IN 1958, #5904 IN 1961, AND #6854 IN 1963. ID IS UNCERTAIN.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 27 **Map Index:** 53720 **EO Index:** 53720 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2003-04-XX
Origin: Natural/Native occurrence **Site:** 2003-04-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-03-04

Quad Summary: Saxon (3812146/497B)
County Summary: Yolo

Lat/Long: 38.43566° / -121.66900° **Township:** 07N
UTM: Zone-10 N4254993 E616165 **Range:** 03E
Area: 62.5 acres **Mapping Precision:**SPECIFIC **Section:** 20 **Qtr:** //
Elevation: 15 ft **Symbol Type:**POLYGON **Meridian:** M

Location: GLIDE TULE ECOLOGICAL RESERVE, EAST OF THE SACRAMENTO NORTHERN CANAL, WEST EDGE OF THE YOLO BYPASS.
Location Detail: NUMEROUS PLANTS SCATTERED THROUGHOUT THE E 1/2 OF SECTION 19 AND THE W 1/2 OF SECTION 20.
Ecological: OCCURRING IN VERNAL POOLS AND IN MESIC GRASSLAND. ASSOCIATES INCLUDE POGOGYNE DOUGLASII, LASTHENIA FREMONTII, L. GLABRATA, AND LOLIUM MULTIFLORUM.
General: MORE THAN 1000 PLANTS OBSERVED IN 2003 BY WITHAM.
Owner/Manager: DPR-TULE ELK SR

Occurrence No. 28 **Map Index:** 54550 **EO Index:** 54550 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2003-05-20
Origin: Natural/Native occurrence **Site:** 2003-05-20
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2004-03-03

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27851° / -121.87128° **Township:** 05N
UTM: Zone-10 N4237320 E598723 **Range:** 01E
Area: 8.5 acres **Mapping Precision:**SPECIFIC **Section:** 16 **Qtr:** //
Elevation: 40 ft **Symbol Type:**POLYGON **Meridian:** M

Location: APPROXIMATELY 2.5 AIRMILE WEST OF OLCOTT, 0.5 AIRMILE SOUTH OF RAILROAD.
Location Detail: ONE COLONY LOCATED IN THE CENTER OF THE WESTERN HALF OF SECTION 16.
Ecological: LARGE PLAYA POOL ON PESCADERO CLAY LOAM WITH OTHER VERNAL POOLS SPECIES SUCH AS PLAGIOBOTHRYUS STIPITATUS, PSILOCARPUS BREVISSIMUS, DOWNINGIA SP., NAVARRETIA LEUCOCEPHALA SSP. LEUCOCEPHALA, ERYNGIUM SP., ALOPECURUS SACCATUS.
Threat: GRAZING AND TRAMPLING BY CATTLE. MUZZY RANCH PROPOSED AS MITIGATION BANK.
General: 100'S OF INDIVIDUALS OBSERVED IN 2003. ORCUTTIA INAEQUALIS, DOWNINGIA PUSILLA, ASTRAGALUS TENER VAR. TENER IN VICINITY.
Owner/Manager: PVT

Navarretia leucocephala ssp. *bakeri*

Baker's *navarretia*

Element Code: PDPLM0C0E1

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4T2	CNPS List: 1B.1
State: None	State: S2.1	

Habitat Associations

General: CISMONTANE WOODLAND, MEADOWS AND SEEPS, VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND, LOWER MONTANE CONIFEROUS FOREST.
Micro: VERNAL POOLS AND SWALES; ADOBE OR ALKALINE SOILS. 5-950M.

Occurrence No. 30	Map Index: 24709	EO Index: 54575	Dates Last Seen
Occ Rank: None			Element: 1884-05-31
Origin: Natural/Native occurrence			Site: 1884-05-31
Presence: Possibly Extirpated			
Trend: Unknown			Record Last Updated: 2005-09-20

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.32825° / -121.96125°	Township: 06N
UTM: Zone-10 N4242747 E590791	Range: 01W
Radius: 3/5 mile	Section: 34
Elevation: 150 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: LITTLE OAK, NEAR VACAVILLE.
Location Detail: MAPPED IN THE HISTORICAL VICINITY OF THE JEPSON FAMILY'S LITTLE OAK RANCH, EAST OF PEABODY RD AND SOUTH OF ALAMO DR.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1884 COLLECTION BY JEPSON.
Owner/Manager: UNKNOWN

Occurrence No. 33	Map Index: 13116	EO Index: 54580	Dates Last Seen
Occ Rank: Unknown			Element: 1962-05-26
Origin: Natural/Native occurrence			Site: 1962-05-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-03-08

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.34296° / -121.91588°	Township: 06N
UTM: Zone-10 N4244424 E594739	Range: 01W
Area:	Section: 25
Elevation:	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: 0.5 MILE SOUTHWEST OF ELMIRA, ALONG SOUTHERN PACIFIC RAILROAD RIGHT OF WAY.
Location Detail: EXACT LOCATION UNKNOWN, MAPPED ALONG RAILROAD 0.5 MILE SOUTH OF ELMIRA.
Ecological: DRIED VERNAL POOL ALONG RAILROAD, VERNAL POOL SITES.
General: MAIN INFO FOR THIS SITE IS 1962 COLLECTION BY BACIGALUPI FROM "0.5 MI SW OF ELMIRA," 1903 BAKER COLLECTION (#2897 UC #75155) FROM ELMIRA ALSO ATTRIBUTED HERE. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Occurrence No. 35	Map Index: 54582	EO Index: 54582	Dates Last Seen
Occ Rank: Unknown			Element: 1924-05-08
Origin: Natural/Native occurrence			Site: 1924-05-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-03-05

Quad Summary: Allendale (3812148/498B), Winters (3812158/514C)

County Summary: Solano

Lat/Long: 38.51427° / -121.93862°	Township: 08N
UTM: Zone-10 N4263410 E592532	Range: 01W
Radius: 1 mile	Section: 26
Elevation:	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: WOLFSKILL STA., NORTHWEST SOLANO COUNTY.
Location Detail: EXACT LOCATION UNKNOWN, MAPPED IN GENERAL VICINITY OF WOLFSKILL SCHOOL.
Ecological: BOTTOMS OF WINTER POOLS.
General: ONLY SOURCE OF INFORMATION IS 1924 COLLECTION BY JEPSON. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Navarretia leucocephala ssp. *bakeri*

Baker's navarretia

Element Code: PDPLM0C0E1

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4T2	CNPS List: 1B.1
State: None	State: S2.1	

Habitat Associations

General: CISMONTANE WOODLAND, MEADOWS AND SEEPS, VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND, LOWER MONTANE CONIFEROUS FOREST.
Micro: VERNAL POOLS AND SWALES; ADOBE OR ALKALINE SOILS. 5-950M.

Occurrence No. 38	Map Index: 60344	EO Index: 60380	Dates Last Seen
Occ Rank: Unknown			Element: 2002-04-26
Origin: Natural/Native occurrence			Site: 2002-04-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-03-04

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.29973° / -121.79585°	Township: 05N
UTM: Zone-10 N4239757 E605290	Range: 02E
Radius: 2/5 mile	Section: 07
Elevation: 10 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: N
Symbol Type: POINT	

Location: GRIDLEY RANCH. 1 MILE NORTH OF INTERSECTION OF HASTING RD & SALEM RD.

General: ONLY SOURCE OF INFO FOR THIS LOCATION IS A 2002 COLLECTION BY SOLOMESHCH. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No. 41	Map Index: 24739	EO Index: 62645	Dates Last Seen
Occ Rank: Unknown			Element: 1916-04-22
Origin: Natural/Native occurrence			Site: 1916-04-22
Presence: Possibly Extirpated			
Trend: Unknown			Record Last Updated: 2005-09-20

Quad Summary: Elmira (3812138/498C), Fairfield North (3812231/499D)

County Summary: Solano

Lat/Long: 38.35642° / -121.98869°	Township: 06N
UTM: Zone-10 N4245845 E588359	Range: 01W
Radius: 1 mile	Section: 20
Elevation: 180 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: VACAVILLE.

Location Detail: EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS.

Ecological: DRIED POOL BEDS.

General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1916 COLLECTION BY JEPSON.

Owner/Manager: UNKNOWN

Neostapfia colusana

Colusa grass

Element Code: PMPOA4C010

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G3	CNPS List: 1B.1
State: Endangered	State: S3.1	

Habitat Associations

General: VERNAL POOLS.
 Micro: USUALLY IN LARGE, OR DEEP VERNAL POOL BOTTOMS; ADOBE SOILS. 5-110M.

Occurrence No. 19	Map Index: 10551	EO Index: 6794	Dates Last Seen
Occ Rank: Good			Element: 2007-XX-XX
Origin: Natural/Native occurrence			Site: 2007-XX-XX
Presence: Presumed Extant			
Trend: Fluctuating			Record Last Updated: 2008-02-13

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.27125° / -121.82234°	Township: 05N
UTM: Zone-10 N4236567 E603014	Range: 01E
Area: 28.4 acres	Section: 13
Elevation: 18 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POLYGON	

Location: OLCOTT LAKE, ON EAST SIDE OF COOK LANE WITHIN JEPSON PRAIRIE.
Location Detail: JUST SOUTH OF & AT THE EAST-WEST FENCE IN MID-LAKE. FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONSERVATION EASEMENT. POPULATION FLUCTUATES WITH WEATHER & GRAZING.

Ecological: PLAYA-TYPE LAKE ON PESCADERO CLAY SOILS. WITH FRANKENIA SALINA, DISTICHLIS SPICATA NANA, LYTHRUM HYSSOPIFOLIA, PHYLLA NODIFLORA, CRESSA TRUXILLENIS VALLICOLA, ERYNGIUM ARISTULATUM, MALVELLA LEPROSA, AND ELEOCHARIS MACROSTACHYA.

Threat: SHEEP GRAZING (FORMER THREAT) & INVASIVE PHYLLA NODIFLORA THREATEN. SITE NOT GRAZED IN 1995-1999.

General: 1980: 1001-10000 PLANTS; '82: 10000+; '85: 3.7 MIL; '91: 15000; '92: >100,000; '93: 10000; '94: 1000; '95: >1 MIL; '96: 30000; '97: 20000; '98: ~1 MIL; '99: 50000; '00: 100,000; '01: 10000; '02-04: 100,000; '05: 1000+; '06: 100+; '07: NONE.

Owner/Manager: SOLANO LAND TRUST

Occurrence No. 48	Map Index: 24988	EO Index: 6311	Dates Last Seen
Occ Rank: Good			Element: 1986-07-03
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-06-14

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.25545° / -121.87042°	Township: 05N
UTM: Zone-10 N4234761 E598830	Range: 01E
Radius: 80 meters	Section: 28
Elevation: 35 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: SOUTHWEST OF OLCOTT LAKE, IN "NEXT LARGEST VERNAL POOL".
Location Detail: 3.4 KM (2.1 MI) SOUTH OF THE SACRAMENTO NORTHERN RR TRACKS AND 5.7 KM (3.5 MI) WEST OF HWY 113.

Ecological: IN LARGE SALINE-ALKALINE PLAYA IN ANNUAL GRASSLAND. ASSOCIATED WITH TUCTORIA MUCRONATA, FRANKENIA GRANDIFOLIA, ERYNGIUM ARISTULATUM, SIDA HEDERACEA, CRYPISIS SCHOENOIDES, AND DISTICHLIS SPICATA. DELTA GREEN GROUND BEETLES ALSO IN THIS AREA.

Threat: CATTLE GRAZING IN WINTER PASTURE. PAST DISTURBANCE/GRAZING MAY HAVE LED TO ESTABLISHMENT OF WEEDY SIDA & CRYPISIS.

General: 1 PLANT OBSERVED IN 1986, NONE FOUND BY C. WITHAM IN 1989, 1991, OR 1992.

Owner/Manager: SOLANO LAND TRUST

Neostapfia colusana

Colusa grass

Element Code: PMPOA4C010

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G3	CNPS List: 1B.1
State: Endangered	State: S3.1	

Habitat Associations

General: VERNAL POOLS.
Micro: USUALLY IN LARGE, OR DEEP VERNAL POOL BOTTOMS; ADOBE SOILS. 5-110M.

Occurrence No. 49	Map Index: 25596	EO Index: 5744	Dates Last Seen
Occ Rank: Good			Element: 2005-08-05
Origin: Natural/Native occurrence			Site: 2005-08-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-01-10

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.49163° / -121.68587°	Township: 08N
UTM: Zone-10 N4261183 E614604	Range: 03E
Area: 2.0 acres	Section: 31
Elevation: 25 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: DAVIS AIR FORCE COMMUNICATION FACILITY. 4 MI S OF INTERSTATE 80, E OF RD 104, BETWEEN RD 34 AND RD 35.

Location Detail: FACILITY IS 4 MILES SOUTH OF DAVIS, EAST OF ROAD 104 AND BETWEEN ROAD 35 AND ROAD 36. WITHIN THE SE 1/4 OF THE NE 1/4 OF SECTION 31. IN POOL #9.

Ecological: PLAYA TYPE VERNAL POOL ON LOW AREA ON PESCADERO CLAY LOAM. ASSOCIATED WITH DOWNINGIA, LASTHENIA FREMONTII, PLAGIOBOTHRYIS, PSILOCARPHUS, MYOSURUS, LEPIDIUM LATIFOLIUM, CRYPSIS SCHOENOIDES, CRESSA TRUXILLENSIS, & TUCTORIA MUCRONATA.

Threat: HERBICIDE RUN-OFF AND INVASION BY SALSOLA TRAGUS, LEPIDIUM LATIFOLIUM AND POTENTIALLY CRYPSIS SCHOENOIDES THREATEN.

General: SEVERAL THOUSAND PLANTS OBSERVED IN 1993; 36,000 ESTIMATED IN 1996. IN 2001, ~1,000 PLANTS IN UPPER POOL REPORTED IN AUGUST AND >100 REPORTED IN SEPTEMBER 2001; 2,208 PLANTS IN 2004 BETWEEN THIS AND EO #58.

Owner/Manager: DOD-MCCLELLAN AFB

Occurrence No. 58	Map Index: 25471	EO Index: 5800	Dates Last Seen
Occ Rank: Good			Element: 2004-07-06
Origin: Natural/Native occurrence			Site: 2004-07-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-01-10

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.49621° / -121.67772°	Township: 08N
UTM: Zone-10 N4261701 E615308	Range: 03E
Radius: 0 mile	Section: 31
Elevation: 25 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: IN DRAINAGE ON THE EAST SIDE OF THE DAVIS AIR FORCE COMMUNICATIONS FACILITY, 2.5 MILES NNW OF SAXON.

Location Detail: FACILITY IS 4 MILES SOUTH OF DAVIS, EAST OF ROAD 104 AND BETWEEN ROAD 35 AND ROAD 36. WITHIN THE SE 1/4 OF THE NE 1/4 OF SECTION 31. IN POOL #3.

Ecological: PLAYA TYPE VERNAL POOL ON PESCADERO CLAY LOAM. GROWING PRIMARILY ON DISTURBED GROUND IN AREAS OF LOW COMPETITION. THIS POPULATION OCCURS AS A VIRTUAL MONOCULTURE. W/DOWNINGIA SPP., LASTHENIA FREMONTII, PLAGIOBOTHRYIS, PSILOCARPHUS, ETC.

Threat: HERBICIDE RUNOFF FROM ADJ ANTENNA PAD MAY BE IMPACTING PLANTS. LEPIDIUM LATIFOLIUM AND SALSOLA TRAGUS ARE INVADING SITE.

General: SEVERAL THOUSAND PLANTS IN 1993; 1000 IN 1996; 2,208 PLANTS BETWEEN THIS EO AND EO #49 IN 2004.

Owner/Manager: DOD-MCCLELLAN AFB

Northern Claypan Vernal Pool

Element Code: CTT44120CA

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G1 State: S1.1	
Habitat Associations		
General:		
Micro:		

Occurrence No. 26 **Map Index:** 10559 **EO Index:** 26391 **Dates Last Seen**

Occ Rank: Unknown **Element:** 1982-03-13
Origin: Natural/Native occurrence **Site:** 1982-03-13
Presence: Presumed Extant
Trend: Increasing **Record Last Updated:** 1998-07-15

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26903° / -121.82215°	Township: 05N
UTM: Zone-10 N4236321 E603034	Range: 01E
Radius: 1 mile	Section: 24 Qtr: N
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	
Symbol Type: POINT	

Location: 10 MI S OF DIXON ON HWY 113.
Location Detail: FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97.
Ecological: LG VERNAL LAKE & MANY SMALLER POOLS. GRASSLANDS W/GOOD STANDS OF NASSELLA PULCHRA ON HIGHER GROUND BETW POOLS. RICH VERNAL POOL FLORA. SOME POOLS ALKALINE W/SALT TOLERANT SPP SUCH AS CRESSA & FRANKENIA. AREA KNOWN FOR ORCUTTIA & NEOSTAFFIA.
General: UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 27 **Map Index:** 10352 **EO Index:** 26392 **Dates Last Seen**

Occ Rank: Unknown **Element:** 1975-03-XX
Origin: Natural/Native occurrence **Site:** 1975-03-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1998-07-15

Quad Summary: Denverton (3812128/481B), Birds Landing (3812127/481A)
County Summary: Solano

Lat/Long: 38.21463° / -121.87773°	Township: 04N
UTM: Zone-10 N4230224 E598245	Range: 01E
Radius: 1 mile	Section: 04 Qtr: SW
Elevation: 70 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	
Symbol Type: POINT	

Location: AREA SURROUNDING HWY 12 FROM RIO VISTA TO DENVERTON. AREA INCL FOUR SECTIONS.
Ecological: VERNAL POOLS IN NATIVE GRASSLAND. MANY DOWNINGIA SPP & PSILOCARPUS SPP REPORTED. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.
Threat: AREA HAS BEEN GRAZED, SOMETIMES HEAVILY FOR A NUMBER OF YEARS.
Owner/Manager: UNKNOWN

Occurrence No. 28 **Map Index:** 10372 **EO Index:** 26288 **Dates Last Seen**

Occ Rank: Unknown **Element:** 1982-05-18
Origin: Natural/Native occurrence **Site:** 1982-05-18
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1998-07-15

Quad Summary: Elmira (3812138/498C), Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.27657° / -121.87524°	Township: 05N
UTM: Zone-10 N4237100 E598380	Range: 01E
Radius: 1/5 mile	Section: 16 Qtr: SW
Elevation: 40 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	
Symbol Type: POINT	

Location: ABOUT 1 MI ESE OF N END TRAVIS AFB RUNWAY, ABOUT 3 MI WSW OF DOZIER.
Location Detail: OTHER POOLS IN AREA; MANY MODIFIED TO BRING WATER IN EARLY FALL FOR WATERFOWL.
Ecological: LARGE PLAYA TYPE POOL ON PESCADERO CLAY. DOWNINGIA HUMILIS & OTHER DOWNINGIA SPP PRESENT W/OTHER VERNAL POOL SPP (LIST AT CNDD). SURROUNDED BY PRISTINE GRASSLAND.
General: UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO
Owner/Manager: UNKNOWN

Northern Claypan Vernal Pool

Element Code: CTT44120CA

----- Status ----- NDDB Element Ranks ----- Other Lists -----
 Federal: None Global: G1
 State: None State: S1.1

----- Habitat Associations -----
 General:
 Micro:

Occurrence No. 31 Map Index: 09762 EO Index: 27149 ----- Dates Last Seen -----
 Occ Rank: Unknown Element: 1985-05-03
 Origin: Natural/Native occurrence Site: 1985-05-03
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1998-07-15

Quad Summary: Fairfield South (3812221/482A), Fairfield North (3812231/499D)
 County Summary: Solano

Lat/Long: 38.23699° / -122.05303° Township: 05N
 UTM: Zone-10 N4232534 E582873 Range: 02W
 Radius: 1 mile Mapping Precision:NON-SPECIFIC Section: 35 Qtr: XX
 Elevation: 5 ft Symbol Type:POINT Meridian: M

Location: W OF SUISUN CITY, N OF CORDELIA RD, W OF PENNSYLVANIA AVE.
 Ecological: POOL AREAS & CISMONTANE SWALE W/IN GRASSLAND. MANY POOL SPP PRESENT INCL LASTHENIA GLABERRIMA, DOWNINGIA PULCHELLA, PSILOCARPUS SP, ERYNGIUM VASEYI, MYOSORUS MINIMUS & RARE LASTHENIA CONJUGENS. SYCAMORE SOIL SERIES. SITE COND VARIES, 1985.
 Threat: CATTLE GRAZING DISTURBS, INDUSTRIAL DEVELOPMENT IMMINENT.
 General: UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.
 Owner/Manager: PVT

Orcuttia inaequalis

San Joaquin Valley orcutt grass

Element Code: PMPOA4G060

Status	NDDB Element Ranks	Other Lists
Federal: Threatened State: Endangered	Global: G2 State: S2.1	CNPS List: 1B.1

Habitat Associations
 General: VERNAL POOLS.
 Micro: 30-755M.

Occurrence No. 63	Map Index: 55310	EO Index: 55310	Dates Last Seen
Occ Rank: Excellent			Element: 2003-06-12
Origin: Natural/Native occurrence			Site: 2003-06-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-04-28

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26707° / -121.88770°	Township: 05N
UTM: Zone-10 N4236033 E597302	Range: 01E
Radius: 80 meters	Section: 20 Qtr: NE
Elevation: 40 ft	Meridian: M
Mapping Precision: SPECIFIC	Symbol Type: POINT

Location: EAST OF TRAVIS AIR FORCE BASE, JUST EAST OF POWERLINES ABOUT 1.4 MILES SSW OF WHERE POWERLINES CROSS AQUEDUCT.
Location Detail: MAPPED WITHIN THE SW 1/4 OF THE NE 1/4 OF SECTION 17.

Ecological: IN PORTION OF ALKALI PLAYA POOL ON SOLANO LOAM, AND IN ADJACENT VERNAL POOL/SWALE IN NON-NATIVE GRASSLAND COMMUNITY. ONLY POOL OF SEVERAL IN THE AREA TO SUPPORT THIS GRASS. ASSOCIATES: FRANKENIA SALINA, PLAGIOBOTHRYIS STIPITATUS, ERYNGIUM.

Threat: GRAZING/TRAMPLING BY CATTLE.

General: ABOUT 1600 PLANTS SEEN IN 2003 BY BUXTON. THIS IS THE ONLY KNOWN POPULATION OF ORCUTTIA INAEQUALIS IN SOLANO COUNTY. POSITIVE DETERMINATION WAS MADE BY DR. JOHN REEDER AND CORROBORATED BY DNA ANALYSIS BY LAURA BOYKIN.

Owner/Manager: PVT

Plagiobothrys hystriculus

bearded popcorn-flower

Element Code: PDBOR0V0H0

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G1 CNPS List: 1B.1
 State: None State: S1.1

Habitat Associations _____
 General: VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND.
 Micro: WET SITES. 10-50M.

Occurrence No. 8 Map Index: 41001 EO Index: 41667 Dates Last Seen _____
 Occ Rank: Fair Element: 2005-05-24
 * SENSITIVE * Origin: Natural/Native occurrence Site: 2005-05-24
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-07-28

Quad Summary: Birds Landing (3812127/481A)
 County Summary: Solano

* SENSITIVE * Lat/Long: Township:
 UTM: Range:
 Radius: Mapping Precision: Section: Qtr:
 Elevation: Symbol Type: Meridian:

Location: *SENSITIVE* Location information suppressed.
 Location Detail: Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information:
 (916) 324-3812.

Ecological: IN VERNAL SWALE. ASSOCIATED WITH LOLIUM MULTIFLORUM, BRODIAEA ELEGANS, ERYNGIUM ARISTULATUM, CICENDIA QUADRANGULARIS, JUNCUS BUFONIUS, AND THE RARE CENTROMADIA PARRYI SSP. PARRYI.
 Threat: DISKING FOR FIREBREAKS. NEAR TRANSMISSION LINES AND PROPOSED GAS PIPELINE.
 Owner/Manager:

Occurrence No. 12 Map Index: 65471 EO Index: 65550 Dates Last Seen _____
 Occ Rank: Good Element: 2006-05-09
 * SENSITIVE * Origin: Natural/Native occurrence Site: 2006-05-09
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-07-28

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

* SENSITIVE * Lat/Long: Township:
 UTM: Range:
 Radius: Mapping Precision: Section: Qtr:
 Elevation: Symbol Type: Meridian:

Location: *SENSITIVE* Location information suppressed.
 Location Detail: Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information:
 (916) 324-3812.

Ecological: IN VERNAL SWALES & POOLS IN ANNUAL GRASSLAND. ASSOCIATED WITH LOLIUM MULTIFLORUM, ERYNGIUM ARISTULATUM, ACHYRACHAENA MOLLIS, JUNCUS BUFONIUS, LYTHRUM HYSSOPIFOLIUM, CICENDIA QUADRANGULARIS, RANUNCULUS MURICATUS, & HORDEUM MARINUM.
 Threat: WITHIN GAS PIPELINE ROW. PROPOSED ACCESS ROAD MAINTENANCE. CATTLE GRAZING OCCURS.
 Owner/Manager:

Occurrence No. 13 Map Index: 65472 EO Index: 65551 Dates Last Seen _____
 Occ Rank: Unknown Element: 1964-04-27
 Origin: Natural/Native occurrence Site: 1964-04-27
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-07-28

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.30697° / -121.78654° Township: 05N
 UTM: Zone-10 N4240571 E606094 Range: 02E
 Radius: 1/10 mile Mapping Precision: NON-SPECIFIC Section: 05 Qtr: /
 Elevation: 13 ft Symbol Type: POINT Meridian: M

Location: 2 MILES NE OF DOZIER STATION, AT THE JUNCTION OF BROWN AND ROBBERN ROADS.
 Ecological: VERNAL MEADOW, VALLEY GRASSLAND.
 General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1964 COLLECTION BY CRAMPTON.
 Owner/Manager: UNKNOWN

Plagiobothrys hystriculus

bearded popcorn-flower

Element Code: PDBOR0V0H0

Status: _____ NDDB Element Ranks: _____ Other Lists: _____
 Federal: None Global: G1 CNPS List: 1B.1
 State: None State: S1.1

Habitat Associations

General: VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND.
 Micro: WET SITES. 10-50M.

