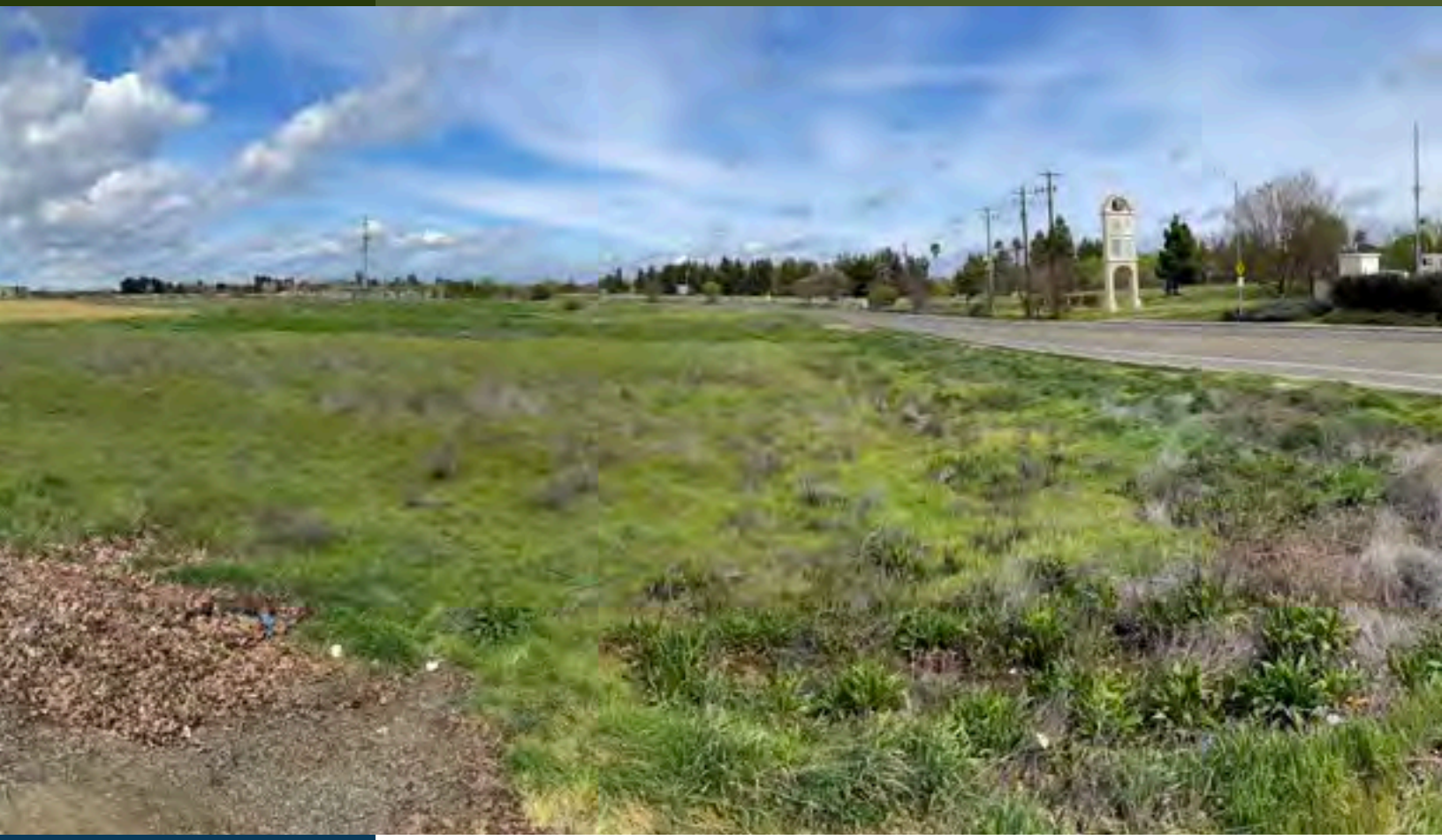
Appendix B
Wetland and Biological Resources Assessment

Wetland & Biological Resources Assessment

Davis Communicare Expansion Site
2051 John Jones Rd
Davis, CA 95616
APN 036-060-029



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1.0 INTRODUCTION

Barnett Environmental has conducted a *Wetland & Biological Resources Assessment* (W/BRA) of a 4.53-acre Study Area within a larger, 16.9-acre vacant parcel at 2051 John Jones Rd (APN 036-060-029) in Davis, (Yolo County), CA 95616. The Study Area is located in Section 5, Township 8 North, and Range 2 East of the Merritt 7.5-minute USGS quadrangle map (Figure 1). It lies in the Lower Sacramento (Hydrologic Unit Code 18020163) at approximately 36-40 feet in elevation above mean sea level (msl) and centered at approximately 38°33'56.14" North latitude and 121°46'13.17" West longitude.

The parcel is located 0.22 miles north of John Jones Road's intersection with W. Covell Blvd. and is surrounded by agricultural lands to the west, Sutter Davis Hospital and medical offices to the south, and highway 113 to the east. To the north is a developed lot, which is comprised of large disturbed area and a large storage container.

Beyond a delineation of wetlands and "other waters of the U.S." and "waters of the State" within the Study Area according to U.S. Army Corps of Engineers (1987) and California Regional Water Quality Control Board (2020) protocol, this report also:

- Identifies and describes extant vegetation communities;
- Records all plant and animal species observed during the field survey(s);
- Evaluates and identifies sensitive habitats and special status plant and animal species that may occur in the Study Area and could be affected by project activities; and
- Provides conclusions and recommendations for mitigating potential adverse impacts to identified resources.

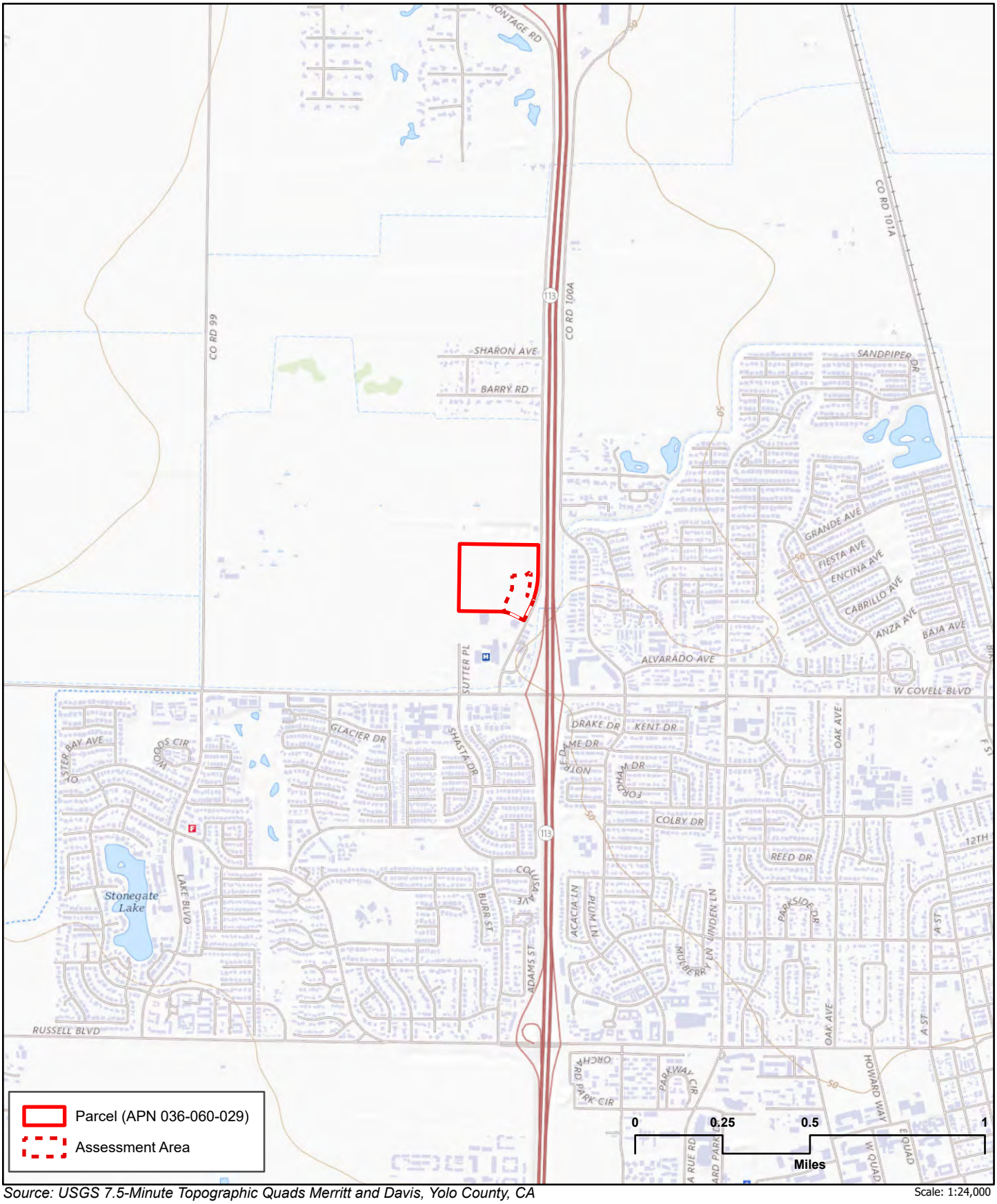
2.0 REGULATORY SETTING

The following federal laws, regulations and/or policies provide the legal framework guiding the protection of biological resources. We have included those laws most relevant to biological and wetland resources in and around the Study Area.

