Document Number: 070323113638

Mr. Carlos Alvarado  
EIP Associates, a Division of PBS&J  
1200 Second St.  
Sacramento, CA 95814

Subject: Species List for Delta Shores

Dear Mr. Alvarado

We are sending this official species list in response to your March 23, 2007 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 June 21, 2007.

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: 070323113638
Database Last Updated: March 5, 2007

Quad Lists

Listed Species

Invertebrates
- *Branchinecta conservatio*
  - *Conservancy* fairy shrimp (*E*)
- *Branchinecta lynchii*
  - *vernal pool* fairy shrimp (*T*)
- *Desmocerus californicus dimorphus*
  - *valley elderberry longhorn beetle* (*T*)
- *Lepidurus packardi*
  - *vernal pool* tadpole shrimp (*E*)

Fish
- *Acipenser mediostriis*
  - *green sturgeon* (*T*) (*NMFS*)
- *Hypomesus transpacificus*
  - *Critical habitat, delta smelt* (*X*)
  - *delta smelt* (*T*)
- *Oncorhynchus mykiss*
  - *Central Valley steelhead* (*T*) (*NMFS*)
  - *Critical habitat, Central Valley steelhead* (*X*) (*NMFS*)
- *Oncorhynchus tsawatytscha*
  - *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*)
- *Rana aurora draytonii*
  - *California red-legged frog* (*T*)

Reptiles
- *Thamnophis gigas*
  - *giant garter snake* (*T*)

Birds
- *Haliaeetus leucocephalus*
  - *bald eagle* (*T*)

Candidate Species

Fish
- *Oncorhynchus tsawatytscha*
  - *Central Valley fall/late fall-run chinook salmon* (*C*) (*NMFS*)
  - *Critical habitat, Central Valley fall/late fall-run chinook* (*C*) (*NMFS*)

Quads Containing Listed, Proposed or Candidate Species:
- FLORIN (496B)
- CLARKSBURG (497A)
County Lists
No county species lists requested.

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 Unit States is divided into these quads, which are about the 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 they or 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 environmental 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 of 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 and 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 June 21, 2007.
**Inventory of Rare and Endangered Plants**

**Status:** search results - Fri, Mar. 23, 2007 10:32 c

Tip: Lathyrus Astragalus returns species from both genera.[all tips and help.]

[search history]

**Your Quad Selection:** Florin (496B) 3812144, Sacramento East (512C) 3812154, Carmichael (512D) 3812153, Clarksburg (497A) 3812145, Courtland (497D) 3812135, Sacramento West (513D) 3812155, Elk Grove (496A) 3812143, Bruceville (496C) 3812134, Galt (496D) 3812133

**Hits 1 to 14 of 14**

Requests that specify topo quads will return only Lists 1-3.

To save selected records for later study, click the ADD button.

ADD checked items to Plant Press [check all] [check none]

Selections will appear in a new window.

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<td>Scrophulariaceae</td>
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<td>blue skullcap</td>
<td>Lamiaceae</td>
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To save selected records for later study, click the ADD button.

ADD checked items to Plant Press [check all] [check none]

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<td>19 tricolored blackbird</td>
<td>ABPBXB0020</td>
<td>G2G3</td>
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Accipiter cooperii

Cooper's hawk

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<th>Other Lists</th>
<th>CDFG Status</th>
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<tr>
<td>State: None</td>
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Habitat Associations

General: WOODLAND, CHIEFLY OF OPEN, INTERRUPTED OR MARGINAL TYPE.
Micro: NEST SITES MAINLY IN RIPARIAN GROWTHS OF DECIDUOUS TREES, AS IN CANYON BOTTOMS ON RIVER FLOOD-PLAINS; ALSO, LIVE OAKS.

Occurrence No. 99
Map Index: 62278
EO Index: 62315

Dates Last Seen
Element: 2005-08-XX
Site: 2005-08-XX
Record Last Updated: 2005-08-11

Quad Summary: Florin (381214/496B)
County Summary: Sacramento

Lat/Long: 38.44027º / -121.44555º
UTM: Zone-10 N4255810 E635660
Radius: 80 meters
Mapping Precision: SPECIFIC
Elevation: 20 ft
Symbol Type: POINT

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

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

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

Threat: POSSIBLE THREATS FROM ADJACENT TRAFFIC AND NEARBY CONSTRUCTION.


Owner/Manager: SAC COUNTY REG SANITATION DIST
### Agelaius tricolor

**tricolored blackbird**

<table>
<thead>
<tr>
<th>General</th>
<th>Habitats Associations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species: HIGHLY COLONIAL SPECIES, MOST NUMBEROUS IN CENTRAL VALLEY &amp; VICINITY. LARGELY ENDEMIC TO CALIFORNIA.</td>
<td>Requires open water, protected nesting substrate, &amp; foraging area with insect prey within a few km of the colony.</td>
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**Habitat Associations**

**Micro:**
NESTING COLONY) HIGHLY COLONIAL SPECIES, MOST NUMBEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.

**Agelaius tricolor**

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### Occurrence Details

#### Occurrence No. 6
- **Map Index:** 11515
- **EO Index:** 7319
- **Dates Last Seen:** Element: 1994-XX-XX
- **Occurrence:** Elk Grove (3812143/496A), Florin (3812144/496B)
- **County Summary:** Sacramento
- **Lat/Long:** 38.44757° / -121.37821°
- **Township:** 07N
- **Range:** 05E
- **Section:** 24
- **Elevation:** 35 ft
- **Mapping Precision:** NON-SPECIFIC
- **Symbol Type:** POLYGON
- **Location:** "CALVINE" COLONY SITE; ALONG EAST AND WEST SIDE OF SPRR TRACKS, 0.2-0.6 MILES SSE OF CALVINE ROAD, SE OF SACRAMENTO.
- **Owner/Manager:** UNKNOWN

#### Occurrence No. 7
- **Map Index:** 11446
- **EO Index:** 24793
- **Dates Last Seen:** Element: 1981-05-11
- **Occurrence:** Florin (3812144/496B)
- **County Summary:** Sacramento
- **Lat/Long:** 38.45379° / -121.40689°
- **Township:** 07N
- **Range:** 05E
- **Section:** 24
- **Elevation:** 25 ft
- **Mapping Precision:** NON-SPECIFIC
- **Symbol Type:** POINT
- **Location:** CALVINE RD AND HWY 99, SE OF SACRAMENTO

#### Occurrence No. 9
- **Map Index:** 11420
- **EO Index:** 24792
- **Dates Last Seen:** Element: 1981-05-15
- **Occurrence:** Florin (3812144/496B), Bruceville (3812134/496C)
- **County Summary:** Sacramento
- **Lat/Long:** 38.37184° / -121.41690°
- **Township:** 06N
- **Range:** 05E
- **Section:** 15
- **Elevation:** 25 ft
- **Mapping Precision:** NON-SPECIFIC
- **Symbol Type:** POINT
- **Location:** NEAR INTERSECTION OF KAMMERER RD & BRUCEVILLE RD, 4 MI N OF FRANKLIN FIELD.
### Agelaius tricolor

**tricolored blackbird**

<table>
<thead>
<tr>
<th>Status</th>
<th>NDDB Element Ranks</th>
<th>Other Lists</th>
<th>CDFG Status</th>
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<td>State: None</td>
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**Habitat Associations**

**General:** (NESTING COLONY) HIGHLY COLONIAL SPECIES, MOST NUMBEROUS 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.

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**Occurrence Details:**

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<th>Trend</th>
<th>Dates Last Seen</th>
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<tbody>
<tr>
<td>Possibly Extirpated</td>
<td>Unknown</td>
<td>1982-06-07</td>
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**Location:** ALONG SHELDON ROAD, 0.5 MILE EAST OF HIGHWAY 99, SOUTH OF SACRAMENTO.

**Ecological:** NESTING SUBSTRATE CONSISTS OF TYPHA SP.

**General:** 130 ADULT BIRDS OBSERVED NESTING IN 1982. SITE CHECKED IN 1992; NO BIRDS OBSERVED.

**Owner/Manager:** PVT

---

<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
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<tr>
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**Occurrence Details:**

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<tbody>
<tr>
<td>Presumed Extant</td>
<td>Unknown</td>
<td>1989-08-10</td>
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**Location:** 0.5 MILE WEST OF HWY 99, NEAR GRANT LINE ROAD EXIT, APPROXIMATELY 2 MILES SSW OF ELK GROVE.

**Ecological:** NESTING SUBSTRATE CONSISTS OF CATTAILS AND BULRUSH.


**Owner/Manager:** UNKNOWN

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<th>Occurrence No.</th>
<th>Map Index</th>
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</thead>
<tbody>
<tr>
<td>Presumed Extant</td>
<td>Unknown</td>
<td>1989-08-10</td>
</tr>
</tbody>
</table>

**Location:** 2 MI SSW OF ELK GROVE BLVD AND HWY 99 JCT, APPROX 3 MI E OF FRANKLIN.

**Ecological:** NESTING IN CATTAILS AND BULRUSH.

**General:** OBS BTWN 1969 AND 1974.

**Owner/Manager:** UNKNOWN
### Agelaius tricolor

**tricolored blackbird**

<table>
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<th>Other Lists</th>
<th>CDFG Status</th>
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<td>Global: G2G3</td>
<td>State: S2</td>
<td>SC</td>
</tr>
</tbody>
</table>

**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 Records

<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
<th>Dates Last Seen</th>
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<th>Location</th>
<th>Opportunity</th>
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<tbody>
<tr>
<td>174</td>
<td>17173</td>
<td>9704</td>
<td>1992-06-16</td>
<td>PVT</td>
<td>1.5 miles south of this site</td>
<td>9704</td>
</tr>
<tr>
<td>204</td>
<td>21602</td>
<td>18952</td>
<td>1992-06-18</td>
<td>PVT</td>
<td>just south of calvine road</td>
<td>18952</td>
</tr>
<tr>
<td>249</td>
<td>23982</td>
<td>24728</td>
<td>1991-05-22</td>
<td>PVT</td>
<td>strawberry creek, just south of calvine road</td>
<td>24728</td>
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<table>
<thead>
<tr>
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<th>UTM:</th>
<th>Area:</th>
<th>Mapping Precision</th>
<th>Section</th>
<th>Qtr</th>
<th>Meridian</th>
<th>Threat</th>
<th>General</th>
</tr>
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<tbody>
<tr>
<td>38.39249° / -121.42216°</td>
<td>Zone-10 N4250542 E637792</td>
<td>10.5 acres</td>
<td>SPECIFIC</td>
<td>10</td>
<td>NW</td>
<td>M</td>
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<td></td>
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<tr>
<td>38.43635° / -121.43634°</td>
<td>Zone-10 N4255389 E636471</td>
<td>40.0 acres</td>
<td>SPECIFIC</td>
<td>28</td>
<td>N</td>
<td>M</td>
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<td></td>
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<tr>
<td>38.45019° / -121.37831°</td>
<td>Zone-10 N4257012 E641509</td>
<td>3.7 acres</td>
<td>SPECIFIC</td>
<td>24</td>
<td>NE</td>
<td>M</td>
<td></td>
<td></td>
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</tbody>
</table>

**Threats:**
- Possible threat from grazing.
- Threatened by proposed development.
- Nests observed with about 20 redwinged blackbirds; additional nests observed that appeared abandoned.

**ECOLOGICAL:**
- NESTING area (blackberries) forms a boundary to a cultivated field (field crops, sometimes fallow).
- Nesting substrate was blackberries along the creek.
- Nesting substrate consists of himilaya berry brambles on the south bank of strawberry creek.

**OWNER/MANAGER:**
- Federal: None
- State: None
- Global: G2G3
- State: S2
- CDFG Status: SC

**INFORMATION EXPIRES:** 09/03/2007
**Ardea alba**

great egret

<table>
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<th>Other Lists</th>
<th>CDFG Status</th>
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<td>Global: G5</td>
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**Habitat Associations**

**General:** COLONIAL NESTER IN LARGE TREES.

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

---

<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
<th>Dates Last Seen</th>
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<tbody>
<tr>
<td>1</td>
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<td>25947</td>
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</table>

**Occurrence**

- **Element:** 1988-05-02

**Origin:** Natural/Native occurrence

**Trend:** Unknown

**Record Last Updated:** 1995-11-02

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

- **Lat/Long:** 38.38685º / -121.49190º
- **UTM:** Zone-10 N4249814 E631712
- **Radius:** 1/5 mile
- **Elevation:** 5 ft
- **Symbol Type:** POINT
- **Meridian:** M

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

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

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

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

**Owner/Manager:** SAC COUNTY, PVT

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<table>
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<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
<th>Dates Last Seen</th>
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<tbody>
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<td>33</td>
<td>66449</td>
<td>66553</td>
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</tbody>
</table>

**Occurrence**

- **Element:** 2005-03-25

**Origin:** Natural/Native occurrence

**Trend:** Unknown

**Record Last Updated:** 2006-09-28

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

- **Lat/Long:** 38.44405º / -121.48516º
- **UTM:** Zone-10 N4256172 E632196
- **Radius:** 1/10 mile
- **Elevation:** 10 ft
- **Symbol Type:** POINT
- **Meridian:** M

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

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

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

**General:** 44 ACTIVE GBEG NESTS PRESENT DURING 2005.

**Owner/Manager:** SAC COUNTY REG SANITATION DIST
## Ardea herodias

**great blue heron**

### Status

- **Federal:** None
- **State:** None

### NDDB Element Ranks

- **Global:** G5
- **State:** S4

### Habitat Associations

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

### Occurrence No. 1

#### Map Index: 11286

#### EO Index: 13052

#### Dates Last Seen

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<tr>
<td>Dates Last Seen</td>
<td>1988-05-02</td>
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</table>

### Habitat

- **Location:** NORTH STONE LAKE, NEAR JCT SE ARM & MAIN LAKE BODY, APPROXIMATELY 6 MI S OF SACRAMENTO.
- **Location Detail:** 16 NESTS WITH ADULTS IN THEM ON 1 FEB 88; 54 NESTS WITH ADULTS COUNTED ON 2 MAY 88.
- **Ecological:** HABITAT CONSISTS OF A LARGE COTTONWOOD GROVE SURROUNDED BY FRESHWATER MARSH.
- **Threat:** MAIN THREAT IS GRAZING, WHICH DOES NOT ALLOW FOR REGENERATION OF COTTONWOOD TREES.
- **General:** COUNTY OF SACRAMENTO LEASES THE AREA TO A PRIVATE PARTY.

### Owner/Manager

- **Sacramento County, Pvt**

### Quad Summary

- **Florin (3812144/496B)**

### County Summary

- **Sacramento**

### Occurrence No. 2

#### Map Index: 66449

#### EO Index: 66552

#### Dates Last Seen

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<tr>
<td>Dates Last Seen</td>
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### Habitat

- **Location:** ALONG LOWER MORRISON CREEK, JUST UPSTREAM OF I-5, 6.5 MILES NW OF ELK GROVE.
- **Ecological:** HABITAT CONSISTS OF MATURE MIXED RIPARIAN; DOMINATED BY POPULUS FREMONTII, QUERCUS LOBATA, AND SALIX GOODDINGII. ROOKERY SITE INCLUDES NESTING GREAT BLUE HERONS, GREAT EGRETS, AND DOUBLE-CRESTED CORMORANTS.
- **Threat:** THREATENED BY LOSS OF NEST TREES TO AGE OF FOREST AND BEAVER PREDAZION.
- **General:** 46 ACTIVE GBHE NESTS PRESENT DURING 2005.

### Owner/Manager

- **Sacramento County Reg Sanitation Dist**
**Athene cunicularia**

**burrowing owl**

<table>
<thead>
<tr>
<th>Habitat Associations</th>
</tr>
</thead>
<tbody>
<tr>
<td>General: OPEN, DRY ANNUAL OR PERENIAL GRASSLANDS, DESERTS &amp; SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.</td>
</tr>
<tr>
<td>Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.</td>
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**Occurrence No. 128**

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<tr>
<td>Fair</td>
<td>Natural/Native occurrence</td>
<td>Presumed Extant</td>
<td>Unknown</td>
<td>EAST SIDE OF SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT, BETWEEN HWY 99 AND I-5, 5 MI NORTH OF FRANKLIN.</td>
</tr>
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<table>
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<tr>
<th>Location Detail:</th>
<th>Ecological:</th>
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**Owner/Manager:** SAC COUNTY

**Occurrence No. 210**

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<td>COSUMNES RIVER COLLEGE PLAYING FIELD, SACRAMENTO</td>
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<th>Ecological:</th>
<th>General:</th>
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<tbody>
<tr>
<td>BURROWS ARE LOCATED ON THE BERMS SURROUNDING THE TRACK AND FOOTBALL FIELD.</td>
<td>HABITAT SURROUNDING THE BURROWS CONSISTS OF INTRODUCED, ANNUAL GRASSLAND.</td>
<td>12 OCCUPIED BURROWS OBSERVED IN 1994. WITH A TOTAL OF AT LEAST 18 ADULTS (6-12 PAIRS ESTIMATED). 2 ADULTS OBSERVED PERCHED ~0.2 MILE EAST OF THIS SITE ON 25 MAR 2002.</td>
</tr>
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**Owner/Manager:** COSUMNES RIVER COLLEGE

**Occurrence No. 229**

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<tr>
<td>Fair</td>
<td>Natural/Native occurrence</td>
<td>Presumed Extant</td>
<td>Unknown</td>
<td>ALONG ELDER CREEK, JUST NW OF THE INTERSECTION OF FRANKLIN BOULEVARD AND MACK ROAD, SOUTH SACRAMENTO</td>
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<table>
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<th>Location Detail:</th>
<th>Ecological:</th>
<th>General:</th>
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**Owner/Manager:** SAC COUNTY
**Athene cunicularia**

**burrowing owl**

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**Habitat Associations**

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

### Delta Shores

Occurrence No. 420  
Map Index: 46504  
EO Index: 46504  
Dates Last Seen: 2005-10-03  
Element: 2005-10-03  
Site: 2005-10-03  
Record Last Updated: 2005-10-17

**Quad Summary:** Florin (3812144/496B)  
**County Summary:** Sacramento  
**Lat/Long:** 38.48026º / -121.45358º  
**Area:** 8.1 acres  
**Mapping Precision:** SPECIFIC  
**Symbol Type:** POLYGON  
**Elevation:** 15 ft  
**Township:** 07N  
**Range:** 05E  
**Section:** 08  
**Qtr:** NE  
**Location:** ALONG ELDER CREEK, JUST SOUTH OF THE INTERSECTION OF BROOKFIELD DRIVE AND FRANKLIN BOULEVARD, SACRAMENTO  
**Ecological:** HABITAT CONSISTS OF A SMALL, CHANNELIZED LEVEE FOR ELDER CREEK; LEVEE NEARLY DEVOID OF VEGETATION.  
**Threat:** THREATENED BY IMMINENT DEVELOPMENT OF FORAGING HABITAT AND LEVEE MAINTENANCE ACTIVITIES.  
**General:** 1 ADULT OBSERVED AT THE BURROW SITE ON 20 SEP 2001. 8 OWLS OBSERVED AT THE BURROW ON 3 OCT 2005.  
**Owner/Manager:** SAC COUNTY, PVT

Occurrence No. 551  
Map Index: 49290  
EO Index: 49290  
Dates Last Seen: 2002-06-10  
Element: 2002-06-10  
Site: 2002-06-10  
Record Last Updated: 2002-11-06

**Quad Summary:** Florin (3812144/496B)  
**County Summary:** Sacramento  
**Lat/Long:** 38.45728º / -121.40609º  
**Radius:** 80 meters  
**Mapping Precision:** SPECIFIC  
**Symbol Type:** POINT  
**Elevation:** 20 ft  
**Township:** 07N  
**Range:** 05E  
**Section:** 14  
**Qtr:** XX  
**Meridian:** M  
**Location:** NORTH OF COSUMNES RIVER COLLEGE BOULEVARD, EAST OF POWER INN ROAD AND EAST OF HIGHWAY 99, SOUTH SACRAMENTO  
**Location Detail:** A WELL-KNOWN COLONY OF BUOW EXISTS ABOUT A MILE FROM THIS SITE, AT COSUMNES RIVER COLLEGE.  
**Ecological:** HABITAT CONSISTS OF A VACANT LOT (~10 ACRES IN SIZE), DOMINATED BY EXOTIC ANNUAL PLANT SPECIES; SURROUNDED BY AN AREA OF RAPIDLY DEVELOPING COMMERCIAL AND APARTMENTS.  
**Threat:** THREATENED BY DEVELOPMENT.  
**General:** 4 ADULTS OBSERVED AT THIS ACTIVE BURROW SITE ON 10 JUN 2002.  
**Owner/Manager:** UNKNOWN
General: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.
Micro: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

### Athene cunicularia
- **Status**: Fair
- **Origin**: Natural/Native occurrence
- **Trend**: Unknown

**Dates Last Seen**
- **Occurrence No.**: 558
- **Map Index**: 50990
- **EO Index**: 50990
- **Date Last Seen**: 2002-09-03

**Location**
- **Lat/Long**: 38.43778º / -121.45147º
- **Township**: 07N
- **Range**: 05E
- **Section**: 29
- **Qtr**: SE
- **Elevation**: 15 ft
- **Symbol Type**: POLYGON
- **Meridian**: M
- **Area**: 10.7 acres
- **Mapping Precision**: SPECIFIC
- **Owner/Manager**: SAC COUNTY-BUFFERLANDS

**Habitat**
- **Surrounding Burrows**: Consists of annual grassland.

**Situation**
- **Burrow Site**: Located near the top of the drainage canal, on the north slope, ~30' from the I-5 fence.