Occurrence No. 14 Map Index: 65517 EO Index: 65596 Dates Last Seen: _____
 Occ Rank: Unknown Element: 2002-04-27
 Origin: Natural/Native occurrence Site: 2002-04-27
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-08-01

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.29976° / -121.80014° Township: 05N
 UTM: Zone-10 N4239756 E604915 Range: 02E
 Radius: 2/5 mile Mapping PrecisionNON-SPECIFIC Section: 07 Qtr: XX
 Elevation: 13 ft Symbol Type:POINT Meridian: M

Location: GRIDLEY RANCH. 1 MILE NORTH FROM INTERSECTION OF HASTINGS ROAD & SALEM ROAD.
 Location Detail: EXACT LOCATION UNKNOWN. MAPPED ACCORDING TO MAP DRAWN BY R. PRESTON, WHICH WAS BASED ON THE SITE DESCRIPTION BY A. SOLOMESHCH.
 Ecological: GRASSLANDS. ASSOCIATED WITH BROMUS HORDEACEUS, LOLIUM MULTIFLORUM, VULPIA BROMOIDES, NASSELLA PULCHRA, DISTICHLIS SPICATA, LASTHENIA CALIFORNICA, AND HEMIZONIA CONGESTA. FLAT PRAIRIE.
 General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 2002 COLLECTION BY SOLOMESHCH. NEEDS FIELDWORK.
 Owner/Manager: UNKNOWN

Occurrence No. 15 Map Index: 65518 EO Index: 65597 Dates Last Seen: _____
 Occ Rank: Unknown Element: 1975-04-26
 Origin: Natural/Native occurrence Site: 1975-04-26
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-08-01

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.27838° / -121.83292° Township: 05N
 UTM: Zone-10 N4237347 E602078 Range: 01E
 Area: Mapping PrecisionNON-SPECIFIC Section: 14 Qtr: XX
 Elevation: 25 ft Symbol Type:POLYGON Meridian: M

Location: ON N SIDE OF SMALL ROAD RUNNING W FROM INTERSECTION OF COOK LANE AND SAC N RAILWAY, CA 1/2 MI W OF THIS INTERSECTION.
 Ecological: IN DRYING BEDS OF VERNAL POOLS IN AN OPEN FIELD.
 General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1975 COLLECTION BY TUCKER.
 Owner/Manager: PVT

Occurrence No. 16 Map Index: 65520 EO Index: 65599 Dates Last Seen: _____
 Occ Rank: Excellent Element: 2006-05-10
 Origin: Natural/Native occurrence Site: 2006-05-10
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-08-01

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.26743° / -121.84423° Township: 05N
 UTM: Zone-10 N4236119 E601105 Range: 01E
 Area: 12.0 acres Mapping PrecisionSPECIFIC Section: 22 Qtr: NE
 Elevation: 30 ft Symbol Type:POLYGON Meridian: M

Location: 1.2 AIR MILES SW OF OLCOTT.
 Location Detail: IN THE EAST 1/2 OF THE NE 1/4 OF SECTION 22.
 Ecological: ON MARGINS OF VERNAL POOLS. ASSOCIATED WITH LOLIUM MULTIFLORUM, LYTHRUM HYSSOPIFOLIUM, JUNCUS BUFONIUS, HORDEUM MARINUM SSP. GUSSONEANUM, PLAGIOBOTHRYUS GREENEI, AND PLAGIOBOTHRYUS BRACTEATUS. SOILS MAPPED AS SAN YSIDRO SANDY LOAM.
 General: HUNDREDS OF PLANTS OBSERVED IN 2006 BETWEEN THIS OCCURRENCE AND OCCURRENCES 17, 19, 20, AND 21 COMBINED. 1971 COLLECTION BY CRAMPTON FROM 2 MI SW OF DOZIER STATION ATTRIBUTED HERE.
 Owner/Manager: SOLANO LAND TRUST

Plagiobothrys hystriculus

bearded popcorn-flower

Element Code: PDBOR0V0H0

Status: _____ NDDB Element Ranks: _____ Other Lists: _____
 Federal: None Global: G1 CNPS List: 1B.1
 State: None State: S1.1

Habitat Associations

General: VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND.
 Micro: WET SITES. 10-50M.

Occurrence No. 17 Map Index: 65528 EO Index: 65607 Dates Last Seen: _____
 Occ Rank: Excellent Element: 2006-05-10
 Origin: Natural/Native occurrence Site: 2006-05-10
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-08-01

Quad Summary: Dozier (3812137/498D), Elmira (3812138/498C)
 County Summary: Solano

Lat/Long: 38.26582° / -121.87537° Township: 05N
 UTM: Zone-10 N4235907 E598383 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 21 Qtr: NW
 Elevation: 35 ft Symbol Type: POINT Meridian: M

Location: 2.8 AIR MILES WSW OF OLCOTT.
 Location Detail: IN THE SW 1/4 OF THE NW 1/4 OF SECTION 21.
 Ecological: ON MARGINS OF VERNAL POOLS. ASSOCIATED WITH LOLIUM MULTIFLORUM, LYTHRUM HYSSOPIFOLIUM, JUNCUS BUFONIUS, HORDEUM MARINUM SSP. GUSSONEANUM, PLAGIOBOTHRYUS GREENEI, AND PLAGIOBOTHRYUS BRACTEATUS. SOILS MAPPED AS SAN YSIDRO SANDY LOAM.
 General: HUNDREDS OF PLANTS OBSERVED IN 2006 BETWEEN THIS OCCURRENCE AND OCCURRENCES 16, 19, 20, AND 21 COMBINED.
 Owner/Manager: SOLANO LAND TRUST

Occurrence No. 18 Map Index: 65534 EO Index: 65613 Dates Last Seen: _____
 Occ Rank: Excellent Element: 2006-05-13
 Origin: Natural/Native occurrence Site: 2006-05-13
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-08-01

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.26500° / -121.82789° Township: 05N
 UTM: Zone-10 N4235868 E602538 Range: 01E
 Area: 6.8 acres Mapping Precision: SPECIFIC Section: 23 Qtr: NE
 Elevation: 20 ft Symbol Type: POLYGON Meridian: M

Location: 0.8 AIR MILE SSW OF OLCOTT. IN THE JEPSON PRAIRIE PRESERVE.
 Location Detail: IN THE SE 1/4 OF THE NE 1/4 OF SECTION 23.
 Ecological: IN SMALL, SHALLOW VERNAL POOLS. ASSOCIATED WITH LYTHRUM HYSSOPIFOLIUM, PSILOCARPHUS TENELLUS, PLAGIOBOTHRYUS STIPITATUS, LOLIUM MULTIFLORUM, ERYNGIUM ARISTULATUM, AND CICENDIA QUADRANGULARIS. SOILS MAPPED AS SAN YSIDRO SANDY LOAM.
 General: APPROXIMATELY 50 PLANTS OBSERVED IN 2006.
 Owner/Manager: SOLANO LAND TRUST

Occurrence No. 19 Map Index: 65537 EO Index: 65616 Dates Last Seen: _____
 Occ Rank: Excellent Element: 2006-05-10
 Origin: Natural/Native occurrence Site: 2006-05-10
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2006-08-01

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.26202° / -121.87408° Township: 05N
 UTM: Zone-10 N4235486 E598501 Range: 01E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 21 Qtr: SW
 Elevation: 35 ft Symbol Type: POINT Meridian: M

Location: 2.9 AIR MILES WSW OF OLCOTT.
 Location Detail: NEAR THE CENTER OF THE SW 1/4 OF SECTION 21.
 Ecological: ON MARGINS OF VERNAL POOLS. ASSOCIATED WITH LOLIUM MULTIFLORUM, LYTHRUM HYSSOPIFOLIUM, JUNCUS BUFONIUS, HORDEUM MARINUM SSP. GUSSONEANUM, PLAGIOBOTHRYUS GREENEI, AND PLAGIOBOTHRYUS BRACTEATUS. SOILS MAPPED AS SAN YSIDRO SANDY LOAM.
 General: HUNDREDS OF PLANTS OBSERVED IN 2006 BETWEEN THIS OCCURRENCE AND OCCURRENCES 16, 17, 20, AND 21 COMBINED.
 Owner/Manager: SOLANO LAND TRUST

Plagiobothrys hystriculus

bearded popcorn-flower

Element Code: PDBOR0V0H0

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G1 State: S1.1	CNPS List: 1B.1

Habitat Associations

General: VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND.
Micro: WET SITES. 10-50M.

Occurrence No. 20	Map Index: 65558	EO Index: 65637	Dates Last Seen
Occ Rank: Excellent			Element: 2006-05-10
Origin: Natural/Native occurrence			Site: 2006-05-10
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-08-01

Quad Summary: Dozier (3812137/498D)
County Summary: Solano

Lat/Long: 38.26148° / -121.86610°	Township: 05N
UTM: Zone-10 N4235435 E599200	Range: 01E
Area: 15.8 acres	Section: 21
Elevation: 35 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: 2.5 AIR MILES WSW OF OLCOTT.
Location Detail: 2 COLONIES RUNNING ALONG THE LINE SEPARATING THE NORTH AND SOUTH HALVES OF THE SE 1/4 OF SECTION 21.
Ecological: ON MARGINS OF VERNAL POOLS. ASSOCIATED WITH LOLIUM MULTIFLORUM, LYTHRUM HYSSOPIFOLIUM, JUNCUS BUFONIUS, HORDEUM MARINUM SSP. GUSSONEANUM, PLAGIOBOTHRYUS GREENEI, AND PLAGIOBOTHRYUS BRACTEATUS. SOILS MAPPED AS SAN YSIDRO SANDY LOAM.
General: HUNDREDS OF PLANTS OBSERVED IN 2006 BETWEEN THIS OCCURRENCE AND OCCURRENCES 16, 17, 19, AND 21 COMBINED.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 21	Map Index: 65560	EO Index: 65639	Dates Last Seen
Occ Rank: Excellent			Element: 2006-05-10
Origin: Natural/Native occurrence			Site: 2006-05-10
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-08-01

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.26238° / -121.87973°	Township: 05N
UTM: Zone-10 N4235520 E598006	Range: 01E
Radius: 80 meters	Section: 20
Elevation: 35 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: 3 AIR MILES ESE OF TRAVIS FIELD.
Location Detail: IN THE NE 1/4 OF THE SE 1/4 OF SECTION 20, NEAR THE BOUNDARY WITH SECTION 21.
Ecological: ON MARGINS OF VERNAL POOLS. ASSOCIATED WITH LOLIUM MULTIFLORUM, LYTHRUM HYSSOPIFOLIUM, JUNCUS BUFONIUS, HORDEUM MARINUM SSP. GUSSONEANUM, PLAGIOBOTHRYUS GREENEI, AND PLAGIOBOTHRYUS BRACTEATUS. SOILS MAPPED AS SAN YSIDRO SANDY LOAM.
General: HUNDREDS OF PLANTS OBSERVED IN 2006 BETWEEN THIS OCCURRENCE AND OCCURRENCES 16, 17, 19, AND 20 COMBINED. 1883 COLLECTION BY BRANDEGEE FROM ELMIRA ATTRIBUTED HERE.
Owner/Manager: SOLANO LAND TRUST

Pogonichthys macrolepidotus

Sacramento splittail

Element Code: AFCJB34020

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: ENDEMIC TO THE LAKES AND RIVERS OF THE CENTRAL VALLEY, BUT NOW CONFINED TO THE DELTA, SUISUN BAY & ASSOCIATED MARSHES.
Micro: SLOW MOVING RIVER SECTIONS, DEAD END SLOUGHS. REQUIRES FLOODED VEGETATION FOR SPAWNING & FORAGING FOR YOUNG.

Occurrence No. 4	Map Index: 40822	EO Index: 40822	Dates Last Seen
Occ Rank: Unknown			Element: 1998-08-18
Origin: Natural/Native occurrence			Site: 1998-08-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1999-02-10

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.20412° / -122.02866°	Township: 04N
UTM: Zone-10 N4228909 E585044	Range: 02W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Section: 12 Qtr: XX
	Symbol Type: POLYGON Meridian: M

Location: SPRING BRANCH, PORTRERO HILLS WEST OF GRIZZLY ISLAND ROAD, ~2 MILES SOUTH OF SUISUN CITY, SUISUN MARSH.
Location Detail:MAP INCLUDED IN SOURCE DOCUMENT HAS FIRST MALLARD BRANCH AND SPRING BRANCH CIRCLED SO IT WAS INCLUDED IN THE POLYGON.
Ecological: TIDAL ESTUARINE MARSH
General: 21 CAPTURED, STANDARD LENGTH RANGE (PRESUMED IN MILLIMETERS, INFO NOT GIVEN) IS 64-175MM, TOTAL WEIGHT RANGE IS 4.24-91.2GM (PRESUMED IN GRAMS, INFO NOT GIVEN), 1998.
Owner/Manager: UNKNOWN

Occurrence No. 5	Map Index: 40823	EO Index: 40823	Dates Last Seen
Occ Rank: Unknown			Element: 1998-05-15
Origin: Natural/Native occurrence			Site: 1998-05-15
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1999-02-10

Quad Summary: Vine Hill (3812211/482D), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.11125° / -122.09891°	Township: 03N
UTM: Zone-10 N4218542 E578994	Range: 02W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Section: 17 Qtr: XX
	Symbol Type: POLYGON Meridian: M

Location: GOODYEAR SLOUGH, JUST EAST OF RAILROAD TRACKS, WESTERN BOUNDARY OF MORROW ISLAND, SUISUN MARSH.
Ecological: TIDAL ESTUARINE MARSH.
General: 15 CAPTURED BETWEEN 20 MARCH AND 15 MAY 1998, STANDARD LENGTH RANGE (PRESUMED IN MILLIMETERS, INFO NOT GIVEN) IS 118-300 MM, TOTAL WEIGHT RANGE IS 32.2-500 GRAMS (PRESUMED IN GRAMS INFO NOT GIVEN).
Owner/Manager: UNKNOWN

Occurrence No. 6	Map Index: 40824	EO Index: 40824	Dates Last Seen
Occ Rank: Unknown			Element: 1998-06-04
Origin: Natural/Native occurrence			Site: 1998-06-04
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1999-02-10

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.20936° / -121.90697°	Township: 04N
UTM: Zone-10 N4229609 E595693	Range: 01E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Section: 07 Qtr: XX
	Symbol Type: POLYGON Meridian: M

Location: DENVERTON SLOUGH, DENVERTON, SW OF HIGHWAY 12, SUISUN MARSH.
Ecological: TIDAL ESTUARINE MARSH
General: 2 CAPTURED, STANDARD LENGTH RANGE (PRESUMED IN MILLIMETERS, INFO NOT GIVEN) IS 148-155MM, TOTAL WEIGHT RANGE IS 57.5-73.4 GRAMS (PRESUMED IN GRAMS, INFO NOT GIVEN), 4 JUNE 1998.
Owner/Manager: UNKNOWN

Rallus longirostris obsoletus

California clapper rail

Element Code: ABNME05016

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G5T1	CDFG Status:
State: Endangered	State: S1	

Habitat Associations

General: SALT-WATER & BRACKISH MARSHES TRAVERSED BY TIDAL SLOUGHS IN THE VICINITY OF SAN FRANCISCO BAY.
Micro: ASSOCIATED WITH ABUNDANT GROWTHS OF PICKLEWEED, BUT FEEDS AWAY FROM COVER ON INVERTEBRATES FROM MUD-BOTTOMED SLOUGHS.

Occurrence No. 67	Map Index: 09833	EO Index: 6760	Dates Last Seen
Occ Rank: Excellent			Element: 2003-10-02
Origin: Natural/Native occurrence			Site: 2003-10-02
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-02-02

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.19401° / -122.03096°	Township: 04N
UTM: Zone-10 N4227785 E584854	Range: 02W
Area:	Section: 13
Elevation: 10 ft	Qtr: XX
Mapping Precision: NON-SPECIFIC	Meridian: M
Symbol Type: POLYGON	

Location: SUISUN SLOUGH EAST TO JUST EAST OF SECOND MALLARD SLOUGH, AND INCLUDING CUTOFF SLOUGH, S OF SUISUN CITY.
Location Detail: 1987: RUSH RANCH (BETWEEN SUISUN SLOUGH AND FIRST MALLARD SLOUGH); IN FIRST AND SECOND MALLARD SLOUGH.
Ecological: HABITAT IS WETLAND MARSH WITH SPARTINA, BACCHARIS, AND SCIRPUS SPP. OTHER PLANTS INCLUDE TYPHA SP. AND TRIGLOCHIN MARITIMA. EXCELLENT HABITAT WITHOUT DIKES AND FREE MOVEMENT OF TIDES. OTHER SPECIES: SALT MARSH HARVEST MOUSE, CA BLACK RAIL
Threat: POTENTIAL THREAT: LAND IS FOR SALE.
General: DEC 1978: 2 HEARD. MAR 1979: 6 DETECTED. FOLLOWING DETECTIONS IN DEC: 1986,4; 1987, 9; 1988, 2; 1989, 2; 1990, 2; 1991, 3; 1992, 2. 1991/93/94: 7 DETECTIONS. OCT 2003: 6. NO CLAPPER RAILS IN '75, '76, '79, OR '85.

Owner/Manager: UNKNOWN, PVT, DFG

Occurrence No. 80	Map Index: 33653	EO Index: 30261	Dates Last Seen
Occ Rank: Excellent			Element: 1991-05-15
Origin: Natural/Native occurrence			Site: 1991-05-15
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-02-18

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.20972° / -122.03974°	Township: 04N
UTM: Zone-10 N4229520 E584068	Range: 02W
Radius: 1/5 mile	Section: 12
Elevation: 3 ft	Qtr: NW
Mapping Precision: NON-SPECIFIC	Meridian: M
Symbol Type: POINT	

Location: BOYNTON SLOUGH, AT THE SUISUN SLOUGH JUNCTION, 1.5 MILES SOUTH OF SUISUN CITY.
Ecological: HABITAT CONSISTS OF MUDFLATS/COASTAL BRACKISH MARSH.
Threat: POSSIBLE THREAT FROM DWR'S BOYNTON-CORDELIA SLOUGH SOUTHERN ALIGNMENT (SALINITY CONTROL PROJECT).
General: 1 INDIVIDUAL OBSERVED ON 15 MAY 1991.

Owner/Manager: UNKNOWN

Rallus longirostris obsoletus

California clapper rail

Element Code: ABNME05016

Status	NDDB Element Ranks	Other Lists
Federal: Endangered State: Endangered	Global: G5T1 State: S1	CDFG Status:

Habitat Associations

General: SALT-WATER & BRACKISH MARSHES TRAVERSED BY TIDAL SLOUGHS IN THE VICINITY OF SAN FRANCISCO BAY.
Micro: ASSOCIATED WITH ABUNDANT GROWTHS OF PICKLEWEED, BUT FEEDS AWAY FROM COVER ON INVERTEBRATES FROM MUD-BOTTOMED SLOUGHS.

Occurrence No. 86	Map Index: 59145	EO Index: 59181	Dates Last Seen
Occ Rank: Good			Element: 2003-08-26
Origin: Natural/Native occurrence			Site: 2003-08-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-01-06

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.15785° / -122.05837°	UTM: Zone-10 N4223748 E582495	Radius: 80 meters	Elevation: 0 ft	Mapping Precision: SPECIFIC	Symbol Type: POINT	Township: 04N	Range: 02W	Section: 26	Meridian: M	Qtr: SW
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Location: NEAR JOICE ISLAND/HUNTER CUT, SUISUN SLOUGH.

Ecological: HABITAT CONSISTS OF NARROW FRINGING TIDAL BRACKISH MARSH CHARACTERIZED BY SCIRPUS ACTUS. ADJACENT LAND USE: MOSTLY WATERFOWL HUNTING.

General: 2 DETECTED ON 26 AUG 2003 IN A BOAT SURVEY.

Owner/Manager: PVT

Occurrence No. 94	Map Index: 59459	EO Index: 59495	Dates Last Seen
Occ Rank: Unknown			Element: 1993-12-XX
Origin: Natural/Native occurrence			Site: 1993-12-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-01-20

Quad Summary: Denverton (3812128/481B), Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.22600° / -121.99629°	UTM: Zone-10 N4231367 E587852	Area:	Elevation: 5 ft	Mapping Precision: NON-SPECIFIC	Symbol Type: POLYGON	Township: 04N	Range: 01W	Section: 05	Meridian: M	Qtr: XX
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Location: MAINLY ALONG HILL SLOUGH, EAST OF MCCOY CREEK TO UNION CREEK, 3 MILES ESE OF FAIRFIELD.

Location Detail: 1992 AND 1993: HILL SLOUGH AT UNION CREEK SURVEY AREA.

Ecological: HABITAT CONSISTS OF A TIDAL MARSH.

General: RAILS WERE DETECTED DURING SURVEY BY CANOE ON 27 FEB, 2 APR AND 5 MAY 1992. RAILS WERE ALSO DETECTED DURING THE 1993 BREEDING SEASON AND DEC 1993 SURVEY. DETECTIONS OCCURRED AT 9 LOCATIONS WITHIN THIS AREA.

Owner/Manager: DFG-HILL SLOUGH WA

Occurrence No. 95	Map Index: 59475	EO Index: 59511	Dates Last Seen
Occ Rank: Unknown			Element: 1994-XX-XX
Origin: Natural/Native occurrence			Site: 1994-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-01-20

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.22445° / -122.01216°	UTM: Zone-10 N4231180 E586465	Radius: 1/10 mile	Elevation: 5 ft	Mapping Precision: NON-SPECIFIC	Symbol Type: POINT	Township: 04N	Range: 01W	Section: 06	Meridian: M	Qtr: NE
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Location: HILL SLOUGH, JUST EAST OF MCCOY CREEK, 2.5 MILES ESE OF FAIRFIELD.

Ecological: HABITAT CONSISTS OF A TIDAL MARSH.

General: CLAPPER RAILS DETECTED DURING THE 1993 BREEDING SEASON AND DURING 1994.

Owner/Manager: DFG-HILL SLOUGH WA

Rallus longirostris obsoletus

California clapper rail

Element Code: ABNME05016

Status	NDDB Element Ranks	Other Lists
Federal: Endangered State: Endangered	Global: G5T1 State: S1	CDFG Status:

Habitat Associations

General: SALT-WATER & BRACKISH MARSHES TRAVERSED BY TIDAL SLOUGHS IN THE VICINITY OF SAN FRANCISCO BAY.
Micro: ASSOCIATED WITH ABUNDANT GROWTHS OF PICKLEWEED, BUT FEEDS AWAY FROM COVER ON INVERTEBRATES FROM MUD-BOTTOMED SLOUGHS.

Occurrence No. 96	Map Index: 59489	EO Index: 59525	Dates Last Seen
Occ Rank: Excellent			Element: 1992-12-21
Origin: Natural/Native occurrence			Site: 1992-12-21
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-01-20

Quad Summary: Fairfield South (3812221/482A), Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.19110° / -122.00251°	Township: 04N
UTM: Zone-10 N4227489 E587350	Range: 01W
Area:	Section: 17
Elevation: 10 ft	Qtr: /
Mapping Precision: NON-SPECIFIC	Meridian: M
Symbol Type: POLYGON	

Location: CUTOFF SLOUGH, EAST OF SECOND MALLARD BRANCH, NORTH OF GRIZZLY ISLAND.

Ecological: HABITAT CONSISTS OF CORD GRASS ALONG THE SLOUGHS WITH PICKLE WEED IN HIGHER AREAS.

General: CLAPPER RAILS DETECTED ALONG CUTOFF SLOUGH DURING 1991 CHRISTMAS BIRD COUNT. CLAPPER RAILS NOT DETECTED DURING THE 1992 BREEDING SURVEY; HOWEVER, 2 WERE HEARD ON 21 DEC 1992.

Owner/Manager: DFG

Occurrence No. 97	Map Index: 59551	EO Index: 59587	Dates Last Seen
Occ Rank: Unknown			Element: 1991-XX-XX
Origin: Natural/Native occurrence			Site: 1992-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-01-24

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.18525° / -121.98796°	Township: 04N
UTM: Zone-10 N4226853 E588631	Range: 01W
Area:	Section: 16
Elevation: 4 ft	Qtr: XX
Mapping Precision: NON-SPECIFIC	Meridian: M
Symbol Type: POLYGON	

Location: MOUTH OF CUTOFF SLOUGH, NEAR MONTEZUMA SLOUGH, SOUTHEAST SIDE OF JOICE ISLAND

Location Detail: 1 DETECTION EAST OF AND TWO DETECTIONS WEST OF CUTOFF SLOUGH.