2.1 FEDERAL LAWS & REGULATIONS

FEDERAL ENDANGERED SPECIES ACT (FESA)

The FESA, enacted in 1973, prohibits the taking, possession, sale, or transport of endangered species. Under the FESA, the Secretary of the Interior and the Secretary of Commerce jointly have the authority to list a species as threatened or endangered. Both the National Marine Fisheries Service (NMFS) and the U.S. Fish & Wildlife Service (USFWS) administer FESA. NMFS is accountable for animals that are threatened or endangered (16 United States Code [USC] 1533[c]) and spend most of their lives in marine waters, including marine fish, most marine mammals, and anadromous fish such as Pacific salmon. The USFWS is accountable for all other federally listed plants and animals.



Source: USGS 7.5-Minute Topographic Quads Merritt and Davis, Yolo County, CA

Scale: 1:24,000

FIGURE 1 - SITE VICINITY MAP

Date: April 25, 2022

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Pursuant to the requirements of FESA, a federal agency reviewing a project within its jurisdiction must determine whether any federally listed threatened or endangered species could be present in the Study Area and whether the project will have a potentially significant impact on such species. In addition, federal agencies are required to determine whether the project is likely to jeopardize the continued existence of any species proposed to be listed under FESA or result in the destruction or adverse modification of critical habitat proposed to be designated for such species (16 USC 1536[3], [4]).

Projects that would result in a "take" of any federally listed threatened or endangered species are required to obtain authorization from NMFS and/or USFWS through either Section 7 (interagency consultation) or section 10(a) (incidental take permit) of FESA, depending on whether the federal government is involved in permitting or funding the project. The Section 7 authorization process is used to determine if a project with a federal nexus would jeopardize the continued existence of a listed species and what mitigation measures would be required to avoid jeopardizing the species. The Section 10(a) process allows take of endangered species or their habitat in non-federal activities.

MIGRATORY BIRD TREATY ACT

The Migratory Bird Treaty Act (MBTA) regulates or prohibits taking, killing, possession of, or harm to migratory bird species listed in Title 50 Code of Federal Regulations (CFR) Section 10.13. The MBTA is an international treaty for the conservation and management of bird species that migrate through more than one country and is enforced in the United States by the USFWS. Hunting of specific migratory game birds is permitted under the regulations listed in Title 50 CFR 20. The MBTA was amended in 1972 to include protection for migratory birds of prey (raptors).

BALD AND GOLDEN EAGLE PROTECTION ACT

The federal Bald and Golden Eagle Protection Act regulates or prohibits taking, possession, sale, purchase, barter, offer to sell, purchase or barter, transport, export or import, of any bald or golden eagle, alive or dead, including any part, nest, or egg, unless allowed by permit (16 U.S.C. 668(a); 50 CFR 22). "Take" includes pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb (16 U.S.C. 668c; 50 CFR 22.3).

FEDERAL CLEAN WATER ACT (CWA)

Section 404

Section 404 of the CWA identifies the U.S. Army Corps of Engineers (USACE) as the principal authority to regulate activity that could discharge fill or dredge material or otherwise adversely modify wetlands or Waters of the U.S. (WOUS). The USACE implements the federal policy embodied in Executive Order 11990, which, when implemented, is intended to result in no net loss of wetland values or function. U.S. Congress has authorized the Environmental Protection Agency (EPA) to have a specific oversight role over USACE's authority.

Section 401

The State Water Resources Control Board (SWRCB) has authority over wetlands through Section 401 of the CWA, as well as the Porter-Cologne Act, California Code of Regulations Section 3831(k), and California Wetlands Conservation Policy.

The CWA requires that an applicant for a Section 404 permit (to discharge dredged or fill material into waters of the United States) first obtain a certificate from the appropriate state agency stating that the fill is consistent with the State's water quality standards and criteria. In California, the authority to either grant certification or waive the requirement for permits is delegated by the SWRCB to the nine regional boards. The Central Valley Regional Water Quality Control Board (CVRWQCB) is the appointed authority for Section 401 compliance in the project site. The SWRCB additionally requires additional Waste Discharge Requirements under Porter-Cologne to protect aquatic resources that are outside federal jurisdiction.

A request for certification or waiver is submitted to the Regional Board at the same time an application is filed with the USACE. The regional board has 60 days to review the application and act on it. Because no USACE permit is valid under the CWA unless "certified" by the state, these boards may effectively veto or add conditions to any USACE permit.

2.2 STATE LAWS & REGULATIONS

CALIFORNIA ENDANGERED SPECIES ACT (CESA)

The CESA was enacted in 1984. Under the CESA, the California Fish and Wildlife Commission (CFWC) has the responsibility for maintaining a list of threatened and endangered species, while The California Department of Fish & Wildlife (CDFW) is responsible for enforcement. CDFW also maintains lists of species of special concern. A Species of Special Concern (CSC) is a species, subspecies, or distinct population of an animal native to California that currently satisfies one or more of the following (not necessarily mutually exclusive) criteria:

- is extirpated from the State or, in the case of birds, in its primary seasonal or breeding role;
- is listed as Federally-, but not State-, threatened or endangered;
- meets the State definition of threatened or endangered but has not formally been listed;
- is experiencing, or formerly experienced, serious (noncyclical) population declines or range retractions (not reversed) that, if continued or resumed, could qualify it for State threatened or endangered status;
- has naturally small populations exhibiting high susceptibility to risk from any factor(s), that if realized, could lead to declines that would qualify it for State threatened or endangered status.

CESA prohibits the take of California listed animals and plants in most cases, but CDFW may issue incidental take permits under special conditions. Pursuant to the requirements of CESA, a state agency reviewing a project within its jurisdiction must determine whether any state-listed endangered or threatened species could be present in the project site and determine whether the project would have a potentially significant impact on such species. In addition, CDFW encourages consultation on any project that could affect a listed or candidate species.

FISH AND GAME CODE – SECTIONS 1600-1616

Under Sections 1600-1616 of the California Fish and Game Code, the CDFW regulates activities that would alter the flow, bed, channel, or bank of streams and lakes. The limits of CDFW's jurisdiction are defined in the code as the "… *bed, channel or bank of any river, stream, or lake designated by the department in which there is at any time*

an existing fish or wildlife resource or from which these resources derive benefit ..." (Section 1601). In practice, the CDFW usually marks its jurisdictional limit at the top of the stream or bank, or at the outer edge of the riparian vegetation, whichever is wider.

The CDFW also derives its authority to oversee activities that affect wetlands from state legislation. This authority includes Sections 1600-1616 of the Fish and Game Code (lake and streambed alteration agreements), Section 30411 of the California Coastal Act (CDFW becomes the lead agency for the study and identification of degraded wetlands within the Coastal Zone), CESA (protection of state listed species and their habitats - which could include wetlands), and the Keene-Nejedly California Wetlands Preservation Act of 1976 (states a need for an affirmative and sustained public policy program directed at wetlands preservation, restoration, and enhancement). In general, the CDFW asserts authority over wetlands within the state either through review and comment on USACE Section 404 permits, review and comment on CEQA documents, preservation of state listed species, or through stream and lakebed alteration agreements.

FISH AND GAME CODE – SECTIONS 1900-1913

These Sections embody the Native Plant Protection Act, which is intended to preserve, protect, and enhance endangered or rare native plants in the state. The act directs CDFW to establish criteria for determining what native plants are rare or endangered. Under Section 1901, a species is endangered when its prospects for survival and reproduction are in immediate jeopardy from one or more causes. A species is rare when, although not threatened with immediate extinction, it is in such small numbers throughout its range that it may become endangered if its present environment worsens. Under the act, CDFW may adopt regulations governing the taking, possessing, propagation or sale of any endangered or rare native plant.

Section 1913 of that Act allows landowners in conducting certain activities to take actions that will destroy rare or endangered plants, provided that, where the Department of Fish and Game (DFG) has previously notified the owner "that rare or endangered plants are growing" on his or her land, the owner notifies CDFW "at least 10 days in advance of changing the land" to allow the state agency to come and "salvage" the plants. Subject to this requirement, section 1913 states that "the presence of rare or endangered plants" on a property shall not restrict (1) timber operations conducted pursuant to an approved timber harvest plan, (2) "required mining assessment work pursuant to federal or state mining laws," (3) "the removal of endangered or rare native plants from a canal, lateral ditch, building site, or road, other right-of-way by the owner of the land or his agent," or (4) "the performance by a public agency or publicly or privately owned public utility of its obligation to provide service to the public."

FISH AND GAME CODE – SECTIONS 3503, 3503.5, 3513

Fish and Game Code Section 3503 states that it is unlawful to take, possess, or needlessly destroy the nests or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto. Fish and Game Code Section 3503.5 protects all birds-of-prey (raptors) and their eggs and nests. Section 3513 states that it is unlawful to take or possess any migratory non-game bird as designated in the Migratory Bird Treaty Act.

FISH AND GAME CODE – SECTIONS 3511, 4700, 5050, AND 5515

Sections 3511 (birds), 4700 (mammals), 5050 (reptiles and amphibians), and 5515 (fish) of the California Fish and Game Code designate certain species as "fully protected." Fully protected species, or parts thereof, may not be taken or possessed at any time, and no provision of the CFWC or any other law may be construed to authorize the issuance of permits of licenses to take any fully protected species. No such permits or licenses heretofore issued may have any force or effect for any such purpose, except that the CFGC may authorize the collecting of such species for necessary scientific research. Legally imported and fully protected species or parts thereof ay be possessed under a permit issued by CDFW.