**Observations**
- **2 Adults and 1 Juvenile Observed at the West Burrow and 1 Adult Observed at the East Burrow on 3 Sep 2002.**

---

### Athene cunicularia
- **Status**: Good
- **Origin**: Natural/Native occurrence
- **Trend**: Unknown

**Dates Last Seen**
- **Occurrence No.**: 665
- **Map Index**: 54632
- **EO Index**: 54632
- **Date Last Seen**: 2002-06-06

**Location**
- **Lat/Long**: 38.47044º / -121.49883º
- **Township**: 07N
- **Range**: 04E
- **Section**: 12
- **Qtr**: SW
- **Elevation**: 12 ft
- **Symbol Type**: POINT
- **Meridian**: M
- **Area**: 80 meters
- **Mapping Precision**: SPECIFIC

**Habitat**
- **Surrounding Burrows**: Consists of agriculture/urban.

**Observations**
- **1 Adult Observed at the Burrow on 10 Feb 2004.**

---

### Athene cunicularia
- **Status**: Good
- **Origin**: Natural/Native occurrence
- **Trend**: Unknown

**Dates Last Seen**
- **Occurrence No.**: 666
- **Map Index**: 54636
- **EO Index**: 54636
- **Date Last Seen**: 2004-02-10

**Location**
- **Lat/Long**: 38.46709º / -121.49460º
- **Township**: 07N
- **Range**: 04E
- **Section**: 13
- **Qtr**: SW
- **Elevation**: 11 ft
- **Symbol Type**: POINT
- **Meridian**: M
- **Area**: 80 meters
- **Mapping Precision**: SPECIFIC

**Habitat**
- **Surrounding Burrows**: Consists of agriculture/urban.

**Observations**
- **1 Adult Observed at the Burrow on 10 Feb 2004.**
**Athene cunicularia**

*burrowing owl*

<table>
<thead>
<tr>
<th>Status</th>
<th>NDDB Element Ranks</th>
<th>Other Lists</th>
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<td>State: S2</td>
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</table>

**Habitat Associations**

**General:** OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.

**Micro:** SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.

### Occurrence 1

**Occurrence No.** 696  
**Map Index:** 55870  
**EO Index:** 55886  
**Dates Last Seen:**
- Element: 2004-06-15
- Site: 2004-06-15

**Location:** JUST SE OF THE INTERSECTION OF FLORIN ROAD AND UNION PACIFIC (WESTERN PACIFIC) RR, WEST OF HWY 99, SACRAMENTO

**Ecological:** SURROUNDING HABITAT CONSISTS OF A DIRT BERM; AREA APPEARS TO BE MOWED AT SOME TIME OF THE YEAR, CREATING THE SHORT, DRY ANNUAL GRASS THE BIRDS PREFER.

**Threat:** POTENTIAL THREAT OF DISTURBANCE BY BURBANK HIGH SCHOOL STUDENTS.

**Owner/Manager:** SACRAMENTO CITY SCHOOL DIST

### Occurrence 2

**Occurrence No.** 756  
**Map Index:** 62816  
**EO Index:** 62870  
**Dates Last Seen:**
- Element: 2005-09-28
- Site: 2005-09-28

**Location:** 0.3 MILE WEST OF THE INTERSECTION OF FRANKLIN BOULEVARD AND MACK ROAD, SOUTH SACRAMENTO

**Ecological:** HABITAT CONSISTS OF A FALLOW FIELD DEVOID OF VEGETATION DUE TO DISKING, BORDERED BY CHANNELIZED STREAM LEVEES.

**Threat:** THREATENED BY IMPENDING DEVELOPMENT AND LEVEE MAINTENANCE ACTIVITIES.

**Owner/Manager:** PVT
### Branchinecta lynchi

**Status**
- Federal: Threatened
- State: None

**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.

#### NCDD Element Ranks
- Global: G3
- State: S2S3

#### CDFG Status:
- Threatened: None

### Occurrence No. 138

#### Map Index: 34912
#### EO Index: 29267

**Dates Last Seen**
- Element: 1997-01-14
- Site: 1997-01-14

**Location**
- 2.1 km NNW of Franklin; West of western Pacific RR, East of I-5 and south of Elk Grove Blvd.

**Location Detail**

**Ecological**
- Natural and constructed hardpan vernal pools in non-native annual grassland. Wetland compensation/mitigation preserve.

**General**

**Owner/Manager:** PVT-GRUPE DEVELOPMENT CO

### Occurrence No. 161

#### Map Index: 33873
#### EO Index: 30426

**Dates Last Seen**
- Element: 2000-XX-XX
- Site: 2000-XX-XX

**Location**
- South of Union House Creek (= Beacon Creek on map) and north of Elk Grove Blvd. South of Sacramento

**Location Detail**
- South of Sims Road, pools located somewhere in sections 29 & 32. North of Dwight Road, pools located between Franklin Rd. & RR tracks.

**Ecological**

**General**
- 1993: B. Lynchi found in 1 of 4 features obs in section 32 & in the 1 feature obs in section 29. L. Packardi also found. SigNet record #5 56 & 57. Also found E of Sacramento Regional Wastewater Treatment Plant; on west side of RR tracks.

**Owner/Manager:** SRWTP BUFFERLANDS
### Branchinecta lynchi

**vernal pool fairy shrimp**

<table>
<thead>
<tr>
<th>Status</th>
<th>NDDB Element Ranks</th>
<th>Other Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal: Threatened</td>
<td>Global: G3</td>
<td>CDFG Status:</td>
</tr>
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</table>

**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. 166

<table>
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<tr>
<td>33692</td>
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**Occurrence Details**

- **Location:** SOUTH OF FRUITRIDGE RD, NORTH OF FLORIN RD, EAST OF POWER INN RD, & WEST OF FLORIN PERKINS RD.
- **Ecological:** MOST OF SECTION 26 IS URBANIZED.
- **Owner/Manager:** UNKNOWN

#### Quad Summary:

- **County Summary:** Sacramento
- **Date Updated:** 1998-08-10

#### Occurrence No. 187

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<th>Map Index:</th>
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**Occurrence Details**

- **Location:** SOUTH OF FRUITRIDGE RD, NORTH OF FLORIN RD, EAST OF POWER INN RD, & WEST OF FLORIN PERKINS RD.
- **Ecological:** MOST OF SECTION 26 IS URBANIZED.
- **Owner/Manager:** UNKNOWN

#### Quad Summary:

- **County Summary:** Sacramento
- **Date Updated:** 1997-09-24

#### Occurrence No. 312

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**Occurrence Details**

- **Location:** SOUTH OF FRUITRIDGE RD, NORTH OF FLORIN RD, EAST OF POWER INN RD, & WEST OF FLORIN PERKINS RD.
- **Ecological:** MOST OF SECTION 26 IS URBANIZED.
- **Owner/Manager:** UNKNOWN

#### Quad Summary:

- **County Summary:** Sacramento
- **Date Updated:** 2001-10-11

### Branchinecta lynchi

#### Branchinecta lynchi Details

- **Habitat:** DISKED FIELDS INTERSPERSED WITH VERNAL POOLS AND SEASONAL WETLANDS. PLANT SPECIES INCLUDE: WILD OATS, RIPGUT BROME, SOFT BROME AND VETCH. CARTER'S BUTTERCUP, WINGED WATER-STARWORT, SLENDER POPCORN FLOWER OBS IN POOLS.
- **Ecological:** HABITAT CONSISTS OF DISKED FIELDS INTERSPERSED WITH VERNAL POOLS AND SEASONAL WETLANDS. PLANT SPECIES INCLUDE: WILD OATS, RIPGUT BROME, SOFT BROME AND VETCH. CARTER'S BUTTERCUP, WINGED WATER-STARWORT, SLENDER POPCORN FLOWER OBS IN POOLS.
- **Threat:** THREATENED BY DEVELOPMENT (SHELDON ESTATES PROJECT).
- **Owner/Manager:** PVT
## Branchinecta mesovallensis

**midvalley fairy shrimp**

**Habitat Associations**
- General: VERNAL POOLS IN THE CENTRAL VALLEY.
- Micro:

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**Occurrence No. 18**
- **Map Index:** 46082
- **EO Index:** 46082
- **Dates Last Seen:**
  - **Element:** 2006-01-25
  - **Site:** 2006-01-25

**Location:** BETWEEN LAGUNA CREEK AND SHELDON ROAD, 0.6 MILES EAST OF HIGHWAY 99, 1.8 MILES NE OF ELK GROVE.

**Ecological:** HABITAT CONSISTS OF DISKED FIELDS INTERSPERSED WITH VERNAL POOLS AND SEASONAL WETLANDS. PLANT SPECIES INCLUDE: WILD OATS, RIPGUT BROME, SOFT BROME AND VETCH. CARTER'S BUTTERCUP, WINGED WATER-STARWORT, SLENDER POPCORN FLOWER OBS IN POOLS.

**Owner/Manager:** PVT

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**Occurrence No. 26**
- **Map Index:** 48247
- **EO Index:** 48247
- **Dates Last Seen:**
  - **Element:** 1991-03-13
  - **Site:** 1991-03-13

**Location:** POOL BESIDE I-5. 1.25 MILES WNW OF FRANKLIN.

**Ecological:** VERNAL POOL.

**Owner/Manager:** UNKNOWN

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<th>EO Index</th>
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**Occurrence No. 27**
- **Map Index:** 48248
- **EO Index:** 48248
- **Dates Last Seen:**
  - **Element:** 1991-03-13
  - **Site:** 1991-03-13

**Location:** SOUTH OF ELLIOT RANCH ROAD & EAST OF I-5, 4 MILES SOUTH OF SACRAMENTO.

**Ecological:** VERNAL POOL.

**Owner/Manager:** UNKNOWN
<table>
<thead>
<tr>
<th>Branchinecta mesovallensis</th>
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</thead>
<tbody>
<tr>
<td>midvalley fairy shrimp</td>
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</table>

**Habitat Associations**

**General:** VERNAL POOLS IN THE CENTRAL VALLEY.

### Occurrence 03150 (midvalley fairy shrimp)

- **Element Code:** ICBRA03150
- **Status:** None
- **State:** None
- **Global:** G2
- **Other Lists:** S2

**CDFG Status:**

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**Date Last Seen:**

- **Record Last Updated:** 2002-07-24

**Owner/Manager:** UNKNOWN

**Dates Last Seen:**

- **Date of Collection Unknown. Location Information Obtained from Various Sources.**

**Location:**

- 4.5 MILES WEST OF ELK GROVE; 200FT NORTH OF ELK GROVE BLVD, 0.2 MILE EAST OF FRANKLIN BLVD.

**General:**

- UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITE #004. DATE OF COLLECTION UNKNOWN. LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES.

**Lat/Long:** 38.40935º / -121.44631º

**Township:** 07N

**Range:** 05E

**Section:** 32

**Qtr:** SE

**UTM:** Zone-10 N4252378 E635651

**Map Index:** 48347

**EO Index:** 48347

**Dates Last Seen:**

- **Record Last Updated:** 2002-07-24

**Location:**

- 4.5 MILES WEST OF ELK GROVE; 200FT NORTH OF ELK GROVE BLVD, 0.2 MILE EAST OF FRANKLIN BLVD.

**General:**

- UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITE #004. DATE OF COLLECTION UNKNOWN. LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES.

**Lat/Long:** 38.40933º / -121.45822º

**Township:** 07N

**Range:** 05E

**Section:** 32

**Qtr:** SW

**UTM:** Zone-10 N4252358 E634611

**Map Index:** 48348

**EO Index:** 48348

**Dates Last Seen:**

- **Record Last Updated:** 2002-07-24

**Location:**

- 5.2 MILES WEST OF ELK GROVE; 200 FT NORTH OF ELK GROVE BLVD, 0.45 MILE WEST OF FRANKLIN BLVD.

**General:**

- UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITE #015. DATE OF COLLECTION UNKNOWN. LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES.

**Lat/Long:** 38.42421º / -121.44625º

**Township:** 07N

**Range:** 05E

**Section:** 29

**Qtr:** SE

**UTM:** Zone-10 N4254026 E635629

**Map Index:** 48349

**EO Index:** 48349

**Dates Last Seen:**

- **Record Last Updated:** 2002-07-24

**Location:**

- 4.5 MILES WEST OF ELK GROVE; 1.1 MILES NORTH OF ELK GROVE BLVD ALONG FRANKLIN BLVD AND 400 FT TO THE EAST.

**General:**

- UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITE #005. DATE OF COLLECTION UNKNOWN. LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES.

**Lat/Long:** 38.40931º / -121.44621º

**Township:** 07N

**Range:** 05E

**Section:** 29

**Qtr:** SE

**UTM:** Zone-10 N4254206 E635629

**Map Index:** 48350

**EO Index:** 48350

**Dates Last Seen:**

- **Record Last Updated:** 2002-07-24

**Location:**

- 4.5 MILES WEST OF ELK GROVE; 1.1 MILES NORTH OF ELK GROVE BLVD ALONG FRANKLIN BLVD AND 400 FT TO THE EAST.

**General:**

- UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITE #005. DATE OF COLLECTION UNKNOWN. LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES.

**Lat/Long:** 38.42421º / -121.44625º

**Township:** 07N

**Range:** 05E

**Section:** 29

**Qtr:** SE

**UTM:** Zone-10 N4254026 E635629

**Map Index:** 48349

**EO Index:** 48349

**Dates Last Seen:**

- **Record Last Updated:** 2002-07-24

**Location:**

- 4.5 MILES WEST OF ELK GROVE; 1.1 MILES NORTH OF ELK GROVE BLVD ALONG FRANKLIN BLVD AND 400 FT TO THE EAST.

**General:**

- UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITE #005. DATE OF COLLECTION UNKNOWN. LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES.

**Lat/Long:** 38.42421º / -121.44621º

**Township:** 07N

**Range:** 05E

**Section:** 29

**Qtr:** SE

**UTM:** Zone-10 N4254026 E635629

**Map Index:** 48349

**EO Index:** 48349

**Dates Last Seen:**

- **Record Last Updated:** 2002-07-24

**Location:**

- 4.5 MILES WEST OF ELK GROVE; 1.1 MILES NORTH OF ELK GROVE BLVD ALONG FRANKLIN BLVD AND 400 FT TO THE EAST.

**General:**

- UNKNOWN NUMBER OF INDIVIDUALS OBSERVED/COLLECTED AT SITE #005. DATE OF COLLECTION UNKNOWN. LOCATION INFORMATION OBTAINED FROM VARIOUS SOURCES.
<table>
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<th>EO Index</th>
<th>Dates Last Seen</th>
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<th>Origin</th>
<th>Presence</th>
<th>Trend</th>
<th>Gen:</th>
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<tr>
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<td>51350</td>
<td>1997-XX-XX</td>
<td>ND</td>
<td>Native</td>
<td>Presumed Extant</td>
<td>Unknown</td>
<td>VERNAL POOLS IN THE CENTRAL VALLEY.</td>
<td>midvalley fairy shrimp</td>
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<tr>
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<td>60907</td>
<td>60943</td>
<td>2004-03-12</td>
<td>ND</td>
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<td>Presumed Extant</td>
<td>Unknown</td>
<td>SPECIES OBSERVED IN AN UNKNOWN NUMBER OF POOLS OUT OF 21 SAMPLED POOLS DURING FEB 1995 AND 70 SAMPLED POOLS DURING FEB, MAR 1996. SPECIES OBSERVED IN 3 OF 52 POOLS DURING SURVEYS ON 10, 14 JAN AND 6 MAR 1997.</td>
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**Habitat Associations**

**General:**

**Branchinecta mesovallensis**

**Element Code:** ICBRA03150

**NDDB Element Ranks**

<table>
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**CDFG Status:**

**Other Lists:**

**Location:** NORTH AND SOUTH OF UNNAMED CREEK, BETWEEN I-5 AND FRANKLIN BLVD, 1.3 MILES NW OF FRANKLIN.

**ECOLOGICAL:** HABITAT CONSISTS OF NATURAL & CONSTRUCTED HARDPAN VERNAL POOLS, SEASONAL MARSHES & WETLANDS WITHIN NON-NATIVE ANNUAL GRASSLAND.

**General:**

**Owner/Manager:** POTENTIAL DEVELOPMENT CO

**Location:** NORTHWEST CORNER OF BRUCEVILLE RD X JACINTO RD.

**ECOLOGICAL:** SITE IS COMPOSED OF NON-NATIVE ANNUAL GRASSLAND AND APPEARS TO BE DISKED AT LEAST ANNUALLY FOR WEED CONTROL AND FIRE PREVENTION.

**General:** 6 SEASONAL WETLAND FEATURES SAMPLED BETWEEN 2 JAN & 12 MAR 2004. 1 MALE FAIRY SHRIMP OBSERVED IN VP-01 ON 12 MAR 2004.

**Owner/Manager:** PVT

**Record Last Updated:** 2003-05-21

**Record Last Updated:** 2005-04-11

**Map Index:** Florin (3812144/496B)

**County Summary:** Sacramento

**Quad Summary:** Florin (3812144/496B)
<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
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<td>11221</td>
<td>7546</td>
<td>1991-XX-XX</td>
<td>Natural/Native occurrence</td>
<td>BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, &amp; AGRICULTURAL OR RANCH</td>
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<tr>
<td>179</td>
<td>11308</td>
<td>27120</td>
<td>1984-05-12</td>
<td>Natural/Native occurrence</td>
<td>REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.</td>
</tr>
<tr>
<td>186</td>
<td>11157</td>
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<td>Natural/Native occurrence</td>
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</table>

**Habitat Associations**

- **Micro:** Buteo swainsoni
- **Global:** Threatened
- **State:** Endangered

**Record Last Updated:** 1993-07-06

**Location:** SACRAMENTO RIVER, 2 MILES NNE OF FREEPORT BEND, NEAR BABEL SLOUGH, SACRAMENTO.

**Ecological:** NEST TREE IS A COTTONWOOD, LOCATED DIRECTLY OVER THE RIVERBANK. FORAGING HABITAT IS AGRICULTURE (TOMATOES, WHEAT & ROW CROPS).