General: 3 DETECTIONS ALONG CUTOFF SLOUGH DURING THE 1991 CHRISTMAS BIRD COUNT. RAILS NOT OBSERVED DURING 1992 BREEDING

Owner/Manager: DFG

Occurrence No. 98	Map Index: 59510	EO Index: 59546	Dates Last Seen
Occ Rank: Unknown			Element: 1994-XX-XX
Origin: Natural/Native occurrence			Site: 1994-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-01-20

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.13524° / -122.08319°	Township: 03N
UTM: Zone-10 N4221217 E580346	Range: 02W
Radius: 1/10 mile	Section: 03
Elevation: 5 ft	Qtr: /
Mapping Precision: NON-SPECIFIC	Meridian: M
Symbol Type: POINT	

Location: ALONG SUISUN SLOUGH AT NORTH TIP OF MORROW ISLAND, EAST OF GRIZZLY BAY.

Ecological: HABITAT CONSISTS OF A FRINGE MARSH.

General: RAILS DETECTED AT THIS LOCATION DURING A 1994 SURVEY.

Owner/Manager: UNKNOWN

Rana aurora draytonii

California red-legged frog

Element Code: AAABH01022

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G4T2T3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: LOWLANDS & FOOTHILLS IN OR NEAR PERMANENT SOURCES OF DEEP WATER WITH DENSE, SHRUBBY OR EMERGENT RIPARIAN VEGETATION.
Micro: REQUIRES 11-20 WEEKS OF PERMANENT WATER FOR LARVAL DEVELOPMENT. MUST HAVE ACCESS TO ESTIVATION HABITAT.

Occurrence No. 306	Map Index: 41245	EO Index: 41245	Dates Last Seen
Occ Rank: Good			Element: 2005-07-14
Origin: Natural/Native occurrence			Site: 2005-07-14
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-06-11

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.15774° / -122.12135°	Township: 04N
UTM: Zone-10 N4223681 E576977	Range: 02W
Radius: 80 meters	Section: 30
Elevation: 145 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: 0.85 MILE NNW OF THE INTERSECTION OF MARSHVIEW ROAD AND I-680, 6 MILES SW OF FAIRFIELD.

Ecological: HABITAT CONSISTS OF A PERMANENT STOCK POND; VEGETATED BY GRAZED NATIVE AND INTRODUCED GRASSES AND A FEW STUNTED WILLOW TREES. SITE CONSISTS OF AN OLD QUARRY AREA, SURROUNDED BY SEVERAL PITS FILLED WITH WATER.

Threat: THREATENED BY PROPOSED DEVELOPMENT (CORDELIA SHOOTING RANGE), GRAZING, AND BULLFOGS.

General: 1 JUVENILE COLLECTED (MRJ 1463) ON 9 APR 1999 AND DEPOSITED AT CAS. 1 ADULT OBSERVED ON 14 JUL 2005.

Owner/Manager: SOLANO LAND TRUST

Occurrence No. 857	Map Index: 63729	EO Index: 63824	Dates Last Seen
Occ Rank: Fair			Element: 2005-10-27
Origin: Natural/Native occurrence			Site: 2005-10-27
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-01-23

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.14570° / -122.12383°	Township: 04N
UTM: Zone-10 N4222343 E576772	Range: 02W
Radius: 80 meters	Section: 31
Elevation: 145 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: 0.75 MILE WEST OF I-680, 0.75 MILE SW OF FAIRFIELD

Location Detail: THIS SITE IS CURRENTLY (2005) IN THE PROCESS OF BEING RESTORED (WILLOW PLANTINGS, LIMITED CATTLE ACCESS) BY SOLANO LAND TRUST.

Ecological: HABITAT CONSISTS OF A SPRING-FED POOL IN OAK SAVANNAH. POND HAS A SILT SUBSTRATE WITH RYE GRASS EMERGENT. AN OAK RIPARIAN AREA IS LOCATED ~25 METERS TO THE SW.

Threat: POSSIBLE THREAT FROM BULLFROGS LOCATED IN A POOL 1KM NORTH OF THIS SITE.

General: 3 ADULTS OBSERVED ON 27 OCT 2005.

Owner/Manager: SOLANO LAND TRUST

Rana boyllii

foothill yellow-legged frog

Element Code: AAABH01050

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 202	Map Index: 42216	EO Index: 42216	Dates Last Seen
Occ Rank: Excellent			Element: 2004-06-05
Origin: Natural/Native occurrence			Site: 2004-06-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-09-28

Quad Summary: Mt. Vaca (3812241/499A), Monticello Dam (3812251/515D)
County Summary: Solano

Lat/Long: 38.50158° / -122.09979°	Township: 08N
UTM: Zone-10 N4261853 E578494	Range: 02W
Area: 26.6 acres	Section: 32
Elevation: 500 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: COLD CANYON CREEK, 0.5 MILE UPSTREAM FROM HIGHWAY 128, SE OF LAKE BERRYESSA.
Location Detail: SITE IS LOCATED DOWNSTREAM OF THE TRAIL CROSSING IN THE COLD CANYON PRESERVE.
Ecological: HABITAT CONSISTS OF A COBBLE AND BOULDER-STREWN PERENNIAL CREEK, WITHIN A RIPARIAN CORRIDOR; SURROUNDED BY WOODLAND.
General: 100+ JUVENILES OBSERVED ON 25 JUN 1999. 2 ADULTS OBSERVED ON 5 JUN 2004.
Owner/Manager: UC-BERKELEY

Occurrence No. 388	Map Index: 49273	EO Index: 53138	Dates Last Seen
Occ Rank: Fair			Element: 2002-09-30
Origin: Natural/Native occurrence			Site: 2002-09-30
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-11-04

Quad Summary: Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.28615° / -122.08603°	Township: 05N
UTM: Zone-10 N4237960 E579932	Range: 02W
Radius: 80 meters	Section: 16
Elevation: 160 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: UNNAMED TRIBUTARY OF LEDGEWOOD CREEK, 1.8 KM EAST OF MANKAS CORNER, NW OF FAIRFIELD
Location Detail: POOL WITH FROGS IS IN THE BOTTOM OF A NARROW RAVINE, INCISED 3 METERS BELOW TERRACE VEGETATED WITH GRASSLAND.
Ecological: HABITAT CONSISTS OF A SMALL, DEEP, POOL BELOW A GOLF COURSE OUTFALL. STREAM WAS FORMERLY EPHEMERAL, BUT IS NOW PERENNIAL BECAUSE OF GOLF COURSE TAILWATER. CREEK LACKS WOODY RIPARIAN VEGETATION; ONLY RIPARIAN PLANTS ARE SPARSE WETLAND WEEDS.
Threat: THREATENED BY GRAZING, PLANNED URBAN DEVELOPMENT, AND SMALL POPULATION SIZE.
General: 2 ADULTS OBSERVED ON 30 SEP 2002.
Owner/Manager: PVT

Occurrence No. 401	Map Index: 54623	EO Index: 54623	Dates Last Seen
Occ Rank: Good			Element: 2003-08-07
Origin: Natural/Native occurrence			Site: 2003-08-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-03-09

Quad Summary: Mt. Vaca (3812241/499A)
County Summary: Solano

Lat/Long: 38.38658° / -122.06170°	Township: 06N
UTM: Zone-10 N4249126 E581946	Range: 02W
Area:	Section: 10
Elevation: 600 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: ALAMO CREEK, IN GATES CANYON, 3 MILES NW OF VACAVILLE.
Ecological: HABITAT CONSISTS OF A POOL ALONG GATES CANYON ROAD; SURROUNDED BY GRAZED MIXED OAK WOODLAND, SCRUB ALONG HILL SLOPES, AND OAKS AND WILLOWS ALONG CREEK. CREEK SUBSTRATE IS SAND, WITH SMALL GRAVEL IN POOL.
General: 6 LARVAE AND 2 METAMORPHS OBSERVED ON 7 AUG 2003.
Owner/Manager: PVT

Rana boylei

foothill yellow-legged frog

Status _____ NDDB Element Ranks _____ Element Code: AAABH01050
 Federal: None Global: G3 Other Lists _____
 State: None State: S2S3 CDFG Status: SC

Habitat Associations _____

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 408 **Map Index:** 57059 **EO Index:** 57075 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2004-06-05
Origin: Natural/Native occurrence **Site:** 2004-06-05
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2004-09-28

Quad Summary: Mt. Vaca (3812241/499A)

County Summary: Solano

Lat/Long: 38.38100° / -122.04857° **Township:** 06N
UTM: Zone-10 N4248517 E583099 **Range:** 02W
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 11 **Qtr:** NE
Elevation: 425 ft **Symbol Type:** POINT **Meridian:** M

Location: ALAMO CREEK, 1.1 MILES WEST OF THE JUNCTION OF LAGOON VALLEY ROAD AND PLEASANTS VALLEY ROAD, NW OF VACAVILLE.
Location Detail: SITE IS LOCATED ~2 MILES UP GATES CANYON ROAD, WHERE THE STREAM COMES CLOSEST TO THE ROAD.
Ecological: HABITAT CONSISTS OF A ROCKY STREAMCOURSE WITH AN OPEN/PARTIAL CANOPY OF NATIVE VEGETATION, INCLUDING SALIX SP AND SAMBUCUS MEXICANA.
Threat: POSSIBLE THREAT FROM THE PROXIMITY OF THE PAVED ROAD (GATES CANYON ROAD).
General: ON 5 JUN 2004, 2 ADULTS WERE OBSERVED BASKING ON MOIST ROCKS ADJACENT TO A CLEAR POOL.
Owner/Manager: PVT

Occurrence No. 409 **Map Index:** 57061 **EO Index:** 57077 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2004-05-30
Origin: Natural/Native occurrence **Site:** 2004-05-30
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2004-09-28

Quad Summary: Mt. Vaca (3812241/499A)

County Summary: Solano

Lat/Long: 38.40943° / -122.06610° **Township:** 07N
UTM: Zone-10 N4251657 E581536 **Range:** 02W
Radius: 80 meters **Mapping Precision:** SPECIFIC **Section:** 34 **Qtr:** SE
Elevation: 700 ft **Symbol Type:** POINT **Meridian:** M

Location: ULATIS CREEK, ALONG MIX CANYON ROAD, 1.5 MILES WEST OF LAGOON VALLEY ROAD, NW OF VACAVILLE
Location Detail: SITE IS LOCATED UPSTREAM OF MILE MARKER 2.4.
Ecological: HABITAT CONSISTS OF MOIST ROCKS WITHIN THE CREEK, COBBLE AND BOULDER SUBSTRATE, AND CLEAR, DEEP POOLS. ULATIS CREEK IS A FLOWING, ROCKY STREAM WITH AN OPEN/PARTIAL CANOPY OF NATIVE VEGETATION.
Threat: THREATENED BY POSSIBLE POLLUTION FROM A VINEYARD LOCATED UPSTREAM AND USE OF THE AREA AS A DUMPING GROUND FOR JUNK CARS.
General: 13 ADULTS AND 10 TADPOLES OBSERVED ON 30 MAY 2004.
Owner/Manager: PVT

Rana boylei

foothill yellow-legged frog

Element Code: AAABH01050

Status

NDDB Element Ranks

Other Lists

Federal: None

Global: G3

CDFG Status: SC

State: None

State: S2S3

Habitat Associations

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.

Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 448

Map Index: 68577

EO Index: 68954

Dates Last Seen

Occ Rank: Excellent

Element: 2006-06-11

Origin: Natural/Native occurrence

Site: 2006-06-11

Presence: Presumed Extant

Trend: Unknown

Record Last Updated: 2007-04-04

Quad Summary: Mt. Vaca (3812241/499A)

County Summary: Solano

Lat/Long: 38.48574° / -122.08607°

Township: 07N

UTM: Zone-10 N4260107 E579708

Range: 02W

Radius: 80 meters

Mapping Precision: SPECIFIC

Section: 04

Qtr: NE

Elevation: 1,160 ft

Symbol Type: POINT

Meridian: M

Location: WILD HORSE CREEK, ~1.2 MILES UPSTREAM OF THE CONFLUENCE WITH COLD CANYON CREEK, STEBBINS COLD CANYON RESERVE

Ecological: HABITAT CONSISTS OF A SMALL CREEK THAT NORMALLY FLOWS YEAR-ROUND, BUT MAY GO DRY IN PLACES DURING PERIODS OF LOW RAINFALL; SUBSTRATE IS ROCKY, WITH PLUNGE POOLS AND RIFFLES. VEGETATION IS TYPICAL OF RIPARIAN ALONG INNER COAST RANGE STREAMS.

General: 25+ ADULT AND SUB-ADULT FROGS OBSERVED ON 11 JUN 2006.

Owner/Manager: UCNR-COLD CANYON RESERVE

Reithrodontomys raviventris

salt-marsh harvest mouse

Element Code: AMAFF02040

Status	NDDB Element Ranks	Other Lists
Federal: Endangered State: Endangered	Global: G1G2 State: S1S2	CDFG Status:

Habitat Associations

General: ONLY IN THE SALINE EMERGENT WETLANDS OF SAN FRANCISCO BAY AND ITS TRIBUTARIES.
Micro: PICKLEWEED IS PRIMARY HABITAT. DO NOT BURROW, BUILD LOOSELY ORGANIZED NESTS. REQUIRE HIGHER AREAS FOR FLOOD ESCAPE.

Occurrence No. 11	Map Index: 10035	EO Index: 14565	Dates Last Seen
Occ Rank: Good			Element: 2003-09-XX
Origin: Natural/Native occurrence			Site: 2003-09-XX
Presence: Presumed Extant			
Trend: Stable			Record Last Updated: 2008-04-08

Quad Summary: Honker Bay (3812118/481C), Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.11967° / -121.96797°	Township: 03N
UTM: Zone-10 N4219596 E590463	Range: 01E
Area: 708.4 acres	Section: 10
Elevation: 3 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: NW PART OF HAMMOND ISLAND, SW CORNER OF GRIZZLY ISLAND WILDLIFE AREA, 10 MILES SSW OF FAIRFIELD.
Location Detail: AREA CONSISTS OF PARTS OF PONDS 14, 15, AND 16. SW PORTION OF AREA TRAPPED BY SCHAUB IN 1971. 12/21-24/87 TRAPPING BY BOTTI SAMPLED ALL VEG TYPES, FROM SALICORNIA TO ANNUAL GRASS/HERB MIX. 1994 REPORT, SAMPLING DONE FROM 1985 TO 1994.
Ecological: HABITAT CONSISTS OF A MANAGED MARSH, DOMINATED BY PICKLEWEED, WITH SOME WEEDY SPECIES AT THE EASTERN END OF POND 15. POND 14 IS MANAGED WITH TALL WHEATGRASS/ANNUAL GRASSES. SURROUNDING AREA MANAGED FOR WATERFOWL AND PHEASANT HUNTING.
General: 15 CAP/5 RECAPS, 1971. 7 CAP, DEC 1987. 2 CAPTURES, 1996. 40 CAPTURED, JUN 2000. 71 CAPTURED, MAY-OCT 2001. 43 CAPTURED, JUN 2002. 1 AD CAPTURED, JUL 2002. 37 CAPTURED, SEP 2002 AT 6 SITES. 151 CAP, MAY-SEP 2003.

Owner/Manager: DFG-GRIZZLY ISLAND WA

Occurrence No. 12	Map Index: 09974	EO Index: 23876	Dates Last Seen
Occ Rank: Unknown			Element: 1971-XX-XX
Origin: Natural/Native occurrence			Site: 1971-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1989-08-10

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.13047° / -121.98691°	Township: 03N
UTM: Zone-10 N4220776 E588790	Range: 01W
Radius: 1/5 mile	Section: 4
Elevation: 2 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: GRIZZLY ISLAND, 7 MI SE OF FAIRFIELD, INTERTIDAL OF GRIZZLY BAY.
Location Detail: 4 SMHM CAPTURED.
Ecological: HABITAT CONSISTS OF SALICORNIA-DOMINATED TIDAL SALT MARSH.

Owner/Manager: DFG-GRIZZLY ISLAND WA

Occurrence No. 13	Map Index: 09743	EO Index: 23878	Dates Last Seen
Occ Rank: Unknown			Element: 1971-XX-XX
Origin: Natural/Native occurrence			Site: 1971-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-10-20

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.17630° / -122.05136°	Township: 04N
UTM: Zone-10 N4225801 E583089	Range: 02W
Radius: 1/5 mile	Section: 23
Elevation: 3 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: JOICE ISLAND, JUST S OF VOLANTI SLOUGH, APPROX 3 MI S OF SUISUN CITY.
Ecological: HABITAT CONSISTS OF DIKED SALT MARSH DOMINATED BY SALICORNIA.
General: 14 SMHM CAPTURED DURING 1971 TRAPPING EFFORT.

Owner/Manager: DFG-GRIZZLY ISLAND WA

Reithrodontomys raviventris

salt-marsh harvest mouse

Element Code: AMAFF02040

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: Endangered **Global:** G1G2 **CDFG Status:**
 State: Endangered **State:** S1S2

Habitat Associations

General: ONLY IN THE SALINE EMERGENT WETLANDS OF SAN FRANCISCO BAY AND ITS TRIBUTARIES.
Micro: PICKLEWEED IS PRIMARY HABITAT. DO NOT BURROW, BUILD LOOSELY ORGANIZED NESTS. REQUIRE HIGHER AREAS FOR FLOOD ESCAPE.

Occurrence No. 71 **Map Index:** 09838 **EO Index:** 23860 **Dates Last Seen** _____
Occ Rank: None **Element:** 1996-07-17
Origin: Natural/Native occurrence **Site:** 1996-07-17
Presence: Possibly Extirpated
Trend: Unknown **Record Last Updated:** 1997-11-13

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.22796° / -122.02246° **Township:** 04N
UTM: Zone-10 N4231559 E585559 **Range:** 02W
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 6 **Qtr:** XX
Elevation: 1 ft **Symbol Type:**POINT **Meridian:** M

Location: HILL SLOUGH WILDLIFE AREA, ONE MI S OF GRIZZLY ISL RD/HWY 12 INTERSECT, ON W SIDE OF RD.
Location Detail: AREA WAS TRAPPED FOR 3 CONSECUTIVE NIGHTS (300 TRAPNIGHTS); 11 CAPTURES.
Ecological: THIS MARSH AREA IS UNUSUAL IN THAT IT CONTAINS MINIMAL AMOUNTS OF PICKLEWEED W/FAT HEN (ATRIPLEX PATULA) AS DOMINANT PLANT SPECIES (45 PERCENT).
General: 1 INDIVIDUAL OBSERVED, 1996.
Owner/Manager: DFG-HILL SLOUGH WA

Occurrence No. 111 **Map Index:** 09931 **EO Index:** 23840 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1985-12-XX
Origin: Natural/Native occurrence **Site:** 1985-12-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1989-08-10

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.18435° / -121.99746° **Township:** 04N
UTM: Zone-10 N4226744 E587800 **Range:** 01W
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 20 **Qtr:** XX
Elevation: 3 ft **Symbol Type:**POINT **Meridian:** M

Location: JOICE ISLAND, APPROX 3 MILES SE OF FAIRFIELD.
Location Detail: 2 SMHM CAPTURED DURING 300 TRAPNIGHTS.
Ecological: DIKED SALT MARSH, OPERATED OFF AND ON AS A WATERFOWL HUNTING AREA. AT PRESENT TIME IT IS USED FOR WATERFOWL RESTING/FEEDING AREA, AND NO HUNTING IS ALLOWED.
General: TRAPPING WAS PART OF A 13 AREA SURVEY CONDUCTED FROM OCTOBER TO DECEMBER 1985.
Owner/Manager: DFG-GRIZZLY ISLAND WA, UNKNOWN

Occurrence No. 112 **Map Index:** 09903 **EO Index:** 23839 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-11
Origin: Natural/Native occurrence **Site:** 2005-08-11
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2008-04-07

Quad Summary: Fairfield South (3812221/482A), Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.23011° / -121.99702° **Township:** 05N
UTM: Zone-10 N4231822 E587784 **Range:** 01W
Area: 681.6 acres **Mapping Precision:**SPECIFIC **Section:** 32 **Qtr:** XX
Elevation: 3 ft **Symbol Type:**POLYGON **Meridian:** M

Location: HILL SLOUGH, SOUTH OF HIGHWAY 12 AND NORTH OF POTRERO HILLS, 2 MILES SE OF FAIRFIELD.
Location Detail: HILL SLOUGH SMHM CONSERVATION AREA MAKES UP THE SOUTHERN PORTION OF THIS SITE (SOUTH SIDE OF HILL SLOUGH). TRAPPING SITES VARY FROM YEAR TO YEAR.
Ecological: HABITAT CONSISTS OF TIDAL MARSH DOMINATED PRIMARILY BY SALICORNIA AND SECONDARILY BY DISTICHLIS. IN 2002 PICKLEWEED WAS RATHER SHORT AND SPARSE. CORDYLANTHUS MOLLIS MOLLIS AND BLACK RAIL ALSO FOUND HERE.
Threat: POSSIBLE THREAT FROM HUMAN AND DOG USE OF THE AREA, URBAN ENCROACHMENT, AND STORM RUN-OFF.
General: 1985: 1 TRAPPED. 1987: 8 TRAPPED. 1999: 24 TRAPPED. 2000: 15 TRAPPED. 2001: 19 TRAPPED. 2001: 5 TRAPPED. 2002: 8 TRAPPED. 2002: 39 TRAPPED. 2002: 44 TRAPPED. 2003: NUMEROUS TRAPPED. 2004: 22 TRAPPED. 2005: 35 TRAPPED.
Owner/Manager: DFG-HILL SLOUGH WA

Reithrodontomys raviventris

salt-marsh harvest mouse

Element Code: AMAFF02040

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: Endangered **Global:** G1G2 **CDFG Status:**
 State: Endangered **State:** S1S2

Habitat Associations

General: ONLY IN THE SALINE EMERGENT WETLANDS OF SAN FRANCISCO BAY AND ITS TRIBUTARIES.
Micro: PICKLEWEED IS PRIMARY HABITAT. DO NOT BURROW, BUILD LOOSELY ORGANIZED NESTS. REQUIRE HIGHER AREAS FOR FLOOD ESCAPE.

Occurrence No. 114 **Map Index:** 09765 **EO Index:** 23837 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1986-10-04
Origin: Natural/Native occurrence **Site:** 1986-10-04
Presence: Presumed Extant
Trend: Decreasing **Record Last Updated:** 1995-10-27

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.24046° / -122.04663° **Township:** 05N
UTM: Zone-10 N4232924 E583430 **Range:** 02W
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 35 **Qtr:** XX
Elevation: 3 ft **Symbol Type:**POINT **Meridian:** M

Location: JUST SOUTH OF FAIRFIELD AND JUST WEST OF SUISUN CITY.
Location Detail: SITE TRAPPED FROM SEPT 8 TO OCT 4, FOR A TOTAL OF 1800 TRAPNIGHTS, WITH 10 R. RAVIVENTRIS CAPTURED.
Ecological: AT TIME OF TRAPPING, MOST OF SITE DOMINATED BY PICKLEWEED (SALICORNIA). SOON AFTER TRAPPING, MAJORITY OF SITE WAS DISKED AND PLANTED WITH GRASSES BY OWNER. ONLY EASTERN EDGE LEFT INTACT.
Owner/Manager: PVT-GENTRY/PIERCE PROPERTY

Occurrence No. 121 **Map Index:** 09859 **EO Index:** 14538 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2004-07-XX
Origin: Natural/Native occurrence **Site:** 2004-07-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2005-03-21

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.23693° / -122.01472° **Township:** 05N
UTM: Zone-10 N4232562 E586227 **Range:** 01W
Area: **Mapping Precision:**NON-SPECIFIC **Section:** 31 **Qtr:** XX
Elevation: 4 ft **Symbol Type:**POLYGON **Meridian:** M

Location: HILL SLOUGH WEST, POND 4, 1 MILE EAST OF SUISUN CITY.
Location Detail: 1987 RELEASE SITE FOR 46 SMHM CAPTURED AT A PROPOSED DREDGE SPOIL SITE ON VAN SICKLE ISLAND. 2002: 3 SEPARATE VEGETATION TYPE WERE TRAPPED - PICKLEWEED DOMINATED, MIXED HALOPHYTE DOMINATED WITH < 40% PICKLEWEED, & UPLAND GRASS DOMINATED.
Ecological: HABITAT CONSISTS OF A MANAGED WETLAND, DOMINATED BY PICKLEWEED (SALICORNIA VIRGINICA), SALT GRASS (DISTICHLIS SPICATA) BALTIC RUSH (JUNCAS BALTICUS), FAT HEN (ATRIPLEX TRIANGULARIS) OTHER HALOPHYTES & ANNUAL GRASSES.
Threat: USED BY PEOPLE AND DOGS FOR WALKING.
General: 15 CAPTURES/1 RECAP, 21-23 JUN 1999. 19 ADS/4 JUV TRAPPED, JUN 2001. 53 TRAPPED, 17 JUN 2002. 64 TRAPPED, 19 SEP 2002. NUMEROUS CAPTURES, MAR-SEP 2 2003. 48 CAPTURES, MAR 2004. 30 CAPTURES, JUL 2004.
Owner/Manager: DFG-HILL SLOUGH WA

Occurrence No. 122 **Map Index:** 09967 **EO Index:** 14537 **Dates Last Seen** _____
Occ Rank: Good **Element:** 1999-09-21
Origin: Natural/Native occurrence **Site:** 1999-09-21
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1999-11-09

Quad Summary: Denverton (3812128/481B), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.19223° / -121.99303° **Township:** 04N
UTM: Zone-10 N4227623 E588179 **Range:** 01W
Area: 238.5 acres **Mapping Precision:**SPECIFIC **Section:** 17 **Qtr:** XX
Elevation: 3 ft **Symbol Type:**POLYGON **Meridian:** M

Location: NORTH OF CUTOFF SLOUGH AND JOICE ISLAND, SOUTH OF GRIZZLY ISLAND ROAD, WNW OF BELDON'S LANDING, 4 MILES SSE OF FAIRFIELD.
Ecological: VEG VARIABLE; PICKLEWEED DOMINATED IN AREA OF FIRST TRAP LINE (EAST PORTION), WHILE MIXTURE OF RUSHES, PICKLEWEED, AND BALTIC RUSH COMBINED. COMPOSED AREA ON WEST PORTION, WHERE SECOND TRAP LINE WAS PLACED.
General: TRAPPED 1-4 DEC 1987; 7 SMHM CAPTURES IN 300 TRAPNIGHTS. 1994 REPORT LISTED LIVE CAPTURES FROM 1985 TO 1994. 5 CAPTURES DURING 500 TRAPNIGHTS IN AUG-SEP 1999.
Owner/Manager: DFG-GRIZZLY ISLAND WA

Reithrodontomys raviventris

salt-marsh harvest mouse

Element Code: AMAFF02040

Status	NDDB Element Ranks	Other Lists
Federal: Endangered State: Endangered	Global: G1G2 State: S1S2	CDFG Status:

Habitat Associations

General: ONLY IN THE SALINE EMERGENT WETLANDS OF SAN FRANCISCO BAY AND ITS TRIBUTARIES.
Micro: PICKLEWEED IS PRIMARY HABITAT. DO NOT BURROW, BUILD LOOSELY ORGANIZED NESTS. REQUIRE HIGHER AREAS FOR FLOOD ESCAPE.