CALIFORNIA PORTER-COLOGNE WATER QUALITY CONTROL ACT

The Porter-Cologne Water Quality Control Act established the SWRCB and each Regional Water Quality Control Board (RWQCB) as the principal state agencies for coordinating and controlling water quality in California. Responsibility for the protection of water quality in California rests with the SWRCB and nine RWQCBs. The SWRCB establishes statewide policies and regulations for the implementation of water quality control programs mandated by federal and state water quality statutes and regulations. Pursuant to the Act, each of California's nine regional boards must prepare and periodically update basin plans that set forth water quality standards for surface and groundwater, as well as actions to control point and non-point sources of pollution to achieve and maintain these standards. Basin plans offer an opportunity to achieve wetlands protection through enforcement of water quality standards.

The Porter-Cologne Water Quality Control Act provides that "All discharges of waste into the waters of the State are privileges, not rights." Waters of the State are defined in Section 13050(e) of the Porter-Cologne Water Quality Control Act as "…any surface water or groundwater, including saline waters, within the boundaries of the state." All dischargers are subject to regulation under the Porter-Cologne Water Quality Control Act, including both point and nonpoint source dischargers. The RWQCB has the authority to implement water quality protection standards through the issuance of permits for discharges to waters at locations within its jurisdiction, which would include the project site. As noted above, the RWQCB is the appointed authority for Section 401 compliance in the project site. If the USACE determines that they have no regulatory authority on the project site and they also determine that a CWA Section 404 permit is not required, the project proponent could still be responsible for obtaining the appropriate CWA Section 401 permit or waiver from RWQCB for impacts to Waters of the State.

In 2019, the State Water Resource Control Board extended their water quality certification to include waste discharge requirements as adopted in the "State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State," which include elements of the Clean Water Act. These procedures also lay out the steps for the submission, review, and approval of applications for activities related to these activities.

CALIFORNIA ENVIRONMENTAL QUALITY ACT

Although specific federal and state statutes protect threatened and endangered species, California Environmental Quality Act (CEQA) Guidelines Section 15380(b) provides that a species not listed on the federal or state list of protected species may be considered rare or endangered if the species can be shown to meet certain criteria. These criteria have been modeled after the definition in FESA and the section of the California Fish and Game Code

dealing with rare or endangered plants and animals and allows a public agency to undertake a review to determine if a significant effect on a species that has not yet been listed by either the USFWS or CDFW (i.e., species of concern) would occur. Whether a species is rare, threatened, or endangered can be legally significant because, under CEQA Guidelines Section 15065, an agency must find an impact to be significant if a project would "substantially reduce the number or restrict the range of an endangered, rare, or threatened species." Thus, CEQA provides an agency with the ability to protect a species from a project's potential impacts until the respective government agencies have an opportunity to designate the species as protected, if warranted.

2.3 LOCAL LAWS AND REGULATIONS

CITY OF DAVIS TREE PRESERVATION ORDINANCE, MUNICIPAL CODE, CHAPTER 37

The City of Davis mandates that proposed development plans and specifications shall prepare a tree preservation and protection plan for existing trees to be preserved for the project. Any tree care practices, such as cutting of roots or pruning, should be adequately described in the plan will be approved by the Urban Forest Manager or Parks and Community Services representative.

37.04.020 TREE PROTECTION.

A. Property owner shall maintain Canopy coverage of existing Trees on developed property. Trees that die from natural causes shall be replaced within 6 months of death.

B. No person shall Remove, conduct Major Pruning, including Roots, encroach with impermeable surfaces, or substantially alter the existing landscape within the Tree Protection Zone, top or relocate any Private Tree unless an approved Tree Removal 9 Request and/or Tree Modification Permit has been issued. Minor Pruning does not require a Tree Modification Permit.

The City of Davis protects the following categories of trees:

Landmark Trees: Any tree which has been determined by resolution of the City Council to be of high value because of its species, size, age, form, historical significance, or some other professional criterion. The Landmark Tree List, available from the Parks and Community Services Department, lists and identifies these trees.

Trees of Significance: Any tree which measures 5 inches or more in Diameter at Breast Height (4'-6" above ground height).

Street Trees: Any tree planted and/or maintained by the City, or recorded as a street tree, adjacent to a street or within a city easement or right-of-way, on private property, within the street tree easement. The Parks & Community Services Department maintains a master list of street trees. City Trees:

Any tree, other than a street tree, planted or maintained by the City within a City easement, right-of way, park, greenbelt, public place or property owned or leased by the City.

Private Tree: Any tree privately owned and growing on private property, which may include a tree designated as a landmark tree and/or tree of significance, as defined within the definitions section of the Tree Ordinance, Chapter 37.

37.02.040 STREET TREES PLANTED BY DEVELOPER

Developers are required to provide and plant Street Trees within the Planting Strip; one city Street Tree shall be planted for each lot fronting a public street and two Trees per corner lot, unless adequate Street Trees already exist or conflicts with City infrastructure make planting infeasible. Street Trees shall shade at least 30 percent of total street paved surface at fifteen-year growth of the Tree Canopy.

Developers are required to deposit a Street Tree fee, as established by the city council by resolution, for use by the city during an initial three-year establishment period and after any warranty period assigned to the project has expired.

YOLO HABITAT CONSERVATION PLAN/ NATURAL COMMUNITY CONSERVATION PLAN

The Yolo Habitat Conservation Plan/Natural Community Conservation Plan (Yolo HCP/NCCP provides Endangered Species Act permits for 12 species (white-tailed kite, Palmate-bracted bird's beak, valley elderberry longhorn beetle, western yellow-billed cuckoo, California tiger salamander, western burrowing owl, western pond turtle, least Bell's vireo, giant garter snake, bank swallow, Swainson's hawk, and tricolored blackbird) and associated mitigation for infrastructure (e.g. roads, bridges, and levees) and development activities (e.g. agricultural facilities, housing, and commercial buildings) (Figure 2). In return for permit coverage, the Conservancy charges project components a land cover fee.

3.0 METHODOLOGY

We queried the U.S. Fish & Wildlife Service's *National Wetland Inventory* (NWI; Figure 4); EcoAtlas' *California Aquatic Resources Inventory* (CARI; Figure 5); the NRCS *Web Soil Survey* (Appendix A; Figure 4); and the *Hydric Soil Map Units* Yolo County, California prior to our field surveys to determine whether any wetlands or "other waters of the U.S.," "waters of the State," or soils compatible with wetland resources had been historically recorded on or around, or are likely to occur on the site, as defined by the 1987 U.S. Army Corps of Engineers (USACE, 1987) *Wetlands Delineation Manual* and its 2008 *Arid West Regional Supplement.* We also assessed potentially federal and/or state jurisdictional wetlands and "other waters of the U.S." in the Study Area in accordance with the 2014 Corps *Field Guide to the Identification of the Ordinary High Water Mark (OHWM) for Non-perennial Streams in the Arid West Region of the Western United States*.

To help anticipate which potential biological resources may be present on the property, we queried the following online sources for information on the Study Area's potential plant and wildlife communities.

1. California Department of Fish & Wildlife's Natural Diversity Database (RareFind 5) for observations of special status plant and animal species within five miles of the Study Area (Figure 6; Appendix D),
2. U.S. Fish and Wildlife Service's iPac Database of federally-listed special status species in Alameda County (Appendix E),
3. The California Native Plant Society's Inventory of Rare & Endangered Plants in California