**General:** DFG SWHA #YO002. HAWKS OBSERVED SOARING IN 1981-82. NEST DISCOVERED IN 1984, WITH ONE YNG FLEDGED; ONE FLEDGED IN 1985; NESTING WITH UNKNOWN SUCCESS IN 1986-87; 2 YNG FLEDGED IN 1988; IN 1990, NESTING UNSUCCESSFUL; IN 1991, ONE YNG FLEDGED.

**Owner/Manager:** PVT
**Buteo swainsoni**

**Swainson's hawk**

**Status**

- **Federal:** None
- **State:** Threatened

**Habitat Associations**

- General: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH REQUIREMENTS ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

**Occurrence No. 187**

<table>
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<tr>
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**Quad Summary:** Florin (3812144/496B), Clarksburg (3812145/497A)

**County Summary:** Sacramento, Yolo

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<td>M</td>
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</table>

**Location:** NETHERLANDS RD AND SOUTH RIVER RD INTERSECTION.

**General:** DFG SWHA #SA010. NO ADULTS OR NEST FOUND IN 1982.

**Owner/Manager:** PVT

**Occurrence No. 188**

<table>
<thead>
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**Quad Summary:** Florin (3812144/496B), Clarksburg (3812145/497A)

**County Summary:** Sacramento

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**Location:** EXACTLY 3 MI N OF SCRIBNER RD ON HWY 160, E SIDE SACRAMENTO RIVER.

**Ecological:** GOOD HABITAT W/LARGE COTTONWOODS IN SWAMPY AREA ON N SIDE OF LEVEE.

**General:** DFG SWHA #SA023. 2 ADULTS OBS, 1 DARK, 1 MEDIUM PHASE. CARRYING PREY.

**Owner/Manager:** PVT

**Occurrence No. 189**

<table>
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**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

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**Location:** SE CORNER OF INTERSECTION ON FRANKLIN BLVD AND SHELDON RD.

**General:** DFG SWHA #SA005. 1 ADULT OBS IN 1979, NO NEST FOUND. NO ACTIVITY IN 1980 OR 1982.

**Owner/Manager:** PVT
**Buteo swainsoni**  
**Swainson's hawk**

### Status
- **Federal:** None
- **State:** Threatened

### 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.

<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
<th>Dates Last Seen</th>
<th>Element</th>
<th>Site</th>
</tr>
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### Occurrence No. 192 Details
- **Map Index:** 11143
- **EO Index:** 27108
- **Dates Last Seen:** 1983-05-31
- **Element:** 1983-05-31
- **Site:** 1983-05-31

#### Quad Summary: Clarksburg (3812145/497A)
- **Location:** EAST SIDE OF THE SACRAMENTO RIVER, OPPOSITE GARCIA BEND.
- **General:** DFG SWHA #SA033. 1 ADULT ON NEST. AREA NOT SURVEYED BUT SOURCE DOCUMENT SAYS SECTION 32. MAY BE SA019 MOVING NEST SITE NORTH.
- **Owner/Manager:** PVT

#### County Summary: Yolo, Sacramento
- **Latitude/Longitude:** 38.49657º / -121.55634º
- **Township:** 08N
- **Range:** 04E
- **Section:** 32
- **Qtr:** SE
- **Origin:** Natural/Native occurrence
- **Presence:** Presumed Extant
- **Trend:** Unknown
- **Elevation:** 5 ft
- **Mapping Precision:** NON-SPECIFIC
- **Symbol Type:** POINT
- **Record Last Updated:** 1989-08-10

#### Occurrence No. 212 Details
- **Map Index:** 11233
- **EO Index:** 27089
- **Dates Last Seen:** 1984-06-26
- **Element:** 1984-06-26
- **Site:** 1984-06-26

#### Quad Summary: Clarksburg (3812145/497A)
- **Location:** 0.8 MILE SOUTH OF THE JUNCTION OF SCRIBNER AND SOUTH RIVER ROADS, ON THE WEST SIDE OF THE SACRAMENTO RIVER.
- **General:** DFG SWHA #YO057. 2 BIRDS SEEN PERCHED; NO NEST FOUND.
- **Owner/Manager:** PVT

#### County Summary: Sacramento, Yolo
- **Latitude/Longitude:** 38.40045º / -121.51663º
- **Township:** 08N
- **Range:** 04E
- **Section:** 02
- **Qtr:** NW
- **Origin:** Natural/Native occurrence
- **Presence:** Presumed Extant
- **Trend:** Unknown
- **Elevation:** 10 ft
- **Mapping Precision:** NON-SPECIFIC
- **Symbol Type:** POINT
- **Record Last Updated:** 1995-10-27

#### Occurrence No. 218 Details
- **Map Index:** 11192
- **EO Index:** 27084
- **Dates Last Seen:** 1988-XX-XX
- **Element:** 1988-XX-XX
- **Site:** 1988-XX-XX

#### Quad Summary: Clarksburg (3812145/497A)
- **Location:** SACRAMENTO RIVER, RM-43.2(R), 1 MILE NORTH OF CLARKSBURG.
- **Ecological:** NEST TREE IS A COTTONWOOD WITHIN COTTONWOOD-DOMINATED RIPARIAN; SURROUNDING FORAGING HABITAT CONSISTS OF CROPLAND.
- **General:** DFG SWHA #YO056. ONE YOUNG (APPROX. 7-WEEKS-OLD) OBSERVED IN NEST IN 1984. IN 1985, TWO ADULTS FLEDGED ONE YOUNG. NO NESTING OCCURRED IN 1986. IN 1987, ONLY ONE BIRD OBSERVED SOARING. TWO ADULTS FLEDGED ONE YOUNG IN 1988.
- **Owner/Manager:** PVT

#### County Summary: Sacramento, Yolo
- **Latitude/Longitude:** 38.43212º / -121.53523º
- **Township:** 07N
- **Range:** 04E
- **Section:** 27
- **Qtr:** NW
- **Origin:** Natural/Native occurrence
- **Presence:** Presumed Extant
- **Trend:** Unknown
- **Elevation:** 10 ft
- **Mapping Precision:** NON-SPECIFIC
- **Symbol Type:** POINT
- **Record Last Updated:** 1993-04-19
**Buteo swainsoni**

Swainson's hawk

**Status**

- **Federal:** None
- **State:** Threatened

**Habitat Associations**

- **General:** BREEDS IN GRASSLANDS 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.

**NDDB Element Ranks**

- **Element Code:** ABNKC16070
- **Global:** G5
- **State:** S2

**Threatened**

**G5**

**S2**

**Other Lists**

- **CDFG Status:**

**Occurrence No.** 219  |  **Map Index:** 11257  |  **EO Index:** 27083  |  **Dates Last Seen**

| Occ Rank: | Unknown |
| Origin: Natural/Native occurrence |
| Presence: Presumed Extant |
| Trend: Unknown |
| Element: 1982-05-12 |
| Site: 1984-06-26 |

**Record Last Updated:** 1989-08-10

**Location:** WEST BANK OF THE SACRAMENTO RIVER, AT ROAD 139.

**General:** DFG SWHA #YO032. 1 ADULT MEDIUM-PHASE OBSERVED IN 1982, BUT NO NEST FOUND. SITE INACTIVE IN 1984; NO BIRDS OBSERVED.

**Owner/Manager:** PVT

**Occurrence No.** 267  |  **Map Index:** 11134  |  **EO Index:** 27041  |  **Dates Last Seen**

| Occ Rank: | Unknown |
| Origin: Natural/Native occurrence |
| Presence: Presumed Extant |
| Trend: Unknown |
| Element: 1983-XX-XX |
| Site: 1983-XX-XX |

**Record Last Updated:** 1995-10-27

**Location:** ELK SLough, EAST OF THE INTERSECTION OF NORTH COURTLAND ROAD AND NETHERLAND ROAD

**Ecological:** NEST TREE IS A LARGE COTTONWOOD.

**General:** DFG SWHA #YO038. IN 1983, 2 ADULTS OBSERVED, WITH 2 EGGS IN THE NEST.

**Owner/Manager:** PVT

**Occurrence No.** 312  |  **Map Index:** 21028  |  **EO Index:** 10033  |  **Dates Last Seen**

| Occ Rank: | Fair |
| Origin: Natural/Native occurrence |
| Presence: Presumed Extant |
| Trend: Unknown |
| Element: 1990-07-02 |
| Site: 1990-07-02 |

**Record Last Updated:** 1992-04-22

**Location Detail:** BIRDS WERE FIRST OBSERVED USING SNAGS ADJACENT TO BIGHORN ROAD, LATER NESTING IN VALLEY OAKS BEHIND SNAGS. AFTER YOUNG FLEDGED, THE BIRDS RANGED NORTH OVER FIELDS NEAR THE MARSH ON ELK GROVE CREEK.

**Ecological:** HABITAT SURROUNDING NEST TREE AND NEARBY SNAGS IS OPEN GRASSLAND.

**Owner/Manager:** PVT

**Occurrence No.** 11257  |  **Map Index:** 11257  |  **EO Index:** 27083  |  **Dates Last Seen**

| Occ Rank: | Unknown |
| Origin: Natural/Native occurrence |
| Presence: Presumed Extant |
| Trend: Unknown |
| Element: 1990-07-02 |
| Site: 1990-07-02 |

**Record Last Updated:** 1992-04-22

**Location:** ALONG BIGHORN ROAD, 0.3 MI NORTH OF ELK GROVE BLVD AND 0.5 MI WEST OF HWY 99, 1.5 MI WEST OF ELK GROVE.

**Location Detail:** BIRDS WERE FIRST OBSERVED USING SNAGS ADJACENT TO BIGHORN ROAD. LATER NESTING IN VALLEY OAKS BEHIND SNAGS. AFTER YOUNG FLEDGED, THE BIRDS RANGED NORTH OVER FIELDS NEAR THE MARSH ON ELK GROVE CREEK.

**Ecological:** HABITAT SURROUNDING NEST TREE AND NEARBY SNAGS IS OPEN GRASSLAND.

**Owner/Manager:** PVT
### Buteo swainsoni

**Swainson's hawk**

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**Habitat Associations**

- General: BREEDS IN GRASSLANDS WITH WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH
- Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.

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<th>Record Last Updated</th>
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**Location:** EAST BANK OF SACRAMENTO RIVER, 1 MILE SOUTH OF FREEPORT.

**Location Detail:** NEST TREE IS LOCATED ON THE EAST SIDE OF THE LEVEE IN AN ISOLATED STAND OF TREES ALONG THE ACCESS ROAD TO BEACH LAKE.

**Ecological:** NEST TREE IS A VALENT OAK (QUERCUS LOBATA); ADJACENT AGRICULTURAL FIELDS INCLUDE SAFFLOWER AND ALFALFA.

**Threat:** POSSIBLE THREAT FROM INCREASED FOOT TRAFFIC/HUMAN DISTURBANCE IF PROPOSED NATURE CENTER IS BUILT.

**Owner/Manager:** DFG SWHA #SA044. 1 ADULT/1 JUVENILE OBSERVED ON NEST ON 16 JUL 1992; 2 ADULTS PRESENT ON 20 JUL 1992.

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**Location:** SACRAMENTO RIVER, RM-47.2(R), AT FREEPORT BEND, SACRAMENTO.

**Ecological:** NEST TREE IS A LARGE COTTONWOOD LOCATED 15 FEET FROM THE RIVER; SURROUNDING FORAGING HABITAT CONSISTS OF AGRICULTURAL FIELDS (ALFALFA, SAFFLOWER, WHEAT).

**General:** DFG SWHA #YO198. NEST WITH ONE YOUNG OBSERVED IN 1986. IN 1987, ONE ADULT OBSERVED AT NEST WITH TWO YOUNG. IN 1988, TWO ADULTS FLEDGED 3 YOUNG. IN 1990, TWO ADULTS OBSERVED NESTING, BUT NO YOUNG FLEDGED.

**Owner/Manager:** PVT

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**Location:** SACRAMENTO RIVER, RM-48.55(R), 1.5 MILES EAST OF FREEPORT BEND, SACRAMENTO.

**Ecological:** NEST TREE IS A LARGE OAK TREE WITHIN A GROUP OF 3 ISOLATED TREES NEAR A FARMHOUSE, 250 FEET FROM THE RIVER; SURROUNDING FORAGING HABITAT CONSISTS OF AGRICULTURAL FIELDS (TOMATOES AND WHEAT).

**General:** DFG SWHA #YO199(PART). TWO ADULTS FLEDGED ONE YOUNG (A SECOND HATCHLING DIED WITHIN ONE WEEK OF HATCHING).

**Owner/Manager:** UNKNOWN
### Buteo swainsoni

**Swainson's hawk**

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**Habitat Associations**

- Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannas, & agricultural or ranch
- Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.

**Occurrence No. 510**

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**Quad Summary:** Clarksburg (3812145/497A)

- **Lat/Long:** 38.47305° / -121.53631°
- **UTM:** Zone-10 N4259317 E627681
- **Radius:** 1/5 mile
- **Elevation:** 10 ft
- **Symbol Type:** POINT
- **Meridian:** M

**Ecological:**

- Nest tree is a small locust, located 20 feet from the river; surrounding foraging habitat consists of agricultural fields (tomatoes and wheat).

**General:**

- DFG SWHA #YO199(PART). In 1990, two adults observed nesting; nest eventually abandoned.

**Owner/Manager:** UNKNOWN

---

**Occurrence No. 511**

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**Quad Summary:** Clarksburg (3812145/497A)

- **Lat/Long:** 38.48150° / -121.54949°
- **UTM:** Zone-10 N4260237 E626516
- **Radius:** 1/5 mile
- **Elevation:** 10 ft
- **Symbol Type:** POINT
- **Meridian:** M

**Ecological:**

- Nest tree is a tall cottonwood, within the riparian grove surrounding the mouth of Babel Sough, 50 feet from the river; surrounding foraging habitat consists of alfalfa, wheat, and other grains.

**General:**

- DFG SWHA #YO200. 2 adults fledged 1 young in 1990. In 1991, 2 adults nested, but no young were observed and nest was abandoned 6/27/91.

**Owner/Manager:** UNKNOWN

---

**Occurrence No. 512**

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**Quad Summary:** Clarksburg (3812145/497A)

- **Lat/Long:** 38.48301° / -121.55065°
- **UTM:** Zone-10 N4260403 E626412
- **Radius:** 1/5 mile
- **Elevation:** 15 ft
- **Symbol Type:** POINT
- **Meridian:** M

**Ecological:**

- Nest tree is a tall cottonwood 200 feet from the river; surrounding foraging habitat consists of alfalfa and wheat.

**General:**

- DFG SWHA #YO201. 2 adults observed nesting. There may be some disturbance from activities of "Stan's Yolo Marina," located just upstream.

**Owner/Manager:** UNKNOWN
### Buteo swainsoni

**Swainson's hawk**

<table>
<thead>
<tr>
<th>Habitat Associations</th>
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<tbody>
<tr>
<td>General: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, &amp; AGRICULTURAL OR RANCH</td>
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#### Quad Summary: Clarksburg (3812145/497A)

- **County Summary:** Yolo, Sacramento
- **Lat/Long:** 38.46488° / -121.50493°
- **UTM:** Zone-10 N4258455 E630433
- **Radius:** 80 meters
- **Elevation:** 15 ft
- **General:** SACRAMENTO RIVER, RM-46.70(R), JUST DOWNSTREAM FROM FREEPORT BEND AND 0.65 MILE NORTH OF FREEPORT BRIDGE. DFG SWHA #YO. 2 ADULTS AND 2 JUVENILES OBSERVED AT NEST SITE.

#### County Summary: Yolo

- **Township:** 07N
- **Range:** 04E
- **Section:** 14
- **General:** DFG SWHA #YO. 2 ADULTS AND 2 JUVENILES OBSERVED AT NEST SITE.

---

#### Occurrence No. 632

- **Map Index:** 23881
- **EO Index:** 7544
- **Dates Last Seen:**
  - **Element:** 1993-07-15
  - **Site:** 1993-07-15
  - **Record Last Updated:** 1993-08-02

#### Quad Summary: Clarksburg (3812145/497A)

- **County Summary:** Yolo
- **Lat/Long:** 38.47345° / -121.52235°
- **UTM:** Zone-10 N4259381 E628898
- **Radius:** 80 meters
- **Elevation:** 15 ft
- **General:** SACRAMENTO RIVER, RM-48.05(R), UPSTREAM FROM FREEPORT BEND AND 1.25 MILES DOWNSTREAM FROM THE BABEL SLOUGH JUNCTION. DFG SWHA #YO. 2 ADULTS OBSERVED NESTING.

#### County Summary: Yolo

- **Township:** 07N
- **Range:** 04E
- **Section:** 10
- **General:** DFG SWHA #YO. 2 ADULTS OBSERVED NESTING.

---

#### Occurrence No. 633

- **Map Index:** 23880
- **EO Index:** 7545
- **Dates Last Seen:**
  - **Element:** 1993-07-15
  - **Site:** 1993-07-15
  - **Record Last Updated:** 1993-08-02

#### Quad Summary: Clarksburg (3812145/497A)

- **County Summary:** Yolo
- **Lat/Long:** 38.48878° / -121.55473°
- **UTM:** Zone-10 N4261038 E626046
- **Radius:** 80 meters
- **Elevation:** 15 ft
- **General:** SACRAMENTO RIVER, RM-50.25(R), 0.6 MILE UPSTREAM FROM BABEL SLOUGH JUNCTION, SW OF SACRAMENTO. DFG SWHA #YO. 2 ADULTS AND 2 JUVENILES OBSERVED AT NEST SITE.

#### County Summary: Yolo

- **Township:** 07N
- **Range:** 04E
- **Section:** 04
- **General:** DFG SWHA #YO. 2 ADULTS AND 2 JUVENILES OBSERVED NESTING.

---

Commercial Version -- Dated March 03, 2007 -- Biogeographic Data Branch
Report Printed on Thursday, March 22, 2007
Information Expires 09/03/2007
**Buteo swainsoni**  
Swainson's hawk

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**Habitat Associations**
- BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

**Occurrence No.** 992  
**Map Index:** 47315  
**EO Index:** 47315  
**Dates Last Seen:**
- **Element:** 2000-06-30
- **Site:** 2000-06-30

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Yolo, Sacramento

- **Lat/Long:** 38.37664º / -121.52547º
- **UTM:** Zone-10 N4248634 E628798
- **Radius:** 80 meters  
- **Elevation:** 12 ft  
- **Mapping Precision:** SPECIFIC  
- **Symbol Type:** POINT  
- **Section:** 15  
- **Qtr:** XX  
- **Township:** 06N  
- **Range:** 04E  
- **Meridian:** M

**Location:** ALONG THE WEST BANK OF THE SACRAMENTO RIVER, 0.6 MILE NORTH OF HOOD.

**Ecological:** NEST TREE IS A VALLEY OAK; SURROUNDED BY ROW CROPS IN ALL DIRECTIONS.

**General:** 2 ADULTS OBSERVED (1 PERCHED, 1 SOARING) WITH 1 FEATHERED YOUNG ON 30 JUN 2000.

**Owner/Manager:** PVT

---

**Occurrence No.** 1001  
**Map Index:** 50639  
**EO Index:** 50639  
**Dates Last Seen:**
- **Element:** 2002-04-29
- **Site:** 2002-04-29

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

- **Lat/Long:** 38.44295º / -121.40474º
- **UTM:** Zone-10 N4256157 E639217
- **Radius:** 80 meters  
- **Elevation:** 30 ft  
- **Mapping Precision:** SPECIFIC  
- **Symbol Type:** POINT  
- **Section:** 23  
- **Qtr:** SW  
- **Township:** 07N  
- **Range:** 05E  
- **Meridian:** M

**Location:** WEST SIDE OF HIGHWAY 99, 0.4 MILE NNW OF SHELDON ROAD, 2 MILES NW OF ELK GROVE

**Ecological:** NEST TREE IS A VALLEY OAK; NEST IS LOCATED ON THE SOUTH-FACING PORTION OF THE NEST TREE.


**Owner/Manager:** PVT
**Buteo swainsoni**

**Swainson’s hawk**

**Habitat Associations**

**General:** BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH AREAS, REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

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**Occurrence No. 1010**  
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EO Index: 50670  
Dates Last Seen: 2002-05-01

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**Ecological:** NEST TREE IS AN ISOLATED EUCALYPTUS LOCATED ADJACENT TO HAY FIELDS. WASTEWATER TREATMENT PLANT AND CO-GENERATION POWER PLANT FOUND ADJACENT TO HAY FIELD.