Occurrence No. 123	Map Index: 09961	EO Index: 14536	Dates Last Seen
Occ Rank: Excellent			Element: 2005-09-15
Origin: Natural/Native occurrence			Site: 2005-09-15
Presence: Presumed Extant			
Trend: Stable			Record Last Updated: 2008-04-07

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.15301° / -121.99081°	Township: 04N
UTM: Zone-10 N4223273 E588421	Range: 01W
Area: 65.2 acres	Section: 32
Elevation: 2 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: CRESCENT UNIT OF GRIZZLY ISLAND WILDLIFE AREA, 0.8 MILE WEST OF DFG HEADQUARTERS.
Location Detail: SMHM CONSERVATION AREA.
Ecological: HABITAT CONSISTS OF MANAGED NORTHERN COASTAL SALTMARSH, DOMINATED BY SALICORNIA, WITH SOME SALT GRASS, RABBITS FOOT GRASS, AND FAT HEN. VERY GOOD HABITAT WITH TRADITIONALLY HIGH TRAP SUCCESS.
Threat: THREATENED BY NON-NATIVE INVASIVE PLANTS.
General: 1987: 11 CAPS. 1996: 14 CAPS. 1999: 56 CAPS. 2000: 37 AD/3 JUV CAPS. JUL 2001: 29 AD/2 JUV CAPS. OCT 2001: 23 CAPS. APR 2002: 28 CAPS. AUG 2002: 53 CAPS. JUN 2003: 32 CAPS. AUG 2003: 32 CAPS. JUN 2005: 73 CAPS. SEP 2005: 53 CAPS.
Owner/Manager: DFG-GRIZZLY ISLAND WA

Occurrence No. 142	Map Index: 37615	EO Index: 32617	Dates Last Seen
Occ Rank: Good			Element: 2004-04-XX
Origin: Natural/Native occurrence			Site: 2004-04-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-01-13

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.19555° / -122.02673°	Township: 04N
UTM: Zone-10 N4227960 E585223	Range: 02W
Area:	Section: 13
Elevation: 1 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: RUSH RANCH, SW OF GRIZZLY ISLAND ROAD, 1.3 MILES NORTH OF MONTEZUMA SLOUGH, 3 MILES SSE OF SUISUN CITY.
Ecological: HABITAT CONSISTS OF TIDAL WETLANDS DOMINATED BY PICKLEWEED AND MIXED HALOPHYTES, AND SOME UPLAND DOMINATED BY ANNUAL GRASSES.
Threat: THREATENED BY FERAL PIGS AND SPREAD OF NON-NATIVE LEPIDIUM.
General: 4 CAPTURED IN 1985. 4 CAPTURED 1989. 26 CAPTURED ON 19 JUL 2002. 19 CAPTURED ON 18 OCT 2002. 91 CAPTURES/99 RECAPS, MAY-OCT 2003. 21 CAPTURES DURING APR 2004.
Owner/Manager: SOLANO LAND TRUST

Reithrodontomys raviventris

salt-marsh harvest mouse

Element Code: AMAFF02040

Status	NDDB Element Ranks	Other Lists
Federal: Endangered State: Endangered	Global: G1G2 State: S1S2	CDFG Status:

Habitat Associations

General: ONLY IN THE SALINE EMERGENT WETLANDS OF SAN FRANCISCO BAY AND ITS TRIBUTARIES.
Micro: PICKLEWEED IS PRIMARY HABITAT. DO NOT BURROW, BUILD LOOSELY ORGANIZED NESTS. REQUIRE HIGHER AREAS FOR FLOOD ESCAPE.

Occurrence No. 149	Map Index: 34141	EO Index: 32664	Dates Last Seen
Occ Rank: Fair			Element: 1989-11-09
Origin: Natural/Native occurrence			Site: 1989-11-09
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1998-03-10

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.17314° / -122.07912°	Township: 04N
UTM: Zone-10 N4225426 E580661	Range: 02W
Radius: 1/10 mile	Section: 22
Elevation: 1 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: DUCK CLUB AT THE END OF CHADBOURNE ROAD, 5.5 MILES (ALONG THE RR TRACKS) SW OF FAIRFIELD.
Location Detail: TRAP SITE PART OF THE DUCK CLUB.
Ecological: PICKLEWEED MARSH.
General: 150 TRAP NIGHTS, 2 CAPTURED, THE MAJORITY OF THE AREA WAS FLOODED SEVERAL INCHES. AN UNIDENTIFIED SHREW WAS ALSO CAPTURED, IT WILL BE CHECKED BY BIOLOGISTS AT UC BERKELEY TO DETERMINE IF IT IS A SUISUN SHREW.
Owner/Manager: PVT

Occurrence No. 153	Map Index: 37831	EO Index: 32838	Dates Last Seen
Occ Rank: Good			Element: 2006-06-20
Origin: Natural/Native occurrence			Site: 2006-06-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-04-07

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.22656° / -122.04552°	Township: 04N
UTM: Zone-10 N4231384 E583542	Range: 02W
Area:	Section: 02
Elevation: 10 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: PEYTONIA SLOUGH ECOLOGICAL RESERVE, JUST SOUTH OF SUISUN CITY.
Location Detail: SITE IS LOCATED EAST OF THE SOUTHERN PACIFIC RR TRACKS, NORTH OF PEYTONIA SLOUGH, AND WEST OF SUISUN SLOUGH.
Ecological: HABITAT CONSISTS OF A MUTED TIDAL MARSH, DOMINATED BY SALICORNIA VIRGINICA, DISTICHLIS SPICATA, JUNCUS BALTICUS, AND SCIRPUS AMERICANUS. FIRE IN MAY 2001 DESTROYED MUCH OF THE VEGETATION.
Threat: THREATENED BY HUMAN DISTURBANCE, DOMESTIC DOGS AND CATS, AND FIRE.
General: UNK # CAPTURED, 1985-1994. 11 ADS/1 JUV CAPTURED DURING AUG 2000. 4 ADS CAPTURED DURING JUL 2001. 2 CAPTURES/4 RECAPS 17-20 JUN 2002. 24 CAPTURED, JUN 2003. 5 CAPTURES/5 RECAPS, JUN 2004. 31 CAPTURED, 16 JUN 2005. 4 CAPTURES, 20 JUN 2006.
Owner/Manager: DFG-PEYTONIA SLOUGH ER

Occurrence No. 154	Map Index: 37832	EO Index: 32839	Dates Last Seen
Occ Rank: Unknown			Element: 1985-XX-XX
Origin: Natural/Native occurrence			Site: 1985-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1998-01-06

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.15713° / -121.99697°	Township: 04N
UTM: Zone-10 N4223724 E587876	Range: 01W
Radius: 1/5 mile	Section: 29
Elevation: 1 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: ~6.5 MI SSE OF FAIRFIELD, 1.8 MI S JOICE ISLAND, 3.5 MI WSW CONFLUENCE OF NURSE AND MONTEZUMA SLOUGH, GRIZZLY ISLAND.
Ecological: CRITICAL HABITAT IS DENSE COVER OF MARSH VEGETATION AND PRESENCE OF PERIPHERAL HIGH MARSH OR UPLAND REFUGIAL HABITAT DURING HIGH TIDE.
General: SAMPLING DONE FROM 1985 TO 1994.
Owner/Manager: UNKNOWN

Reithrodontomys raviventris

salt-marsh harvest mouse

Element Code: AMAFF02040

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: Endangered **Global:** G1G2 **CDFG Status:**
State: Endangered **State:** S1S2

Habitat Associations

General: ONLY IN THE SALINE EMERGENT WETLANDS OF SAN FRANCISCO BAY AND ITS TRIBUTARIES.
Micro: PICKLEWEED IS PRIMARY HABITAT. DO NOT BURROW, BUILD LOOSELY ORGANIZED NESTS. REQUIRE HIGHER AREAS FOR FLOOD ESCAPE.

Occurrence No. 155 **Map Index:** 37840 **EO Index:** 32847 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1985-XX-XX
Origin: Natural/Native occurrence **Site:** 1985-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1998-01-06

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.12808° / -121.92762° **Township:** 03N
UTM: Zone-10 N4220569 E593989 **Range:** 01W
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 01 **Qtr:** XX
Elevation: 1 ft **Symbol Type:**POINT **Meridian:** M

Location: GRIZZLY ISLAND, 3.2 MILES SE OF DFG HQ, 0.25 MILES SSE OF SOUTHERN END OF FROST SLOUGH, 1.4 MILES SW OF MEINS LANDING.
Ecological: CRITICAL HABITAT IS DENSE COVER OF MARSH VEGETATION AND PRESENCE OF PERIPHERAL HIGH MARSH OR UPLAND REFUGIAL HABITAT DURING HIGH TIDE.
General: LIVE TRAP CAPTURES. SAMPLING DONE FROM 1985 TO 1994.
Owner/Manager: UNKNOWN

Occurrence No. 163 **Map Index:** 41877 **EO Index:** 41877 **Dates Last Seen** _____
Occ Rank: Good **Element:** 1999-07-13
Origin: Natural/Native occurrence **Site:** 1999-07-13
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1999-11-15

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.13653° / -121.94886° **Township:** 03N
UTM: Zone-10 N4221485 E592117 **Range:** 01W
Area: 115.0 acres **Mapping Precision:**SPECIFIC **Section:** 02 **Qtr:** NW
Elevation: 0 ft **Symbol Type:**POLYGON **Meridian:** M

Location: POND 12F, BETWEEN HAMMOND ISLAND AND MONTEZUMA SLOUGH, GRIZZLY ISLAND WILDLIFE AREA.
Ecological: HABITAT CONSISTS OF A MANAGED WETLAND, DOMINATED BY PICKLEWEED, BUT INTERSPERSED WITH MANY OTHER WETLAND PLANTS.
General: 34 SMHM CAPTURES AND 11 RECAPTURES DURING 170 TRAPNIGHTS BETWEEN 12-13 JUL 1999.
Owner/Manager: DFG-GRIZZLY ISLAND WA

Occurrence No. 166 **Map Index:** 41887 **EO Index:** 41887 **Dates Last Seen** _____
Occ Rank: Poor **Element:** 1999-06-16
Origin: Natural/Native occurrence **Site:** 1999-06-16
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 1999-11-16

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.20543° / -122.01654° **Township:** 04N
UTM: Zone-10 N4229065 E586104 **Range:** 01W
Radius: 1/5 mile **Mapping Precision:**NON-SPECIFIC **Section:** 07 **Qtr:** S
Elevation: 5 ft **Symbol Type:**POINT **Meridian:** M

Location: SPRING BRANCH (CREEK), TRIBUTARY TO FIRST MALLARD BRANCH, TRIBUTARY TO SUISUN SLOUGH, SOUTH OF SUISUN CITY.
Ecological: HABITAT CONSISTS MOSTLY OF UPLAND GRASSES, BUT CONTAINS A SMALL PATCH OF PICKLEWEED WITHIN THE DRAINAGE.
General: 1 SMHM CAPTURED WITHIN THE SMALL PICKLEWEED PATCH IN 140 TRAPNIGHTS ON 15-16 JUN 1999.
Owner/Manager: PVT-RUSH RANCH

Reithrodontomys raviventris

salt-marsh harvest mouse

Element Code: AMAFF02040

Status	NDDB Element Ranks	Other Lists
Federal: Endangered State: Endangered	Global: G1G2 State: S1S2	CDFG Status:

Habitat Associations

General: ONLY IN THE SALINE EMERGENT WETLANDS OF SAN FRANCISCO BAY AND ITS TRIBUTARIES.
Micro: PICKLEWEED IS PRIMARY HABITAT. DO NOT BURROW, BUILD LOOSELY ORGANIZED NESTS. REQUIRE HIGHER AREAS FOR FLOOD ESCAPE.

Occurrence No. 167	Map Index: 41888	EO Index: 41888	Dates Last Seen
Occ Rank: Good			Element: 2006-08-04
Origin: Natural/Native occurrence			Site: 2006-08-04
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-04-08

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.23820° / -122.02480°	Township: 05N
UTM: Zone-10 N4232694 E585342	Range: 01W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 5 ft	Section: 31 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: PONDS 1 & 2, HILL SLOUGH WEST, JUST EAST OF SUISUN CITY.
Ecological: 1999: HABITAT CONSISTS MAINLY OF UPLAND, WITH SOME PICKLEWEED. 2002: MANAGED WETLAND DOMINATED BY DISTICHLIS SPICATA, ATRIPLEX TRIANGULIS, JUNCUS BALTICUS, UPLAND GRASSES, AND OTHER MIXED HALOPHYTES. URBAN DEVELOPMENT TO THE NORTH AND WEST.
Threat: POSSIBLE THREATS FROM URBAN ENCROACHMENT, STORM RUNOFF, AND HUMAN DISTURBANCE.
General: 4 SMHM CAPTURES (120 TRAPNIGHTS), 25-26 MAY 1999, IN UPLAND HABITAT. 23 CAPTURES (100 TN), 21 JUN 1999, IN PICKLEWEED HABITAT. 62 ADS/3 JUV CAP, AUG 2002. 61 CAP, SEP 2003. 79 ADS/9 JUVS CAP 28 JUL 2005. 11 CAP (784 TN), 1-4 AUG 2006.

Owner/Manager: DFG-HILL SLOUGH WA

Occurrence No. 168	Map Index: 42116	EO Index: 42116	Dates Last Seen
Occ Rank: Fair			Element: 2006-08-22
Origin: Natural/Native occurrence			Site: 2006-08-22
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-02-14

Quad Summary: Honker Bay (3812118/481C), Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.12877° / -121.90370°	Township: 03N
UTM: Zone-10 N4220670 E596084	Range: 01E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Section: 06 Qtr: SE
	Symbol Type: POLYGON
	Meridian: M

Location: NORTH OF MONTEZUMA SLOUGH AND GRIZZLY ISLAND, SOUTH OF BIRDS LANDING ROAD, WEST OF BIRDS LANDING.
Location Detail: SITE TRAPPED IN 1999 IS WITHIN THE CHEVRON PIPELINE CORRIDOR. SITE WAS PURCHASED BY DWR FOR TIDAL RESTORATION AND IS CURRENTLY LEASED BACK FOR MANAGEMENT AS A DUCK CLUB.
Ecological: A DIKED FIELD VEGETATED BY SALT MARSH VEGETATION. EXCLUSION ZONES DOMINATED BY SALICORNIA VIRGINICA, SCIRPUS SP, JUNCUS SP, ATRIPLEX TRIANGULARIS, AND DISTICHLIS SPICATA. LARGER, MORE VIGOROUS STANDS OF PICKLEWEED OUTSIDE PIPELINE CORRIDOR.
Threat: THREATENED BY REPAIR/MAINTENANCE OF AN EXISTING CHEVRON PIPELINE.
General: 4 ADULTS AND 3 JUVENILES WERE TRAPPED, 19-25 JUL 1999. TWO AREAS WERE SURVEYED FOR SMHM; 7 CAPTURES ON 22 AUG 2006.
Owner/Manager: DWR/DFG

Reithrodontomys raviventris

salt-marsh harvest mouse

Element Code: AMAFF02040

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: Endangered **Global:** G1G2 **CDFG Status:**
 State: Endangered **State:** S1S2

Habitat Associations

General: ONLY IN THE SALINE EMERGENT WETLANDS OF SAN FRANCISCO BAY AND ITS TRIBUTARIES.
Micro: PICKLEWEED IS PRIMARY HABITAT. DO NOT BURROW, BUILD LOOSELY ORGANIZED NESTS. REQUIRE HIGHER AREAS FOR FLOOD ESCAPE.

Occurrence No. 170 **Map Index:** 54417 **EO Index:** 54417 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2001-08-XX
Origin: Natural/Native occurrence **Site:** 2001-08-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2004-02-11

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.17296° / -121.96769° **Township:** 04N
UTM: Zone-10 N4225509 E590421 **Range:** 01W
Area: **Mapping Precision:**NON-SPECIFIC **Section:** 22 **Qtr:** XX
Elevation: 0 ft **Symbol Type:**POLYGON **Meridian:** M

Location: NW OF THE FROST SLOUGH CONFLUENCE WITH MONTEZUMA SLOUGH, GRIZZLY ISLAND WILDLIFE AREA, SE OF SUISUN CITY
Location Detail: POND 4, ISLAND SLOUGH UNIT
Ecological: HABITAT CONSISTS OF A MANAGED WETLAND, DOMINATED BY SESUVIUM VERRUCOSUM, COTULA CORONOPIFLIA, SOME PICKLEWEED, AND GRASSES. SURROUNDING AREA MANAGED FOR WATERFOWL HUNTING AND FISHING.
Threat: POSSIBLE THREAT FROM HUMAN RECREATIONAL USE AND NON-NATIVE PREDATORS.
General: 7 TOTAL CAPTURES (INCLUDING 3 RECAPTURES) IN 399 TRAPNIGHTS, ON 7 AUG 2000. 12 ADULTS CAPTURED DURING AUG 2001.
Owner/Manager: DFG-GRIZZLY ISLAND WA

Occurrence No. 171 **Map Index:** 54421 **EO Index:** 54421 **Dates Last Seen** _____
Occ Rank: Fair **Element:** 2002-08-12
Origin: Natural/Native occurrence **Site:** 2002-08-12
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2004-05-12

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.16917° / -121.97845° **Township:** 04N
UTM: Zone-10 N4225079 E589483 **Range:** 01W
Area: **Mapping Precision:**NON-SPECIFIC **Section:** 28 **Qtr:** XX
Elevation: 0 ft **Symbol Type:**POLYGON **Meridian:** M

Location: EAST SIDE OF ISLAND SLOUGH, GRIZZLY ISLAND WILDLIFE AREA, SE OF SUISUN CITY
Location Detail: POND 7, ISLAND SLOUGH UNIT
Ecological: HABITAT CONSISTS OF A MANAGED WETLAND, DOMINATED BY SESUVIUM VERRUCOSUM, DISTICHLIS SPICATA, AND UPLAND HERBS, SUCH AS ASTER SUBULATUS VAR LINGULATUS, LACTUCA SERRIOLA, AND LOTUS CORNICULATUS. SURROUNDING AREA MANAGED FOR WATERFOWL HUNTING.
General: 12 ADULTS AND 2 JUVENILES CAPTURED DURING AUG 2001. 17 ADULTS CAPTURED ON 12 AUG 2002.
Owner/Manager: DFG-GRIZZLY ISLAND WA

Occurrence No. 176 **Map Index:** 59291 **EO Index:** 59327 **Dates Last Seen** _____
Occ Rank: Good **Element:** 2005-08-31
Origin: Natural/Native occurrence **Site:** 2005-08-31
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2008-04-07

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.17873° / -121.91102° **Township:** 04N
UTM: Zone-10 N4226206 E595377 **Range:** 01E
Area: 52.1 acres **Mapping Precision:**SPECIFIC **Section:** 19 **Qtr:** XX
Elevation: 4 ft **Symbol Type:**POLYGON **Meridian:** M

Location: BLACKLOCK PROPERTY, NORTHEASTERN SUISUN MARSH, JUST SOUTHEAST OF LITTLE HONKER BAY.
Location Detail: SMHM CONSERVATION AREA WHICH IS SLATED FOR RETURN TO TIDAL WETLAND. GRAZING LANDS FOUND TO THE NORTH AND EAST.
Ecological: HABITAT CONSISTS OF A DIKED WETLAND CONTAINING SEVERAL MICROHABITATS: NE GRID DOMINATED BY SALTGRASS AND FAT HEN, WITH TULE, CATTAILS, AND PHRAGMITES ON THE EDGES; SOUTHERN GRIDS CONTAINED MOSTLY PICKLEWEED, BUT WITH AREAS OF BARE GROUND.
General: 105 TRAPS SET, 10-13 SEP 2003; 10 SMHM CAPTURES. 8 TRAP GRIDS SET DURING AUG 2004; 6 CAPTURES/3 RECAPS. 6 TRAP GRIDS SET 31 AUG 2005; 3 SMHM CAPTURED AT 3 GRIDS. THIS SITE IS EXPECTED TO BE RETURNED TO TIDAL ACTION IN 2006.
Owner/Manager: DWR

Reithrodontomys raviventris

salt-marsh harvest mouse

Element Code: AMAFF02040

Status	NDDB Element Ranks	Other Lists
Federal: Endangered State: Endangered	Global: G1G2 State: S1S2	CDFG Status:

Habitat Associations

General: ONLY IN THE SALINE EMERGENT WETLANDS OF SAN FRANCISCO BAY AND ITS TRIBUTARIES.

Micro: PICKLEWEED IS PRIMARY HABITAT. DO NOT BURROW, BUILD LOOSELY ORGANIZED NESTS. REQUIRE HIGHER AREAS FOR FLOOD ESCAPE.

Saldula usingeri

Wilbur Springs shorebug

Element Code: IIHEM07010

----- **Status** ----- **NDDB Element Ranks** ----- **Other Lists** -----
Federal: None **Global:** G1 **CDFG Status:**
State: None **State:** S1

----- **Habitat Associations** -----
General: REQUIRES SPRINGS/CREEKS WITH HIGH CONCENTRATIONS OF NA, CL, & LI.
Micro: FOUND ONLY ON WET SUBSTRATE OF SPRING OUTFLOWS.

Occurrence No. 4 **Map Index:** 58328 **EO Index:** 58364 **Dates Last Seen** -----
Occ Rank: Unknown **Element:** XXXX-XX-XX
Origin: Natural/Native occurrence **Site:** XXXX-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2004-12-06

Quad Summary: Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.30943° / -122.05413° **Township:** 05N
UTM: Zone-10 N4240572 E582695 **Range:** 02W
Radius: 1/10 mile **Mapping Precision:**NON-SPECIFIC **Section:** 02 **Qtr:** XX
Elevation: 680 ft **Symbol Type:**POINT **Meridian:** M

Location: TOLENAS SPRINGS.
Ecological: NA = 6,110 PPM; CL = 7,740 PPM; LI = 9.9 PPM.
General: UNKNOWN NUMBER OBSERVED/COLLECTED. COLLECTIONS MADE SOMETIME BETWEEN 1979 & 1983.
Owner/Manager: UNKNOWN

Sorex ornatus sinuosus

Suisun shrew

Element Code: AMABA01103

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T1	CDFG Status: SC
State: None	State: S1	

Habitat Associations

General: TIDAL MARSHES OF THE NORTHERN SHORES OF SAN PABLO AND SUISUN BAYS.
Micro: REQUIRE DENSE LOW-LYING COVER AND DRIFTWEED AND OTHER LITTER ABOVE THE MEAN HIGHTIDE LINE FOR NESTING AND FORAGING.