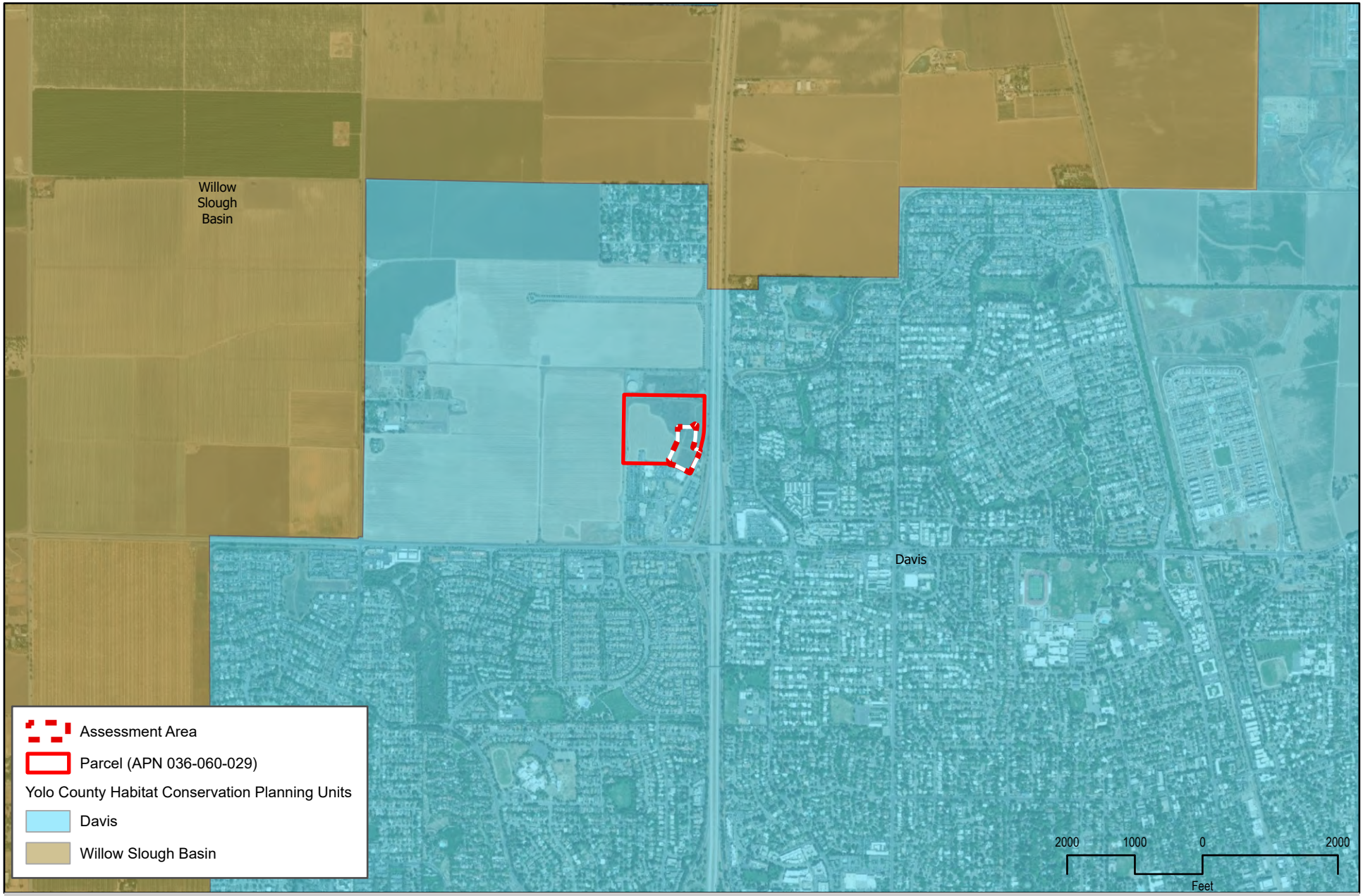

FIGURE 2 - YOLO COUNTY HABITAT CONSERVATION PLAN COVERAGE

Date: May 26, 2022

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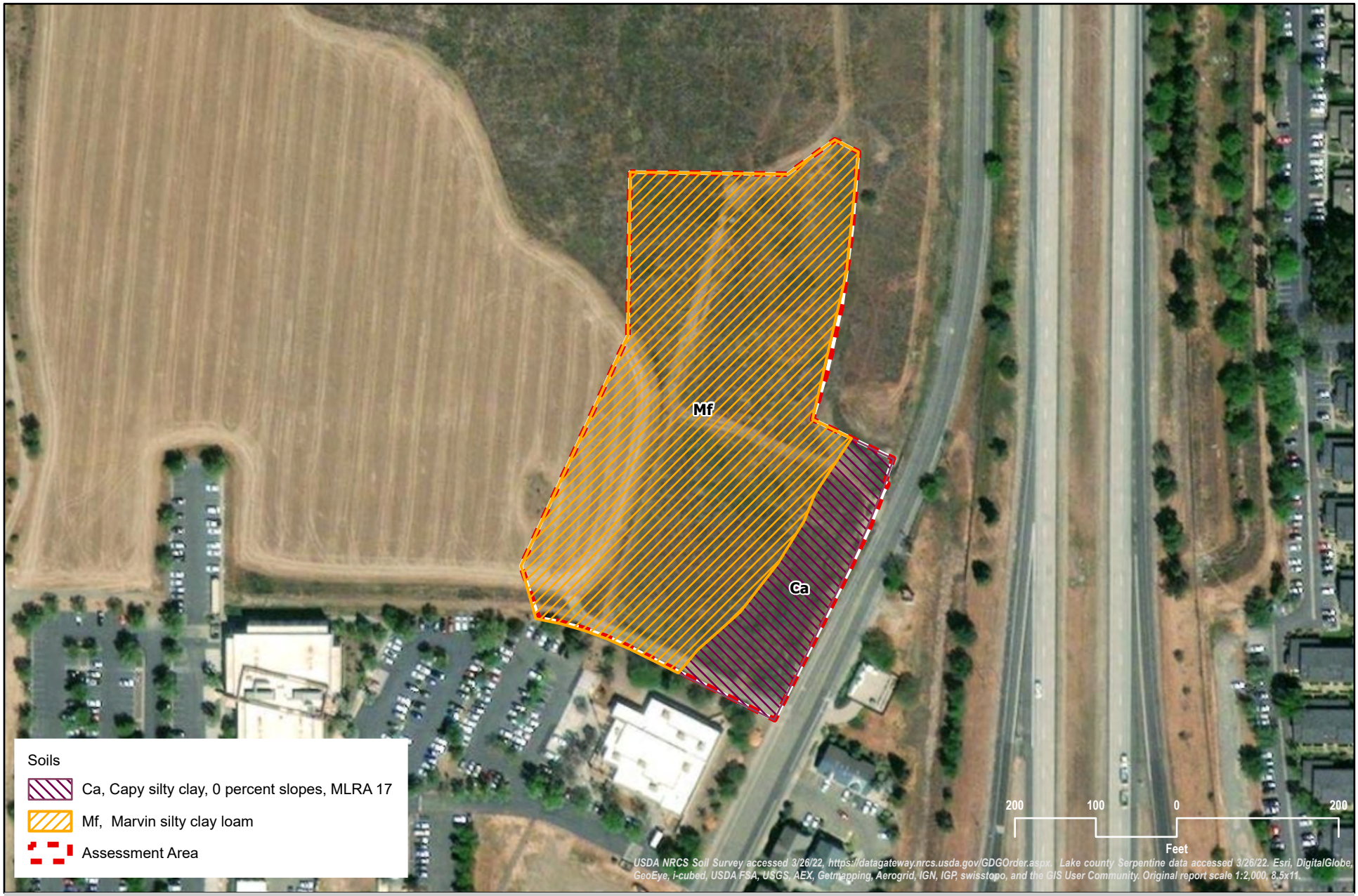

FIGURE 3 - NRCS MAPPED SOILS

Date: April 25, 2022

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A Barnett Environmental biologist surveyed the Study Area on April 29, 2022, for special status plant and wildlife species and their habitats that could occur there. The survey included recorded observations of: (1) dominant plant communities, (2) plant and animal species (with emphasis on rare and endangered species) observed or their sign (nests, burrows, tracks, scat) and (3) the suitability of onsite habitats and those immediately adjoining the Study Area to support special status plant or animal species. We used generalized plant community classification schemes to classify onsite habitat types (Sawyer, Keeler-Wolf, and Evens, 2009).

4.0 EXISTING CONDITIONS

4.1 SOILS

According to Natural Resource Conservation Service (NRCS), the Study Area is comprised of three soil types (Figure 3; Appendix A):

1. Brentwood silty clay loam, 0 to 2 % slopes
2. Capay silty clay, 0% slopes, MLRA 17
3. Marvin silty clay loam

Brentwood silty clay loam, 0-2% slopes, occurs on alluvial fans at elevations ranging from 50 – 400 feet above mean sea level (msl). Alluvium derived from sedimentary rocks is the parent material of these soils. A typical profile consists only of silty clay loam. The depth to the water level is typically more than 80 inches, and these soils are well-drained and have a moderately high permeability – 0.20 to 0.57 inches/hour – with a medium run-off rate. They have no ponding or flooding frequency.

Capy silty clay, 0% slopes, MLRA 17, soils occur on basin floors at elevations ranging from 20 – 180 feet above mean sea level (msl). Silty and clayey alluvium weathered from igneous, metamorphic, and sedimentary rock. A typical profile consists of silty clay layers. The depth to the water level is typically more than 80 inches, and these soils are moderately well drained and have a moderately low to moderately high permeability – 0.06 to 0.20 inches/hour – with a high run-off rate. They have no flooding frequency but do have a high frequency of ponding.

Marvin silty clay loam, soils occur on rims on basin floors at elevations ranging from 20 – 100 feet above mean sea level (msl). The parent material is mixed silty and clayey loam. A typical profile consists of silty clay loam & silty clay. The depth to the water level is typically more than 80 inches, and these soils are somewhat poorly drained and have a moderately low to moderately high permeability – 0.06 to 0.20 inches/hour – with a high run-off rate. They have no ponding or flooding frequency.

4.2 HYDROLOGY

The project site sits at an elevation between 36 and 40 feet above mean sea level (msl) within the Lower Sacramento (Hydrologic Unit Code 18020163). Water generally flows overland from the north/northwest to a drainage ditch along the eastern border of the Study Area. Hydrologic inputs onto the Study Area include direct precipitation and sheet-flow runoff from surrounding uplands and water entering by way of the drainage.

4.3 WETLANDS AND "OTHER WATERS OF THE U.S." AND "WATERS OF THE STATE"

Neither the National Wetlands Inventory (NWI; Figure 4) nor the California Aquatic Resources Inventory (CARI; Figure 5) map shows show any aquatic resources on the property. However, the Barnett Environmental field survey on the parcel found 0.027 acres (1,176 square feet) of waters of the state and "waters of the U.S." in the Study area, and 0.019 acres (816 square feet) in the parcel (Figure 5, Existing Conditions).

TABLE 1: "OTHER WATERS OF THE U.S."

OTHER WATERS OF THE U.S.	ACRES	SQUARE FEET
North drainage ditch (inside Study Area)	0.027	1,176
South drainage ditch	0.019	816
TOTAL	**0.046**	**1,992**

The "waters" consist of an existing drainage ditch along the proposed development area's eastern boundary. The largest and most distinctive of these flows into/out of a large culvert under John Jones Road along a N/S alignment just E of the eastern proposed development boundary. A smaller, less defined ditch also runs in a N/S direction within the southeastern development boundary, south of the culvert, as shown in Figure 6.

4.4 VEGETATION COMMUNITIES

Ruderal Grassland – This habitat type in the proposed expansion area includes non-native annual grasses such as ripgut brome (*Bromus diandrus*), soft chess (*B. mollis*) filaree (*Erodium, sp.*), medusahead (*Taeniatherum asperum*), and wild oat (*Avina fatua*), as well as non-native weed species such as mustard (*Brassica nigra*) perennial pepperweed (*Lepidium latifolium*), Russian thistle (*Salsola tragus*), yellow-star thistle (*Centaurea solstitialis*), field bindweed (*Convolvulus arvensis*), poison hemlock, (*Conium maculatum*), prickly lettuce (*Lactuca serriola*).