**General:** BUFFERLANDS STAFF (ROGER JONES) REPORTS THAT SWHA NESTED HERE IN PREVIOUS YEARS. 2 ADULTS OBSERVED NESTING ON 1 MAY 2002.

**Owner/Manager:** SAC COUNTY

---

**Occurrence No. 1104**  
Map Index: 50993  
EO Index: 50993  
Dates Last Seen: 2005-08-18

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**Ecological:** NEST TREE IS AN ISOLATED EUCALYPTUS LOCATED ADJACENT TO HAY FIELDS. WASTEWATER TREATMENT PLANT AND CO-GENERATION POWER PLANT FOUND ADJACENT TO HAY FIELD.

**General:** BUFFERLANDS STAFF (ROGER JONES) REPORTS THAT SWHA NESTED HERE IN PREVIOUS YEARS. 2 ADULTS OBSERVED NESTING ON 1 MAY 2002.

**Owner/Manager:** SAC COUNTY

---

**Occurrence No. 1105**  
Map Index: 50994  
EO Index: 50994  
Dates Last Seen: 1999-07-04

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</table>

**Ecological:** NEST TREE IS AN ISOLATED EUCALYPTUS LOCATED ADJACENT TO HAY FIELDS. WASTEWATER TREATMENT PLANT AND CO-GENERATION POWER PLANT FOUND ADJACENT TO HAY FIELD.

**General:** BUFFERLANDS STAFF (ROGER JONES) REPORTS THAT SWHA NESTED HERE IN PREVIOUS YEARS. 2 ADULTS OBSERVED NESTING ON 1 MAY 2002.

**Owner/Manager:** SAC COUNTY
<table>
<thead>
<tr>
<th>Buteo swainsoni</th>
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<tbody>
<tr>
<td><strong>Swainson's hawk</strong></td>
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<td><strong>Element Code:</strong> ABNKC19070</td>
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<td><strong>Habitat Associations</strong></td>
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<td>General: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, &amp; AGRICULTURAL OR RANCH</td>
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<td>Micro: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.</td>
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**Location:** SOUTH SIDE OF ELK GROVE BOULEVARD, JUST WEST OF WYMARK DRIVE, 2 MILES WEST OF ELK GROVE.

**Location Detail:** 2000 NEST TREE WAS A 30' WILLOW; 2002 NEST TREE WAS A VALLEY OAK.

**Ecological:** NEST TREE WAS A ROADSIDE VALLEY OAK; SURROUNDED BY RESIDENTIAL TO THE NE AND NW, AND GRAZING LAND TO THE SE AND SW.

**Threat:** THREATENED BY PROPOSED DEVELOPMENT.

**General:** ACTIVE SWHA NEST IN 2000. 2 ADULTS OBSERVED NESTING ON 4 JUN 2002.

**Owner/Manager:** PVT

---

**Location:** WEST SIDE OF JEFFERSON BOULEVARD (HIGHWAY 84), 0.4 MILE SOUTH OF BABEL SLOUGH, 3 MILES NW OF CLARKSBURG

**Location Detail:** 2004 NEST WAS LOCATED AT THE 85% HEIGHT, ON THE NE SIDE, OF A RAGGED COTTONWOOD FOUND 125 METERS FROM THE ROAD. 2005 NEST WAS LOCATED AT THE 75% HEIGHT OF THE SMALL OAK (NORTHMOST TREE OF 3RD CLUMP WEST OF ROAD).

**Ecological:** NEST TREE IS AN OAK; SURROUNDED BY ALFALFA TO THE NORTH AND WEST.

**General:** NEST SITE MONITORED 28 MAR-3 AUG 2004; 3 YOUNG FLEDGED. NEST MONITORED 20 APR-9 AUG 2005; 1 FLEDGED.

**Owner/Manager:** PVT

---

**Location:** EAST SIDE OF JEFFERSON BOULEVARD (HIGHWAY 84), 0.9 MILE SOUTH OF BABEL SLOUGH, 2.5 MILES NW OF CLARKSBURG

**Location Detail:** 2004 NEST WAS VERY DIFFICULT TO SEE, LOCATED IN A COTTONWOOD WITHIN A SHORT, EAST-WEST ROW OF SMALL COTTONWOODS AT A FIELD BOUNDARY, 0.3 MILE NORTH OF WILLOW POINT WEST ROAD.

**Ecological:** NEST TREE IS A COTTONWOOD; SURROUNDED BY ALFALFA TO THE NE AND WEST AND CULTIVATED TO THE SE.

**General:** NEST MONITORED 28 MAR-11 AUG 2004; 3 YOUNG FLEDGED. NEST MONITORED 29 MAR-18 AUG 2005; POSSIBLE FLEDGLING OBSERVED ON 28 JUL 2005.

**Owner/Manager:** PVT
**Buteo swainsoni**

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**General:** BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH REQUIREMENTS. ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

**Occurrence No. 1336**

- Map Index: 56577
- EO Index: 56593
- Dates Last Seen: 2005-07-13

**Habitat Associations**

- **Federal:** None
- **Global:** Threatened
- **State:** S2
- **Micro:** Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.

**Occurrence Details:**

- **Location:** WEST SIDE OF JEFFERSON BOULEVARD (HIGHWAY 84), LESS THAN 0.1 MILE SOUTH OF BABEL'SLOUGH, 3.25 MILES NW OF CLARKSBURG
- **Location Detail:** 2004 NEST WAS LOCATED AT THE 80% HEIGHT, ON THE NE SIDE, OF A LARGE VALLEY OAK AT THE SOUTH MARGIN OF AN OPEN FIELD (TREE APPEARS TO PROTRUDE NORTH INTO THE FIELD); NEST WAS SEEN ONLY WITH ONE-TIME PERMISSION TO ENTER THE PROPERTY ON FOOT.
- **Ecological:** NEST TREE IS A VALLEY OAK.
- **General:** NEST MONITORED 4 MAY-3 AUG 2004; 1 YOUNG FLEDGED. NEST SITE MONITORED 6 MAR-13 JUL 2005; NO NEST FOUND, BUT ADULTS PRESENT APR-JUL 2005.

**Owner/Manager:** PVT

**Occurrence No. 1337**

- Map Index: 56578
- EO Index: 56594
- Dates Last Seen: 2005-08-18

**Occurrence Details:**

- **Location:** EAST SIDE OF JEFFERSON BOULEVARD (HIGHWAY 84), 0.3 MILE SOUTH OF WILLOW POINT ROAD, 2.6 MILES WEST OF CLARKSBURG
- **Location Detail:** 2004 NEST WAS LOCATED AT THE 80% HEIGHT, ON THE NE SIDE, OF A LARGE VALLEY OAK AT THE SOUTH MARGIN OF AN OPEN FIELD (TREE APPEARS TO PROTRUDE NORTH INTO THE FIELD); NEST WAS SEEN ONLY WITH ONE-TIME PERMISSION TO ENTER THE PROPERTY ON FOOT.
- **Ecological:** NEST TREE IS A BLACK WALNUT; SURROUNDED BY CULTIVATED LAND TO THE EAST, VINEYARD TO THE WEST, AND HARVEY LYMAN AG SERVICE TO THE SW.
- **General:** NEST MONITORED 15 MAY-3 AUG 2004; 1 YOUNG FLEDGED. NEST SITE MONITORED 6 MAR-13 JUL 2005; NO NEST FOUND, BUT ADULTS OBSERVED DEFENDING THE 2004 NEST, BUT NO YOUNG FLEDGED.

**Owner/Manager:** UNKNOWN

**Occurrence No. 1338**

- Map Index: 56579
- EO Index: 56595
- Dates Last Seen: 2005-07-28

**Occurrence Details:**

- **Location:** NORTH SIDE OF CLARKSBURG ROAD, 0.3 MILE WEST OF JEFFERSON BOULEVARD, 3 MILES WEST OF CLARKSBURG
- **Location Detail:** 2004-2005 NEST WAS LOCATED AT THE 80% HEIGHT OF THE TALLEST WILLOW ON THE NORTH SIDE OF A DITCH ALONG THE NORTH SIDE OF THE ROAD.
- **Ecological:** NEST TREE IS A WILLOW; SURROUNDED BY ALFALFA TO THE NE, RUDERAL TO THE NW, AND SUDAN GRASS TO THE SOUTH.
- **General:** NEST SITE MONITORED 6 JUN-27 JUL 2004; 3 YOUNG FLEDGED. NEST MONITORED 12 FEB-28 JUL 2005; 1 YOUNG FLEDGED.

**Owner/Manager:** PVT
Buteo swainsoni

**Swainson's hawk**

**Status**
- Federal: None
- State: Threatened

**Habitat Associations**
- General: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH REQUIREMENTS ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

**Occurrence No. 1339**
- Map Index: 56581
- EO Index: 56597
- Dates Last Seen: 2005-08-18

**Occ Rank:** Excellent
**Origin:** Natural/Native occurrence
**Presence:** Presumed Extant
**Trend:** Unknown

**Location:** NORTH SIDE OF WILLOW POINT ROAD, 0.5 MILE EAST OF JEFFERSON BOULEVARD, 2.25 MILES WNW OF CLARKSBURG

**Location Detail:** 2004 NEST WAS LOCATED ON THE SOUTH SIDE OF THE ROAD AT THE 90% HEIGHT OF A SYCAMORE IN A BARE DIRT AREA USED FOR STORAGE OF BALES AND EQUIPMENT. 2005 NEST LOCATED AT THE 95% HEIGHT OF A TALL ROADSIDE PINE, ON THE NORTH SHOULDER.

**Ecological:** NEST TREE IS A SYCAMORE; SURROUNDED BY ALFALFA TO THE NORTH AND SW AND TOMATOES TO THE SE.

**General:** NEST MONITORED 10 JUL-3 AUG 2004; 2 CHICKS OBSERVED, BUT ONLY 1 YOUNG FLEDGED. NEST MONITORED 6 MAR-18 AUG 2005; ACTIVE, WITH NEST-BUILDING ON 5 JUN 2005, BUT NO CHICKS DETECTED.

**Owner/Manager:** PVT

**Quad Summary:** Clarksburg (3812145/497A)

**County Summary:** Yolo

**Lat/Long:** 38.42895º / -121.57309º
**Township:** 07N
**Range:** 04E
**Section:** 29
**Meridian:** M
**Mapping Precision:** SPECIFIC
**Area:** 9.9 acres
**Elevation:** 5 ft

**EO Index:** 56597

**Record Last Updated:** 2005-09-14

**Occurrence No. 1340**
- Map Index: 56585
- EO Index: 56601
- Dates Last Seen: 2005-07-28

**Occ Rank:** Good
**Origin:** Natural/Native occurrence
**Presence:** Presumed Extant
**Trend:** Unknown

**Location:** SOUTH SIDE OF WILLOW POINT ROAD, 0.4 MILE WEST OF WILLOW AVENUE, 0.7 MILE NW OF CLARKSBURG

**Location Detail:** 2004 NEST WAS LOCATED AT THE 90% HEIGHT OF A MULTI-TRUNKED BLUE GUM EUCALYPTUS, AT THE SW CORNER OF THE FARMSTEAD AT 52105 WILLOW POINT ROAD.

**Ecological:** NEST TREE IS A BLUE GUM EUCALYPTUS; SURROUNDED BY CULTIVATED LAND.

**General:** NEST SITE MONITORED 27 JUL-3 AUG 2004; 1 YOUNG FLEDGED. NEST SITE MONITORED 20 APR-28 JUL 2005; UNOCCUPIED IN 2005.

**Owner/Manager:** PVT

**Quad Summary:** Clarksburg (3812145/497A)

**County Summary:** Yolo

**Lat/Long:** 38.42554º / -121.54396º
**Township:** 07N
**Range:** 04E
**Section:** 28
**Meridian:** M
**Mapping Precision:** SPECIFIC
**Radius:** 80 meters
**Elevation:** 5 ft

**EO Index:** 56601

**Record Last Updated:** 2005-09-14

**Occurrence No. 1421**
- Map Index: 61126
- EO Index: 61162
- Dates Last Seen: 2005-05-18

**Occ Rank:** Good
**Origin:** Natural/Native occurrence
**Presence:** Presumed Extant
**Trend:** Unknown

**Location:** WEST SIDE OF BUFFERLANDS ROAD, 0.2 MILE NORTH OF SIMS ROAD, SACRAMENTO WASTE WATER TREATMENT PLANT BUFFERLANDS.

**Ecological:** NEST TREE IS A LARGE EUCALYPTUS; SURROUNDED BY DISTURBED ANNUAL GRASSLAND.

**General:** 2 DARK-MORPH ADULTS SUCCESSFULLY FLEDGED 2 YOUNG IN 2004.

**Owner/Manager:** SAC COUNTY

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

**Lat/Long:** 38.44021º / -121.46391º
**Township:** 07N
**Range:** 05E
**Radius:** 80 meters
**Elevation:** 15 ft

**EO Index:** 61162

**Record Last Updated:** 2005-05-04
**Buteo swainsoni**

**Swainson's hawk**

**Status**
- Federal: None
- State: Threatened

**Habitat Associations**
- General: BREEDS IN GRASSLANDS 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. 1451
- **Map Index:** 62340
- **EO Index:** 62377
- **Dates Last Seen:**
  - **Element:** 2005-08-09
  - **Site:** 2005-08-09
  - **Record Last Updated:** 2005-08-18

**Quad Summary:** Clarksburg (3812145/497A)

**County Summary:** Yolo

**Lat/Long:** 38.41476º / -121.59765º
**UTM:** Zone-10 N4252766 E622427
**Radius:** 80 meters
**Elevation:** 5 ft
**Mapping Precision:** SPECIFIC
**Symbol Type:** POINT
**Meridian:** M

**Location:** NORTH SHOULDER OF CLARKSBURG ROAD, 0.8 MILE WEST OF JEFFERSON BOULEVARD, 3.5 MILES WEST OF CLARKSBURG

**Location Detail:** NEST WAS LOCATED AT THE 90% HEIGHT OF THE FIRST NORTH-SHOULDER TREE EAST OF THE DIRT ROAD LEADING TO THE FIELDS.

**Ecological:** NEST TREE IS AN OAK WITHIN A LINE OF TREES ALONG THE NORTH SHOULDER; SURROUNDED BY ALFALFA TO THE NORTH AND SOUTH.

**General:** NEST MONITORED 10 APR-9 AUG 2005; 2 FLEDGED.

**Owner/Manager:** UNKNOWN

### Occurrence No. 1461
- **Map Index:** 62361
- **EO Index:** 62398
- **Dates Last Seen:**
  - **Element:** 2005-07-28
  - **Site:** 2005-07-28
  - **Record Last Updated:** 2005-08-23

**Quad Summary:** Clarksburg (3812145/497A)

**County Summary:** Yolo

**Lat/Long:** 38.39306º / -121.60610º
**UTM:** Zone-10 N4250348 E621727
**Radius:** 80 meters
**Elevation:** 5 ft
**Mapping Precision:** SPECIFIC
**Symbol Type:** POINT
**Meridian:** M

**Location:** SOUTH SHOULDER OF CENTRAL AVENUE, 0.3 MILE EAST OF Z LINE ROAD, 4.5 MILES WSW OF CLARKSBURG

**Location Detail:** NEST WAS LOCATED AT THE 80% HEIGHT, SOUTH OF CENTER, OF THE EASTMOST SHOULDER TREE.

**Ecological:** NEST TREE IS A BLACK WALNUT.

**General:** NEST MONITORED 10 APR-28 JUL 2005; ADULTS OBSERVED NEST-BUILDING ON 10 APR, WHITEWASH AND PELLETS BENEATH TREE ON 12 JUN, AND ADULTS PRESENT, BUT NO CHICK EVER DETECTED.

**Owner/Manager:** UNKNOWN

### Occurrence No. 1462
- **Map Index:** 62366
- **EO Index:** 62403
- **Dates Last Seen:**
  - **Element:** 2005-07-13
  - **Site:** 2005-07-13
  - **Record Last Updated:** 2005-08-23

**Quad Summary:** Clarksburg (3812145/497A)

**County Summary:** Yolo

**Lat/Long:** 38.42814º / -121.55777º
**UTM:** Zone-10 N4254304 E625886
**Radius:** 80 meters
**Elevation:** 3 ft
**Mapping Precision:** SPECIFIC
**Symbol Type:** POINT
**Meridian:** M

**Location:** SOUTH SIDE OF WILLOW POINT ROAD, 1.3 MILES EAST OF JEFFERSON BOULEVARD, 1.6 MILES WNW OF CLARKSBURG

**Location Detail:** NEST LOCATED AT THE 90% HEIGHT, JUST SOUTH OF THE TREES AROUND THE FARMSTEAD HOUSE.

**Ecological:** NEST TREE IS A BLACK WALNUT, SURROUNDED BY ALFALFA TO THE SOUTH AND CULTIVATED LAND TO THE NORTH.

**General:** NESTING STRONGLY SUSPECTED IN 2004, BUT NEVER CONFIRMED. NEST MONITORED 20 APR-13 JUL 2005; 2 FLEDGED.

**Owner/Manager:** UNKNOWN
**Buteo swainsoni**

**Swainson's hawk**

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<td>Threatened</td>
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**Habitat Associations**

**General:** BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

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<th>Dates Last Seen</th>
<th>Element:</th>
<th>Site:</th>
<th>Record Last Updated:</th>
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</table>

**Location:** WEST SIDE OF TULE ROAD, 0.5 MILE SOUTH OF CLARKSBURG ROAD, 1.7 MILES SW OF CLARKSBURG

**Location Detail:** NEST LOCATED AT THE 75% HEIGHT OF THE TALLEST COTTONWOOD IN A NORTH-SOUTH ROW SOUTH OF THE ROAD.

**Ecological:** NEST TREE IS A COTTONWOOD; SURROUNDED BY ALFALFA TO THE NORTH AND SOUTH AND VINEYARDS TO THE EAST.

**General:** NEST MONITORED 7 MAY-13 JUL 2005; 1 DOWNY CHICK OBSERVED ON 12 JUN 2005, BUT IT WAS APPARENTLY PREDA TED (CARCAS FOUND JUST SOUTH OF NEST TREE).

**Owner/Manager:** PVT

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</table>

**Location:** NORTH SIDE OF CENTRAL AVENUE, JUST EAST OF MAIN SLOUGH, 2.6 MILES SW OF CLARKSBURG

**Location Detail:** NEST LOCATED OVER THE NORTH ROAD SHOULDER, IN THE FIRST BLACK WALNUT EAST OF THE SLOUGH.

**Ecological:** NEST TREE IS A BLACK WALNUT; SURROUNDED BY ALFALFA TO THE SOUTH AND CULTIVATED LAND TO THE NORTH.

**General:** NEST MONITORED 29 MAY-28 JUL 2005; 1 FLEDGED.

**Owner/Manager:** PVT

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**Location:** ALONG THE EAST SIDE OF BABEL SLOUGH, 0.4 MILE SW OF THE RAILROAD TRACK CROSSING, SW OF SACRAMENTO

**Ecological:** NEST TREE UNKNOWN, BUT SYCAMORE SUSPECTED, IN A THICKET OF SMALLER TREES BETWEEN THE ROAD AND THE SLOUGH; SURROUNDED BY CULTIVATED LAND BEYOND BABEL SLOUGH.