Occurrence No. 1	Map Index: 10014	EO Index: 24374	Dates Last Seen
Occ Rank: Unknown			Element: 1983-07-17
Origin: Natural/Native occurrence			Site: 1983-07-17
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1989-08-10

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.15463° / -121.97496°	Township: 04N
UTM: Zone-10 N4223468 E589807	Range: 01W
Radius: 1 mile	Section: 33
Elevation:	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: GRIZZLY ISLAND, NEAR DFG HEADQUARTERS.
General: ONE SHREW FOUND DOR. NUMEROUS MVZ SPECIMENS FROM GRIZZLY ISLAND FROM 1911, 1912, 1914, 1923, 1949, 1970 & 1971. EXTENSIVE TRAPPING ON GRIZZLY ISLAND IN 1983 BY WILLIAMS WAS UNSUCCESSFUL FOR S. O. SINUOSUS.
Owner/Manager: DFG-GRIZZLY ISLAND WA

Occurrence No. 5	Map Index: 09762	EO Index: 6957	Dates Last Seen
Occ Rank: Unknown			Element: 1952-02-08
Origin: Natural/Native occurrence			Site: 1952-02-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1989-08-10

Quad Summary: Fairfield South (3812221/482A), Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.23699° / -122.05303°	Township: 05N
UTM: Zone-10 N4232534 E582873	Range: 02W
Radius: 1 mile	Section: 35
Elevation: 5 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: SUISUN CITY SALT MARSH, ADJ TO CORDELIA ST.
General: MVZ #115592-115595.
Owner/Manager: PVT

Occurrence No. 6	Map Index: 09538	EO Index: 24368	Dates Last Seen
Occ Rank: Unknown			Element: 1952-02-08
Origin: Natural/Native occurrence			Site: 1952-02-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1989-08-10

Quad Summary: Cordelia (3812222/482B), Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.21157° / -122.12692°	Township: 04N
UTM: Zone-10 N4229650 E576433	Range: 02W
Radius: 1 mile	Section: 7
Elevation: 20 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: 0.5 MI NE OF CORDELIA SALT MARSH.
General: FIVE MVZ SPECIMENS FROM 1951 & 1952. MVZ #115558 - 115561 & 115587. ALSO UCLA #E547.
Owner/Manager: UNKNOWN

Sorex ornatus sinuosus

Suisun shrew

Element Code: AMABA01103

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T1	CDFG Status: SC
State: None	State: S1	

Habitat Associations

General: TIDAL MARSHES OF THE NORTHERN SHORES OF SAN PABLO AND SUISUN BAYS.
Micro: REQUIRE DENSE LOW-LYING COVER AND DRIFTWEED AND OTHER LITTER ABOVE THE MEAN HIGHTIDE LINE FOR NESTING AND FORAGING.

Occurrence No. 14	Map Index: 58660	EO Index: 58696	Dates Last Seen
Occ Rank: Unknown			Element: 1990-XX-XX
Origin: Natural/Native occurrence			Site: 1990-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.19264° / -122.01669°	Township: 04N
UTM: Zone-10 N4227647 E586106	Range: 01W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 9 ft	Section: 18 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: RUSH RANCH, NORTH OF CUTOFF SLOUGH.
Ecological: TIDAL MARSH
General: UNKNOWN NUMBER CAPTURED BY HAYS AT 3 SITES NORTH OF CUTOFF SLOUGH FOR A MASTERS THESIS PROJECT AT UCB.
Owner/Manager: SOLANO LAND TRUST

Occurrence No. 15	Map Index: 09779	EO Index: 58700	Dates Last Seen
Occ Rank: Unknown			Element: 1986-XX-XX
Origin: Natural/Native occurrence			Site: 1986-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.19685° / -122.03996°	Township: 04N
UTM: Zone-10 N4228092 E584063	Range: 02W
Radius: 1/5 mile	Mapping Precision: NON-SPECIFIC
Elevation: 3 ft	Section: XX Qtr: XX
	Symbol Type: POINT
	Meridian: M

Location: EAST SIDE OF SUISUN SLOUGH, APPROXIMATELY 3 MILES SOUTH OF FAIRFIELD.
Ecological: HABITAT CONSISTS OF DIKED MARSH DOMINATED BY SALICORNIA WITH LESSER AMOUNTS OF DISTICHLIS.
General: UNKNOWN NUMBER TRAPPED BY WESCO IN 1986.
Owner/Manager: DFG-GRIZZLY ISLAND WA

Occurrence No. 16	Map Index: 58665	EO Index: 58701	Dates Last Seen
Occ Rank: Unknown			Element: 1986-XX-XX
Origin: Natural/Native occurrence			Site: 1986-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2004-12-15

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.18472° / -122.05050°	Township: 04N
UTM: Zone-10 N4226737 E583154	Range: 02W
Radius: 1/5 mile	Mapping Precision: NON-SPECIFIC
Elevation: 9 ft	Section: 23 Qtr: XX
	Symbol Type: POINT
	Meridian: M

Location: VOLANTI DUCK CLUB EAST OF SUISUN SLOUGH AND NORTH OF VOLANTI SLOUGH.
General: UNKNOWN NUMBER TRAPPED BY WESCO IN 1986.
Owner/Manager: DFG-GRIZZLY ISLAND WA

Symphotrichum lentum

Suisun Marsh aster

Element Code: PDASTE8470

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: MARSHES AND SWAMPS (BRACKISH AND FRESHWATER).
Micro: MOST OFTEN SEEN ALONG SLOUGHS WITH PHRAGMITES, SCIRPUS, BLACKBERRY, TYPHA, ETC. 0-3M.

Occurrence No. 9	Map Index: 09843	EO Index: 17227	Dates Last Seen
Occ Rank: Unknown			Element: 2000-09-12
Origin: Natural/Native occurrence			Site: 2000-09-12
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-12-27

Quad Summary: Fairfield South (3812221/482A), Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.21736° / -122.03272°	Township: 04N
UTM: Zone-10 N4230375 E584673	Range: 02W
Area: 1,558.0 acres	Section: 01
Elevation: 0 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: N END OF SUISUN SLOUGH INCLUDING SIDE CREEKS AND SLOUGHS, FROM SUISUN CITY S TO CUTOFF SLOUGH.
Location Detail: NUMEROUS COLONIES MAPPED ALONG MUCH OF HILL SLOUGH, PEYTONIA SLOUGH, BOYNTON SLOUGH, AND SHELDRAKE SLOUGH.
Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.
Threat: SOME BICYCLE AND FOOT TRAFFIC THROUGH AREA.
General: MAIN SOURCE FOR SITE IS MAP DETAIL FROM DWR REPORT (1994). INCLUDES FORMER OCCURRENCES #10, 11, 22, 99, & 100. SEEN IN 2000 NEAR TIDAL SLOUGHS.
Owner/Manager: UNKNOWN

Occurrence No. 14	Map Index: 09708	EO Index: 27150	Dates Last Seen
Occ Rank: Good			Element: 1993-10-XX
Origin: Natural/Native occurrence			Site: 1993-10-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-12-03

Quad Summary: Fairfield South (3812221/482A)
County Summary: Solano

Lat/Long: 38.16223° / -122.06192°	Township: 04N
UTM: Zone-10 N4224231 E582179	Range: 02W
Area: 220.0 acres	Section: 26
Elevation: 0 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: N
Symbol Type: POLYGON	

Location: ALONG SUISUN SLOUGH FROM JUST E OF WELLS SLOUGH S PAST ROOS CUT, W OF JOYCE (JOICE) ISLAND.
Location Detail: SEVERAL COLONIES MAPPED MOSTLY ALONG THE W SHORE OF SUISUN SLOUGH AND ABOUT 0.25 MILE UP ROOS CUT. FEW PLANTS NOTED ON MARSHY LAND ON LAND SIDE OF LEVEE, MOSTLY ASSOCIATED WITH BOAT DITCH.
Ecological: SCATTERED GROUPS OF PLANTS FOR AT LEAST 0.5 MILE. AMONG TYPHA AND SCIRPUS AT EDGE OF SUISUN SLOUGH. WITH LEPIDIUM LATIPES, SOLIDAGO, LATHYRUS JEPSONII SSP. JEPSONII.
Threat: INTAKE/DRAINAGE STRUCTURE WILL BE BUILT IN EXISTING CUT IN A MANNER WHICH AVOIDS IMPACTING S. LENTUM.
General: HUNDREDS OF PLANTS OBSERVED BY LACEY IN 1986 IN A PORTION OF THIS OCCURRENCE. INCLUDES FORMER OCCURRENCE #103.
Owner/Manager: UNKNOWN

Symphytotrichum lentum

Suisun Marsh aster

Element Code: PDASTE8470

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: MARSHES AND SWAMPS (BRACKISH AND FRESHWATER).

Micro: MOST OFTEN SEEN ALONG SLOUGHS WITH PHRAGMITES, SCIRPUS, BLACKBERRY, TYPHA, ETC. 0-3M.

Occurrence No. 28	Map Index: 21622	EO Index: 6309	Dates Last Seen
Occ Rank: Good			Element: 1994-07-XX
Origin: Natural/Native occurrence			Site: 1994-07-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-12-04

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.26221° / -121.77834°	Township: 05N
UTM: Zone-10 N4235614 E606877	Range: 02E
Area: 82.0 acres	Section: 20
Elevation: 0 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: BARKER SLOUGH, INCLUDING PORTIONS OF LINDSEY SLOUGH AND CALHOUN CUT.

Location Detail: MAPPED AS MULTIPLE POLYGONS AT CNDDB ACCORDING TO A 1988 ECOS MAP AND TWO 1994 FIELD SURVEY FORMS.

Ecological: TIDAL ZONE. USUALLY IN RELATIVELY DENSE STREAMSIDE HERBACEOUS VEGETATION ON THE LIP OF CUTBANKS; OFTEN HANGING OVER THE WATER. GROWING WITH LATHYRUS JEPSONII JEPSONII, LIMOSELLA SUBULATA, AND LILAEOPSIS MASONII.

Threat: ROCK REVETMENT (RIP-RAPPING) THREATENS PART OF THIS SITE.

General: 130+ PLANTS OBSERVED IN 1994 BY WITHAM AND KAREOFELAS. POPULATIONS USUALLY CONSIST OF ONLY A FEW PLANTS. PORTIONS OF POPULATION WERE TRANSPLANTED IN RESPONSE TO A REVETMENT PROJECT ALONG BARKER SLOUGH. INCLUDES FORMER OCCURRENCE #12.

Owner/Manager: BOR, DWR, DFG

Occurrence No. 29	Map Index: 21627	EO Index: 14101	Dates Last Seen
Occ Rank: Fair			Element: 1990-04-10
Origin: Natural/Native occurrence			Site: 1990-04-10
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-09-09

Quad Summary: Rio Vista (3812126/480B)

County Summary: Sacramento

Lat/Long: 38.16117° / -121.67378°	Township: 04N
UTM: Zone-10 N4224528 E616185	Range: 03E
Area:	Section: 29
Elevation: 5 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: BRANNAN ISLAND, 0.5 MILE NORTH OF RIO VISTA BRIDGE ALONG STATE ROUTE 160.

Ecological: GROWING ON SEDIMENTS AND FINES DEPOSITED ON SUBSIDED RIPRAP. ASSOCIATES INCLUDE SCIRPUS CALIFORNICUS, VERBENA BONARIENSIS, LILAEOPSIS MASONII, JUNCUS, AND MIMULUS.

Threat: LEVEE MAINTENANCE THREATENS THE SITE.

General: 30 PLANTS SEEN IN 1990. MANAGED BY BRANNON-ANDRUS LEVEE MAINTENANCE DISTRICT. 1891 JEPSON COLLECTION FROM "RIO VISTA" ATTRIBUTED HERE.

Owner/Manager: PVT, BRANNON-ANDRUS LEVEE DIST

Symphotrichum lentum

Suisun Marsh aster

Element Code: PDASTE8470

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G2 CNPS List: 1B.2
 State: None State: S2.2

Habitat Associations _____

General: MARSHES AND SWAMPS (BRACKISH AND FRESHWATER).
 Micro: MOST OFTEN SEEN ALONG SLOUGHS WITH PHRAGMITES, SCIRPUS, BLACKBERRY, TYPHA, ETC. 0-3M.

Occurrence No. 50 Map Index: 10855 EO Index: 7762 Dates Last Seen _____
 Occ Rank: Unknown Element: 1990-07-26
 Origin: Natural/Native occurrence Site: 1990-07-26
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1993-06-02

Quad Summary: Rio Vista (3812126/480B)
 County Summary: Sacramento

Lat/Long: 38.13517° / -121.68693° Township: 03N
 UTM: Zone-10 N4221627 E615074 Range: 03E
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 6 Qtr: XX
 Elevation: 0 ft Symbol Type: POINT Meridian: M

Location: EAST BANK OF SACRAMENTO RIVER, 2.5 KM (1.5 MI) SOUTH OF THE RIO VISTA BRIDGE.
 Location Detail: SANDY BEACH 1.5 MILES SOUTH OF JUNCTION OF HWY 160 AND HWY 12 ON THE WEST SHORE OF BRANNON ISLAND.
 Ecological: GROWING AMONG LITTORAL VEGETATION IN ASSOCIATION WITH LILAEOPSIS MASONII, LIMOSELLA SUBULATA, MIMULUS, SCIRPUS, JUNCUS, CYPERUS, POLYGONUM, PLANTAGO, CYNODON, HELENIUM, PASPALUM. NEAR SHORE ASSOCIATES INCLUDE ARUNDO, SALIX, AND RUBUS.
 Threat: THIS SITE IS THREATENED BY TRAMPLING FROM RECREATIONAL USE.
 General: AREA BETWEEN THIS SITE AND BRIDGE UNSURVEYED, ADDITIONAL PLANTS MAY OCCUR.
 Owner/Manager: PVT

Occurrence No. 57 Map Index: 37566 EO Index: 32568 Dates Last Seen _____
 Occ Rank: Good Element: 1994-07-XX
 Origin: Natural/Native occurrence Site: 1994-07-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-12-28

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.25976° / -121.80309° Township: 05N
 UTM: Zone-10 N4235314 E604715 Range: 02E
 Area: 10.0 acres Mapping Precision: SPECIFIC Section: 19 Qtr: SW
 Elevation: 0 ft Symbol Type: POLYGON Meridian: M

Location: ALONG CALHOUN CUT AND IN ELBOW OF CALHOUN CUT SIDE BRANCH.
 Location Detail: MAPPED ACCORDING TO A 1994 WITHAM & KAREOFELAS FIELD SURVEY FORM.
 Ecological: USUALLY IN DENSE STREAMSIDE HERBACEOUS VEGETATION ON THE LIP OF CUTBANKS; OFTEN OBSERVED HANGING OUT OVER THE WATER. THE RARE PLANTS LILAEOPSIS MASONII, LATHYRUS JEPSONII JEPSONII AND LIMOSELLA SUBULATA ALSO REPORTED AT THIS SITE.
 General: 2 COLONIES REPORTED IN 1994 WITH MORE THAN 100 PLANTS IN EACH. POPULATION ALONG MARSH EDGE AND MANY PLANTS STREAMSIDE ARE SOMEWHAT PUBESCENT AND MAY BE INTERGRADES WITH S. CHILENSE (ASTER CHILENSIS). INCLUDES FORMER OCCURRENCE #58.
 Owner/Manager: DFG-CALHOUN CUT ER

Occurrence No. 87 Map Index: 37600 EO Index: 32602 Dates Last Seen _____
 Occ Rank: Unknown Element: 1993-10-XX
 Origin: Natural/Native occurrence Site: 1993-10-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-11-12

Quad Summary: Vine Hill (3812211/482D), Fairfield South (3812221/482A)
 County Summary: Solano

Lat/Long: 38.12589° / -122.06173° Township: 03N
 UTM: Zone-10 N4220198 E582237 Range: 02W
 Area: Mapping Precision: NON-SPECIFIC Section: 11 Qtr: XX
 Elevation: 0 ft Symbol Type: POLYGON Meridian: X

Location: SOUTH END OF JOICE ISLAND, ALONG MOUTH OF SUISUN SLOUGH AND GRIZZLY BAY.
 Location Detail: SEVERAL COLONIES MAPPED ALONG APPROXIMATELY 1 MILE OF THE SHORELINE.
 Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.
 General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).
 Owner/Manager: UNKNOWN

Symphotrichum lentum

Suisun Marsh aster

Element Code: PDASTE8470

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: MARSHES AND SWAMPS (BRACKISH AND FRESHWATER).

Micro: MOST OFTEN SEEN ALONG SLOUGHS WITH PHRAGMITES, SCIRPUS, BLACKBERRY, TYPHA, ETC. 0-3M.

Occurrence No. 88	Map Index: 37601	EO Index: 32603	Dates Last Seen
Occ Rank: Unknown			Element: 1993-10-XX
Origin: Natural/Native occurrence			Site: 1993-10-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-11-12

Quad Summary: Denverton (3812128/481B), Honker Bay (3812118/481C)

County Summary: Solano

Lat/Long: 38.12608° / -121.88995°	Township: 03N
UTM: Zone-10 N4220386 E597293	Range: 01E
Radius: 1/10 mile	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Section: 05 Qtr: XX
	Symbol Type: POINT Meridian: M

Location: ALONG THE NORTHEAST SIDE OF MONTEZUMA SLOUGH OPPOSITE GRIZZLY ISLAND, ABOUT 0.6 MILE WEST OF MOLENA.

Location Detail: ONE COLONY MAPPED.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).

Owner/Manager: UNKNOWN

Occurrence No. 89	Map Index: 37602	EO Index: 32604	Dates Last Seen
Occ Rank: Unknown			Element: 1993-10-XX
Origin: Natural/Native occurrence			Site: 1993-10-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-11-12

Quad Summary: Honker Bay (3812118/481C), Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.12508° / -121.91551°	Township: 03N
UTM: Zone-10 N4220248 E595054	Range: 01W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Section: 12 Qtr: XX
	Symbol Type: POLYGON Meridian: M

Location: EAST SIDE OF GRIZZLY ISLAND ALONG MONTEZUMA SLOUGH, ABOUT 2.1 MILES WEST OF MOLENA.

Location Detail: TWO COLONIES MAPPED.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).

Owner/Manager: UNKNOWN

Occurrence No. 90	Map Index: 37604	EO Index: 32606	Dates Last Seen
Occ Rank: Unknown			Element: 1993-10-XX
Origin: Natural/Native occurrence			Site: 1993-10-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-11-12

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.13525° / -121.91468°	Township: 03N
UTM: Zone-10 N4221378 E595114	Range: 01E
Radius: 1/10 mile	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Section: 06 Qtr: XX
	Symbol Type: POINT Meridian: M

Location: EAST SIDE OF GRIZZLY ISLAND ALONG MONTEZUMA SLOUGH, ABOUT 2.1 MILES WNW OF MOLENA.

Location Detail: ONE COLONY MAPPED.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).

Owner/Manager: UNKNOWN

Symphotrichum lentum

Suisun Marsh aster

Element Code: PDASTE8470

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: MARSHES AND SWAMPS (BRACKISH AND FRESHWATER).

Micro: MOST OFTEN SEEN ALONG SLOUGHS WITH PHRAGMITES, SCIRPUS, BLACKBERRY, TYPHA, ETC. 0-3M.

Occurrence No. 91	Map Index: 37605	EO Index: 32607	Dates Last Seen
Occ Rank: Unknown			Element: 1993-10-XX
Origin: Natural/Native occurrence			Site: 1993-10-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-11-12

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.14810° / -121.90909°	Township: 04N
UTM: Zone-10 N4222809 E595587	Range: 01E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Symbol Type: POLYGON
	Section: 31 Qtr: XX
	Meridian: M

Location: ALONG MONTEZUMA SLOUGH AND UNNAMED SIDE SLOUGH SOUTH OF KIRBY HILL.

Location Detail: EIGHT COLONIES MAPPED AS ONE POLYGON AT CNDDB.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).

Owner/Manager: UNKNOWN

Occurrence No. 92	Map Index: 37606	EO Index: 32608	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-08-23

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.16801° / -121.93248°	Township: 04N
UTM: Zone-10 N4224995 E593512	Range: 01W
Area: 6.5 acres	Mapping Precision: SPECIFIC
Elevation: 0 ft	Symbol Type: POLYGON
	Section: 25 Qtr: XX
	Meridian: M

Location: NE END OF GRIZZLY ISLAND, BOTH SIDES OF MONTEZUMA SLOUGH JUST SOUTH OF CONFLUENCE WITH NURSE SLOUGH, SUISUN MARSH.

Location Detail: TWO COLONIES MAPPED.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT (1994). ADDITIONAL INFO FROM 1999 MAP BY THE STATE LANDS COMMISSION.

Owner/Manager: UNKNOWN

Occurrence No. 93	Map Index: 37607	EO Index: 32609	Dates Last Seen
Occ Rank: Unknown			Element: 1993-10-XX
Origin: Natural/Native occurrence			Site: 1993-10-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-11-12

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.18452° / -121.90220°	Township: 04N
UTM: Zone-10 N4226857 E596143	Range: 01E
Radius: 1/10 mile	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Symbol Type: POINT
	Section: 18 Qtr: XX
	Meridian: M

Location: EAST OF BRADMOOR ISLAND ALONG UNNAMED SLOUGH EAST OF LITTLE HONKER BAY, ABOUT 1 MILE WEST OF GARFIELD.

Location Detail: ONE COLONY MAPPED.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).

Owner/Manager: UNKNOWN

Symphotrichum lentum

Suisun Marsh aster

Element Code: PDASTE8470

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: MARSHES AND SWAMPS (BRACKISH AND FRESHWATER).

Micro: MOST OFTEN SEEN ALONG SLOUGHS WITH PHRAGMITES, SCIRPUS, BLACKBERRY, TYPHA, ETC. 0-3M.

Occurrence No. 94	Map Index: 37608	EO Index: 32610	Dates Last Seen
Occ Rank: Unknown			Element: 1993-10-XX
Origin: Natural/Native occurrence			Site: 1993-10-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-11-12

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.21611° / -121.90525°	Township: 04N
UTM: Zone-10 N4230360 E595834	Range: 01E
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Symbol Type: POLYGON
	Section: 07
	Meridian: M
	Qtr: XX

Location: DENVERTON SLOUGH, FROM MOUTH NORTH ABOUT 2 MILES.

Location Detail: SEVERAL COLONIES MAPPED ALONG THE LENGTH OF THE SLOUGH.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).

Owner/Manager: UNKNOWN

Occurrence No. 95	Map Index: 37609	EO Index: 32611	Dates Last Seen
Occ Rank: Unknown			Element: 1993-10-XX
Origin: Natural/Native occurrence			Site: 1993-10-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-11-12

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.20383° / -121.92229°	Township: 04N
UTM: Zone-10 N4228979 E594359	Range: 01W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Symbol Type: POLYGON
	Section: 12
	Meridian: M
	Qtr: XX

Location: CONFLUENCE OF MONTEZUMA SLOUGH AND LUCO SLOUGH, NORTH OF BRADMOOR ISLAND.

Location Detail: TWO COLONIES MAPPED AS ONE POLYGON AT CNDDB.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).

Owner/Manager: UNKNOWN

Occurrence No. 96	Map Index: 37610	EO Index: 32612	Dates Last Seen
Occ Rank: Unknown			Element: 1993-10-XX
Origin: Natural/Native occurrence			Site: 1993-10-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-11-12

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.21225° / -121.92390°	Township: 04N
UTM: Zone-10 N4229912 E594207	Range: 01W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Symbol Type: POLYGON
	Section: 12
	Meridian: M
	Qtr: XX

Location: UPPER LUCO SLOUGH, NORTH OF BRADMOOR ISLAND AND NORTHEAST OF LUCO HILL.

Location Detail: SIX COLONIES MAPPED OVER APPROXIMATELY 0.5 MILE OF THE SLOUGH AS ONE POLYGON AT CNDDB.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).

Owner/Manager: UNKNOWN

Symphotrichum lentum

Suisun Marsh aster

Element Code: PDASTE8470

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: MARSHES AND SWAMPS (BRACKISH AND FRESHWATER).

Micro: MOST OFTEN SEEN ALONG SLOUGHS WITH PHRAGMITES, SCIRPUS, BLACKBERRY, TYPHA, ETC. 0-3M.

Occurrence No. 97	Map Index: 37611	EO Index: 32613	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-11-12

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.17811° / -121.96256°	Township: 04N
UTM: Zone-10 N4226085 E590864	Range: 01W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Symbol Type: POLYGON
	Section: 22 Qtr: XX
	Meridian: M

Location: ALONG MONTEZUMA SLOUGH BETWEEN FROST SLOUGH AND BELDONS LANDING, SUISUN MARSH.

Location Detail: NUMEROUS COLONIES MAPPED OVER APPROXIMATELY 2 MILES OF THE SLOUGH.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994). PORTION REVISITED IN 1999 (STATE LANDS COMMISSION).

Owner/Manager: UNKNOWN

Occurrence No. 98	Map Index: 37612	EO Index: 32614	Dates Last Seen
Occ Rank: Unknown			Element: 1993-10-XX
Origin: Natural/Native occurrence			Site: 1993-10-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-11-12

Quad Summary: Fairfield South (3812221/482A), Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.19115° / -121.99275°	Township: 04N
UTM: Zone-10 N4227503 E588204	Range: 01W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Symbol Type: POLYGON
	Section: 17 Qtr: XX
	Meridian: M

Location: ALONG CUTOFF SLOUGH AT THE NORTHEAST END OF JOICE ISLAND, NORTH OF GRIZZLY ISLAND.

Location Detail: NUMEROUS COLONIES MAPPED OVER APPROXIMATELY 1.2 MILES OF THE SLOUGH IN TWO POLYGONS AT CNDDB.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).

Owner/Manager: UNKNOWN

Occurrence No. 101	Map Index: 37617	EO Index: 32619	Dates Last Seen
Occ Rank: Unknown			Element: 1993-10-XX
Origin: Natural/Native occurrence			Site: 1993-10-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-11-13

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.17879° / -122.05867°	Township: 04N
UTM: Zone-10 N4226071 E582446	Range: 02W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Symbol Type: POLYGON
	Section: 23 Qtr: XX
	Meridian: M

Location: WEST SIDE OF SUISUN SLOUGH BETWEEN NAVY POINT AND WELLS SLOUGH.

Location Detail: THREE COLONIES MAPPED.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).

Owner/Manager: UNKNOWN

Symphotrichum lentum

Suisun Marsh aster

Element Code: PDASTE8470

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G2 CNPS List: 1B.2
 State: None State: S2.2

Habitat Associations _____

General: MARSHES AND SWAMPS (BRACKISH AND FRESHWATER).