The annual grasslands may support nesting birds such as western meadowlark (*Sturnella neglecta)* and horned lark (*Eremophila alpestris)* and provides foraging habitat for lark sparrow (*Chondestis grammacus)*, savannahh sparrow (*Passerculus sandwichensis)*, rufous-crowned sparrow (*Aimophila rucifes)*, lesser goldfinch (*Spinus psaltria)*, American pipit (*Anthus rubescens)*, and other grassland species. This grassland habitat could also provide nesting substrate for California burrowing owls (*Athene cunicularia*) that could occupy vacant California ground squirrel or rabbit dens. The grassland can also provide habitat for the California vole (*Microtus californicus)*, California deer mouse (*Peromyscus californicus)*, pocket gopher, and other small mammals. These rodents are prey



FIGURE 4 - NATIONAL WETLANDS INVENTORY (NWI) WETLANDS

Date: April 25, 2022

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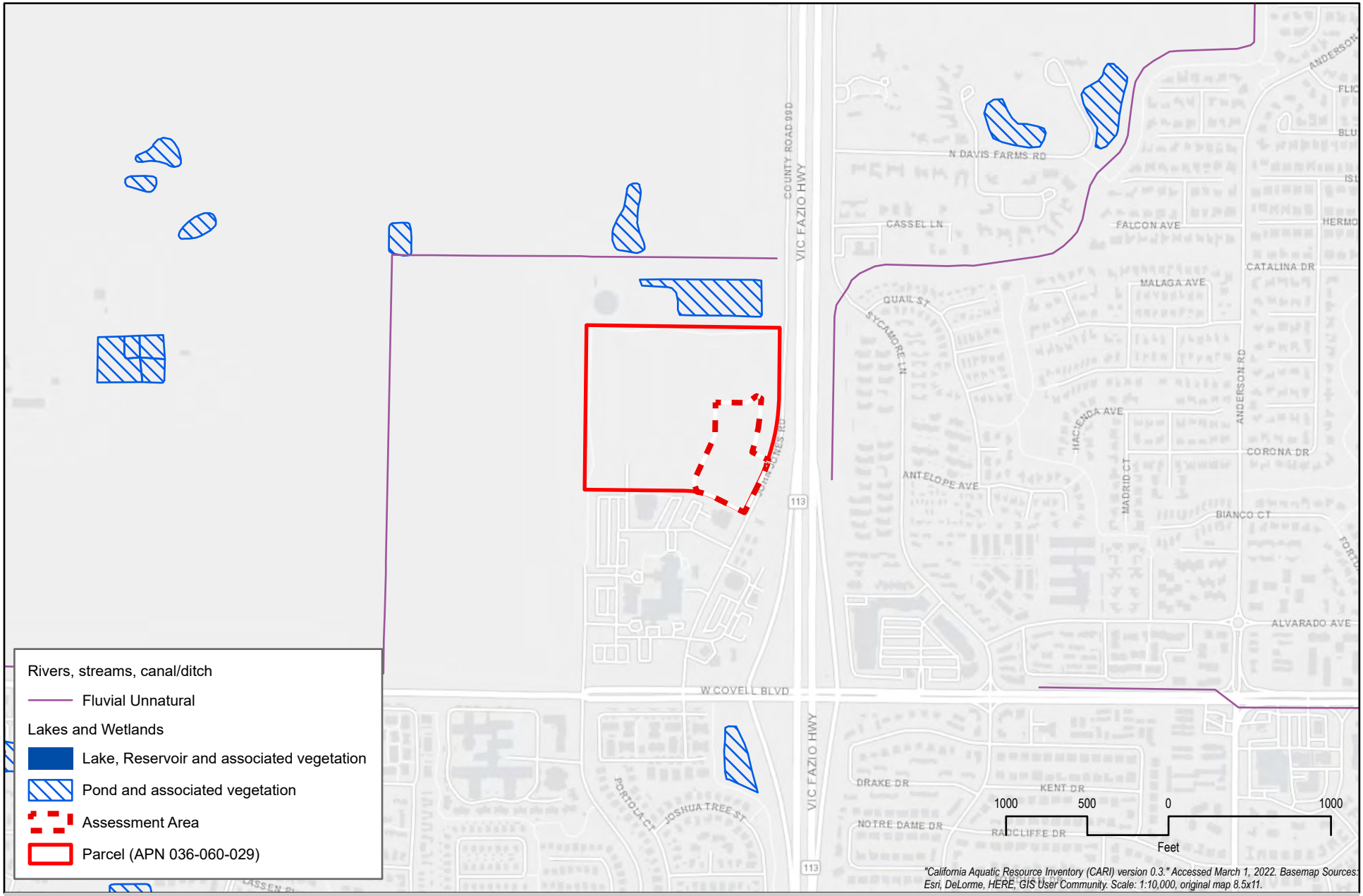

FIGURE 5 - CALIFORNIA AQUATIC RESOURCES INVENTORY (CARI) WETLAND

Date: April 25, 2022

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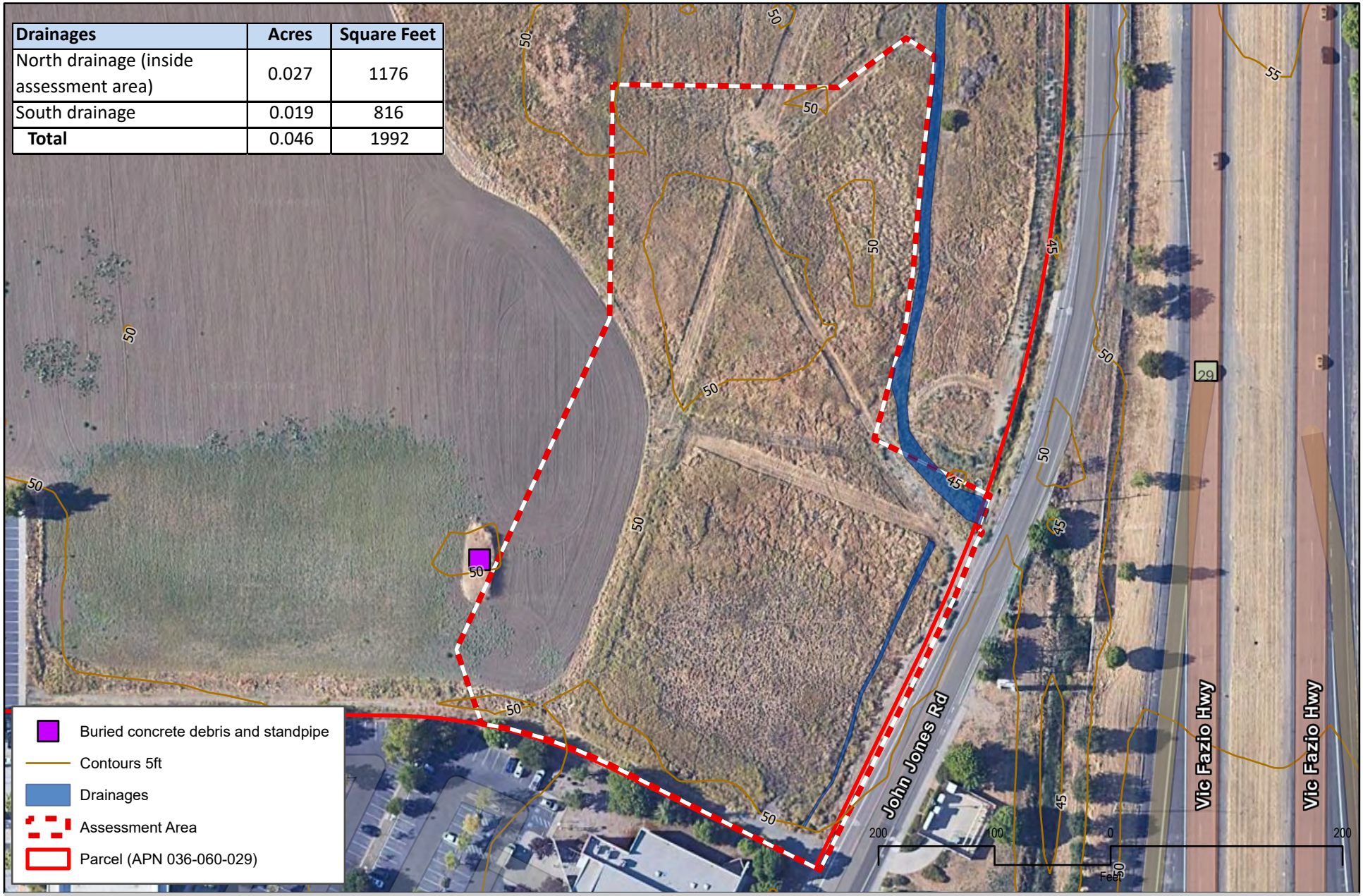

FIGURE 6 - EXISTING CONDITIONS

Date: May 07, 2022

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for common raptors such as red-tailed hawks (*Buteo jamaicensis)* and red-shouldered hawks (*Buteo lineatus)*, great horned owls (*Bubo virginianus)* , coyotes, bobcats, gopher snakes, rattlesnakes, and other predators.