**General:** NEST SITE MONITORED 13 JUL-18 AUG 2005; ALTHOUGH NEST WAS NOT FOUND, A RECENTLY-FLEDGED JUVENILE WAS FOUND IN THIS AREA.

**Owner/Manager:** PVT
### Buteo swainsoni

**Swainson’s hawk**

**Status**
- Federal: None
- Global: Threatened
- State: S2

**Habitat Associations**
- General: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

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**Occurrence Details:**
- **Lat/Long:** 38.47979° / -121.55121°
- **UTM:** Zone-10 N4260045 E626369
- **Radius:** 80 meters
- **Elevation:** 13 ft
- **Symbol Type:** POINT
- **Meridian:** M

**Habitat Location:**
- **Location:** ALONG THE SOUTH SIDE OF BABEL SLOUGH, ~0.1 MILE WEST OF SOUTH RIVER ROAD, SW OF SACRAMENTO
- **Ecological:** NEST TREE UNKNOWN, BUT THE LARGEST SYCAMORE WAS THE CENTER OF ACTIVITY; SURROUNDED BY ALFALFA TO THE SOUTH AND CULTIVATED LAND NORTH OF BABEL SLOUGH/ROAD STRIP.
- **General:** NEST SITE MONITORED 13 JUL-18 AUG 2005; ALTHOUGH NEST WAS NOT FOUND, A RECENTLY-FLEDGED JUVENILE WAS FOUND IN THIS AREA.

**Owner/Manager:** PVT

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**Occurrence Details:**
- **Lat/Long:** 38.46876° / -121.56345°
- **UTM:** Zone-10 N4258804 E625321
- **Radius:** 80 meters
- **Elevation:** 10 ft
- **Symbol Type:** POINT
- **Meridian:** M

**Habitat Location:**
- **Location:** ALONG THE EAST SIDE OF BABEL SLOUGH, 0.8 MILE SW OF THE RAILROAD TRACK, SW OF SACRAMENTO
- **Ecological:** NEST TREE IS UNKNOWN; SITE IS SURROUNDED BY VINEYARD TO THE NORTH AND CULTIVATED LAND SOUTH OF BABEL SLOUGH/ROAD STRIP.
- **General:** NEST SITE MONITORED 14 JUL-18 AUG 2005; NO NEST FOUND, BUT 2 YOUNG FLEDGED.

**Owner/Manager:** PVT

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<td><strong>Element:</strong> 2005-08-09</td>
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<tr>
<td><strong>Site:</strong> 2005-08-09</td>
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<tr>
<td><strong>Record Last Updated:</strong></td>
</tr>
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</table>

**Occurrence Details:**
- **Lat/Long:** 38.46376° / -121.56928°
- **UTM:** Zone-10 N4258242 E624820
- **Radius:** 80 meters
- **Elevation:** 10 ft
- **Symbol Type:** POINT
- **Meridian:** M

**Habitat Location:**
- **Location:** WEST SIDE OF BABEL SLOUGH, 1.1 MILES NE OF PUMPHOUSE ROAD, SW OF SACRAMENTO
- **Ecological:** SHWA NEST WAS LIKELY PRESENT IN 2004, BUT NO NEST OR CHICK WERE FOUND. NEST SITE MONITORED 10 APR-9 AUG 2005; NO NEST FOUND, BUT 1 YOUNG FLEDGED.
- **General:** UNKNOWN

**Owner/Manager:** UNKNOWN
**Buteo swainsoni**

**Swainson's hawk**

<table>
<thead>
<tr>
<th>Status</th>
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<th>Element Code: ABNKC19070</th>
<th>Other Lists</th>
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<tr>
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<tr>
<td>State: Threatened</td>
<td>State: S2</td>
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</table>

**Habitat Associations**

**General:** BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATs, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

**Occurrence No. 1545**  
Map Index: 62991  
EO Index: 63064  
--- Dates Last Seen ---  
Element: 2004-04-28  
Site: 2004-04-28  
Record Last Updated: 2005-10-31

**Occurrence No. 1642**  
Map Index: 64998  
EO Index: 65077  
--- Dates Last Seen ---  
Element: 2006-06-15  
Site: 2006-06-15  
Record Last Updated: 2006-07-05

**Occurrence No. 1643**  
Map Index: 64999  
EO Index: 65078  
--- Dates Last Seen ---  
Element: 2006-06-23  
Site: 2006-06-23  
Record Last Updated: 2006-07-05

**Location:** YOLO BYPASS, 1.75 MILES SE OF THE INTERSECTION OF ROAD 34A & ROAD 106A, 5 MILES SE OF DAVIS  
**Ecological:** NEST TREE WAS A COTTONWOOD; SURROUNDED BY ROW CROPS IN ALL DIRECTIONS.  
**General:** ACTIVE NEST AND ADULTS MATING ON THE GROUND OBSERVED ON 28 APR 2004  
**Owner/Manager:** UNKNOWN  

**Location:** EAST SIDE OF BABEL SLOUGH, 0.3 MILE SW OF SOUTH RIVER ROAD, SW OF THE GREENHAVEN AREA OF SACRAMENTO.  
**Ecological:** NEST TREE WAS A VALLEY OAK ADJACENT TO BABEL SLOUGH, LOCATED WITHIN RIPARIAN VEGETATION DOMINATED BY VALLEY OAK, ELDERBERRY, AND BLACKBERRY. ALFALFA FIELDS ARE FOUND ADJACENT TO THE NEST TREE.  
**General:** 2 ADULTS OBSERVED NESTING ON 15 JUN 2006.  
**Owner/Manager:** UNKNOWN  

**Location:** 0.7 MILE SW OF FREEPORT BEND ON THE SACRAMENTO RIVER, 0.75 MILE WEST OF FREEPORT.  
**Ecological:** NEST TREE WAS A LARGE WILLOW ADJACENT TO AN AGRICULTURAL DITCH, LOCATED WITHIN RIPARIAN VEGETATION DOMINATED BY WILLOW, BLACKBERRY, AND REEDS. ALFALFA FIELDS AND VINEYARDS ARE FOUND ADJACENT TO THE NEST TREE.  
**General:** 2 ADULTS OBSERVED NEST-BUILDING ON 23 JUN 2006.  
**Owner/Manager:** UNKNOWN  

---
**Coccyzus americanus occidentalis**

**western yellow-billed cuckoo**

<table>
<thead>
<tr>
<th>General:</th>
<th>Habitats Associations</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIPARIAN FOREST NESTER, ALONG THE BROAD, LOWER FLOOD-BOTTOMS OF LARGER RIVER SYSTEMS.</td>
<td>NESTS IN RIPARIAN JUNGLES OF WILLOW, OFTEN MIXED WITH COTTONWOODS, W/ LOWER STORY OF BLACKBERRY, NETTLES, OR WILD GRAPE.</td>
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**Element Code:** ABNR02022

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<td>Candidate</td>
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**Habitat Associations**

<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index:</th>
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<th>Dates Last Seen</th>
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<tr>
<td>95</td>
<td>11194</td>
<td>25585</td>
<td>1896-06-05</td>
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**Occurrence Details**

- **Origin:** Natural/Native occurrence
- **Presence:** Extirpated
- **Trend:** Unknown

**Dates Last Seen**

- **Element:** 1896-06-05
- **Site:** 1896-06-05
- **Record Last Updated:** 1989-08-10

**Location:** CLARKSBURG.

**General:** MVZ SPECIMEN FROM THIS LOCALITY INDICATES THAT CUCKOOS ONCE OCCURRED IN THE SACRAMENTO-SAN JOAQUIN DELTA.

**Owner/Manager:** PVT
**Downingia pusilla**

**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.:** 56  
**Map Index:** 26055  
**EO Index:** 5239  
**Dates Last Seen:**  
- **Element:** 1990-04-16  
- **Site:** 1990-04-16  
**Record Last Updated:** 1995-11-14

**Location:** WEST OF I-5 AT THE ELK GROVE BLVD INTERCHANGE, ELK GROVE.

**Location Detail:** LOCATED AT TWO SITES IN THIS VICINITY; ONE IS ALONG EITHER SIDE OF CULVERT UNDER ELLIOT RANCH ROAD AND THE SECOND IS ABOUT 0.1 MILE WEST OF THE CULVERT.

**Ecological:** VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND. ASSOCIATED WITH ALLOCARYA UNDULATA, A. STIPITATA MICRANTHA, PSILOCARPHUS BREVISSIMUS, ALOPECURUS SACCATUS, ERYNGIUM ARISTULATUM, AND LOLIUM MULTIFLORUM. SOILS ARE SAN JOAQUIN

**Threat:** PAST ROAD CONSTRUCTION ACTIVITIES HAVE ALTERED SITE. INTERCHANGE IS TO AVOID THE SITE BUT MAY INFLUENCE HYDROLOGY.

**General:** HUNDREDS TO THOUSANDS OF PLANTS OBSERVED IN 1990. SITE INCLUDED WITHIN PROPOSED STONE LAKE WILDLIFE REFUGE AND IS PRESENTLY MANAGED BY SACRAMENTO COUNTY DEPARTMENT OF PARKS AND RECREATION.

**Owner/Manager:** SAC COUNTY-PARKS & REC
### Emys (=Clemmys) marmorata marmorata

**northwestern pond turtle**

**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.

---

<table>
<thead>
<tr>
<th>Occurrence No.</th>
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<th>EO Index</th>
<th>Dates Last Seen</th>
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<td>48</td>
<td>32826</td>
<td>977</td>
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- **Occurrence No.** 48
- **Map Index:** 32826
- **EO Index:** 977
- **Dates Last Seen:**
  - **Element:** 2003-09-23
  - **Site:** 2003-09-23

**Quad Summary:** Florin (3812144/496B)

- **Location:** STONE LAKE PRESERVE, APPROXIMATELY 1 TO 2.5 MILES NORTHEAST OF HOOD.
- **Ecological:** HABITAT CONSISTS OF A SEMI-NATURAL LAKE BORDERED BY SOME BULRUSHES, GRAZED GRASSLAND, AND RIPARIAN VEGETATION.
- **Threat:** THREATENED BY POTENTIAL POLLUTANTS FROM UPSTREAM CATTLE OPERATION AND THE PRESENCE OF BULLFROGS.

**Owner/Manager:** USFWS

---

<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
<th>Dates Last Seen</th>
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<td>11275</td>
<td>623</td>
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- **Occurrence No.** 49
- **Map Index:** 11275
- **EO Index:** 623
- **Dates Last Seen:**
  - **Element:** XXXX-XX-XX
  - **Site:** XXXX-XX-XX

**Quad Summary:** Florin (3812144/496B)

- **Location:** BEACH LAKE PRESERVE, APPROX. 1.5 MILES SOUTH OF FREEPORT.
- **General:** COLLECTED BY DFG, DATE AND NUMBER OF SPECIMENS UNKNOWN.

**Owner/Manager:** SAC COUNTY, PVT

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<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
<th>Dates Last Seen</th>
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<td>50</td>
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- **Occurrence No.** 50
- **Map Index:** 32827
- **EO Index:** 4662
- **Dates Last Seen:**
  - **Element:** XXXX-XX-XX
  - **Site:** XXXX-XX-XX

**Quad Summary:** Florin (3812144/496B)

- **Location:** NORTH OF FRANKLIN; DITCH EAST OF FRANKLIN BLVD X WESTERN PACIFIC RR.
- **General:** COLLECTED BY DFG, DATE AND NUMBER OF SPECIMENS UNKNOWN.

**Owner/Manager:** UNKNOWN
### Emys (=Clemmys) marmorata marmorata

**northwestern pond turtle**

**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.

---

<table>
<thead>
<tr>
<th>Occurrence No.</th>
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<tbody>
<tr>
<td>233</td>
<td>60252</td>
<td>60288</td>
<td>2004-XX-XX</td>
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</table>

**Occ Rank:**
Fair

**Origin:**
Natural/Native occurrence

**Presence:**
Presumed Extant

**Trend:**
Unknown

**Location:**
Florin (3812144/496B)

**County Summary:**
Sacramento

**Lat/Long:**
38.44693° / -121.45081°

**UTM:**
Zone-10 N4256541 E635188

**Radius:**
2/5 mile

**Elevation:**
15 ft

**Mapping Precision:**
NON-SPECIFIC

**Symbol Type:**
POINT

**Meridian:**
M

**Location:**
SACRAMENTO BUFFERLANDS, ENCOMPASSING LOST LAKE, LAGUNA CREEK, AND FISH HEAD LAKE, SOUTH OF SACRAMENTO.

**Ecological:**
HABITAT CONSISTS OF MOSTLY MAN-MADE WATER BODIES WITH VARYING HABITAT QUALITY. VEGETATED BY A COMBINATION OF AQUATIC, EMERGENT, AND RIPARIAN VEGETATION; SURROUNDED BY GRASSLANDS.

**Threat:**
THREATENED BY INTRODUCED PREDATORS/COMPETITORS (BULLFROGS, BASS, AND RED-EARED SLIDERS).

**General:**
6 MALES AND 4 FEMALES WERE CAPTURED THROUGHOUT THE 2004 SEASON; ALL WERE VERY OLD ADULTS AND INCLUDED ONE GRAVID FEMALE.

**Owner/Manager:**
SAC COUNTY REG SANITATION DIST
**Juglans hindsii**

**Northern California black walnut**

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<th>General:</th>
<th>Status</th>
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<tr>
<td>RIPARIAN FOREST, RIPARIAN WOODLAND. FEW EXTANT NATIVE STANDS REMAIN; WIDELY NATURALIZED.</td>
<td>NDDB Element Ranks</td>
<td>Other Lists</td>
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<tr>
<td>DEEP ALLUVIAL SOIL ASSOCIATED WITH A CREEK OR STREAM. 0-395M.</td>
<td>Global: G1</td>
<td>CNPS List: 18.1</td>
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<tr>
<td></td>
<td>State: S1.1</td>
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</table>

**Habitat Associations**

- **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  
- **Origin:** Natural/Native occurrence  
- **Presence:** Extirpated  
- **Trend:** Unknown 

**Dates Last Seen**

- **Element:** XXXX-KX-XX  
- **Site:** 2002-10-KX  
- **Record Last Updated:** 2002-11-21

**Quad Summary:** Rio Vista (3812126/486B), Isleton (3812125/480A), Courtland (3812135/497D), Florin (3812144/496B), Clarksburg (3812145/497A)  
**County Summary:** Solano, Sacramento, Yolo  
**Lat/Long:** 38.30672º / -121.57422º

**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 EXTINGUISHED ACCORDING TO CALLIZO (2002).
**Legenere limosa**

<table>
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<td>State: None</td>
<td>State: S2.2</td>
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### Habitat Associations

#### General:
VERNAL POOLS. MANY HISTORICAL OCCURRENCES ARE EXTIRPATED.

#### Micro:
IN BEDS OF VERNAL POOLS. 1-880M.

### Occurrence No. 31

<table>
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<td>26234</td>
<td>14087</td>
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<td>Natural/Native occurrence</td>
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### Quad Summary:
Florin (3812144/496B)

### County Summary:
Sacramento

<table>
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<th>Lat/Long</th>
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<th>Radius</th>
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<tbody>
<tr>
<td>80 meters</td>
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<td>35 ft</td>
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### Location:
NORTH OF SHELDON ROAD AND 0.7 MILE EAST OF HIGHWAY 99, ELK GROVE.

### Location Detail:
MAPPED ABOUT 1/4 MILE NORTH OF SHELDON ROAD WITHIN THE SW 1/4 OF THE SW 1/4 OF SECTION 24.

### Ecological:
DEEP NORTHERN CLAYPAN VERNAL POOLS ON GALT CLAY SOILS. POOLS DOMINATED BY ERYNGIUM CASTRENSE, DOWNINGIA BICORNUTA, AND LASTHENIA GLABERRIMA. OTHER ASSOCIATES INCLUDE ELEOCHARIS MACROSTACHYS AND PLAGIOBOTHRYS STIPITATUS

### Threat:
PROPOSED HOUSING DEVELOPMENT. POOLS SCHEDULED TO BE FILLED.

### General:
MORE THAN 2500 PLANTS OBSERVED IN 1993. POOLS IN FAIRLY GOOD SHAPE ALTHOUGH ADJACENT LAND HAD BEEN FARMED. POPULATION MAY BE SALVAGED IN CONJUNCTION WITH THE PROJECT VERNAL POOL MITIGATION PLAN.

### Owner/Manager:
PVT

### Occurrence No. 40

<table>
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### Quad Summary:
Florin (3812144/496B)

### County Summary:
Sacramento

<table>
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<th>Lat/Long</th>
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<th>Range</th>
<th>Section</th>
<th>Qtr</th>
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<tr>
<th>Radius</th>
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<tr>
<td>1/5 mile</td>
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<td>13 ft</td>
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</tbody>
</table>

### Location:
ABOUT 1.5 MI E OF STONE LAKE, 1.4 MI SW OF JCT FRANKLIN BLVD & ELK GROVE BLVD.

### Ecological:
VERNAL POOLS WITH DOWNINGIA ORNATISSIMA, NAVARRETIA LEUCOCEPHALA, CASTILLEJA EXSERTA, AND LEPIDIUM LATIPES.

### Threat:
LAND USED FOR CATTLE PRODUCTION; GRAZING THREATENS.

### General:
AT LEAST 50 PLANTS IN 1995.

### Owner/Manager:
UNKNOWN

### Occurrence No. 41

<table>
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### Quad Summary:
Florin (3812144/496B)

### County Summary:
Sacramento

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<th>Lat/Long</th>
<th>UTM</th>
<th>Township</th>
<th>Range</th>
<th>Section</th>
<th>Qtr</th>
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</thead>
<tbody>
<tr>
<td>38.43901º / -121.45128º</td>
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<table>
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<tr>
<th>Area</th>
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<td>18 ft</td>
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</table>

### Location:
ALONG N SIDE OF SIMS ROAD, 0.15-0.4 MI E OF JCT WITH FRANKLIN BLVD.

### Location Detail:
300 FT N OF SIMS ROAD.

### Ecological:
VERNAL POOL COMPLEX WITH LASTHENIA GLABERRIMA, RANUNCULUS BONARIENSIS, PLAGIOBOTHRYS STIPITATUS, DOWNINGIA ORNATISSIMA, D. BICORNUTA AND LEPIDIUM LATIPES.

### Threat:
TREE PLANTING/RESTORATION ADJACENT TO VERNAL POOLS.

### General:
300 PLANTS IN 1995. SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT LAND.

### Owner/Manager:
SAC COUNTY
**Lepidurus packardi**

**vernal pool tadpole shrimp**

<table>
<thead>
<tr>
<th>Status</th>
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<th>Other Lists</th>
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</thead>
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<tr>
<td>State:</td>
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</table>

**Habitat Associations**

**General:**
INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.

POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

**Endangered**
None

**G3**
S2S3

**Micro:**

**Natural Diversity Database**
California Department of Fish and Game
Full Condensed Report for Selected Elements - Multiple Records per Page
Delta Shores

---

**Occurrence No.** 32  
**Map Index:** 24533  
**EO Index:** 1787  
**Dates Last Seen**

**Element:** 1993-02-23  
**Site:** 1993-02-23  
**Record Last Updated:** 1996-06-20

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

**Lat/Long:** 38.44883º / -121.45925º  
**UTM:** Zone-10 N4256739 E634448  
**Area:** 2.4 acres  
**Elevation:** 15 ft  
**Mapping Precision:** SPECIFIC

**Location:**
E OF SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT; ON WEST SIDE OF WP RR TRACKS; 1.2 KM N OF RR CROSSING ON SIMS ROAD

**Ecological:**
HABITAT CONSISTS OF WATER FILLED DEPRESSIONS WITHIN RR ROW; SLIGHTLY TURBID WATER; DOMINANT PLANTS: JUNCUS BUFONIUS, PLAGIOBOTHRYS STIPITATUS VAR. MICRANTHUS, GRATIOLA EBRACTEATA, LYTHRUM HYSSOPIFOLIA.