Micro: MOST OFTEN SEEN ALONG SLOUGHS WITH PHRAGMITES, SCIRPUS, BLACKBERRY, TYPHA, ETC. 0-3M.

Occurrence No. 102 Map Index: 37618 EO Index: 32620 Dates Last Seen _____
 Occ Rank: Unknown Element: 1993-10-XX
 Origin: Natural/Native occurrence Site: 1993-10-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-11-13

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.19149° / -122.06710° Township: 04N
 UTM: Zone-10 N4227473 E581693 Range: 02W
 Area: Mapping PrecisionNON-SPECIFIC Section: 15 Qtr: XX
 Elevation: 0 ft Symbol Type:POLYGON Meridian: M

Location: WEST OF SUISUN SLOUGH ALONG UPPER REACHES OF WELLS SLOUGH, NEAR THE SPRR TRACKS.

Location Detail: TWO COLONIES MAPPED JUST EAST OF JACKSNIFE.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).

Owner/Manager: UNKNOWN

Occurrence No. 104 Map Index: 37621 EO Index: 32623 Dates Last Seen _____
 Occ Rank: Unknown Element: 1993-10-XX
 Origin: Natural/Native occurrence Site: 1993-10-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-12-26

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.17253° / -122.10282° Township: 04N
 UTM: Zone-10 N4225338 E578585 Range: 02W
 Area: 1,278.0 acres Mapping PrecisionSPECIFIC Section: 20 Qtr: XX
 Elevation: 0 ft Symbol Type:POLYGON Meridian: M

Location: WEST SIDE OF SUISUN MARSH; ALONG CORDELIA SLOUGH, FRANK HORAN SLOUGH, CHADBORNE SLOUGH AND SUISUN CREEK.

Location Detail: NUMEROUS COLONIES MAPPED ALONG SLOUGHS AND CHANNELS; OCCURRENCE MAPPED MOSTLY BETWEEN I-680 AND ABOUT 1 MILE DOWNSTREAM OF CYGNUS.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994). INCLUDES FORMER OCCURRENCE #105.

Owner/Manager: UNKNOWN

Occurrence No. 106 Map Index: 37623 EO Index: 32625 Dates Last Seen _____
 Occ Rank: Unknown Element: 1993-10-XX
 Origin: Natural/Native occurrence Site: 1993-10-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-11-13

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.13788° / -122.06216° Township: 03N
 UTM: Zone-10 N4221528 E582186 Range: 02W
 Radius: 1/10 mile Mapping PrecisionNON-SPECIFIC Section: 02 Qtr: XX
 Elevation: 0 ft Symbol Type:POINT Meridian: M

Location: ALONG WEST SIDE OF MONTEZUMA SLOUGH NEAR CONFLUENCE WITH GRIZZLY BAY.

Location Detail: ONE COLONY MAPPED.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).

Owner/Manager: UNKNOWN

Symphotrichum lentum

Suisun Marsh aster

Element Code: PDASTE8470

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: MARSHES AND SWAMPS (BRACKISH AND FRESHWATER).

Micro: MOST OFTEN SEEN ALONG SLOUGHS WITH PHRAGMITES, SCIRPUS, BLACKBERRY, TYPHA, ETC. 0-3M.

Occurrence No. 107	Map Index: 37624	EO Index: 32626	Dates Last Seen
Occ Rank: Unknown			Element: 1993-10-XX
Origin: Natural/Native occurrence			Site: 1993-10-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-11-13

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.13573° / -122.08298°	Township: 03N
UTM: Zone-10 N4221272 E580364	Range: 02W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 0 ft	Section: 03
	Symbol Type: POLYGON
	Meridian: M
	Qtr: XX

Location: ALONG GOODYEAR SLOUGH AND ADJACENT SECTION OF SUISUN SLOUGH FROM CONFLUENCE UPSTREAM ABOUT 1 MILE.

Location Detail: SEVERAL COLONIES MAPPED ALONG ABOUT 1 MILE OF GOODYEAR SLOUGH AND 1 MILE OF SUISUN SLOUGH.

Ecological: BRACKISH SLOUGHS AND RIVERBANKS AFFECTED BY TIDAL FLUCTUATIONS. ASSOCIATED WITH SCIRPUS, TYPHA, AND JUNCUS.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL PROVIDED BY DWR REPORT "SUMMARY OF SENSITIVE PLANT AND WILDLIFE RESOURCES IN SUISUN MARSH DURING WATER YEARS 1984-1994" (1994).

Owner/Manager: UNKNOWN

Occurrence No. 108	Map Index: 41561	EO Index: 41561	Dates Last Seen
Occ Rank: Unknown			Element: 1991-07-XX
Origin: Natural/Native occurrence			Site: 1991-07-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1999-09-03

Quad Summary: Fairfield South (3812221/482A)

County Summary: Solano

Lat/Long: 38.21205° / -122.07268°	Township: 04N
UTM: Zone-10 N4229749 E581182	Range: 02W
Area: 2.8 acres	Mapping Precision: SPECIFIC
Elevation: 3 ft	Section: 10
	Symbol Type: POLYGON
	Meridian: M
	Qtr: XX

Location: ABOUT 1.2 AIRMILES SSE OF SUBEET RR STOP; ABOUT 3 AIRMILES SOUTHWEST OF FAIRFIELD.

Location Detail: JUST NORTH OF LEVEE ROAD. TWO COLONIES MAPPED.

General: ONLY SOURCE FOR THIS INFORMATION IS MAP FROM 1991 SURVEY BY ALLEN.

Owner/Manager: UNKNOWN

Occurrence No. 109	Map Index: 43596	EO Index: 43596	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-08-23

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.17316° / -121.92571°	Township: 04N
UTM: Zone-10 N4225573 E594098	Range: 01W
Area: 2.9 acres	Mapping Precision: SPECIFIC
Elevation: 5 ft	Section: 24
	Symbol Type: POLYGON
	Meridian: M
	Qtr: XX

Location: NORTH OF KIRBY HILL, ALONG SOUTH SIDE OF NURSE SLOUGH BETWEEN LITTLE HONKER BAY AND MONTEZUMA SLOUGH, SUISUN MARSH.

Location Detail: SINGLE COLONY MAPPED JUST WEST OF PIPELINE AREA.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL BY THE STATE LANDS COMISSION (1999).

Owner/Manager: UNKNOWN

Symphotrichum lentum

Suisun Marsh aster

Element Code: PDASTE8470

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: MARSHES AND SWAMPS (BRACKISH AND FRESHWATER).

Micro: MOST OFTEN SEEN ALONG SLOUGHS WITH PHRAGMITES, SCIRPUS, BLACKBERRY, TYPHA, ETC. 0-3M.

Occurrence No. 110	Map Index: 43597	EO Index: 43597	Dates Last Seen
Occ Rank: Unknown			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-08-23

Quad Summary: Denverton (3812128/481B)

County Summary: Solano

Lat/Long: 38.18049° / -121.91963°	Township: 04N
UTM: Zone-10 N4226392 E594621	Range: 01W
Area: 8.7 acres	Section: 24
Elevation: 5 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: NORTH OF KIRBY HILL, ALONG NORTH AND SOUTH SIDES OF LITTLE HONKER BAY AND ADJACENT NURSE SLOUGH, SUISUN MARSH.

Location Detail: FIVE COLONIES MAPPED IN VICINITY OF HONKER BAY.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL BY THE STATE LANDS COMMISSION (1999).

Owner/Manager: UNKNOWN

Thamnophis gigas

giant garter snake

Element Code: ARADB36150

Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G2G3	CDFG Status:
State: Threatened	State: S2S3	

Habitat Associations

General: PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS & IRRIGATION DITCHES.
Micro: THIS IS THE MOST AQUATIC OF THE GARTER SNAKES IN CALIFORNIA.

Occurrence No. 79	Map Index: 10758	EO Index: 27547	Dates Last Seen
Occ Rank: Good			Element: 1987-09-21
Origin: Natural/Native occurrence			Site: 1987-09-21
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-08-10

Quad Summary: Liberty Island (3812136/497C)

County Summary: Solano

Lat/Long: 38.35740° / -121.74024°	Township: 06N
UTM: Zone-10 N4246221 E610066	Range: 02E
Radius: 1/5 mile	Mapping Precision: NON-SPECIFIC
Elevation: 15 ft	Section: 22
	Meridian: M
	Qtr: NE

Location: CANAL CROSSING SWAN RD, 2.5 MI W OF SOLANO/YOLO COUNTY LINE.

Location Detail: SURROUNDED BY LIVESTOCK PASTURES.

Ecological: 20 FT WIDE CANAL CONTAINED WITHIN LEVEES; CATTAIL/TULE MARGINS, SOME YELLOW WATERWEED IN CHANNEL, ANNUAL GRASSES AND THISTLES ON BANKS.

General: ONE ADULT OBSERVED.

Owner/Manager: UNKNOWN

Occurrence No. 82	Map Index: 10820	EO Index: 13284	Dates Last Seen
Occ Rank: Good			Element: 1994-XX-XX
Origin: Natural/Native occurrence			Site: 1994-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-05-04

Quad Summary: Liberty Island (3812136/497C)

County Summary: Solano

Lat/Long: 38.33934° / -121.71301°	Township: 06N
UTM: Zone-10 N4244250 E612473	Range: 02E
Radius: 1/5 mile	Mapping Precision: NON-SPECIFIC
Elevation: 10 ft	Section: 26
	Meridian: M
	Qtr: NE

Location: LIBERTY ISLAND, ROAD, 1.3 MILES SOUTH OF THE SWAN ROAD INTERSECTION, 9 MILES SE OF DIXON

Ecological: HABITAT CONSISTS OF AN AGRICULTURAL CANAL WITH TULE AND CATTAIL MARGINS. SITE IS FAIR ACCORDING TO HANSEN.

Threat: SURROUNDED BY PASTURES USED FOR GRAZING AND CULTIVATED FIELDS.

General: 1 INDIVIDUAL OBSERVED ON 21 SEP 1987. UNKNOWN NUMBER OBSERVED DURING 1994.

Owner/Manager: PVT

Trifolium amoenum

two-fork clover

Element Code: PDFAB40040

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: VALLEY AND FOOTHILL GRASSLAND, COASTAL BLUFF SCRUB.

Micro: SOMETIMES ON SERPENTINE SOIL, OPEN SUNNY SITES, SWALES. MOST RECENTLY SITED ON ROADSIDE AND ERODING CLIFF FACE. 5-560M.

Occurrence No. 11	Map Index: 24739	EO Index: 46523	Dates Last Seen
Occ Rank: Unknown			Element: 1892-06-18
Origin: Natural/Native occurrence			Site: 1892-06-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2001-11-15

Quad Summary: Elmira (3812138/498C), Fairfield North (3812231/499D)

County Summary: Solano

Lat/Long: 38.35642° / -121.98869°	Township: 06N
UTM: Zone-10 N4245845 E588359	Range: 01W
Radius: 1 mile	Section: 20
Elevation: 180 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: VACAVILLE.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1892 COLLECTION BY JEPSON; NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No. 12	Map Index: 23957	EO Index: 46520	Dates Last Seen
Occ Rank: Unknown			Element: 1909-05-04
Origin: Natural/Native occurrence			Site: 1909-05-04
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2001-11-14

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.35022° / -121.90850°	Township: 06N
UTM: Zone-10 N4245237 E595374	Range: 01E
Radius: 1 mile	Section: 19
Elevation: 70 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: ELMIRA.

Ecological: DENSE COLONIES IN RICH SWALES.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1903 COLLECTION BY BAKER.

Owner/Manager: UNKNOWN

Occurrence No. 13	Map Index: 10073	EO Index: 12760	Dates Last Seen
Occ Rank: Unknown			Element: 1902-05-23
Origin: Natural/Native occurrence			Site: 1902-05-23
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1994-07-07

Quad Summary: Elmira (3812138/498C)

County Summary: Solano

Lat/Long: 38.28879° / -121.96247°	Township: 05N
UTM: Zone-10 N4238367 E590735	Range: 01W
Radius: 1 mile	Section: 10
Elevation: 80 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: NEAR VANDEN STATION (VANDEN STATION =SOUTHERN PACIFIC TRAINSTOP 5 MILES SOUTH OF VACAVILLE).

General: TYPE LOCALITY. SP SEEN IN 1902.

Owner/Manager: UNKNOWN

Trifolium depauperatum var. hydrophilum

saline clover

Element Code: PDFAB400R5

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2?	CNPS List: 1B.2
State: None	State: S2.2?	

Habitat Associations

General: MARSHES AND SWAMPS, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.
Micro: MESIC, ALKALINE SITES. 0-300M.

Occurrence No. 10	Map Index: 49395	EO Index: 49395	Dates Last Seen
Occ Rank: Good			Element: 1995-04-22
Origin: Natural/Native occurrence			Site: 1995-04-22
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-11-14

Quad Summary: Elmira (3812138/498C)
County Summary: Solano

Lat/Long: 38.28099° / -121.98241°	Township: 05N
UTM: Zone-10 N4237482 E589001	Range: 01W
Area: 25.1 acres	Section: 16
Elevation: 45 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: 3/4 MILES WEST-SOUTHWEST OF VANDEN STATION, JUNCTION OF PEABODY AND VANDEN ROADS.
Location Detail: GROWING ON THE MARGINS OF POOLS AND ALONG SWALES, S 1/2 OF NW 1/4 SEC 16.
Ecological: IN BOTTOMS OF SHALLOW, ALKALINE VERNAL POOLS; WITH LASTHENIA CONJUGENS, DISTICHLIS SPICATA, COTULA CORONOPIFOLIA.
Threat: POSSIBLY DEVELOPMENT.
General: MORE THAN 500 PLANTS ESTIMATED IN 1995. OTHER VARS PRESENT. PARCEL IS SURROUNDED BY LIGHT INDUSTRY AND HOUSING DEVELOPMENTS. COLLECTION FROM "N OF SP LINE [RAILROAD], S OF CEMENT HILL ROAD" (G. HOLSTEIN SN) ALSO ATTRIBUTED TO THIS LOCATION.

Owner/Manager: PVT

Occurrence No. 12	Map Index: 49397	EO Index: 49397	Dates Last Seen
Occ Rank: Unknown			Element: 1960-04-21
Origin: Natural/Native occurrence			Site: 1960-04-21
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-11-14

Quad Summary: Fairfield North (3812231/499D)
County Summary: Solano

Lat/Long: 38.32807° / -122.01685°	Township: 06N
UTM: Zone-10 N4242673 E585932	Range: 01W
Radius: 2/5 mile	Section: 31
Elevation: 210 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: 2.3 MILES SOUTHWEST OF VACAVILLE, 5 MILES NORTHEAST OF FAIRFIELD.
Location Detail: ON BORDERS OF SALINE LAGOON AT BOTTOM. MAPPED AS BEST GUESS TO INCLUDE AREA EAST OF VACAVILLE AIRPORT.
General: NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Tuctoria mucronata

Crampton's tuctoria or Solano grass

Element Code: PMPOA6N020

Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G1	CNPS List: 1B.1
State: Endangered	State: S1.1	

Habitat Associations

General: VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND.

Micro: CLAY BOTTOMS OF DRYING VERNAL POOLS AND LAKES IN VALLEY GRASSLAND. 5-10M.

Occurrence No. 1	Map Index: 24756	EO Index: 6795	Dates Last Seen
Occ Rank: None			Element: 1993-07-31
Origin: Natural/Native occurrence			Site: 2000-07-24
Presence: Extirpated			
Trend: Unknown			Record Last Updated: 2008-01-14

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.27046° / -121.82672°	Township: 05N
UTM: Zone-10 N4236474 E602632	Range: 01E
Area: 9.2 acres	Section: 23
Elevation: 15 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: JEPSON PRAIRIE; 12 MI S OF DIXON, OLCOTT LAKE W OF COOK LANE, ALONG ISLAND EDGE NEAR MIDDLE OF LAKE.

Location Detail: ONE SMALL POPULATION IS LOCATED IN THE SOUTHERN BORDER OF ADJACENT SECTION 14. FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONSERVATION EASEMENT.

Ecological: ON ALKALI PESCADERO CLAY SOILS. ASSOCIATED WITH FRANKENIA, ERYNGIUM, LIPPIA, CRYPISIS, AND ELEOCHARIS MACROSTACHYA.

Threat: THIS PORTION OF OLCOTT IS PROTECTED FROM GRAZING. OVERCOLLECTION & CHANGES IN HYDROLOGY MAY HAVE CAUSED EXTIRPATION.

General: TYPE LOCALITY. 100-150 PLANTS REPORTED BY CRAMPTON IN 1958, 553 PLANTS IN 1985, 100 IN 1986, NONE IN 1987-1992, 4 PLANTS IN 1993, NONE SEEN 1994-2006; EXTIRPATED. MULTIPLE COLLECTIONS FROM CRAMPTON, GRIGGS, & MALLOCH ATTRIBUTED HERE.

Owner/Manager: SOLANO LAND TRUST

Occurrence No. 2	Map Index: 10400	EO Index: 6310	Dates Last Seen
Occ Rank: Fair			Element: 2005-XX-XX
Origin: Natural/Native occurrence			Site: 2005-XX-XX
Presence: Presumed Extant			
Trend: Decreasing			Record Last Updated: 2008-01-15

Quad Summary: Dozier (3812137/498D)

County Summary: Solano

Lat/Long: 38.25553° / -121.86910°	Township: 05N
UTM: Zone-10 N4234772 E598945	Range: 01E
Area: 11.7 acres	Section: 28
Elevation: 35 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: APPROX 2.5 MI SOUTHWEST OF OLCOTT LAKE, IN "NEXT LARGEST VERNAL POOL."

Location Detail: 3.4 KM (2.1 MI) SOUTH OF THE SACRAMENTO NORTHERN RR TRACKS AND 5.7 KM (3.5 MI) WEST OF HWY 113. IN SECTION 28: NW 1/4 OF NE 1/4 AND NE 1/4 OF NW 1/4. PLANTS FOUND IN DIFFERENT LOCATIONS IN POOL EACH YEAR; NOT FOUND THROUGHOUT ENTIRE POOL.

Ecological: IN LARGE SALINE-ALKALINE PLAYA/POOL IN ANNUAL GRASSLAND. ASSOCIATED WITH MALVELLA LEPROSA, FRANKENIA SALINA, CRESSA TRUXILLENIS, ERYNGIUM ARISTULATUM, DISTICHLIS SPICATA, AND NEOSTAFFIA COLUSANA. SEEN ALSO WITH DELTA GREEN GROUND BEETLES.

Threat: CATTLE/SHEEP GRAZING & DUCK HUNTING. PAST DISTURBANCE/GRAZING MAY HAVE LED TO ESTABLISHMENT OF WEEDY MALVELLA & CRYPISIS.

General: 763 PLANTS SEEN IN 1985, APPROX 250 PLANTS IN 1986, 114 IN 1989, 1 IN 1991, 142 IN 1992, 38 IN 2000. 26 IN 2004, 3 IN 2005. 1986 COLLECTION BY STONE ATTRIBUTED HERE. IS POP. DECLINING, OR IS THIS CLIMATE INDUCED? LACK OF DISTURBANCE?

Owner/Manager: PVT

Tuctoria mucronata

Crampton's tuctoria or Solano grass

Element Code: PMPOA6N020

Status	NDDB Element Ranks	Other Lists
Federal: Endangered State: Endangered	Global: G1 State: S1.1	CNPS List: 1B.1

Habitat Associations

General: VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND.
Micro: CLAY BOTTOMS OF DRYING VERNAL POOLS AND LAKES IN VALLEY GRASSLAND. 5-10M.

Occurrence No. 3	Map Index: 25596	EO Index: 6337	Dates Last Seen
Occ Rank: Excellent			Element: 2005-08-05
Origin: Natural/Native occurrence			Site: 2005-08-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-01-14

Quad Summary: Saxon (3812146/497B)

County Summary: Yolo

Lat/Long: 38.49163° / -121.68587°	Township: 08N
UTM: Zone-10 N4261183 E614604	Range: 03E
Area: 2.0 acres	Section: 31
Elevation: 25 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: DAVIS AIR FORCE COMMUNICATION FACILITY. 4 MI S OF INTERSTATE 80, E OF RD 104, BETWEEN RD 34 AND RD 35.

Location Detail: DAVIS COMMUNICATIONS ANNEX. MAPPED ACCORDING TO ESA MAP (2004). NEOSTAFIA COLUSANA ALSO OCCURS AT THIS SITE.

Ecological: LOW AREA ON PESCADERO CLAY LOAM. NORTHERN SUBPOP. RESTRICTED TO DISTURBED GROUND. SOUTHERN SUBPOP. IN ALKALI SCALD, ALSO SHOWS SIGNS OF DISTURBANCE. ASSOCIATES INCLUDE CRYPISIS SCHOENOIDES & LEPIDIUM LATIFOLIA.

Threat: FORMER GROUND DISTURBANCE: BORROW PITS & FIREBREAKS. INVASION BY NONNATIVE PLANTS (SALSOLA TRAGUS & LEPIDIUM LATIFOLIUM)

General: 2 SUBPOPULATIONS, APPROX 10,000 PLANTS TOTAL IN 1993, 2700 IN 1996, 1,993 IN 2001, 1403 IN 2004, UNKNOWN NUMBER SEEN IN 2005. WEEDS TAKING OVER BY 2001. STILL LARGEST EXTANT POPULATION. WILL EVENTUALLY BE MANAGED BY YOLO COUNTY PARKS.

Owner/Manager: DOD-MCCLELLAN AFB

Valley Needlegrass Grassland

Element Code: CTT42110CA

----- Status ----- NDDB Element Ranks ----- Other Lists -----
 Federal: None Global: G1
 State: None State: S3.1

Habitat Associations -----
 General:
 Micro:

Occurrence No. 9 Map Index: 10569 EO Index: 25238 ----- Dates Last Seen -----
 Occ Rank: None Element: 1983-02-06
 Origin: Natural/Native occurrence Site: 1983-02-06
 Presence: Extirpated
 Trend: Unknown Record Last Updated: 1998-07-15

Quad Summary: Dozier (3812137/498D)
 County Summary: Solano

Lat/Long: 38.31380° / -121.81634° Township: 05N
 UTM: Zone-10 N4241295 E603479 Range: 01E
 Radius: 1/5 mile Mapping PrecisionNON-SPECIFIC Section: 01 Qtr: NW
 Elevation: 20 ft Symbol Type:POINT Meridian: M

Location: NORTH DOZIER GRASSLAND, MOSTLY ON E SIDE HWY 113, 1.5 M N ON 113 FROM DOZIER RR STOP.
 Ecological: ONCE HAD NASSELLA PULCHRA & HUMMOCKS W/GREAT SPECIES DIVERSITY.
 General: SITE REPORTED PLOWED IN 1983, ELIMINATING COMMUNITY. THIS WAS OCC #009 OF CTT42110CA.
 Owner/Manager: PVT

Occurrence No. 10 Map Index: 10331 EO Index: 16294 ----- Dates Last Seen -----
 Occ Rank: Unknown Element: 1981-XX-XX
 Origin: Natural/Native occurrence Site: 1981-XX-XX
 Presence: Presumed Extant
 Trend: Increasing Record Last Updated: 1998-07-15

Quad Summary: Denverton (3812128/481B)
 County Summary: Solano

Lat/Long: 38.19842° / -121.88338° Township: 04N
 UTM: Zone-10 N4228420 E597773 Range: 01E
 Area: 430.7 acres Mapping PrecisionSPECIFIC Section: 17 Qtr: NE
 Elevation: 100 ft Symbol Type:POLYGON Meridian: M

Location: SE OF DENVERTON, E OF SHILOH RD TO RR TRACKS.
 Location Detail:VERNAL POOLS OCCUR IN AREA. AREA TO N ALSO W/SOME NATIVE GRASSLAND.
 Ecological: HIGH QUALITY GRASSLAND W/25-50% COVER BY NASSELLA PULCHRA. OTHER PERENNIAL GRASSES AND WILDFLOWERS PRESENT.
 Threat: SHEEP GRAZING, SOMETIMES HEAVY. GRAVEL MINING IN VICINITY.
 General: THIS WAS OCC #010 OF CTT42110CA.
 Owner/Manager: UNKNOWN

Occurrence No. 13 Map Index: 10379 EO Index: 16290 ----- Dates Last Seen -----
 Occ Rank: Good Element: 1988-04-16
 Origin: Natural/Native occurrence Site: 1988-04-16
 Presence: Presumed Extant
 Trend: Increasing Record Last Updated: 1998-07-15

Quad Summary: Dozier (3812137/498D), Birds Landing (3812127/481A), Denverton (3812128/481B), Elmira (3812138/498C)
 County Summary: Solano

Lat/Long: 38.26446° / -121.86063° Township: 05N
 UTM: Zone-10 N4235772 E599675 Range: 01E
 Area: 15,017.3 acres Mapping PrecisionSPECIFIC Section: 28 Qtr: N
 Elevation: 30 ft Symbol Type:POLYGON Meridian: M