4.5 WILDLIFE

Ground rodents (California vole, deer mice, black rats, ground squirrels, and jackrabbits) could occur in the Study Area, and fence lizards and skinks are possible habitants in and around the concrete debris. Other common species with potential to occur in a vacant lot in the outskirts of town are racoon, skunk, opossum, coyote, gray fox, and bobcat. The usual complement of human-adapted bird species would likely overfly the parcel at some point during the year, such as the red-tailed hawk (Buteo jamaicensis), white-tailed kite, and Swainson's hawk.

5.0 SPECIAL STATUS SPECIES

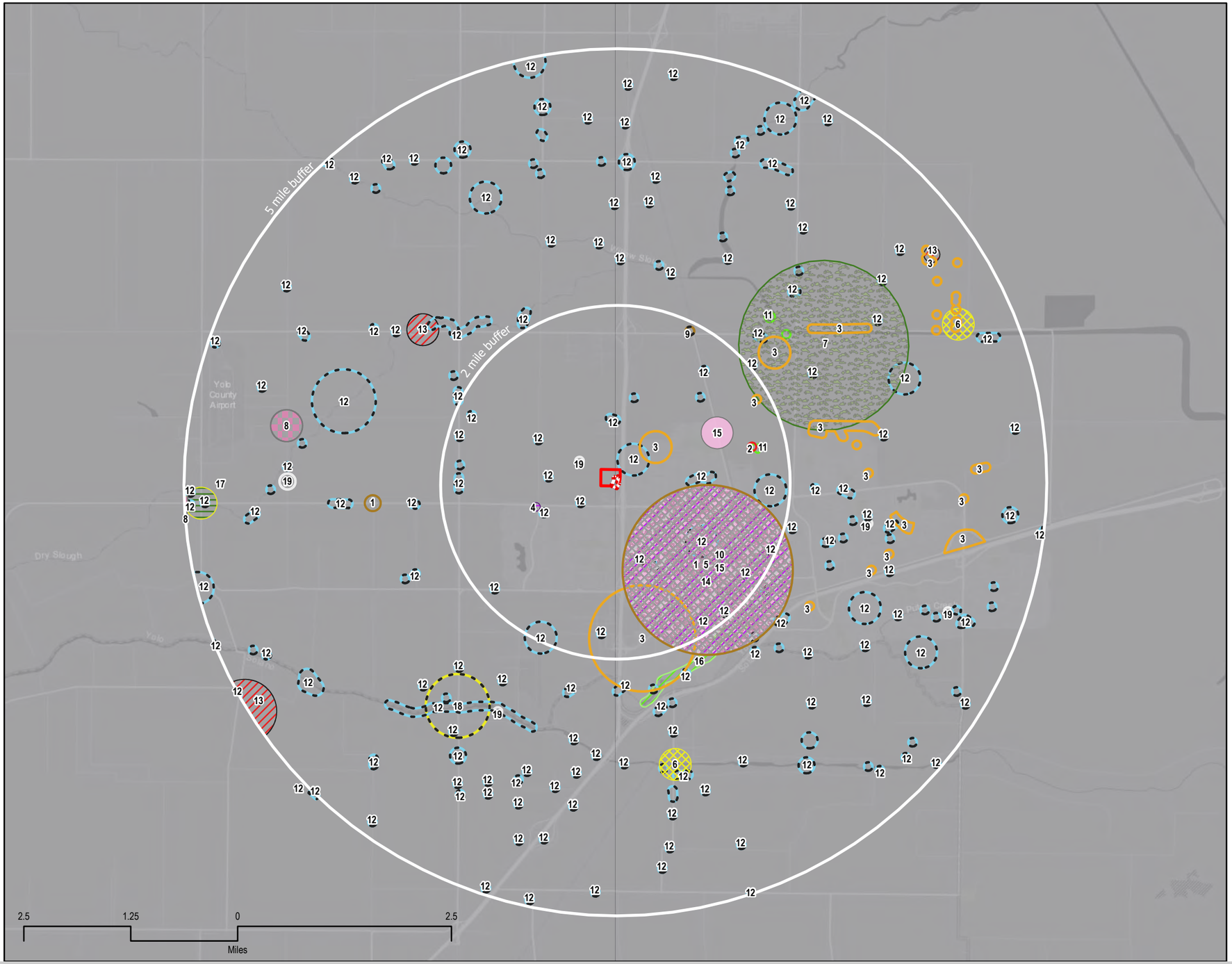
Special status species are those that fall into one or more of the following categories:

- Listed as endangered or threatened under the Federal Endangered Species Act (FESA) (50 CFR 17.11/17.12) (or formally proposed for listing) (64 FR 205, October 25, 1999; 57533-57547),
- Listed as endangered or threatened under the California Endangered Species Act (CESA) (or proposed for listing) (14 California Code of Regulations [CCR] 670.5),
- Designated as rare, protected, or fully protected pursuant to California Fish and Game Code (FGC, Section 3511 [birds], 4700 [mammals], and 5050 [reptiles and amphibians]).
- Designated a Species of Concern by the California Department of Fish and Game,
- Defined as rare or endangered under the California Environmental Quality Act (CEQA), or
- Occurring on List 1 or 2 maintained by the California Native Plant Society.

We reviewed California Natural Diversity Database (CNDDB), California Native Plant Society (CNPS) Inventory, and U.S. Fish & Wildlife Service (FWS) iPAC database for special status species potentially occurring within the project vicinity (i.e. five-mile radius). While there may be a number of plant and animal species occurring within five miles of the Study Area (Figure 6), we can refine the list of those species with any real potential of occurring in the Study Area by filtering our query for relevant onsite habitats, locations, and elevations. A summary of the results of this query can be found in Table 2.

5.1 CRITICAL HABITAT FOR SPECIAL STATUS SPECIES

The Federal Endangered Species Act (FESA) requires the federal government to designate critical habitat for any listed species. Critical habitat is defined as: (1) specific areas within the geographical area occupied by the species at the time of listing, if they contain physical or biological features essential to conservation, and those features may require special management considerations or protection; and (2) specific areas outside the geographical area occupied by the species if the agency determines that the area itself is essential for conservation. There is no designated critical habitat within five miles of the Study Area.



Detail Map



- American badger, 1
- brittlescale, 2
- burrowing owl, 3
- California tiger salamander - central California DPS, 4
- Ferris' milk-vetch, 5
- giant gartersnake, 6
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- valley elderberry longhorn beetle, 14
- vernal pool tadpole shrimp, 15
- western pond turtle, 16
- western spadefoot, 17
- western yellow-billed cuckoo, 18
- white-tailed kite, 19
- Assessment Area
- Parcel (APN 036-060-029)

CNDDB version March 2022. The occurrences shown on this map represent the known locations of the species listed here as of the date of this version. There may be additional occurrences or additional species within this area which have not yet been surveyed and/or mapped. Lack of information in the CNDDB about a species or an area can never be used as proof that no special status species occur in an area CDFW. https://www.wildlife.ca.gov/Data/CNDDB Accessed March 1, 2022. Sources: Esri, DeLorme, HERE. Scale: 1:78,000, original map 11x17.

FIGURE 7 - CALIFORNIA NATIONAL DIVERSITY DATABASE (CNDDB) RECORDED SPECIES OBSERVATION

Date: April 25, 2022

COMMUNICARE HEALTH CENTER EXPANSION • YOLO COUNTY, CA

begreenlegal

TABLE 2: SPECIAL STATUS SPECIES WITH POTENTIAL TO OCCUR IN THE PROJECT AREA

Birds						
Species	**Federal**	**State**	**CNPS**	**Habitat**	**Potential for Occurrence**	**Rationale for Assessing Potential**
burrowing owl *Athene cunicularia*		SSC		Burrowing owls live in burrows dug by other animals in open, treeless spaces. Favored nest burrow sites are those with sandy locations and areas with low vegetation around the burrows.	Very low	Burrowing owls could potentially occur in unoccupied ground squirrel or jackrabbit dens on the uncultivated, grassland portions of the site if grasses are kept low. There have been 15 reported CNDDB occurrences within five miles of the Study Area. The closest was 0.475 miles to the east in 1990. The most recent occurrence was in 2016, 1.89 miles to the south/southeast. There was no sign of this species during the April 2022 site visit.
white-tailed kite *Elanus leucurus*		FP		Found in a wide variety of open habitats in North America, including open oak grassland, desert grassland, farm country, marshes. The main requirements seem to be trees for perching and nesting, and open ground with high populations of rodents.	Very low	The Study Area could provide potential foraging habitat for this species. The have been five reported CNDDB occurrences within five miles of the Study Area. The most recent was in 2003, 2.91 miles to the west of the Study Area, and the closest was 0.424 miles to the northwest. There was no sign of this species during the Barnett April 2022 field survey.
Swainson's hawk *Buteo swainsoni*		CT		Open areas like savannas, grasslands, steppes, and cultivated lands.	Very low	The site provides potential foraging habitat for Swainson's habitat. There are 147 reported occurrences within five miles of the Study Area. The most recent was in 2016, 1.76 miles to the west. Barnett Environmental saw no sign of this species during its April 2022 site visit.
northern harrier *Circus cyaneus*		SSC		These birds inhabit grasslands, fields, marshes, upland prairies, savannas and alpine meadows. They also occur in wetland habitats and upland habitats such as desert steppe. They avoid forested and mountainous areas.	None	The high disturbance of the field likely precludes the presence of this species. There was only one reported CNDDB occurrence within five miles of the Study Area, which was 1.97 to the northeast of the Study Area. There was no sign of this species during the Barnett Environmental April 2022 field survey.