**Threat:**
VEHICLE ENCROACHMENT DURING RAILROAD MAINTENANCE AND OTHER FACILITY ACTIVITIES.

**General:**
>100 ADULTS OBSERVED BREEDING AND FORAGING; 1 COLLECTED FOR PERSONAL COLLECTION; BRANCHINECTA LYNCHI HAS BEEN OBSERVED AT THIS SITE IN PAST. 4/2/1992-KOFORD OBSERVED TADPOLE SHRIMP AND LINDERIELLA AT SITE.

**Owner/Manager:** PVT-WESTERN PACIFIC RR

---

**Occurrence No.** 68  
**Map Index:** 34794  
**EO Index:** 12533  
**Dates Last Seen**

**Element:** 1992-04-02  
**Site:** 1992-04-02  
**Record Last Updated:** 1996-06-19

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

**Lat/Long:** 38.49582º / -121.47084º  
**UTM:** Zone-10 N4261937 E633350  
**Radius:** 80 meters  
**Elevation:** 15 ft  
**Mapping Precision:** SPECIFIC

**Location:** CORNER OF FLORIN ROAD AND UNION PACIFIC (WESTERN PACIFIC) RR, WEST OF HWY 99.

**General:**
TADPOLE SHRIMP OBSERVED BY KOFORD DURING SURVEY IN SPRING OF 1992; LINDERIELLA ALSO PRESENT.

**Owner/Manager:** PVT-UNION PACIFIC RR

---

**Occurrence No.** 69  
**Map Index:** 34795  
**EO Index:** 12473  
**Dates Last Seen**

**Element:** 1992-04-02  
**Site:** 1992-04-02  
**Record Last Updated:** 1996-06-19

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

**Lat/Long:** 38.4958º / -121.39663º  
**UTM:** Zone-10 N4262054 E639822  
**Radius:** 80 meters  
**Elevation:** 35 ft  
**Mapping Precision:** SPECIFIC

**Location:** CORNER OF FLORIN ROAD AND SOUTHERN PACIFIC TRACTION RR, IN FLORIN.

**Ecological:**
RAILROAD DITCH.

**General:**
TADPOLE SHRIMP OBSERVED BY KOFORD DURING SURVEY IN SPRING OF 1992.

**Owner/Manager:** PVT-SPRR
**Lepidurus packardi**

vernai pool tadpole shrimp

**Status**  
Federal: Endangered  
State: None  
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.

**NDDB Element Ranks**  
Global: G3  
State: S2S3

**Other Lists**  
CDFG Status: G3  
NDDB Element Ranks  
Status: Other Lists

**Occurrence No.** 70  
Map Index: 34796  
EO Index: 12535

**Dates Last Seen**  
Element: 1992-04-02  
Site: 1992-04-02

**Occ Rank:** Unknown  
**Origin:** Natural/Native occurrence  
**Presence:** Presumed Extant  
**Trend:** Unknown

**Record Last Updated:** 1996-06-20

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

**Latitude/Longitude:** 38.48145° / -121.46642°  
**Township:** 07N  
**Range:** 05E  
**Section:** 06  
**Meridian:** M  
**Elevation:** 21 ft  
**Mapping Precision:** SPECIFIC  
**Symbol Type:** POINT  
**Dates Last Seen:** 1992-04-02  
**EO Index:** 12535  
**Record Last Updated:** 1996-06-20

**Location:** ALONG UNION PACIFIC RR AND MEADOWVIEW ROAD, WEST OF HWY 99.

**Ecological:** TURBID POOL

**Owner/Manager:** PVT-UNION PACIFIC RR

---

**Occurrence No.** 76  
Map Index: 34812  
EO Index: 29269

**Dates Last Seen**  
Element: 2003-02-17  
Site: 2003-02-17

**Occ Rank:** Unknown  
**Origin:** Natural/Native occurrence  
**Presence:** Presumed Extant  
**Trend:** Unknown

**Record Last Updated:** 2004-11-18

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

**Latitude/Longitude:** 38.39538° / -121.46627°  
**Township:** 06N  
**Range:** 05E  
**Section:** 6  
**Meridian:** M  
**Elevation:** 15 ft  
**Mapping Precision:** SPECIFIC  
**Symbol Type:** POLYGON  
**Dates Last Seen:** 2003-02-17  
**EO Index:** 29269  
**Record Last Updated:** 2004-11-18

**Location:** 2.1 KM NNW OF FRANKLIN; WEST OF WESTERN PACIFIC RR, EAST OF I-5 AND SOUTH OF ELK GROVE BLVD.

**Ecological:** NATURAL AND CONSTRUCTED HARDPAN VERNAL POOLS IN NON-NATIVE ANNUAL GRASSLAND. WETLAND COMPENSATION/MITIGATION PRESERVE.

**Owner/Manager:** PVT-GRUPE DEVELOPMENT CO

---

**Occurrence No.** 87  
Map Index: 33873  
EO Index: 30427

**Dates Last Seen**  
Element: 2002-02-01  
Site: 2002-02-01

**Occ Rank:** Fair  
**Origin:** Natural/Native occurrence  
**Presence:** Presumed Extant  
**Trend:** Unknown

**Record Last Updated:** 2006-03-27

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

**Latitude/Longitude:** 38.43446° / -121.45406°  
**Township:** 07N  
**Range:** 05E  
**Section:** 29  
**Meridian:** M  
**Elevation:** 20 ft  
**Mapping Precision:** NON-SPECIFIC  
**Symbol Type:** POLYGON  
**Dates Last Seen:** 2002-02-01  
**EO Index:** 30427  
**Record Last Updated:** 2006-03-27

**Location:** SOUTH OF UNION HOUSE CREEK (= BEACON CREEK ON MAP) AND NORTH OF ELK GROVE BLVD. SOUTH OF SACRAMENTO

**Ecological:** NATURAL VERNAL POOLS & ROADSIDE DITCHES SOUTH OF SIMS ROAD LOCATED SOMEWHERE IN SECTIONS 29 & 32. NORTH OF DWIGHT ROAD. POOLS LOCATED BETWEEN FRANKLIN RD. & RR TRACKS.

**Owner/Manager:** SRWTP BUFFERLANDS
**Lepidurus packardi**
vernai pond tadpole shrimp

<table>
<thead>
<tr>
<th>Status</th>
<th>NDDB Element Ranks</th>
<th>Other Lists</th>
<th>CDFG Status:</th>
</tr>
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<tbody>
<tr>
<td>Federal: Endangered</td>
<td>Global: G3</td>
<td>State: S2S3</td>
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</table>

**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.

---

<table>
<thead>
<tr>
<th>Occurrence No.</th>
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<th>EO Index</th>
<th>Dates Last Seen</th>
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<th>Origin:</th>
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<td>92</td>
<td>33691</td>
<td>30608</td>
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<td>SOUTH OF 47TH AVE, NORTH OF FLORIN RD, EAST OF WOODBINE AVE. ON SOUTHERN END OF SACRAMENTO.</td>
</tr>
</tbody>
</table>

**Ecological:** MOST OF THESE TWO SECTIONS ARE HEAVILY URBANIZED.

**General:** LEPIDURUS PACKARDI OBSERVED IN SECTION 6 IN A MANMADE VERNAL POOL ON 3/3/93 & IN 1 OF 2 INSPECTED ROADSIDE DITCHES ON 3/12/93. ON 4/2/92 THEY WERE OBSERVED IN 2 OF 3 INSPECTED ROADSIDE DITCHES IN SECTION 8. SUGNET RECORD #S 131, 132 & 133.

---

**County Summary:** Sacramento

**Lat/Long:** 38.48123° / -121.46428°

**UTM:** Zone-10 N4260339 E633949

**Area:** Mapping Precision: NON-SPECIFIC

**Elevation:** 15 ft

**Township:** 07N

**Range:** 05E

**Section:** 8

**Qtr:** KX

**Location:** SOUTH OF FLORIN ROAD & NORTH OF BEACON CREEK. ON THE SOUTHERN EDGE OF SACRAMENTO.

**Lepidurus packardi** was observed in a roadside ditch. No B. Lynchi observed. SUGNET record #130.

---

**County Summary:** Sacramento

**Lat/Long:** 38.48878° / -121.39987°

**UTM:** Zone-10 N4261261 E639553

**Radius:** 3/5 mile

**Elevation:** 15 ft

**Township:** 07N

**Range:** 05E

**Section:** 8

**Qtr:** KX

**Location:** SOUTH OF FLORIN RD, NORTH OF GERBER RD, EAST OF POWER INN RD, & WEST OF FRENCH RD. SOUTH OF FLORIN.

**Ecological:** MOST OF THIS SECTION IS URBANIZED.

**General:** LEPIDURUS PACKARDI WAS OBSERVED IN A ROADSIDE DITCH. NO B. LYNCHI OBSERVED. SUGNET RECORD #130.

---

**County Summary:** Sacramento

**Lat/Long:** 38.50290° / -121.47384°

**UTM:** Zone-10 N4262718 E633076

**Radius:** 3/5 mile

**Elevation:** 15 ft

**Township:** 08N

**Range:** 05E

**Section:** 31

**Qtr:** KX

**Location:** SOUTH OF 47TH AVE, NORTH OF FLORIN RD, EAST OF WOODBINE AVE. ON SOUTHERN END OF SACRAMENTO.

**Ecological:** MOST OF THIS SECTION IS URBANIZED.

**General:** LEPIDURUS PACKARDI WAS OBSERVED IN A ROADSIDE DITCH ON 4/2/92. SUGNET RECORD #144.
**Lepidurus packardi**

**vernal pool tadpole shrimp**

<table>
<thead>
<tr>
<th>Habitat Associations</th>
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<tbody>
<tr>
<td>General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.</td>
</tr>
<tr>
<td>Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED &amp; HIGHLY TURBID.</td>
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<td>CDFG Status:</td>
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**Occurrence No.** 99  
**Map Index:** 33692  
**EO Index:** 30610  
**Dates Last Seen**  
**Occ Rank:** Unknown  
**Origin:** Natural/Native occurrence  
**Presence:** Presumed Extant  
**Trend:** Unknown  
**Element:** 1992-04-03  
**Site:** 1992-04-03  
**Record Last Updated:** 1998-08-10

**Quad Summary:** Florin (3812144/496B), Sacramento East (3812154/512C)

**County Summary:** Sacramento

**Location:** SOUTH OF FRUITRIDGE RD, NORTH OF FLORIN RD, EAST OF POWER INN RD, AND WEST OF FLORIN PERKINS RD.

**Ecological:** MOST OF SECTION 26 IS URBANIZED.

**General:** LEPIDURUS PACKARDI OBSERVED IN A ROADSIDE DITCH IN SECTION 26 AND A ROADSIDE DITCH IN SECTION 35. SUGNET RECORD #S 143 & 145.

**Owner/Manager:** UNKNOWN

<table>
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<th>Map Index</th>
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<th>Dates Last Seen</th>
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<td>Record Last Updated: 2000-03-15</td>
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**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

**Location:** INTERSECTION OF COSUMNES RIVER COLLEGE BOULEVARD AND HIGHWAY 99, SOUTH OF SACRAMENTO

**Ecological:** HABITAT CONSISTS OF BOTH NATURAL AND MAN-MADE VERNAL POOLS.

**General:** ONE POND SURVEYED; LEPIDURUS PACKARDI DETECTED ON 10 FEB 1993. DRY/WET SEASON SAMPLING CONDUCTED JAN-APR 1998 OF A CREATED VERNAL POOL AND A CONTROL SITE; 4 INDIVIDUALS FOUND.

**Owner/Manager:** UNKNOWN
### Linderiella occidentalis

**Status**
- Federal: None
- State: None

**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. 27
- **Map Index:** 24533
- **EO Index:** 1788
- **Dates Last Seen:**
  - Element: 1993-02-23
  - Site: 1993-02-23
- **Presence:** Presumed Extant
- **Trend:** Unknown
- **Origin:** Natural/Native occurrence
- **Area:** 2.4 acres
- **Elevation:** 15 ft
- **Location:** E OF SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT, ON BOTH SIDES OF WP RR TRACKS; 1.2 KM N OF RR CROSSING ON SIMS ROAD
- **Radial Summary:**
  - **Quadrant:** NW
  - **Gtr:** M
  - **Section:** 20
  - **UTM:** Zone-10 N4256739 E634448
  - **Map Index:** 127

#### Occurrence No. 127
- **Map Index:** 34794
- **EO Index:** 12558
- **Dates Last Seen:**
  - Element: 1992-04-02
  - Site: 1992-04-02
- **Presence:** Presumed Extant
- **Trend:** Unknown
- **Origin:** Natural/Native occurrence
- **Area:** 2.4 acres
- **Elevation:** 15 ft
- **Location:** CORNER OF FLORIN ROAD AND UNION PACIFIC (WESTERN PACIFIC) RR, WEST OF HWY 99
- **Radial Summary:**
  - **Quadrant:** SE
  - **Gtr:** M
  - **Section:** 31
  - **UTM:** Zone-10 N4261937 E633350
  - **Map Index:** 127

#### Occurrence No. 140
- **Map Index:** 34812
- **EO Index:** 29268
- **Dates Last Seen:**
  - Element: 2003-02-17
  - Site: 2003-02-17
- **Presence:** Presumed Extant
- **Trend:** Unknown
- **Origin:** Natural/Native occurrence
- **Area:** 570.1 acres
- **Elevation:** 15 ft
- **Location:** 2.1 KM NNW OF FRANKLIN; WEST OF WESTERN PACIFIC RR, EAST OF I-5 AND SOUTH OF ELK GROVE BLVD.
- **Radial Summary:**
  - **Quadrant:** XX
  - **Gtr:** M
  - **Section:** 6
  - **UTM:** Zone-10 N4250798 E633934
  - **Map Index:** 127

---

**General:** NATIONAL EXPANSION 2007: 25 WETLANDS SAMPLED. LINDERIELLA NOT DISTINGUISHED FROM MIDVALLEY FAIRY SHRIMP IN 2007 REPORT. 2008: 52 WETLANDS SAMPLED. LINDERIELLA NOT DISTINGUISHED FROM MIDVALLEY FAIRY SHRIMP IN 2008 REPORT. 2009: 52 WETLANDS SAMPLED. LINDERIELLA NOT DISTINGUISHED FROM MIDVALLEY FAIRY SHRIMP IN 2009 REPORT.
### Linderiella occidentalis

**California linderiella**

<table>
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<tr>
<th>General:</th>
<th>SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS. WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.</th>
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#### Habitat Associations

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#### Occurrence No. 178

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<tr>
<td>Trend: Unknown</td>
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</table>

#### Location:

**EAST SIDE OF HIGHWAY 99, BETWEEN WHITEHOUSE CREEK & SHELDON ROAD, SOUTH OF SACRAMENTO.**

**General:** OBSERVED DURING DRY-SEASON SAMPLING OF SEASONAL WETLANDS ON 15 OCT 1998.

**Owner/Manager:** PVT

#### County Summary:

**Sacramento**

<table>
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<th>Lat/Long: 38.43614º / -121.39915º</th>
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<td>Area: 8.2 acres</td>
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<tr>
<td>Symbol Type: POLYGON</td>
<td>Meridian: M</td>
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</table>

#### Location Detail:

**HABITAT CONSISTS OF BOTH NATURAL AND MAN-MADE VERNAL POOLS. DRY/WET SEASON SAMPLING CONDUCTED JAN-APR 1998 OF A CREATED VERNAL POOL AND A CONTROL SITE; UNKNOWN NUMBER OF INDIVIDUALS FOUND.**

**Owner/Manager:** UNKNOWN

#### Occurrence No. 179

<table>
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#### Location:

**INTERSECTION OF COSUMNES RIVER COLLEGE BOULEVARD & HIGHWAY 99, SOUTH OF SACRAMENTO.**

**Ecological:** HABITAT CONSISTS OF BOTH NATURAL AND MAN-MADE VERNAL POOLS. DRY/WET SEASON SAMPLING CONDUCTED JAN-APR 1998 OF A CREATED VERNAL POOL AND A CONTROL SITE; UNKNOWN NUMBER OF INDIVIDUALS FOUND.

**Owner/Manager:** UNKNOWN

#### Occurrence No. 238

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#### Location:

**ABOUT 1.2 MILES NORTH OF FRANKLIN, ON WEST SIDE OF WESTERN PACIFIC RAILROAD TRACKS.**

**Location Detail:** FOUND IN A SHALLOW TOPOGRAPHIC DEPRESSION IN RAILROAD RIGHT OF WAY.

**Ecological:** HERBACEOUS AND GRASSY SUBSTRATE.

**General:** 5-10 ADULTS OBSERVED VISUALLY ON 4 FEB 2002, NO AQUATIC SAMPLING.

**Owner/Manager:** UNKNOWN
**Linderiella occidentalis**

**California linderiella**

<table>
<thead>
<tr>
<th>Habitat Associations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General:</strong> SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.</td>
</tr>
<tr>
<td><strong>Micro:</strong> WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.</td>
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**Dates Last Seen:**
- Element: 2006-04-05
- Site: 2006-04-05
- Record Last Updated: 2006-08-17

**Location:**
- **Florin (3812144/496B)**
- **Sacramento**
- **Latitude:** 38.43147° / -121.39092°
- **UTM:** Zone-10 N4254915 E640445
- **Radius:** 1/5 mile
- **Elevation:** 30 ft
- **Mapping Precision:** NON-SPECIFIC
- **Township:** 07N
- **Range:** 05E
- **Section:** 26
- **Qtr:** NW
- **Meridian:** M
- **Quad Summary:** Florin (3812144/496B)
- **County Summary:** Sacramento

**Location Detail:**
- **Between Laguna Creek and Sheldon Road, 0.6 miles east of Highway 99, 2 miles NW of Elk Grove.**
- **Location Detail:** VERNAL POOL 21, LINDERIELLA WAS OBSERVED IN SIX OTHER POOLS/WETLANDS (VP6, VP11, VP14, SW2, AND SW3) ON-SITE DURING THE 2006 WET SEASON; THESE FEATURES ARE ALL LOCATED WITHIN 600' OF VP21.