Location: JEPSON PRAIRIE (15 M S OF DIXON) & AREA W TO TRAVIS AFB RUNWAY & S TO DENVERTON.
 Location Detail:BOUNDARY INCLUDES ALL CONTIGUOUS NATIVE GRASSLAND IN VICINITY. FORMERLY TNC'S JEPSON PRAIRIE PRESERVE; TRANSFERRED TO SOLANO COUNTY FARMLANDS & OPEN SPACE ON 8/97. TNC RETAINS CONS. EASEMENT.
 Ecological: ROLLING HUMMOCKY TOPOGRAPHY W/MOSAIC OF GRASSLAND, VERNAL POOLS. NATIVE GRASSES INCL NASSELLA PULCHRA, N. CERNUA, MELICA CALIFORNICA, POA SECUNDA, HORDEUM BRACHYANTHERUM, ELYMUS GLAUCUS.
 Threat: MANY GRAZING PRACTICES.
 General: RANK A-C.>NNL, 1988. MANY PVT OWNERS AS WELL AS OPEN SPACE. THIS WAS OCC #013 OF CTT42110CA.
 Owner/Manager: SOLANO LAND TRUST

Valley Needlegrass Grassland

Status	NDDB Element Ranks	Element Code: CTT42110CA	Other Lists
Federal: None	Global: G1		
State: None	State: S3.1		
Habitat Associations			
General:			
Micro:			

Occurrence No. 33	Map Index: 10327	EO Index: 16284	Dates Last Seen
Occ Rank: Unknown			Element: 1972-XX-XX
Origin: Natural/Native occurrence			Site: 1972-XX-XX
Presence: Presumed Extant			
Trend: Decreasing			Record Last Updated: 1998-07-15

Quad Summary: Denverton (3812128/481B)
County Summary: Solano

Lat/Long: 38.21633° / -121.88472°	Township: 04N
UTM: Zone-10 N4230406 E597631	Range: 01E
Area: 97.2 acres	Section: 05
Elevation: 70 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: LEUTHOLZ RANCH (SE OF DENVERTON LESS THAN 1 MI, W SLOPES OF MONTEZUMA HILLS).
Ecological: RELICT STANDS NASSELLA PULCHRA, 15% COVER IN PASTURE AREA. ASSOC W/ SOFT CHESS & RIPGUT. ON OLCUTT FINE SANDY LOAM, GRAY PHASE.
General: POOR COND W/RESPECT TO NATIVES, BARRY 1972. THIS WAS OCC #033 OF CTT42110CA.
Owner/Manager: PVT

Appendix C
Federally Listed Plant and Animal Species

Table 1 Regional Federally Listed Plant Species

Scientific Name	Common Name	Status				Range/ Habitat requirements	Site potential	Rationale
		Federal	State	CNPS	SHCP			
Plants								
Asteraceae								
<i>Lasthenia conjugens</i>	Contra Costa goldfields	FE		1B.1	Yes	Cismontane woodland, Playas(alkaline), Valley and foothill grassland, Vernal pools/mesic. Blooms March-June. Elevation 0 to 470 feet.	None	No suitable habitat occurs within the CPVVS action area.
<i>Cirsium hydrophilum</i> var. <i>hydrophilum</i>	Suisun thistle	FE		1B.1	Yes	Marshes and swamps(salt). Blooms June-September. Elevation 0 to 1 feet.	None	No suitable habitat occurs within the CPVVS action area. Known elevation is below the CPVVS project action area elevation
Fabaceae								
<i>Trifolium amoenum</i>	two-fork clover	FE		1B.1		Coastal bluff scrub, Valley and foothill grassland(sometimes serpentinite). Blooms April-June. Elevation 5 to 415 feet.	None	No suitable habitat occurs within the CPVVS action area.
Poaceae								
<i>Tuctoria mucronata</i>	Crampton's tuctoria or Solano grass	FE	SE	1B.1	Yes	Valley and foothill grassland(mesic), Vernal pools. Blooms April-August. Elevation 5 to 10 feet.	None	No suitable habitat occurs within the CPVVS action area.
<i>Neostapfia colusana</i>	Colusa grass	FT	SE	1B.1	Yes	Vernal pools(adobe, large). Blooms May-August. Elevation 5 to 200 feet.	None	No suitable habitat occurs within the CPVVS action area.
<i>Orcuttia inaequalis</i>	San Joaquin Valley Orcutt grass	FT	SE	1B.1	Yes	Vernal pools. Blooms April-September. Elevation 10 to 755 feet.	None	No suitable habitat occurs within the CPVVS action area.
Scrophulariaceae								
<i>Cordyanthus mollis</i> ssp. <i>mollis</i>	soft bird's-beak	FE	Rare	1B.2	Yes	Marshes and swamps(coastal salt). Blooms July-November. Elevation 0 to 3 feet.	None	No suitable habitat occurs within the CPVVS action area.

Notes:

Federal Status

FE = federally listed as endangered

FT = federally listed as threatened

State Status

SE = state listed as endangered

ST = state listed as threatened

California Native Plant Society (CNPS) Status

1A = plants presumed extinct in California

1B = plants rare, threatened, or endangered in California, but more common elsewhere

2 = plants rare, threatened, or endangered in California, but more common elsewhere

Solano Habitat Conservation Plan (SHCP)

Yes = covered species

No = not a covered species

NE = narrow endemic species

Table 2. Regional Federally Listed Animal Species

Scientific Name	Common Name	Status				Range/ Habitat requirements	Site potential	Rationale
		Federal	State	CDFG	SHCP			
Invertebrates								
<i>Branchinecta conservatio</i>	Conservancy fairy shrimp	FE			Yes	Endemic to the grasslands of the northern two-thirds of the central valley; found in large, turbid pools (CNDDDB 2008)	None	No suitable habitat occurs within the CPVVS action area.
<i>Branchinecta lynchi</i>	vernal pool fairy shrimp	FT			Yes	Inhabits small, clear-water sandstone depression pool and grassland swale, earth slump, or basalt-flow depression pools (CNDDDB 2008).	None	No suitable habitat occurs within the CPVVS action area.
<i>Desmocerus californicus dimorphus</i>	valley elderberry longhorn beetle	FT			Yes	Occurs only in the central valley of California, in association with blue elderberry (<i>Sambucus mexicana</i>) (CNDDDB, 2008).	None	No suitable habitat occurs within the CPVVS action area.
<i>Elaphrus viridis</i>	Delta green ground beetle	FT			Yes	Restricted to the margins of vernal pools in the grassland area between Jepson Prairie and Travis AFB. Prefers the sandy mud substrate where it slopes gently into the water, with low-growing vegetation (CNDDDB 2008).	None	No suitable habitat occurs within the CPVVS action area. The CPVVS action area is not within the known range of this species.
<i>Lepidurus packardii</i>	vernal pool tadpole shrimp	FE			Yes	Inhabits vernal pools and swales in the sacramento valley containing clear to highly turbid water (CNDDDB 2008).	None	No suitable habitat occurs within the CPVVS action area.
<i>Speyeria callippe callippe</i>	callippe silverspot butterfly	FE			Yes	Restricted to the northern coastal scrub of the San Francisco peninsula. Host plant is <i>Viola pendunculata</i> (CNDDDB, 2008).	None	No suitable habitat occurs within the CPVVS action area. The CPVVS action area is not within the known range of this species.
Fish								
<i>Acipenser medirostris</i>	green sturgeon	FT (NMFS)			No	Spawns in the Sacramento River and the Klanath River (CNDDDB 2008).	None	No suitable habitat occurs within the CPVVS action area. The CPVVS action area is not within the known range of this species.
<i>Hypomesus transpacificus</i>	delta smelt	FT			Yes	Delta smelt are found only from the Suisun Bay upstream through the Delta in Contra Costa, Sacramento, San Joaquin, Solano and Yolo counties. Shortly before spawning, adults migrate upstream from the brackish-water habitat associated with the mixing zone and disperse widely into river channels and tidally influenced backwater sloughs. (USFWS 2007).	None	No suitable habitat occurs within the CPVVS action area. The CPVVS action area is not within the known range of this species.
<i>Oncorhynchus kisutch</i>	coho salmon - central CA coast	FE (NMFS)			No	The ESU includes all naturally spawned populations of coho salmon from Punta Gorda in northern California south to and including the San Lorenzo River in central California, as well as populations in tributaries to San Francisco Bay, excluding the Sacramento-San Joaquin River system	None	No suitable habitat occurs within the CPVVS action area. The CPVVS action area is not within the known range of this species.
<i>Oncorhynchus mykiss</i>	Central California Coastal steelhead	FT (NMFS)			Yes	The DPS includes all naturally spawned anadromous <i>O. mykiss</i> (steelhead) populations below natural and manmade impassable barriers in California streams from the Russian River (inclusive) to Aptos Creek (inclusive), and the drainages of San Francisco, San Pablo, and Suisun Bays eastward to Chipps Island at the confluence of the Sacramento and San Joaquin Rivers. Tributary streams to Suisun Marsh including Suisun Creek, Green Valley Creek, and an unnamed tributary to Cordelia Slough (commonly referred to as Red Top Creek),	None	The CPVVS action area is not within the known range of this species.
<i>Oncorhynchus mykiss</i>	Central Valley steelhead	FT (NMFS)			Yes	DPS includes all naturally spawned anadromous <i>O. mykiss</i> (steelhead) populations below natural and manmade impassable barriers in the Sacramento and San Joaquin Rivers and their tributaries,	Moderate	The Solano HCP indicates that steelhead can be expected to occur at least periodically in any of the perennial streams in Solano County, including Alamo Creek, and their tributaries
<i>Oncorhynchus tshawytscha</i>	Central Valley spring-run chinook salmon	FT (NMFS)			Yes	The ESU includes all naturally spawned populations of spring-run Chinook salmon in the Sacramento River and its tributaries in California	None	No suitable habitat occurs within the CPVVS action area. The CPVVS action area is not within the known range of this species.
<i>Oncorhynchus tshawytscha</i>	winter-run chinook salmon	FE (NMFS)			Yes	The ESU includes all naturally spawned populations of winter-run Chinook salmon in the Sacramento River and its tributaries in California	None	No suitable habitat occurs within the CPVVS action area. The CPVVS action area is not within the known range of this species.

Table 2. Regional Federally Listed Animal Species

Scientific Name	Common Name	Status				Range/ Habitat requirements	Site potential	Rationale
		Federal	State	CDFG	SHCP			
<i>Oncorhynchus tshawytscha</i>	Central Valley fall/late fall run chinook salmon	SC (NMFS)			Yes	The ESU includes all naturally spawned populations of fall/late fall-run Chinook salmon in the Sacramento River and its tributaries in California	Moderate	No suitable habitat occurs within the CPVVS action area. The CPVVS action area is not within the known range of this species.
Amphibians								
<i>Ambystoma californiense</i>	California tiger salamander	FT		CSC	Yes	The species is restricted to grasslands and low (typically below 2000 feet/610 meters) foothill regions where lowland aquatic sites are available for breeding. They prefer natural ephemeral pools or ponds that mimic them (stock ponds that are allowed to go dry).	None	No suitable habitat occurs within the CPVVS action area.
<i>Rana aurora draytonii</i>	California red-legged frog	FT		CSC	Yes	Adults need dense, shrubby or emergent riparian vegetation closely associated with deep (greater than 2 1/3-foot deep) still or slow moving water. The largest densities of California red-legged frogs are associated with deep-water pools with dense stands of overhanging willows and an intermixed fringe of cattails. Well-vegetated terrestrial areas within the riparian corridor may provide important sheltering habitat during winter. California red-legged frogs estivate (enter a dormant state during summer or dry weather) in small mammal burrows and moist leaf litter. They have been found up to 100 feet from water in adjacent dense riparian vegetation.	None	No suitable habitat occurs within the CPVVS action area.
Reptiles								
<i>Thamnophis gigas</i>	giant garter snake	FT	ST		Yes	Prefers freshwater marsh and low gradient streams. Has adapted to drainage canals and irrigation ditches (CNDDB 2008).	Moderate	Suitable habitat is present within the CPVVS action area. The CPVVS action area is within the potential range of this species.
<i>Masticophis lateralis euryxanthus</i>	Alameda whipsnake (=striped racer)	FT			No	The Alameda whipsnake currently inhabits the inner coast range mostly in Contra Costa and Alameda counties, with additional occurrence records in San Joaquin and Santa Clara counties. Alameda whipsnakes are typically found in chaparral—northern coastal sage scrub and coastal sage. (USFWS 2005)	None	No suitable habitat occurs within the CPVVS action area. The CPVVS action area is not within the known range of this species.
Birds								
Pelecaniformes								
<i>Pelecanus occidentalis californicus</i>	California brown pelican	FE, MBTA		FP	No	Typically, the ocean littoral, just outside the surf-line. Rarely strays either inland or far offshore. For nesting, coastal islands of small or moderate size where immunity from attacks of ground-dwelling predators is afforded. (Grinnell and Miller, 1944)	Low	Preferred habitat for this species does not occur within the CPVVS action area; however, it may fly over the site.
Gruiformes								
<i>Rallus longirostris obsoletus</i>	California clapper rail	FE, MBTA	SE, FP		Yes	Exclusively salt-water marshes traversed by tidal sloughs. Usually associated with abundant growths of pickle-weed (<i>Salicornia</i>), but feeds out from cover on molluscs obtained from the mud-bottomed sloughs. (Grinnell and Miller, 1944)	None	No suitable habitat occurs within the CPVVS action area. The CPVVS action area is not within the known range of this species.
<i>Sternula (=Sterna, =albitrons) antillarum</i>	California least tern	FE, MBTA	FP		No	For nesting, sandy, upper sea-beaches, or, rarely, inside mud-flats; foraging, adjacent open ocean, surf-line or estuaries. (Grinnell and Miller, 1944)	Low	Preferred habitat for this species does not occur within the CPVVS action area; however, it may fly over the site.
Charadriiformes								
<i>Charadrius alexandrius nivosus</i>	western snowy plover	FT, MBTA			No	Characteristically, sandy sea-beaches, chiefly the upper portions of these, above upper limit of normal tides. But also present locally on dikes of salt-ponds, and on shores of alkali or brackish lakes inland. (Grinnell and Miller, 1944)	None	No suitable habitat occurs within the CPVVS action area. The CPVVS action area is not within the known range of this species.

Table 2. Regional Federally Listed Animal Species

Scientific Name	Common Name	Status				Range/ Habitat requirements	Site potential	Rationale
		Federal	State	CDFG	SHCP			
Mammals <i>Reithrodontomys raviventris</i>	salt-marsh harvest mouse	FE	SE, FP		Yes	Occurs in the tidal marshes of San Pablo and Suisun bays. (CNDDDB 2008)	None	No suitable habitat occurs within the CPVVS action area. The CPVVS action area is not within the known range of this species.

Notes:

Federal Status

FE = federally listed as endangered

FT = federally listed as threatened

MBTA = Migratory Bird Treaty Act

BGEPA = Bald and Golden Eagle Protection Act

State Status

SE = State listed as endangered

ST = State listed as threatened

CSC = State species of concern

FP = State fully protected species

SS = State Special Animal

Solano Habitat Conservation Plan (SHCP)

Yes = covered species

No = not a covered species

NE = narrow endemic species

Table 3. Observed Species

Scientific Name	Common Name	Location within the 1-mile survey area			Location within the VEC project site		
		Riparian habitat	Agriculture habitat	Residential/ Recreational	VEC facility/ laydown	Substation/ T-line	Natural gas pipeline
Plants							
Anacardiaceae							
<i>Toxicodendron diversiloba</i>	Poison oak	x					
Apiaceae							
<i>Foeniculum vulgare</i>	fennel	x					
<i>Heracleum lanatum</i>	hemlock	x					
Asteraceae							
<i>Silybum marianum</i>					x		
<i>Carduus pycnocephalus</i>	Italian thistle				x		
<i>Pichris echinoides</i>					x		
	Mugwort	x					
Brassicaceae							
<i>Brassica nigra</i>	black mustard				x		
<i>Hirschfeldia incana</i>	short pod mustard	x			x		
Caprifoliaceae							
<i>Sambucus mexicana</i>	Blue elderberry	x					
Chenopodiaceae							
<i>Rumex crispus</i>	curly dock				x		
Fabaceae							
<i>Medicago sativa</i>	Alfalfa		x			x	x
<i>Vicia sativa</i>	garden vetch				x		
<i>Medicago polymorpha</i>	bur clover				x		
Poaceae							
<i>Phalaris aquatica</i>	Harding grass				x		
<i>Bromus hordeaceus</i>	soft chess	x			x	x	
<i>Avena fatua</i>	wild oat				x		
<i>Bromus diandrus</i>	ripgut brome	x			x		
<i>Lolium multiflorum</i>	English rye				x		
<i>Vulpia bromoides</i>					x		
Fagaceae							
<i>Quercus lobata</i>	Valley oak				x		
Geraniaceae							
<i>Erodium cicutarium</i>	redstem filaree	x			x		
Hippocastanaceae							
<i>Aesculus californica</i>	California buckeye	x					
Ranunculaceae							
<i>Ranunculus</i>	buttercup				x		
Rosaceae							
<i>Rosa californica</i>	California rose	x					

Table 3. Observed Species

Scientific Name	Common Name	Location within the 1-mile survey area			Location within the VEC project site		
		Riparian habitat	Agriculture habitat	Residential/Recreational	VEC facility/laydown	Substation/T-line	Natural gas pipeline
<i>Prunus dulcis</i>	Sweet almond	x					
Salicaceae							
<i>Salix lasiolepis</i>	Aroyyo willow	x					
Typhaceae							
<i>Typha latifolia</i>	broadleaf cattail	x					
Animals							
Birds							
Galliformes							
<i>Phasianus colchicus</i>	Ring-necked Pheasant				x		
Ciconiiformes							
<i>Egretta thula</i>	Snowy Egret	x					
<i>Cathartes aura</i>	Turkey Vulture						
Falconiformes							
<i>Elanus leucurus</i>	white-tailed kite				x		
<i>Circus cyaneus</i>	northern harrier				x		
<i>Buteo swainsoni</i>	Swainson's hawk	x			x		
<i>Buteo jamaicensis</i>	Red-tailed Hawk				x		
<i>Falco sparverius</i>	American Kestrel	x			x		
Gruiformes							
<i>Charadrius vociferus</i>	Killdeer				x		
Columbiformes							
<i>Zenaida macroura</i>	Mourning Dove				x	x	
Passeriformes							
<i>Lanius ludovicianus</i>	Loggerhead Shrike				x		x
<i>Aphelocoma californica</i>	Western Scrub-Jay			x			
<i>Corvus corax</i>	Common Raven	x	x		x		x
<i>Mimus polyglottos</i>	Northern Mockingbird			x			
<i>Sturnus vulgaris</i>	<i>European starling</i>	x					
<i>Passerculus sandwichensis</i>	Savannah Sparrow				x		
<i>Agelaius phoeniceus</i>	Red-winged Blackbird				x	x	x
<i>Sturnella neglecta</i>	Western Meadowlark				x	x	x
<i>Euphagus cyanocephalus</i>	Brewer's Blackbird				x		

Appendix D
Botanical Survey Results

CPVVS Botanical Survey Results
June 24, 2008

Virginia Dains, Consulting Botanist
3371 Ayres Holmes Road
Auburn, Ca 95602

530-888-9180

Background

Field surveys of the proposed CPVVS project site, including the construction laydown area, substation, electrical transmission line, and natural gas pipeline were conducted by Botanist Virginia Dains and Michael Clary on May 29, 2008. The purpose of the survey was to determine habitat suitability for sensitive plant species within the 1-mile radius of the proposed facility (Table 5.2-1a) and within the facility footprint (Table 5.2-2a). All of the CPVVS proposed work areas, were surveyed on foot. Habitats within the substation, electrical transmission line, natural gas pipeline, and private inaccessible lands within 1-mile of the CPVVS site were surveyed from the roadway. A 1 inch=2,000 foot scale true color aerial photograph of the project vicinity was also used to assess habitats and rare plant potentials. Specific attention was given to wet agricultural ditches, manmade seasonal wetlands and known historic locations for special status plants in the area. A list of plant species observed during the field survey is attached.

Findings

No sensitive plant species were observed during the late May field survey and none are expected to occur within any the CPVVS work areas. As indicated in Table 5.2-1a, 34 special status plant species have some potential to occur within 1-mile of the CPVVS facility. None of these species have potential habitat within the project footprint (Table 5.2-2a). In general, the project site is disturbed agricultural land and irrigated or dryland pasture lacking natural topography. Several of the species on the target list require specific seasonal wetland habitats such as vernal pools or playa lakes which are not found in the area. While vastly different in character, all wetland areas within the project footprint including agricultural and roadside ditches and the railroad siding were surveyed for rare species.

An attempt to re-locate a 1960's recorded population of Baker's navarretia along the railroad siding at the far western edge of the project vicinity. No navarretia was found and habitats currently developed along the siding are inappropriate for this species. Changes in land management (mowing, disking) or drainage patterns for agricultural development may have altered habitats for this population.

A historic population of the federally listed Showy Indian clover (*Trifolium amoenum*) is recorded from collections in the Elmira area from 1892 and was last seen in 1909. According to the California Native

Plant Society¹, showy Indian clover is considered to be extirpated in Solano County. When collected, the plant was recorded as growing in "rich swales". No habitat similar to this was seen in the project area.

Summary

No special status plants are expected to be found in the CPVVS work areas, and there is only limited potential for rare plant species to be found in 1-mile of the project area. No mitigation or additional botanical surveys should be required for this project.

¹ California Native Plant Society (CNPS). 2008. Inventory of Rare and Endangered Plants (online edition, v7-08b). California Native Plant Society. Sacramento, CA. Accessed on Wed, Jun. 18, 2008 from <http://www.cnps.org/inventory>

TABLE 5.2E-1
Regional Special-Status Plant Species

Scientific Name	Range/ Habitat requirements	1 mile potential	Rationale
Plants			
Apiaceae			
<i>Lilaeopsis masonii</i>	Marshes and swamps (brackish or freshwater), Riparian scrub. Blooms April-November. Elevation 0 to 10 feet. (CNPS 2008)	None	No suitable habitat occurs within 1 mile of the project site.
<i>Lomatium repostum</i>	Chaparral, Cismontane woodland/serpentine. Blooms March-June. Elevation 90 to 830 feet.	None	No suitable habitat occurs within 1 mile of the project site.
<i>Perideridia gairdneri</i> ssp. <i>gairdneri</i>	Broadleaved upland forest, Chaparral, Coastal prairie, Valley and foothill grassland, Vernal pools/vernally mesic. Blooms June-October. Elevation 0 to 365 feet.	Low	Potential habitat manmade or degraded within the 1-mile survey area
Asteraceae			
<i>Balsamorhiza macrolepis</i> var. <i>macrolepis</i>	Chaparral, Cismontane woodland, Valley and foothill grassland/sometimes serpentine. Blooms March-June. Elevation 90 to 1400 feet.	None	Known elevation range is above 1-mile survey area elevation.
<i>Blepharizonia plumosa</i>	Valley and foothill grassland. Blooms July-October. Elevation 30 to 505 feet.	Low	Degraded and manmade habitat occurs within the 1-mile survey area
<i>Centromadia parryi</i> ssp. <i>congdonii</i>	Valley and foothill grassland(alkaline). Blooms May-Oct(Nov). Elevation 1 to 230 feet.	Moderate	Suitable habitat occurs within the 1-mile survey area
<i>Centromadia parryi</i> ssp. <i>parryi</i>	Chaparral, Coastal prairie, Meadows and seeps, Marshes and swamps(coastal salt), Valley and foothill grassland(vernally mesic)/often alkaline. Blooms May-November. Elevation 2 to 420 feet.	Moderate	Suitable habitat occurs within the 1-mile survey area
<i>Centromadia parryi</i> ssp. <i>rudis</i>	Valley and foothill grassland, Vernal pools/alkaline, vernally mesic, seeps, sometimes roadsides. Blooms May-October. Elevation 0 to 100 feet.	Moderate	Suitable habitat occurs within the 1-mile survey area
<i>Cirsium hydrophilum</i> var. <i>hydrophilum</i>	Marshes and swamps(salt). Blooms June-September. Elevation 0 to 1 feet.	None	No suitable habitat occurs within 1 mile of the project site. Known elevation is below the 1-mile survey area elevation
<i>Erigeron biolettii</i>	Broadleaved upland forest, Cismontane woodland, North Coast coniferous forest/rocky, mesic. Blooms June-October. Elevation 30 to 1100 feet.	None	No suitable habitat occurs within 1 mile of the project site.
<i>Grindelia stricta</i>	Tidal flats, marshes, dunes and sea bluffs	None	No suitable habitat occurs within the 1-mile survey area
<i>Hesperavax caulescens</i>	Valley and foothill grassland(mesic, clay), Vernal pools(shallow). Blooms March-June. Elevation 0 to 505 feet.	Low	Potential habitat degraded and manmade occurs within the 1-mile survey area
<i>Isocoma arguta</i>	Valley and foothill grassland(alkaline). Blooms August-December. Elevation 1 to 20 feet.	Low	Potential habitat degraded or manmade occurs within the 1-mile survey area
<i>Lasthenia conjugens</i>	Cismontane woodland, Playas(alkaline), Valley and foothill grassland, Vernal pools/mesic. Blooms March-June. Elevation 0 to 470 feet.	None	No suitable habitat found within the 1-mile survey area.
<i>Lasthenia ferrisiae</i>	Vernal pools(alkaline, clay). Blooms February-May. Elevation 20 to 700 feet.	Low	Degraded or manmade habitat may occur within private inaccessible areas within the 1-mile survey area.
<i>Lessingia hololeuca</i>	Broadleaved upland forest, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland/clay, serpentine. Blooms June-October. Elevation 15 to 305 feet.	None	No suitable habitat occurs within the 1-mile survey area
<i>Micropus amphibolus</i>	Broadleaved upland forest, Chaparral, Cismontane woodland, Valley and foothill grassland/rocky. Blooms March-May. Elevation 45 to 825 feet.	None	No suitable habitat occurs within the 1-mile survey area
<i>Microseris sylvatica</i>	Chaparral, Cismontane woodland, Great Basin scrub, Pinyon and juniper woodland, Valley and foothill grassland(serpentine). Blooms March-June. Elevation 45 to 1500 feet.	None	No suitable habitat occurs within the 1-mile survey area
<i>Psilocarphus brevisimus</i> var. <i>multiflorus</i>	Vernal pools. Blooms May-June. Elevation 10 to 500 feet.	Low	Degraded or manmade habitat may occur within private inaccessible areas within the 1-mile survey area.
<i>Senecio aphanactis</i>	Chaparral, Cismontane woodland, Coastal scrub/sometimes alkaline. Blooms January-April. Elevation 15 to 800 feet.	None	No suitable habitat occurs within 1 mile of the project site.
<i>Symphotrichum lentum</i>	Marshes and swamps(brackish and freshwater). Blooms May-November. Elevation 0 to 3 feet.	None	No suitable habitat occurs within 1 mile of the project site.
Boraginaceae			
<i>Arabis modesta</i>	Chaparral, Lower montane coniferous forest. Blooms March-July. Elevation 120 to 800 feet.	None	No suitable habitat occurs within 1 mile of the project site.
<i>Lepidium latipes</i> var. <i>heckardii</i>	Valley and foothill grassland(alkaline flats). Blooms March-May. Elevation 10 to 200 feet.	Low	Degraded or manmade habitat occurs within the 1-mile survey area
<i>Plagiobothrys hystriculus</i>	Valley and foothill grassland(mesic), Vernal poolsmargins/often vernal swales. Blooms April-May. Elevation 0 to 52 feet.	Low	Degraded or manmade habitat occurs within the 1-mile survey area
Campanulaceae			
<i>Downingia pusilla</i>	Valley and foothill grassland(mesic), Vernal pools. Blooms March-May. Elevation 1 to 445 feet.	Low	Manmade or degraded habitat occurs within the 1-mile survey area
<i>Legenere limosa</i>	Vernal pools. Blooms April-June. Elevation 1 to 880 feet. This species has been reported within 1 mile of the project vicinity, but the occurrence is presumed extirpated.	Low	Manmade or degraded habitat occurs within the 1-mile survey area
Chenopodiaceae			
<i>Atriplex cordulata</i>	Chenopod scrub, Meadows and seeps, Valley and foothill grassland(sandy)/saline or alkaline. Blooms April-October. Elevation 1 to 375 feet.	Low	Manmade or degraded habitat occurs within the 1-mile survey area
<i>Atriplex coronata</i> var. <i>coronata</i>	Chenopod scrub, Valley and foothill grassland, Vernal pools/alkaline. Blooms March-October. Elevation 1 to 590 feet.	Low	Manmade or degraded habitat occurs within the 1-mile survey area