Mammals						
Species	**Federal**	**State**	**CNPS**	**Habitat**	**Potential for Occurrence**	**Rationale for Assessing Potential**
American badger *Taxidea taxus*		SSC		Badgers live in dry, open grasslands, fields, and pastures. They can also live in deserts and marshes. They are found from high alpine meadows to sea level. Mostly nocturnal, but can be seen being active in early morning.	None	Badgers would be deterred from the Study Area due to its high disturbance. The are 12 reported CNDDB occurrences within five miles of the Study Area. The most recent was in 1997, 2.68 miles to the west of the Study Area, and the closest was 0.424 miles to the northwest. There was no sign of this species during the Barnett Environmental April 2022 field visit.

Special Status Species Codes:

FE = Federally listed as Endangered
FT = Federal listed as Threatened
CE = State listed as Endangered
CT = State listed as Threatened
Rare = State listed as Rare
FP = State, Fully Protected
SSC = State Species of Special Concern

1B.1 = Plants rare, threatened, or endangered in California and elsewhere; seriously threatened in California
1B.2 = Plants rare, threatened, or endangered in California and elsewhere; fairly threatened in California
2B.1 = Plants rare, threatened, or endangered in California, but more common elsewhere; seriously threatened in California
2B.2 = Plants rare, threatened, or endangered in California, but more common elsewhere; fairly threatened in California

Potential for Occurrence Codes:

None: No suitable habitat for the special status species within the Assessment Area

Very Low: Either the special status species is known to occur within five miles and there is marginal suitable habitat exists in the Assessment Area, or the Assessment Area provides suitable habitat, but the species is not known to occur within a five-mile radius.

Low: Marginally suitable habitat exists in the Assessment Area and the special status species occurs within 5 miles but surrounding urban land use conditions and regularity of human activity make it unlikely that the species occurs in the Assessment Area.

Moderate: The special status species is known to occur within a five-mile radius and the Assessment Area contains suitable habitat, however surrounding urban land use conditions and onsite disturbance reduce the likelihood of occurrence.

High: The Assessment area provides suitable habitat and there is either documentation of species occurrence within a five-mile radius or evidence gathered by a professional surveyor during an onsite field assessment.

Present: Species known to occur within the Assessment Area based on record search and/or evidence collect during onsite field surveys.

STATE-LISTED SPECIES

There is only one state-listed species with the potential to occur in the Study Area (Table 2):

1. **Swainson's hawk** *(Buteo swainsoni)* – This raptor is listed as threatened by the state of California. Swainson's hawk is a medium sized raptor, approximately 19-22 inches in length and weighing between 1.5 to 3.5 pounds. Light-morph adults are white on the underparts with a dark, reddish "bib" on the chest and a noticeable white throat and face patch, while dark-morph birds are dark brown except for a light patch under the tail. Its habitat is great basin grassland, riparian forest and woodlands, valley and foothill grassland. Swainson's hawk breeds in grasslands with scattered trees, juniper-sage flats, savannahs, and agricultural or ranch lands with groves or lines of trees. The Study Area could provide marginal foraging habitat for this species. There are 147 reported CNDDB occurrences within five miles of the Study Area. The closest was 0.475 miles to the east in 1990. The most recent was in 2016, 1.89 miles to the south/northeast. There was no sign of Swainson's hawks during the Barnett Environment April 2022 site visit, though they are common in this area during the breeding season in this area (May – August).

CALIFORNIA SPECIES OF SPECIAL CONCERN

There is only one California Species of Special Concern have the potential to occur in the Study Area.

1. **Western burrowing owl** *(Athene cunicularia)* – The western burrowing owl is a species of special concern in California. It is a small, long-legged owl, ranging from seven to 10 inches in height. They have a round head, white eyebrows, yellow eyes, and long heads. Burrowing owls can be found in grasslands, rangelands, agricultural areas, deserts, or any other open dry area with low vegetation. They nest and roost in burrows, such as those excavated by prairie dogs. Burrowing owls could potentially occur in unoccupied ground

squirrel or jackrabbit dens on the uncultivated, grassland portions of the site if grasses are kept low. This was not the case at the time of the April 29, 2022 field survey. Grasses were high, which would likely preclude owl occupancy at this location, along with relatively high levels of disturbance from nearby human activity (adjacent farming & Sutter Health Center). There have been 15 reported CNDDB occurrences within five miles of the Study Area. The closest was 0.475 miles to the east in 1990. The most recent occurrence was in 2016, 1.89 miles to the south/southeast. There was no sign of *western burrowing owl* during the Barnett Environmental April 2022 site visit.

CALIFORNIA FULLY PROTECTED SPECIES

There is only one California fully protected species with the potential to occur in the Study Area.

1. **White-tailed kite** *(Elanus leucurus)* – This raptor is a fully protected species in California. It is a small to medium-sized raptor with narrow, pointed wings and a long tail. When perched, it looks rather big-headed with a long and skinny body. This species is easily identified by its entirely white tail, red eyes, and black shoulder patches. It occurs in open grasslands, fields, and meadows. Isolated trees in close proximity to foraging habitat are used for perching and nesting. The Study Area could provide potential foraging habitat for this species. The have been five reported CNDDB occurrences within five miles of the Study Area. The most recent was in 2003, 2.91 miles to the west of the Study Area, and the closest was 0.424 miles to the northwest. Barnett Environmental saw no sign of the white-tailed kite during its visit in April 2022.

6.0 MITIGATION MEASURES FOR POTENTIAL IMPACTS

The following measures shall be taken to mitigate for any potential impacts to special status species.

6.1 SWAINSON'S HAWK MITIGATION MEASURE

No Swainson's hawks were observed during the April 2022 field survey; however, a preconstruction raptor survey during the breeding period to determine presence or absence of this, or any other raptor species that may be present either in, or within a 500' buffer of the Study Area. Therefore, prior to issuance of a grading permit for development:

1. A pre-construction nesting bird survey shall be conducted on-site within 15 days prior to construction if construction associated with the project would commence between March 1st and September 1st (i.e., the formally recognized start/end of the nesting season). If disturbance associated with the project would occur outside of the nesting season, no surveys shall be required.

2. If Swainson's hawk are identified as nesting within the Study Area, a sufficient buffer (to be determined in consultation with CDFW) shall be established. The buffer shall be delineated with orange construction fencing. Disturbance within the buffer shall be postponed until an approved biologist has determined that the young have either fledged the nest or that the nesting cycle has otherwise been completed or aborted.

6.2 SPECIAL-STATUS BIRD SPECIES MITIGATION MEASURE

A qualified biologist would conduct nesting bird surveys within 30 days of initiation of ground disturbance activities within the proposed construction footprint (plus predetermined buffer) suitable habitat (and within the appropriate nesting season) throughout the project site to avoid impacts to nesting birds associated with construction. Surveys shall be conducted prior to ground disturbing activities. If an active nest is located, all clearing and construction within 300 feet of the nest (500 feet for raptor nests) or as designated appropriate by a biological monitor, shall be postponed until the nest is vacated and juveniles have fledged, and there is no evidence of a second attempt at nesting, as determined by a qualified biologist. Limits of construction to avoid a nest should be established in the field with flagging and stakes or construction fencing. Construction personnel should be instructed on the sensitivity of the area. The project proponent should record the results of the recommended protective measures described. Additional surveys would then be conducted if ground-disturbing activities are delayed due to active bird nesting, until the qualified biologist determines that the young associated with an active nest have fledged.

7.0 CONCLUSIONS

The Study Area contains 0.027 acres (1,176 square feet) of wetlands or "other waters" of the U.S or State within its boundaries. Any development activity causing direct adverse impacts to these features could require the following resource permits

1. Federal permits under the U.S Clean Water Act, Section 401 (Water Quality Certification) from the Regional Water Quality Control Board and Section 404 (Dredge & Fill) from the Army Corps of Engineers;
2. State wetland-related permits under the Regional Water Quality Control Board's Waste Discharge Requirements and CA Fish & Game Code's Section 1602 Lake & Streambed Alteration Agreement from the California Department of Fish & Wildlife (1602).

There is one state-listed species (Swainson's hawk), one state species of special concern (western burrowing owl), and one state fully protected species (white-tailed kite) that have the potential to occur on site. In order to confirm the presence or absence of these species of special concern, we recommend pre-construction surveys within two weeks of planned construction. Any impact to these species can be permitted through the Yolo County HCP/NCCP. Costs for credits through the Yolo County HCP would be $80,864 per acre for wetland emergent cover and $15,571 per acre for land cover.