**Ecological:**
- **Vernal Pool located within an annual grassland community. Surface area of pool is approx. 489 square meters; avg. pool depth was less than or equal to 15 cm, and the water temperature was 15 degrees C.**

**General:**
- **100s of individuals observed during surveys conducted on 25 Jan, 8 Feb, and 5 Apr 2006.**

**Owner/Manager:** PVT
### Northern Hardpan Vernal Pool

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<td>Micro:</td>
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#### Occurrence No. 28
- **Map Index:** 11356
- **EO Index:** 27516
- **Dates Last Seen:**
  - **Element:** 1980-05-13
  - **Site:** 1980-05-13
- **Record Last Updated:** 1998-07-15

- **Occurrence No.:** 28
- **Map Index:** 11356
- **EO Index:** 27516
- **Dates Last Seen:**
  - **Element:** 1980-05-13
  - **Site:** 1980-05-13
- **Record Last Updated:** 1998-07-15

- **Lat/Long:** 38.44129° / -121.45412°
- **UTM:** Zone 10 N4255911 E634910
- **Radius:** 1/5 mile
- **Elevation:** 18 ft
- **Township:** 07N
- **Range:** 05E
- **Section:** 20
- **Qtr:** S
- **Elevation:** 18 ft
- **Symbol Type:** POINT
- **Meridian:** M
- **Location:** N OF SIMS RD, W OF FRANKLIN RD. (SACRAMENTO VIC).
- **Ecological:** LOW FLOOD PLAIN POOLS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

- **Owner/Manager:** UNKNOWN

#### Occurrence No. 34
- **Map Index:** 11453
- **EO Index:** 27458
- **Dates Last Seen:**
  - **Element:** 1983-XX-XX
  - **Site:** 1983-XX-XX
- **Record Last Updated:** 1998-07-15

- **Occurrence No.:** 34
- **Map Index:** 11453
- **EO Index:** 27458
- **Dates Last Seen:**
  - **Element:** 1983-XX-XX
  - **Site:** 1983-XX-XX
- **Record Last Updated:** 1998-07-15

- **Lat/Long:** 38.43323° / -121.40355°
- **UTM:** Zone 10 N4255091 E639339
- **Radius:** 1/5 mile
- **Elevation:** 25 ft
- **Township:** 07N
- **Range:** 05E
- **Section:** 26
- **Qtr:** W
- **Elevation:** 25 ft
- **Symbol Type:** POINT
- **Meridian:** M
- **Location:** S OF SHELDON RD AND W OF HWY 99. (SACRAMENTO VIC).
- **Ecological:** LOW FLOODPLAIN POOLS W/ FRESHWATER MARSH AREAS. ON SAN JOAQUIN ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

- **Owner/Manager:** UNKNOWN

#### Occurrence No. 52
- **Map Index:** 11322
- **EO Index:** 26980
- **Dates Last Seen:**
  - **Element:** 1980-05-13
  - **Site:** 1980-05-13
- **Record Last Updated:** 1998-07-15

- **Occurrence No.:** 52
- **Map Index:** 11322
- **EO Index:** 26980
- **Dates Last Seen:**
  - **Element:** 1980-05-13
  - **Site:** 1980-05-13
- **Record Last Updated:** 1998-07-15

- **Lat/Long:** 38.38073° / -121.46635°
- **UTM:** Zone 10 N4249172 E633955
- **Radius:** 1 mile
- **Elevation:** 15 ft
- **Township:** 06N
- **Range:** 05E
- **Section:** 07
- **Qtr:** SE
- **Elevation:** 15 ft
- **Symbol Type:** POINT
- **Meridian:** M
- **Location:** 10 MI S OF SACTO. FRANKLIN BLVD, NW OF FRANKLIN AREA INCLS 6 1/2 SECTS.
- **Ecological:** LARGE, SHALLOW, FLOODPLAIN VERNAL POOLS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.
- **Threat:** HEAVY CATTLE USE.

- **Owner/Manager:** UNKNOWN
### Northern Hardpan Vernal Pool

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**Habitat Associations**

**General:**
- Micro:

#### Occurrence 1:

- **Occurrence No.:** 93
- **Map Index:** 11328
- **EO Index:** 26716
- **Dates Last Seen:**
  - Element: 1983-XX-XX
  - Site: 1983-XX-XX
- **Record Last Updated:** 1998-07-15

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

- **Lat/Long:** 38.41574º / -121.46468º
- **UTM:** Zone-10 N4253060 E634035
- **Radius:** 1 mile
- **Elevation:** 15 ft
- **Mapping Precision:** NON-SPECIFIC
- **Symbol Type:** POINT

**Location:** ELLIOT RANCH ROAD, WEST OF FRANKLIN BLVD.

**Location Detail:** SPARSELY DISTRIBUTED.

**Ecological:** ON SAN JOAQUIN - ALAMO ASSOC SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO

**Owner/Manager:** UNKNOWN

#### Occurrence 2:

- **Occurrence No.:** 94
- **Map Index:** 11340
- **EO Index:** 26865
- **Dates Last Seen:**
  - Element: 1983-XX-XX
  - Site: 1983-XX-XX
- **Record Last Updated:** 1998-07-15

**Quad Summary:** Florin (3812144/496B), Bruceville (3812134/496C)

**County Summary:** Sacramento

- **Lat/Long:** 38.36177º / -121.45896º
- **UTM:** Zone-10 N4247079 E634635
- **Radius:** 1 mile
- **Elevation:** 15 ft
- **Mapping Precision:** NON-SPECIFIC
- **Symbol Type:** POINT

**Location:** WEST OF FRANKLIN BLVD ABOUT 1.3 MI S OF FRANKLIN.

**Location Detail:** SPARSE DISTRIBUTION.

**Ecological:** ON SAN JOAQUIN - ALAMO ASSOC SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO

**Owner/Manager:** UNKNOWN

#### Occurrence 3:

- **Occurrence No.:** 97
- **Map Index:** 11412
- **EO Index:** 26718
- **Dates Last Seen:**
  - Element: 1983-XX-XX
  - Site: 1983-XX-XX
- **Record Last Updated:** 1998-07-15

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

- **Lat/Long:** 38.3962º / -121.42411º
- **UTM:** Zone-10 N4255769 E637532
- **Radius:** 1 mile
- **Elevation:** 20 ft
- **Mapping Precision:** NON-SPECIFIC
- **Symbol Type:** POINT

**Location:** JUST N OF SHELDON RD, W OF BRUCEVILLE RD, S OF COSUMNES RIV COLLEGE.

**Location Detail:** SPARSE VERNAL POOLS AS SEEN IN 1983 AERIAL PHOTOS.

**Ecological:** ON SAN JOAQUIN ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO

**Owner/Manager:** UNKNOWN
### Nycticorax nycticorax

**black-crowned night heron**

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**Habitat Associations**

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

#### Occurrence No. 15

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

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

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

**General:** 42 INDIVIDUALS OBSERVED AT THIS ROOKERY ON 1 FEB 2005.

**Owner/Manager:** SAC COUNTY REG SANITATION DIST

**Dates Last Seen:**

- 2005-02-01

**Record Last Updated:** 2006-06-05

#### Ocurrence No. 16

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

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

**General:** 12 INDIVIDUALS OBSERVED AT THIS ROOKERY ON 16 MAR 2005.

**Owner/Manager:** SAC COUNTY REG SANITATION DIST

**Dates Last Seen:**

- 2005-03-16

**Record Last Updated:** 2006-06-05

#### Ocurrence No. 17

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

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

**General:** 13 INDIVIDUALS OBSERVED AT THIS ROOKERY ON 16 MAR 2005.

**Owner/Manager:** SAC COUNTY REG SANITATION DIST

**Dates Last Seen:**

- 2005-03-16

**Record Last Updated:** 2006-06-05
### Phalacrocorax auritus

**double-crested cormorant**

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<tr>
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<td>COLONIAL NESTER ON COASTAL CLIFFS, OFFSHORE ISLANDS, &amp; ALONG LAKE MARGINS IN THE INTERIOR OF THE STATE.</td>
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<td>Micro: NESTS ALONG COAST ON SEQUESTERED ISLETS, USUALLY ON GROUND WITH SLOPING SURFACE, OR IN TALL TREES ALONG LAKE MARGINS.</td>
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**Habitat Associations**

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

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

**Owner/Manager:** SAC COUNTY, PVT

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

**Trend:** Unknown

**Dates Last Seen:** 1995-12-07

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**Habitat Associations**

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

**Threat:** THREATENED BY LOSS OF TREES TO BEAVER PREDATION.

**Owner/Manager:** SAC COUNTY REG SANITATION DIST

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

**Trend:** Unknown

**Dates Last Seen:** 2006-09-27

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**Habitat Associations**

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

**Threat:** THREATENED BY LOSS OF TREES TO BEAVER PREDATION.

**Owner/Manager:** SAC COUNTY REG SANITATION DIST

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

**Trend:** Unknown

**Dates Last Seen:** 2006-09-27
### Pogonichthys macrolepidotus

**Sacramento splittail**

**Element Code:** AFCJB34020

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**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. REQUIRE FLOODED VEGETATION FOR SPAWNING & FORAGING FOR YOUNG.

---

**Occurrence No. 1**

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**Quad Summary:** Courtland (3812135/497D), Clarksburg (3812145/497A), Grays Bend (3812166/513B), Knights Landing (3812176/529C), Nicolaus (3812185/529A), Florin (3812144/496B), Sacramento West (3812155/513D), Taylor Monument (3812165/513A), Verona (3812175/529D), Eldorado Bend (3812177/530D)

**County Summary:** Sutter, Yolo, Sacramento

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<td>5,037.5 acres</td>
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**Location:** SACRAMENTO RIVER FROM MISSOURI BEND N OF KNIGHTS LANDING TO S OF COURTLAND. ALSO, LOWER 10 MILES OF THE FEATHER RIVER.

**Location Detail:** IN THE SACRAMENTO RIVER FROM RIVER MILE 33 SOUTH OF COURTLAND TO RIVER MILE 97 NORTH OF KNIGHTS LANDING, AND THE LOWER 10 MILES OF THE FEATHER RIVER.

**Ecological:** MODERATE CURRENT & SANDY BOTTOM. RIVERBANKS VARIABLE. WATER TEMP AVERAGES LOW 60'S F. MOST FISH TAKEN FROM THE END OF DECEMBER TO THE END OF MAY.

**General:** INFORMATION TAKEN FROM A SACRAMENTO RIVER ANGLER SURVEY CONDUCTED BETWEEN 1991 & 1995. FISH WERE TAKEN BY HOOK & LINE MOSTLY FROM SHORE. MOST OF THE SPLITTAIL CAUGHT WERE TAKEN INCIDENTALLY & WERE NOT THE SPECIES TARGETED BY THE ANGLER.

**Owner/Manager:** PVT, STATE
### Sagittaria sanfordii

- **Sanford's arrowhead**

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#### Habitat Associations

**General:** MARSHES AND SWAMPS.

**Micro:** IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-610M.

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#### Occurrence No. 16

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- **Dates Last Seen**
  - Element: 2004-07-08
  - Site: 2004-07-08

- **Record Last Updated:** 2005-06-12

#### Location

- **Location:** ALONG AND BETWEEN BEACON CREEK AND ELDER CREEK, EAST OF POWER INN ROAD, ELK GROVE.
- **Location Detail:** MAPPED AS FIVE POLYGONS: TWO ALONG BEACON CREEK BETWEEN POWER INN ROAD AND RR TRACKS, ONE BETWEEN THE TWO CREEKS, AND TWO ALONG ELDER CREEK ON EITHER SIDE OF RR TRACKS. MAPPED FROM THE SW 1/4 OF SECTION 11 TO THE SW 1/4 OF SECTION 1.
- **Ecological:** GROWING IN FLOWING STREAM, IN CEMENT-LINED CHANNEL WITH MUD, AND DRAINAGE CHANNEL. ASSOCIATED WITH ALISMA PLANTAGO-AQUATICUM, LUDWIGIA PEPLOIDES, LEPTCHOLOA FASCICULARIS, ECHINOCHOLOA CRUS-GALLII, TYPHA LATIFOLIA, LEMNA, ETC.
- **Threat:** CREEK REALIGNMENT, HERBICIDE SPRAYING, ADJACENT RESIDENTIAL DEVELOPMENT, TRASH DUMPING, AND PROPOSED WATER PIPELINE.
- **General:** ALONG ELDER CREEK, 400+ PLANTS SEEN IN 1992 AND "HUNDREDS" IN 2004. ABOUT 100 PLANTS EACH SEEN IN 2004 AT EASTERN BEACON CREEK SITE AND AT SITE BETWEEN THE TWO CREEKS. SEE CNDDB FOR FULL POPULATION DETAIL. INCLUDES FORMER EO #17.

- **Owner/Manager:** PVT, ELK GROVE SCHOOL DIST

---

#### Occurrence No. 18

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- **Dates Last Seen**
  - Element: 1996-06-XX
  - Site: 1996-06-XX

- **Record Last Updated:** 2003-06-06

#### Location

- **Location:** STRAWBERRY CREEK, NORTHWEST & SOUTH OF CALVINE RD/ELK GROVE-FLORIN RD INTERSECTION, ELK GROVE.
- **Location Detail:** 6 MAIN COLONIES. 1) "CHANNEL OFF OF STRAWBERRY CREEK" MAPPED NW OF CALVINE/ELK GROVE-FLORIN RD JCT 2-4) ALONG CREEK WEST OF ELK GROVE-FLORIN RD 5) ALONG ASSESSORS PARCEL #115013014, 6) JUST WEST OF SPRR, IN STOCK POND (TRANSP POP).
- **Ecological:** COLONY NEAR BAY TOWN CRK IS CEMENT LINED CHANNEL. CENTER COLONIES ARE ALONG DRIED CREEK CHANNEL.
- **Threat:** NW POP IN CANAL WAS TO BE CLEARED OF VEGETATION IN 1991 OR 1992. DEVELOPMENT PROPOSED FOR CENTER POP. HOW MUCH IS LEFT?
- **General:** SACRAMENTO CO PUBLIC WORKS DEPT. TO TRANSPLANT COLONY 1 INTO A GIANT GARTER SNAKE SITE TO MITIGATE FOR CANAL CLEARING ACTIVITIES. POP IN SEC 24 REPLANTED AT SITE AFTER STRAWBERRY CR REALIGNMENT. FORMER EO #19 & #20 HERE.

- **Owner/Manager:** SAC COUNTY PUBLIC WORKS, PVT
### Sagittaria sandfordii

**Sanford's arrowhead**

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<th>CNPS List</th>
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**Habitat Associations**
- **General:** MARSHES AND SWAMPS.
- **Micro:** IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-610M.
- **In Standing or Slow-moving Freshwater Ponds, Marshes, and Ditches. 0-610m.**

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</table>

#### Occurrence Details
- **Location:** STRAWBERRY CREEK AT BRUCEVILLE ROAD, SACRAMENTO.
- **Ecological:** IN SHALLOW SLOW MOVING WATER.

<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
<th>Dates Last Seen</th>
<th>Element</th>
<th>Site</th>
<th>Record Last Updated</th>
</tr>
</thead>
</table>

#### Occurrence Details
- **Location:** JUST NORTH OF COSUMNES RIVER BLVD IN CREEK ALONG BOTH SIDES OF BRUCEVILLE ROAD, JUST WITHIN SACRAMENTO CITY LIMITS.

<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
<th>Dates Last Seen</th>
<th>Element</th>
<th>Site</th>
<th>Record Last Updated</th>
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</thead>
<tbody>
<tr>
<td>40</td>
<td>30130</td>
<td>4954</td>
<td></td>
<td>1993-XX-XX</td>
<td>1994-09-27</td>
<td></td>
</tr>
</tbody>
</table>

#### Occurrence Details
- **Location:** MORRISON CREEK AT FLORIN ROAD, SACRAMENTO.

---

**Presence:** Natural/Native occurrence

**Trend:** Unknown

**Owner/Manager:** PVT-BEACH LAKE PROPERTIES

---

**Origin:** Natural/Native occurrence

**Dates Last Seen:** 1992-07-19

**Record Last Updated:** 1995-11-13

---

**Owner/Manager:** PVT-BEACH LAKE PROPERTIES
**Sagittaria sandfordii**  
Sanford's arrowhead

<table>
<thead>
<tr>
<th>Status</th>
<th>NDDB Element Ranks</th>
<th>Other Lists</th>
<th>CNPS List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal: None</td>
<td>Global: G3</td>
<td></td>
<td>18.2</td>
</tr>
<tr>
<td>State: None</td>
<td>State: S3.2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Habitat Associations**
- MARSHES AND SWAMPS.

**Micro:***
- IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-610M.

**Occurrence No. 41**  
Map Index: 30131  
EO Index: 4953  
Dates Last Seen: 1993-XX-XX

- **Occurrence:** None
- **Origin:** Natural/Native occurrence
- **Presence:** Possibly Extirpated
- **Trend:** Unknown

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

- **Lat/Long:** 38.47613° / -121.45121°
- **Area:** 12.2 acres
- **Elevation:** 20 ft
- **Mapping Precision:** SPECIFIC
- **Symbol Type:** POLYGON
- **Meridian:** M
- **Township:** 07N
- **Range:** 05E
- **Section:** 08
- **Qtr:** NE

**Location:** ELDER CREEK AT FRANKLIN BLVD, SACRAMENTO.

**Location Detail:** ALONG EITHER SIDE OF FRANKLIN BLVD., ABOUT 0.15 MILE NORTH OF MACK ROAD.

**Ecological:** CONCRETE CHANNEL. THE ONLY VEGETATION OBSERVED IN 1995 WAS VERY SPARSE LUDWEGIA PEPLIOIDES. VERY LITTLE AVAILABLE SUBSTRATE.

**Threat:** CHANNEL MAINTENANCE? SITE SURROUNDED BY URBAN SPRAWL.

**General:** UNKNOWN NUMBER OF PLANTS REPORTED AT THIS SITE BY NORTON IN 1993. REPEATED HIGH WATER EVENTS OR CHANNEL MAINTENANCE MAY HAVE SCOURED PLANTS FROM THIS CHANNEL; SHOULD BE MONITORED FOR RECOLONIZATION. NO PLANTS SEEN IN 2005.

**Owner/Manager:** CITY OF SACRAMENTO

**Record Last Updated:** 2005-10-03

**Occurrence No. 42**  
Map Index: 30132  
EO Index: 4952  
Dates Last Seen: 1993-XX-XX

- **Occurrence:** None
- **Origin:** Natural/Native occurrence
- **Presence:** Presumed Extant
- **Trend:** Unknown

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

- **Lat/Long:** 38.47068° / -121.41815°
- **Area:** 16.7 acres
- **Elevation:** 20 ft
- **Mapping Precision:** SPECIFIC
- **Symbol Type:** POLYGON
- **Meridian:** M
- **Township:** 07N
- **Range:** 05E
- **Section:** 08
- **Qtr:** SW

**Location:** BEACON CREEK AT HWY 99 & STOCKTON ROAD, SACRAMENTO.

**Location Detail:** MAPPED ABOUT 0.3 MILE SOUTHEAST OF ELsie AVE AND EXTENDING FROM EAST OF STOCKTON ROAD TO JUST WEST OF HWY 99.

**General:** ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL; ECOLOGICAL, THREAT, AND OWNERSHIP INFO NEEDED.

**Owner/Manager:** UNKNOWN

**Record Last Updated:** 1994-08-04

**Occurrence No. 43**  
Map Index: 30133  
EO Index: 4947  
Dates Last Seen: 1993-XX-XX

- **Occurrence:** None
- **Origin:** Natural/Native occurrence
- **Presence:** Possibly Extirpated
- **Trend:** Unknown

**Quad Summary:** Florin (3812144/496B)

**County Summary:** Sacramento

- **Lat/Long:** 38.41240° / -121.39132°
- **Area:** 9.2 acres
- **Elevation:** 30 ft
- **Mapping Precision:** SPECIFIC
- **Symbol Type:** POLYGON
- **Meridian:** M
- **Township:** 07N
- **Range:** 05E
- **Section:** 35
- **Qtr:** SE

**Location:** ELK GROVE CREEK WEST OF HWY 99, ELK GROVE.

**Location Detail:** MAPPED ABOUT 0.25 MILE NORTH OF ELK GROVE BLVD IN CHANNEL BEHIND WALMART.

**General:** ONLY SOURCE OF INFORMATION FOR THIS SITE IS MAP DETAIL; ECOLOGICAL, THREAT, AND OWNERSHIP INFO NEEDED. AS OF 1998 THERE WERE NO PLANTS AT THIS LOCATION.

**Owner/Manager:** UNKNOWN
Sagittaria sanfordii
Sanford's arrowhead

### General
MARSHES AND SWAMPS. IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-610M.

### Micro
IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-610M.

### Habitat Associations
- General: MARSHES AND SWAMPS.
- Micro: IN STANDING OR SLOW-MOVING FRESHWATER PONDS, MARSHES, AND DITCHES. 0-610M.