TABLE 5.2E-1
Regional Special-Status Plant Species

Scientific Name	Range/ Habitat requirements	1 mile potential	Rationale
<i>Atriplex depressa</i>	Chenopod scrub, Meadows and seeps, Playas, Valley and foothill grassland, Vernal pools/alkaline, clay. Blooms May-October. Elevation 1 to 320 feet.	Low	Manmade or degraded habitat occurs within the 1-mile survey area
<i>Atriplex joaquiniana</i>	Chenopod scrub, Meadows and seeps, Playas, Valley and foothill grassland/alkaline. Blooms April-October. Elevation 1 to 835 feet.	Low	Manmade or degraded habitat occurs within the 1-mile survey area
<i>Atriplex persistens</i>	Vernal pools(alkaline). Blooms June-October. Elevation 10 to 115 feet.	Low	Suitable habitat may occur within private inaccessible areas within the 1-mile survey area.
Fabaceae			
<i>Astragalus tener</i> var. <i>ferrisiae</i>	Meadows and seeps(vernally mesic), Valley and foothill grassland(subalkaline flats). Blooms April-May. Elevation 5 to 75 feet.	Low	Manmade or degraded habitat occurs within the 1-mile survey area
<i>Astragalus tener</i> var. <i>tener</i>	Playas, Valley and foothill grassland(adobe clay), Vernal pools/alkaline. Blooms March-June. Elevation 1 to 60 feet.	Low	Suitable habitat occurs within the 1-mile survey area
<i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	Marshes and swamps(freshwater and brackish). Blooms May-Jul(Sep). Elevation 0 to 4 feet.	None	No suitable habitat found within the 1-mile survey area.
<i>Trifolium amoenum</i>	Coastal bluff scrub, Valley and foothill grassland(sometimes serpentinite). Blooms April-June. Elevation 5 to 415 feet.	None	This species was recorded from the Elmira area between 1892-1909 and has not been reported within the 1-mile survey area since then. Occurrence is presumed extirpated by CNPS.
<i>Trifolium depauperatum</i> var. <i>hydrophilum</i>	Marshes and swamps, Valley and foothill grassland(mesic, alkaline), Vernal pools. Blooms April-June. Elevation 0 to 300 feet.	Low	Degraded or manmade habitat may occur within the 1-mile survey area
Geraniaceae			
<i>Erodium macrophylla</i>	Cismontane woodland, Valley and foothill grassland/clay. Blooms March-May. Elevation 15 to 1200 feet.	Low	Degraded or manmade habitat may occur within the 1-mile survey area
Grossulariaceae			
<i>Ribes victoris</i>	Broadleaved upland forest, Chaparral/mesic, shady. Blooms March-April. Elevation 100 to 750 feet.	None	No suitable habitat occurs within 1 mile of the project site.
Iridaceae			
<i>Iris longipetala</i>	Coastal prairie, Lower montane coniferous forest, Meadows and seeps/mesic. Blooms March-May. Elevation 0 to 600 feet.	None	No suitable habitat occurs within 1 mile of the project site.
Juglandaceae			
<i>Juglans hindsii</i>	Riparian forest, Riparian woodland. Blooms April-May. Elevation 0 to 440 feet.	Moderate	Suitable riparian habitat occurs within the 1-mile survey area
Lamiaceae			
<i>Monardella viridis</i> ssp. <i>viridis</i>	Broadleaved upland forest, Chaparral, Cismontane woodland. Blooms June-September. Elevation 100 to 1010 feet.	None	No suitable habitat occurs within 1 mile of the project site.
Liliaceae			
<i>Calochortus pulchellus</i>	Chaparral, Cismontane woodland, Riparian woodland, Valley and foothill grassland. Blooms April-June. Elevation 30 to 840 feet.	Low	Limited riparian habitat occurs within the 1-mile survey area
<i>Fritillaria liliacea</i>	Cismontane woodland, Coastal prairie, Coastal scrub, Valley and foothill grassland/often serpentinite. Blooms February-April. Elevation 3 to 410 feet.	Low	Degraded grassland/pasture habitats occur within the 1-mile survey area.
<i>Fritillaria pluriflora</i>	Chaparral, Cismontane woodland, Valley and foothill grassland/often adobe. Blooms February-April. Elevation 60 to 705 feet.	Low	Degraded grassland/pasture habitats occur within the 1-mile survey area.
<i>Triteleia lugens</i>	Broadleaved upland forest, Chaparral, Coastal scrub, Lower montane coniferous forest. Blooms April-June. Elevation 100 to 1000 feet.	None	No suitable habitat occurs within 1 mile of the project site.
<i>Hesperolinon breweri</i>	Chaparral, Cismontane woodland, Valley and foothill grassland/usually serpentinite. Blooms May-July. Elevation 30 to 900 feet.	None	No suitable habitat occurs within the 1-mile survey area
Malvaceae			
<i>Hibiscus lasiocarpus</i>	Marshes and swamps(freshwater). Blooms June-September. Elevation 0 to 120 feet.	Low	Manmade marsh habitat/water features unlikely to be potential habitat within the 1-mile survey area.
Poaceae			
<i>Tuctoria mucronata</i>	Valley and foothill grassland(mesic), Vernal pools. Blooms April-August. Elevation 5 to 10 feet.	None	No suitable habitat within the 1-mile survey area.
<i>Neostapfia colusana</i>	Vernal pools(adobe, large). Blooms May-August. Elevation 5 to 200 feet.	None	No suitable habitat within the 1-mile survey area.
<i>Orcuttia inaequalis</i>	Vernal pools. Blooms April-September. Elevation 10 to 755 feet.	None	No suitable habitat within the 1-mile survey area.
Polemoniaceae			
<i>Navarretia cotulifolia</i>	Chaparral, Cismontane woodland, Valley and foothill grassland/adobe. Blooms May-June. Elevation 4 to 1830 feet.	Low	Degraded grassland/pasture habitat occurs within the 1-mile survey area
<i>Navarretia leucocephala</i> ssp. <i>bakeri</i>	Cismontane woodland, Lower montane coniferous forest, Meadows and seeps, Valley and foothill grassland, Vernal pools/mesic. Blooms April-July. Elevation 5 to 1740 feet.	Low	This species was reported in 1962 within the 1-mile survey area. Field surveys in 2008 failed to locate the population or appropriate habitat. Occurrence is presumed extant.
Polygonaceae			
<i>Eriogonum truncatum</i>	Chaparral, Coastal scrub, Valley and foothill grassland/sandy. Blooms April-Sep(November-Dec). Elevation 4 to 350 feet.	Moderate	Suitable habitat occurs within the 1-mile survey area
<i>Polygonum marinense</i>	Marshes and swamps(coastal salt or brackish). Blooms (Apr)May-Aug(Oct). Elevation 0 to 10 feet.	None	No suitable habitat occurs within 1 mile of the project site.
Ranunculaceae			
<i>Delphinium recurvatum</i>	Chenopod scrub, Cismontane woodland, Valley and foothill grassland/alkaline. Blooms March-June. Elevation 3 to 750 feet.	Low	Degraded grassland/pasture habitat occurs within the 1-mile survey area

TABLE 5.2E-1

Regional Special-Status Plant Species

Scientific Name	Range/ Habitat requirements	1 mile potential	Rationale
<i>Myosurus minimus</i> ssp. <i>apus</i>	Valley and foothill grassland, Vernal pools(alkaline). Blooms March-June. Elevation 20 to 640 feet.	Low	Degraded or manmade seasonal wetlands habitat occurs within the 1-mile survey area
<i>Ranunculus lobbii</i>	Cismontane woodland, North Coast coniferous forest, Valley and foothill grassland, Vernal pools/mesic. Blooms February-May. Elevation 15 to 470 feet.	Low	Degraded or manmade habitat occurs within the 1-mile survey area
Rhamnaceae			
<i>Ceanothus purpureus</i>	Chaparral, Cismontane woodland/volcanic, rocky. Blooms February-June. Elevation 120 to 640 feet.	None	No suitable habitat occurs within 1 mile of the project site.
Scrophulariaceae			
<i>Cordylanthus mollis</i> ssp. <i>hispidus</i>	Meadows and seeps, Playas, Valley and foothill grassland/alkaline. Blooms June-September. Elevation 1 to 155 feet.	None	No suitable habitat occurs within the 1-mile survey area
<i>Cordylanthus mollis</i> ssp. <i>mollis</i>	Marshes and swamps(coastal salt). Blooms July-November. Elevation 0 to 3 feet.	None	No suitable habitat occurs within the 1-mile survey area.
<i>Gratiola heterosepala</i>	Marshes and swamps(lake margins), Vernal pools/clay. Blooms April-August. Elevation 10 to 2375 feet.	Low	Suitable habitat unlikely to occur within private inaccessible areas within the 1-mile survey area.
<i>Limosella subulata</i>	Marshes and swamps. Blooms May-August. Elevation 0 to 3 feet.	None	No suitable habitat occurs within the 1-mile survey area.

Notes:

Federal Status

FE = federally listed as endangered

FT = federally listed as threatened

State Status

SE = state listed as endangered

ST = state listed as threatened

California Native Plant Society (CNPS) Status

1A = plants presumed extinct in California

1B = plants rare, threatened, or endangered in California, but more common elsewhere

2 = plants rare, threatened, or endangered in California, but more common elsewhere

Solano Habitat Conservation Plan (SHCP)

Yes = covered species

No = not a covered species

NE = narrow endemic species

TABLE 5 2E-2

Potential Special Status Plant Species in the 1-mile Survey Area

Scientific Name	Range/ Habitat requirements	Site potential	Rationale
Plants			
Apiaceae			
<i>Perideridia gairdneri</i> ssp. <i>gairdneri</i>	Broadleaved upland forest, Chaparral, Coastal prairie, Valley and foothill grassland, Vernal pools/vernally mesic. Blooms June-October. Elevation 0 to 365 feet.	None	No suitable habitat occurs within the VEC project site.
Asteraceae			
<i>Blepharizonia plumosa</i>	Valley and foothill grassland. Blooms July-October. Elevation 30 to 505 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Centromadia parryi</i> ssp. <i>congdonii</i>	Valley and foothill grassland(alkaline). Blooms May-Oct(Nov). Elevation 1 to 230 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Centromadia parryi</i> ssp. <i>parryi</i>	Chaparral, Coastal prairie, Meadows and seeps, Marshes and swamps(coastal salt), Valley and foothill grassland(vernally mesic)/often alkaline. Blooms May-November. Elevation 2 to 420 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Centromadia parryi</i> ssp. <i>rudis</i>	Valley and foothill grassland, Vernal pools/alkaline, vernally mesic, seeps, sometimes roadsides. Blooms May-October. Elevation 0 to 100 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Grindelia stricta</i>	Too common for CNPS listing, considered but rejected	None	No suitable habitat occurs within the VEC project site.
<i>Hesperavex caulescens</i>	Valley and foothill grassland(mesic, clay), Vernal pools(shallow). Blooms March-June. Elevation 0 to 505 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Isocoma arguta</i>	Valley and foothill grassland(alkaline). Blooms August-December. Elevation 1 to 20 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Lasthenia conjugens</i>	Cismontane woodland, Playas(alkaline), Valley and foothill grassland, Vernal pools/mesic. Blooms March-June. Elevation 0 to 470 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Lasthenia ferrisiae</i>	Vernal pools(alkaline, clay). Blooms February-May. Elevation 20 to 700 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Lessingia hololeuca</i>	Broadleaved upland forest, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland/clay, serpentinite. Blooms June-October. Elevation 15 to 305 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Micropus amphibolus</i>	Broadleaved upland forest, Chaparral, Cismontane woodland, Valley and foothill grassland/rocky. Blooms March-May. Elevation 45 to 825 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Microseris sylvatica</i>	Chaparral, Cismontane woodland, Great Basin scrub, Pinyon and juniper woodland, Valley and foothill grassland(serpentinite). Blooms March-June. Elevation 45 to 1500 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Psilocarphus brevissimus</i> var. <i>multiflorus</i>	Vernal pools. Blooms May-June. Elevation 10 to 500 feet.	None	No suitable habitat occurs within the VEC project site.
Boraginaceae			
<i>Lepidium latipes</i> var. <i>heckardii</i>	Valley and foothill grassland(alkaline flats). Blooms March-May. Elevation 10 to 200 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Plagiobothrys hystriculus</i>	Valley and foothill grassland(mesic), Vernal poolsmargins/often vernal swales. Blooms April-May. Elevation 0 to 52 feet.	None	No suitable habitat occurs within the VEC project site.
Campanulaceae			
<i>Downingia pusilla</i>	Valley and foothill grassland(mesic), Vernal pools. Blooms March-May. Elevation 1 to 445 feet.	None	No suitable habitat occurs within the VEC project site.
Chenopodiaceae			
<i>Atriplex cordulata</i>	Chenopod scrub, Meadows and seeps, Valley and foothill grassland(sandy)/saline or alkaline. Blooms April-October. Elevation 1 to 375 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Atriplex coronata</i> var. <i>coronata</i>	Chenopod scrub, Valley and foothill grassland, Vernal pools/alkaline. Blooms March-October. Elevation 1 to 590 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Atriplex depressa</i>	Chenopod scrub, Meadows and seeps, Playas, Valley and foothill grassland, Vernal pools/alkaline, clay. Blooms May-October. Elevation 1 to 320 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Atriplex joaquiniana</i>	Chenopod scrub, Meadows and seeps, Playas, Valley and foothill grassland/alkaline. Blooms April-October. Elevation 1 to 835 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Atriplex persistens</i>	Vernal pools(alkaline). Blooms June-October. Elevation 10 to 115 feet.	None	No suitable habitat occurs within the VEC project site.
Fabaceae			
<i>Astragalus tener</i> var. <i>ferrisiae</i>	Meadows and seeps(vernally mesic), Valley and foothill grassland(subalkaline flats). Blooms April-May. Elevation 5 to 75 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Astragalus tener</i> var. <i>tener</i>	Playas, Valley and foothill grassland(adobe clay), Vernal pools/alkaline. Blooms March-June. Elevation 1 to 60 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	Marshes and swamps(freshwater and brackish). Blooms May-Jul(Sep). Elevation 0 to 4 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Trifolium amoenum</i>	Coastal bluff scrub, Valley and foothill grassland(sometimes serpentinite). Blooms April-June. Elevation 5 to 415 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Trifolium depauperatum</i> var. <i>hydrophilum</i>	Marshes and swamps, Valley and foothill grassland(mesic, alkaline), Vernal pools. Blooms April-June. Elevation 0 to 300 feet.	None	No suitable habitat occurs within the VEC project site.
Geraniaceae			
<i>Erodium macrophylla</i>	Cismontane woodland, Valley and foothill grassland/clay. Blooms March-May. Elevation 15 to 1200 feet.	None	No suitable habitat occurs within the VEC project site.

TABLE 5 2E-2

Potential Special Status Plant Species in the 1-mile Survey Area

Scientific Name	Range/ Habitat requirements	Site potential	Rationale
Juglandaceae			
<i>Juglans hindsii</i>	Riparian forest, Riparian woodland. Blooms April-May. Elevation 0 to 440 feet.	None	No suitable habitat occurs within the VEC project site.
Liliaceae			
<i>Calochortus pulchellus</i>	Chaparral, Cismontane woodland, Riparian woodland, Valley and foothill grassland. Blooms April-June. Elevation 30 to 840 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Fritillaria liliacea</i>	Cismontane woodland, Coastal prairie, Coastal scrub, Valley and foothill grassland/often serpentinite. Blooms February-April. Elevation 3 to 410 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Fritillaria pluriflora</i>	Chaparral, Cismontane woodland, Valley and foothill grassland/often adobe. Blooms February-April. Elevation 60 to 705 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Hesperolinon breweri</i>	Chaparral, Cismontane woodland, Valley and foothill grassland/usually serpentinite. Blooms May-July. Elevation 30 to 900 feet.	None	No suitable habitat occurs within the VEC project site.
Malvaceae			
<i>Hibiscus lasiocarpus</i>	Marshes and swamps(freshwater). Blooms June-September. Elevation 0 to 120 feet.	None	No suitable habitat occurs within the VEC project site.
Poaceae			
<i>Tuctoria mucronata</i>	Valley and foothill grassland(mesic), Vernal pools. Blooms April-August. Elevation 5 to 10 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Neostapfia colusana</i>	Vernal pools(adobe, large). Blooms May-August. Elevation 5 to 200 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Orcuttia inaequalis</i>	Vernal pools. Blooms April-September. Elevation 10 to 755 feet.	None	No suitable habitat occurs within the VEC project site.
Polemoniaceae			
<i>Navarretia cotulifolia</i>	Chaparral, Cismontane woodland, Valley and foothill grassland/adobe. Blooms May-June. Elevation 4 to 1830 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Navarretia leucocephala</i> ssp. <i>bakeri</i>	Cismontane woodland, Lower montane coniferous forest, Meadows and seeps, Valley and foothill grassland, Vernal pools/mesic. Blooms April-July. Elevation 5 to 1740 feet.	None	No suitable habitat occurs within the VEC project site.
Polygonaceae			
<i>Eriogonum truncatum</i>	Chaparral, Coastal scrub, Valley and foothill grassland/sandy. Blooms April-Sep(November-Dec). Elevation 3 to 350 feet.	None	No suitable habitat occurs within the VEC project site.
Ranunculaceae			
<i>Delphinium rotcurvatum</i>	Chenopod scrub, Cismontane woodland, Valley and foothill grassland/alkaline. Blooms March-June. Elevation 3 to 750 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Myosurus minimus</i> ssp. <i>apus</i>	Valley and foothill grassland, Vernal pools(alkaline). Blooms March-June. Elevation 20 to 640 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Ranunculus lobbii</i>	Cismontane woodland, North Coast coniferous forest, Valley and foothill grassland, Vernal pools/mesic. Blooms February-May. Elevation 15 to 470 feet.	None	No suitable habitat occurs within the VEC project site.
Scrophulariaceae			
<i>Cordylanthus mollis</i> ssp. <i>hispidus</i>	Meadows and seeps, Playas, Valley and foothill grassland/alkaline. Blooms June-September. Elevation 1 to 155 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Cordylanthus mollis</i> ssp. <i>mollis</i>	Marshes and swamps(coastal salt). Blooms July-November. Elevation 0 to 3 feet.	None	No suitable habitat occurs within the VEC project site.
<i>Gratiola heterosepala</i>	Marshes and swamps(lake margins), Vernal pools/clay. Blooms April-August. Elevation 10 to 2375 feet.	None	No suitable habitat occurs within the VEC project site.

Notes:

Federal Status

FE = federally listed as endangered

FT = federally listed as threatened

State Status

SE = state listed as endangered

ST = state listed as threatened

California Native Plant Society (CNPS) Status

1A = plants presumed extinct in California

1B = plants rare, threatened, or endangered in California, but more common elsewhere

2 = plants rare, threatened, or endangered in California, but more common elsewhere

Solano Habitat Conservation Plan (SHCP)

Yes = covered species

No = not a covered species

NE = narrow endemic species

Appendix E
Wetland Determination Data Form

SOILS

Map Unit Name: Yolo Loam (Yr) WELL DRAINED
 (Series and Phase): SANDY YOLO SANDY LOAM (SeA) Drainage Class: MODERATELY WELL DRAINED
 Taxonomy (Subgroup): _____ Field Observations
 Confirm Mapped Type? Yes No

Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
1/2		10 YR 4/2	- (none)	-	VERY FINE CLAY

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks: NO STANDING, SLIGHTLY MOIST BELOW 8". UNDER 4-6" UNCONSOLIDATED DUE TO RECENT DISKING.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present?	Yes <input checked="" type="radio"/> No	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No

Remarks: NWI DESIGNATES THIS AREA AS ARTIFICIALLY AND PERMANENTLY FLOODED PALUSTRINE WETLANDS; HOWEVER, NO ARTIFICIAL OR PERMANENT WATER SOURCE WAS OBSERVED. HYDRIC SOILS ARE NOT PRESENT BUT MAY DEVELOP OVER TIME.

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>UNIONVILLE ENERGY CENTER</u> Applicant/Owner: _____ Investigator: <u>MICHAEL CLEARY</u>	Date: <u>7/10/2008</u> County: <u>SANRAID</u> State: <u>CALIFORNIA</u>
Do Normal Circumstances exist on the site? Yes <input type="radio"/> NO <input checked="" type="radio"/> Is the site significantly disturbed (Atypical Situation)? YES <input checked="" type="radio"/> No <input type="radio"/> Is the area a potential Problem Area? Yes <input type="radio"/> NO <input checked="" type="radio"/> (If needed, explain on reverse.)	Community ID: _____ Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>XANTHUM STRONGII</u>	<u>H</u>	<u>FAC+</u>	9. _____	_____	_____
2. <u>BRASSICA WIDERA</u>	<u>H</u>	<u>NL</u>	10. _____	_____	_____
3. _____	_____	_____	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 50%

Remarks: SITE WAS RECENTLY DISKED, COVER IS 98% JARS AROUND, WITH 1% XANTHUM AND BRASSICA

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>NO WATER TO 16"</u> (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	Remarks: <u>IMAGERY FROM 1998 DOES NOT INDICATE PONDING; HOWEVER CURRENT IMAGERY AND SITE OBSERVATIONS (BEAMS) INDICATE ^{SEMI-DRAINAGE} CONTAINMENT OF WASTEWATER. URS CREATED BY EASTERN WASTEWATER TREATMENT PLANT TO DAY SLUDGE MATERIAL PRIOR TO REMOVAL OFFSITE.</u>



BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT
COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
1-800-822-6228 – WWW.ENERGY.CA.GOV

APPLICATION FOR CERTIFICATION
FOR THE *CPV VACA STATION*
BY THE *CPV VACAVILLE, L.L.C.*

Docket No. 08-AFC-11

PROOF OF SERVICE
Revised (2/4/2010)

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DECLARATION OF SERVICE

I, Mary Finn, declare that on Wednesday, February 10, 2010, I served and filed copies of the attached Biological Assessment, Biological Assessment for Central Valley Steelhead, Preliminary Jurisdictional Waters Delineation Study, and 404 Permit Application, dated February 10, 2010. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at: **[<http://www.energy.ca.gov/sitingcases/vacastation/index.html>]**. The document has been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(Check all that Apply)

For service to all other parties:

sent electronically to all email addresses on the Proof of Service list;

by personal delivery or by depositing in the United States mail at Sacramento, California, with first-class postage thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses **NOT** marked "email preferred."

AND

For filing with the Energy Commission:

sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (preferred method);

OR

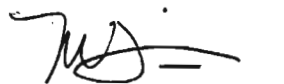
depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION

Attn: Docket No. 08-AFC-11
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512

docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct.



Mary Finn