<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
<th>Dates Last Seen</th>
</tr>
</thead>
<tbody>
<tr>
<td>59</td>
<td>62284</td>
<td>62321</td>
<td>2004-07-08</td>
</tr>
</tbody>
</table>

### Presence
- Presumed Extant

### Trend
- Unknown

### Location
- STRAWBERRY CREEK, ABOUT 0.3 MILES NNE OF INTERSECTION OF HIGHWAY 99 AND CALVINE ROAD.

### Owner/Manager
- UNKNOWN

### County Summary
- Florin (3812144/496B) Sacramento
- Florin (3812144/496B) Sacramento

### Dates Last Seen
- 2004-07-08

### Lat/Long
- 38.45719º / -121.40680º

### Mapping Precision
- SPECIFIC

### Symbol Type
- POINT

### Elevation
- 25 ft

### Location Detail
- MAPPED IN THE NW 1/4 OF THE SW 1/4 OF SECTION 14.

### Threat
- PROPOSED WATER PIPELINE (AS OF 2004).

### General
- UNKNOWN NUMBER OF PLANTS SEEN IN 2004.

### Occurrence No.  

### Map Index  

### EO Index  

### Dates Last Seen  

### Occ Rank:  
Fair

### Origin:  
Natural/Native occurrence

### Presence:  
Presumed Extant

### Trend:  
Unknown

### Location
- MORRISON CREEK, EAST OF HIGHWAY 5, ABOUT 0.85 AIRMILE SOUTHEAST OF FREEPORT.

### Location Detail
- ALONG PORTION OF MORRISON CREEK WHICH WAS REROUTED TO THE WEST OF THE BUFFERLANDS CELL, SEASONAL WETLANDS.

### Ecological
- THE PLANT COMMUNITY WITHIN THIS CREEK IS PREDOMINATELY Ludwigia sp. BOTH UP AND DOWNSTREAM OF THE ABOVE LOCATION, PERENNIAL AND ANNUAL SMARTWEEDS, Polygonum amphibium var. emerum AND Polygonum persicaria, ALSO OCCUR WITHIN THIS DRAINAGE.

### Threat
- NONE IN 2005.

### General
- 5 PLANTS OBSERVED IN 2005.

### Owner/Manager
- SAC COUNTY-BUFFERLANDS
American badger

**Habitat Associations**

**General:** MOST ABUNDANT IN DRIER OPEN STAGES OF MOST SHRUB, FOREST, AND HERBACEOUS HABITATS, WITH FRIABLE SOILS. NEED SUFFICIENT FOOD, FRIABLE SOILS & OPEN, UNCULTIVATED GROUND. PREY ON BURROWING RODENTS. DIG BURROWS.

### Occurrence No. 209

**Map Index:** 56999  
**EO Index:** 57015  
**Dates Last Seen**  
**Element:** 1938-10-22  
**Site:** 1938-10-22  
**Record Last Updated:** 2004-09-27

**Quad Summary:** Bruceville (3812134/496C), Florin (3812144/496B), Clarksburg (3812145/497A), Courtland (3812135/497D)

**County Summary:** Sacramento, Yolo

**Lat/Long:** 38.37192° / -121.51617°  
**UTM:** Zone-10 N4248124 E639618  
**Radius:** 1 mile  
**Elevation:** 5 ft  
**Mapping Precision:** NON-SPECIFIC  
**Symbol Type:** POINT  
**Township:** 06N  
**Range:** 04E  
**Section:** 14  
**Qtr:** XX  
**Meridian:** M

**Location:** INDIAN MOUND, NORTH OF HOOD.

**Location Detail:** MAPPED ACCORDING TO LAT/LONG GIVEN BY MVZ; MAX ERROR DISTANCE: 1 MI.

**General:** MVZ #88217; COLLECTED BY DAVID H. JOHNSON ON 22 OCT 1938.

**Owner/Manager:** UNKNOWN
**Thamnophis gigas**  
**Giant garter snake**  
Federal: Threatened  
Global: G2G3  
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.  

### ADARB36150

<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
<th>Dates Last Seen</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>11466</td>
<td>13783</td>
<td></td>
</tr>
</tbody>
</table>

#### Quad Summary: Florin (3812144/496B)

- **Lat/Long:** 38.41240º / -121.39550º  
- **Radius:** 1 mile  
- **Location:** Elk Grove Creek, 0.4 mi W HWY 99 and 0.5 mi N Elk Grove Blvd, Elk Grove.  
- **Ecological:** The marsh at this location was filled and leveled for industrial park development as of May 1984.  
- **General:** May 1929: Adult collected 10 miles S of Sacramento. 7/1/76: 1 snake captured & released. 7/26/82: 2 juveniles captured (examined & released) while basking on mats of dry cattails near shore. No snakes observed during 1986-87 study by G. Hansen.  
- **Owner/Manager:** PVT

### ADARB36151

<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
<th>Dates Last Seen</th>
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</thead>
<tbody>
<tr>
<td>14</td>
<td>11413</td>
<td>27599</td>
<td></td>
</tr>
</tbody>
</table>

#### Quad Summary: Florin (3812144/496B)

- **Lat/Long:** 38.43691º / -121.42307º  
- **Radius:** 1/5 mile  
- **Location:** Laguna Marsh, along Sheldon Rd, 0.3 mi W of Bruceville Rd, Elk Grove.  
- **Ecological:** Marsh area surrounded by cultivated fields & heavily grazed grasslands. Grazed areas characterized by compacted soil, few rodent burrows, & sparse vegetation. Thereby providing little cover for snakes during floods.  
- **Owner/Manager:** PVT

### ADARB36152

<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
<th>Dates Last Seen</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>11225</td>
<td>624</td>
<td></td>
</tr>
</tbody>
</table>

#### Quad Summary: Florin (3812144/496B)

- **Lat/Long:** 38.42334º / -121.49818º  
- **Area:** BEACH LAKE, APPROXIMATELY 1.5 MILES SOUTH OF FREEPORT.  
- **Ecological:** Shore vegetation dominated by Scirpus acuta.  
- **General:** GGS observed here prior to 1986. One adult observed eating a bullfrog. Levee serves as access to agricultural field (site of proposed Caltrans Mitigation Bank) to east. Light fishing, recreation use from Beach Lake Properties (BLP) members.  
- **Owner/Manager:** SAC COUNTY, PVT
**Thamnophis gigas**  
*Giant Garter Snake*

**Status**  
Federal: Threatened  
State: Threatened

**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. 84**  
Map Index: 11449  
EO Index: 27544  
**Dates Last Seen**  
Element: 1962-08-03  
Site: 1962-08-03  
Record Last Updated: 1995-08-02

**Location**  
Laguna Crk, 0.8 mi SE Jct of Bruceville Rd & Sheldon Rd, Elk Grove.

**Ecological**  
Adult snake found swimming among cattails & tules; area also known as "Confluence Marsh" (Jct of Laguna Cr & Elk Grove Cr). Potential prey species include carp, bullhead, mosquitofish, & bullfrog.

**Threat**  
Marsh area surrounded by irrigated pasture & grazed grassland.

**Owner/Manager**  
PVT

---

**Occurrence No. 147**  
Map Index: 37128  
EO Index: 32125  
**Dates Last Seen**  
Element: 1965-XX-XX  
Site: 1965-XX-XX  
Record Last Updated: 1997-10-08

**Location**  
South of South Beach Lake and West of I-5, vicinity of Lower Morrison Creek, South of Sacramento.

**Ecological**  
At the time of the original observations (1955 and 1965), this area consisted of farmland (wheat, corn) adjacent to Morrison Creek riparian/floodplain. Site is now managed as sanitation district buffer lands (managed marsh).

**Threat**  
Possible threats include flooding, conversion to other wetland types, and upstream urbanization.

**Owner/Manager**  
Sanitation Dist

---

**Occurrence No. 198**  
Map Index: 61361  
EO Index: 61397  
**Dates Last Seen**  
Element: 2005-05-01  
Site: 2005-05-01  
Record Last Updated: 2005-05-19

**Location**  
“SENSITIVE” Location information suppressed.

**Ecological**  
Habitat consists of a riparian area along Laguna Creek, dominated by Rumex Crispus and Typha Latifolia, with associates which include Salix spp and Populus fremontii.

**Threat**  
Threatened by urban growth and water pollution from city runoff in areas.

**Owner/Manager**  
SENSITIVE

---

*Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information: (916) 324-3812.*
**Xanthocephalus xanthocephalus**

*yellow-headed blackbird*

<table>
<thead>
<tr>
<th>Sts</th>
<th>NDDB Element Ranks</th>
<th>Other Lists</th>
<th>CDFG Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fed:</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>State:</td>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Habitat Associations**

- **General:** (NESTING) NESTS IN FRESHWATER EMERGENT WETLANDS W/DENSE VEGETATION & DEEP WATER. OFTEN ALONG BORDERS OF LAKES OR PONDS. NESTS ONLY WHERE LARGE INSECTS SUCH AS ODONATA ARE ABUNDANT, NESTING TIMED WITH MAXIMUM EMERGENCE OF AQUATIC INSECTS.

<table>
<thead>
<tr>
<th>Occurrence No.</th>
<th>Map Index</th>
<th>EO Index</th>
<th>Dates Last Seen</th>
<th>Element</th>
<th>Site</th>
<th>Dates Last Seen</th>
<th>Record Last Updated</th>
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<tbody>
<tr>
<td>9</td>
<td>63557</td>
<td>63652</td>
<td></td>
<td>1899-06-10</td>
<td>1899-06-10</td>
<td>2005-12-29</td>
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</tr>
</tbody>
</table>

**Quad Summary:** Florin (3812144/496B), Clarksburg (3812145/497A)

**County Summary:** Yolo, Sacramento

<table>
<thead>
<tr>
<th>Lat/Long</th>
<th>Township</th>
<th>Range</th>
<th>Qtr</th>
<th>Meridian</th>
</tr>
</thead>
<tbody>
<tr>
<td>38.45140° / -121.50133°</td>
<td>07N</td>
<td>04E</td>
<td>XX</td>
<td>M</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UTM</th>
<th>Section</th>
<th>Qtr</th>
</tr>
</thead>
<tbody>
<tr>
<td>N4256965 E630771</td>
<td>23</td>
<td>XX</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Radius</th>
<th>Mapping Precision</th>
<th>Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/5 mile</td>
<td>NON-SPECIFIC</td>
<td>5 ft</td>
</tr>
</tbody>
</table>

**Location:** 0.5 MI SOUTH OF FREEPORT

**General:** MVZ #954-957 (EGG SETS) COLLECTED 10 JUN 1899 BY R. H. ELLIOTT.

**Owner/Manager:** UNKNOWN
<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
<th>Status Fed/CA/other</th>
<th>Habitat</th>
<th>Likelihood of Occurrence Within the Project Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plants</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bristly sedge</td>
<td>Carex comosa</td>
<td>none/none/2</td>
<td>Occurs in coastal prairie, along the lake margins of marshes and swamps, and valley and foothill grasslands at elevations ranging from 0 – 625 meters; blooms May to September.</td>
<td>None. No suitable habitat exists on the project site.</td>
</tr>
<tr>
<td>Dwarf downingia</td>
<td>Downingia pusilla</td>
<td>none/none/2</td>
<td>Occurs in vernal pools and mesic (well-drained) valley and foothill grasslands at elevations ranging from 1 - 445 meters; blooms March to May.</td>
<td>None. No suitable habitat exists on the project site.</td>
</tr>
<tr>
<td>Boggs Lake hedge-hyssop</td>
<td>Gratiola heterosepala</td>
<td>None/SE/1B</td>
<td>Occurs in marshes, swamps and vernal pools with clay soil substrates at elevations ranging from 10 – 2375 meters; blooms April to August.</td>
<td>None. No suitable habitat exists on the project site.</td>
</tr>
<tr>
<td>Rose-mallow</td>
<td>Hibiscus lasiocarpus</td>
<td>none/none/2</td>
<td>Margins of ponds and marshes and riparian areas.</td>
<td>None. No suitable habitat exists on the project site.</td>
</tr>
<tr>
<td>Delta tule pea</td>
<td>Lathyrus jepsonii var. jepsonii</td>
<td>None/None/1B.2</td>
<td>Occurs in brackish and freshwater marshes and swamps at elevations ranging from 0 – 4 meters; blooms May to July.</td>
<td>None. Project Site does not provide suitable aquatic habitat for this species.</td>
</tr>
<tr>
<td>Legenere</td>
<td>Legenere limosa</td>
<td>None/None/1B.1</td>
<td>Occurs in vernal pools at elevations ranging from 1 – 880 meters; blooms April to June.</td>
<td>None. No suitable habitat exists on the project site.</td>
</tr>
<tr>
<td>Mason’s lilaeopsis</td>
<td>Lilaeopsis masonii</td>
<td>None/CR/1B.1</td>
<td>Occurs in brackish or freshwater marshes and swamps and riparian scrub at elevations ranging from 0 – 10 meters; blooms April to November.</td>
<td>None. Project Site does not provide suitable aquatic habitat for this species.</td>
</tr>
<tr>
<td>Delta mudwort</td>
<td>Limosella subulata</td>
<td>None/None/2.1</td>
<td>Occurs in marshes and swamps at elevations ranging from 0 – 3 meters; blooms May to August.</td>
<td>None. Project Site does not provide suitable aquatic habitat for this species.</td>
</tr>
<tr>
<td>Slender orcutt grass</td>
<td>Orcuttia tenuis</td>
<td>FT/CE/1B.1</td>
<td>Occurs in vernal pools at elevations ranging from 30 - 1735 meters; blooms May to August.</td>
<td>None. Project Site does not provide suitable aquatic habitat for this species.</td>
</tr>
<tr>
<td>Sacramento orcutt grass</td>
<td>Orcuttia viscida</td>
<td>FE/CE/1B.1</td>
<td>Occurs in vernal pools at elevations ranging from 30 - 1735 meters; blooms May to October.</td>
<td>None. Project Site does not provide suitable aquatic habitat for this species.</td>
</tr>
<tr>
<td>Sanford’s arrowhead</td>
<td>Sagittaria sanfordii</td>
<td>None/None/1B.2</td>
<td>Occurs in shallow freshwater marshes, swamps, and slow gradient streams at elevations ranging from 0 – 610 meters; blooms May to October.</td>
<td>None. Project Site does not provide suitable aquatic habitat for this species.</td>
</tr>
</tbody>
</table>
### Special Status Species Potentially Occurring Within the Delta Shores Project Site

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
<th>Status Fed/CA/other</th>
<th>Habitat</th>
<th>Likelihood of Occurrence Within the Project Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marsh skullcap</td>
<td><em>Scutellaria galericulata</em></td>
<td>None/None/2.2</td>
<td>Occurs in lower montane coniferous forests, meadows and seeps, and marshes and swamps at elevations ranging from 0 – 2100 meters; blooms June to September.</td>
<td>None. Project Site does not provide suitable aquatic habitat for this species</td>
</tr>
<tr>
<td>Invertebrates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vernal pool fairy shrimp</td>
<td><em>Branchinecta lynchi</em></td>
<td>FT/None/None</td>
<td>Vernal pools and other seasonal wetlands in open grassland habitat.</td>
<td>None. ECORP’s dry and wet season sampling of the project site found no branchiopods.</td>
</tr>
<tr>
<td>Vernal pool tadpole shrimp</td>
<td><em>Lepidurus packardi</em></td>
<td>FE/None/None</td>
<td>Vernal pools and other seasonal wetlands in open grassland habitat.</td>
<td>None. ECORP’s dry and wet season sampling of the project site found no branchiopods.</td>
</tr>
<tr>
<td>California linderiella</td>
<td><em>Linderiella occidentalis</em></td>
<td>None/None/None</td>
<td>Vernal pools and other seasonal wetlands in open grassland habitat.</td>
<td>None. ECORP’s dry and wet season sampling of the project site found no branchiopods.</td>
</tr>
<tr>
<td>Midvalley fairy shrimp</td>
<td><em>Branchinecta mesovallensis</em></td>
<td>None/SAL/NA</td>
<td>Vernal pools and other seasonal wetlands</td>
<td>None. ECORP’s dry and wet season sampling of the project site found no branchiopods.</td>
</tr>
<tr>
<td>Birds</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tricolored blackbird</td>
<td><em>Agelaius tricolor</em></td>
<td>None/CSC/MBTA and BCC</td>
<td>Highly colonial species. Most numerous in the Central Valley. Requires open water, cattail or tule marshes, protected nesting substrate (blackberry thickets), and a foraging area with insect prey within a few kilometers of the colony</td>
<td>None. Project Site does not provide suitable nesting habitat.</td>
</tr>
<tr>
<td>Western yellow-billed cuckoo</td>
<td><em>Coccyzus americanus occidentalis</em></td>
<td>none/CE/BCC</td>
<td>Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests and forages in dense, extensive stands of riparian woodland habitat dominated by willow, often mixed with cottonwoods, with understory of blackberry, nettles, or wild grape.</td>
<td>None. Project Site does not provide suitable habitat for this species.</td>
</tr>
<tr>
<td>Yellow-headed blackbird</td>
<td><em>Xanthocephalus xanthocephalus</em></td>
<td>none/none/MBTA</td>
<td>Nests in fresh emergent wetland with dense vegetation and deep water, often along borders of lakes or ponds. Forages in emergent wetland and moist, open areas, especially cropland and muddy shores of lacustrine habitat. Restricted distribution in Central Valley in winter, occurring mainly in the western portion.</td>
<td>None. The Project Site does not provide suitable nesting and foraging habitat; there are no recorded CNDDB occurrences of this species within 5 miles of the Project Site; species not observed during November 2005 or January 2006 field survey.</td>
</tr>
<tr>
<td>Mammals</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### SPECIAL STATUS SPECIES POTENTIALLY OCCURRING WITHIN THE DELTA SHORES PROJECT SITE

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
<th>Status Fed/CA/other</th>
<th>Habitat</th>
<th>Likelihood of Occurrence Within the Project Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>American badger</td>
<td><em>Taxidea taxus</em></td>
<td>None/none/CSC</td>
<td>Occupies a diversity of habitats throughout the state; principal habitat requirements include sufficient prey base, friable soils, and relatively open, uncultivated ground.</td>
<td>Low. <strong>The lack of suitable habitat likely precludes the presence of this species within the Project Site; no evidence of large burrows found during May 2007 surveys.</strong></td>
</tr>
<tr>
<td>Yuma myotis bat</td>
<td><em>Myotis yumanensis</em></td>
<td>FSC/none/none</td>
<td>Optimal habitats are open forest and woodlands with sources of water for feeding.</td>
<td>Low. <strong>The lack of suitable roosting habitat in the project site likely precludes the presence of this species.</strong></td>
</tr>
<tr>
<td>Townsend’s (Pacific) western big-eared bat</td>
<td><em>Corynorhinus townsendii</em></td>
<td>FSC/CSC/none</td>
<td>Well distributed throughout a variety of habitats (coniferous forests, oak woodlands, broad-leaf forests, grasslands, etc). Roosts in caves, buildings, tunnels, and other human structures (Williams 1986).</td>
<td>Low. <strong>The lack of suitable roosting habitat within the project site likely precludes the presence of this species.</strong></td>
</tr>
<tr>
<td>Pallid bat</td>
<td><em>Antrozous pallidus</em></td>
<td>None/CSC/none</td>
<td>Daytime roosts in buildings and crevices; less often in caves, mines, and hollow trees. Nighttime roosts in buildings, caves, mines and cliff overhangs.</td>
<td>Low. <strong>The lack of suitable roosting habitat within the project site likely precludes the presence of this species.</strong></td>
</tr>
</tbody>
</table>

**Notes:**

**Status:**
- Federal
  - FE  Federally listed as Endangered
  - FT  Federally listed as Threatened
- State
  - ST  State-listed as Threatened
  - CSC California Department of Fish and Game designated “Species of Special Concern”
  - CNPS 1B Rare or Endangered in California and elsewhere
  - CNPS 2 Rare or Endangered in California, more common elsewhere

**Source:**
- CDFG Natural Diversity Database (CNDDB, 2007), USFWS Online Species List Database (http://sacramento.fws.gov/es/spp_lists/auto_list_form.cfm), and the CNPS Electronic Inventory 2007.