8.0 REFERENCES

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Appendix A:
NRCS Soils Report

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Yolo County, California

Communicare Expansion



April 25, 2022

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:1,280 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 15 30 60 90

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Yolo County, California
Survey Area Data: Version 17, Sep 6, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 26, 2019—May 1, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ca	Capy silty clay, 0 percent slopes, MLRA 17	0.7	15.8%
Mf	Marvin silty clay loam	3.8	84.2%
Totals for Area of Interest		**4.6**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Yolo County, California

Ca—Capy silty clay, 0 percent slopes, MLRA 17

Map Unit Setting

National map unit symbol: 2xc8z
Elevation: 20 to 180 feet
Mean annual precipitation: 20 to 24 inches
Mean annual air temperature: 61 to 62 degrees F
Frost-free period: 317 to 326 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Capay and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Capay

Setting

Landform: Basin floors
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty and clayey alluvium derived from igneous, metamorphic and sedimentary rock

Typical profile

Ap - 0 to 11 inches: silty clay
A - 11 to 18 inches: silty clay
Bss1 - 18 to 36 inches: silty clay
Bkss - 36 to 49 inches: silty clay
B'ss2 - 49 to 64 inches: silty clay

Properties and qualities

Slope: 0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: NoneRare
Frequency of ponding: Frequent
Calcium carbonate, maximum content: 1 percent
Maximum salinity: Nonsaline (0.2 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 10.0
Available water supply, 0 to 60 inches: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: C
Ecological site: R017XY901CA - Clayey Basin Group

Hydric soil rating: No

Minor Components

Marvin

Percent of map unit: 4 percent
Hydric soil rating: No

Willows

Percent of map unit: 4 percent
Landform: Basin floors
Hydric soil rating: Yes

Clear lake

Percent of map unit: 4 percent
Landform: Basin floors
Hydric soil rating: Yes

Myers

Percent of map unit: 3 percent
Hydric soil rating: No

Mf—Marvin silty clay loam

Map Unit Setting

National map unit symbol: hdwb
Elevation: 20 to 100 feet
Mean annual precipitation: 20 inches
Mean annual air temperature: 63 degrees F
Frost-free period: 280 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Marvin and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Marvin

Setting

Landform: Rims on basin floors
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Rise, talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Mixed silty and clayey alluvium

Typical profile

H1 - 0 to 12 inches: silty clay loam
H2 - 12 to 41 inches: silty clay
H3 - 41 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: RareNone
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 10.5 inches)

Interpretive groups

Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Rincon

Percent of map unit: 5 percent
Hydric soil rating: No

Capay

Percent of map unit: 5 percent
Landform: Rims
Hydric soil rating: Yes

Pescadero

Percent of map unit: 3 percent
Hydric soil rating: No

Unnamed

Percent of map unit: 2 percent
Hydric soil rating: No

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Appendix B: CNDDB

Multiple Occurrences per Page

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Merritt (3812157))
 AND (Federal Listing Status IS (Endangered OR Threatened) OR State Listing Status IS (Endangered OR Threatened))

Ambystoma californiense pop. 1

Element Code: AAAAA01181

California tiger salamander - central California DPS

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G2G3T3
	State:	Threatened		**State:**	S3
	Other:	CDFW_WL-Watch List, IUCN_VU-Vulnerable			
Habitat:	**General:**	LIVES IN VACANT OR MAMMAL-OCCUPIED BURROWS THROUGHOUT MOST OF THE YEAR; IN GRASSLAND, SAVANNA, OR OPEN WOODLAND HABITATS.			
	Micro:	NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS, AND VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING.			

Occurrence No.	199	**Map Index:** 34038	**EO Index:**	12605	**Element Last Seen:** 1993-01-31
Occ. Rank:	Unknown		**Presence:**	Presumed Extant	**Site Last Seen:** 1993-01-31
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown	**Record Last Updated:** 1996-07-09

Quad Summary: Merritt (3812157)

County Summary: Yolo

Lat/Long:	38.56082 / -121.78655	**Accuracy:**	80 meters
UTM:	Zone-10 N4268740 E605722	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 07, NE (M)	**Acres:**	0.0

Location: SOUTHWEST CORNER OF COVELL BLVD AND LAKE BLVD, IN THE CITY OF DAVIS.

Detailed Location: FOUND IN THE PARKING LOT AT THE WILLOWS APARTMENTS.

Ecological: APARTMENT COMPLEX PARKING LOT LOCATED ACROSS LAKE BLVD FROM "WEST POND" A CITY OWNED WILDLIFE HABITAT AREA MANAGED BY THE YOLO AUDUBON SOCIETY.

General: ONE INDIVIDUAL WAS FOUND IN A PARKING LOT AND CAPTURED ALIVE ON 31 JAN 1993; BECAME A LIVE SPECIMEN AT UC DAVIS DEPARTMENT OF ZOOLOGY

Owner/Manager: PVT

Buteo swainsoni

Element Code: ABNKC19070

Swainson's hawk

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G5
	State:	Threatened		**State:**	S3
	Other:	BLM_S-Sensitive, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern			
Habitat:	**General:**	BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, AND AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.			
	Micro:	REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.			

Occurrence No.	78	**Map Index:**	10468	**EO Index:**	27490	**Element Last Seen:**	2009-07-21
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-07-21
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-29

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.56162 / -121.85803	**Accuracy:**	80 meters
UTM:	Zone-10 N4268749 E599493	**Elevation (ft):**	90
PLSS:	T08N, R01E, Sec. 03, SW (M)	**Acres:**	0.0

Location:	INTERSECTION OF COUNTY ROAD 31 (COVELL BOULEVARD) AND COUNTY ROAD 95, WEST OF DAVIS.
Detailed Location:	1979-1994: TERRITORY #YO011 FROM CDFW DATABASE OF SWHA OBSERVATIONS; EXACT NEST TREE LOCATIONS UNKNOWN. 2001-2005: MAPPED TO UTMS FROM FIELD SURVEY FORMS (RESSEGUIE SITE MERRITT 33). 2007-2009: SAME/ADJACENT TREE AS '05 NEST.
Ecological:	1979-2009: NESTS WITHIN A SMALL EUCALYPTUS GROVE. HABITAT INCLUDED SCRUBBY RIPARIAN ALONG DRY SLOUGH, ALFALFA FIELDS & FALLOW LAND. VISIBLE DISTURBANCE FROM MOWING AND BRUSH CLEARING (2009).
General:	1 FLEDGED, 1979. INACTIVE, 1980. ADULTS OBS/NO NEST FOUND, 1981. ACTIVE/SUCCESS UNKNOWN 1990-91. INCUBATION, POSSIBLE FLEDGLING IN 2002. ACTIVE 2004. INACTIVE 2001, 2005. NEST W/1 YOUNG OBS, 2007. ACTIVE/0 YOUNG OBS IN 2009.
Owner/Manager:	PVT

Occurrence No.	90	**Map Index:**	10676	**EO Index:**	7907	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-28

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.59381 / -121.78859	**Accuracy:**	specific area
UTM:	Zone-10 N4272398 E605496	**Elevation (ft):**	60
PLSS:	T09N, R02E, Sec. 30, SE (M)	**Acres:**	17.0

Location:	DRY SLOUGH, ABOUT 0.25 MILE WEST OF COUNTY ROAD 99 CROSSING, NNW OF DAVIS.
Detailed Location:	1979-94: TERRITORY #YO013 FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS; ALONG SLOUGH NEAR RD 99. 1999-2004: MAPPED TO UTMS GIVEN FOR RESSEGUIE SITES MERRITT 6 (N) & 7 (S). 2007: MAPPED TO SITE YO-226 FROM 2008 ESTEP REPORT.
Ecological:	1979 NEST IN 40' OAK. 1991, '94 NESTS IN COTTONWOODS IN RIPARIAN SURROUNDED BY GRAIN/ROW CROPS USED FOR FORAGING. 2 CONCURRENTLY ACTIVE NESTS IN 1999-04; BOTH IN LARGE COTTONWOODS. HABITAT INCLUDED WALNUT ORCHARD, CROPS, RUDERAL LAND.
General:	2 FLEDGED, 1979. INACTIVE UNTIL 1991; 2 FLEDGED. N NEST ACTIVE/0 YOUNG, 1999. S NEST ACTIVE/0 YOUNG 1999, 2000. INACTIVE, 2001. ADULTS SEEN AT BOTH NESTS '04, WARNING CRIES HEARD, POSSIBLE FLEDGLING. NEST W/1 YOUNG OBS DURING 2007 SURVEY.
Owner/Manager:	PVT

Occurrence No.	91	**Map Index:**	10637	**EO Index:**	27489	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-26

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.59093 / -121.80156	**Accuracy:**	non-specific area
UTM:	Zone-10 N4272065 E604370	**Elevation (ft):**	65
PLSS:	T09N, R02E, Sec. 30, SW (M)	**Acres:**	57.0

Location:	VICINITY OF PLAINFIELD STATION, ALONG DRY SLOUGH NEAR ROAD 98 CROSSING, 3 MILES NW OF DAVIS.
Detailed Location:	NEST SITES ON BOTH SIDES OF RD 98 & AT PLAINFIELD STATION. E SIDE: TERRITORY #YO012 FROM CDFW SWHA DATABASE (1979-88); RESSEGUIE SITE MERRITT 52 (2004); ESTEP YO-227 ('07). W SIDE: #YO143 (1994); MERRITT 8 ('99-2002); YO-228 ('07).
Ecological:	1988: NEST IN COTTONWOOD (CW). 1991: NEST IN CW WITHIN HIGHLY DEGRADED RIPARIAN HABITAT; CULTIVATED LAND TO N & S. 1994: NEST IN FARMYARD EUCALYPTUS. 1999: PRODUCTIVE NEST IN CW. 2001: PAIR DEFENDED A BLACK WALNUT. '02-07 NESTS IN CWS.
General:	YEAR(#YOUNG): 1979(?), '80(2), '81(1), SWHA BUT NO NEST '82-85, '86(1), '87(0), '88(3), '91(?), '94(2), '99(1 FLEDGED/3 ATTEMPTS), 2 FAILED ATTEMPTS 2000, DEFENSIVE PAIR '01, NEST-BUILDING '02, '04(1), '07(1 YOUNG/2 NESTS).
Owner/Manager:	PVT

Occurrence No.	106	**Map Index:**	10683	**EO Index:**	27198	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-18

Quad Summary:	Merritt (3812157)
County Summary:	Solano, Yolo

Lat/Long:	38.52998 / -121.76910	**Accuracy:**	non-specific area
UTM:	Zone-10 N4265338 E607288	**Elevation (ft):**	65
PLSS:	T08N, R02E, Sec. 20 (M)	**Acres:**	11.0

Location:	ALONG PUTAH CREEK ON EITHER SIDE OF HIGHWAY 113, JUST NORTH OF I-80 JUNCTION, AT UC DAVIS.
Detailed Location:	TERRITORIES #YO029 (W SIDE HWY) & #YO240 (E SIDE) FROM CDFW SWHA DATABASE 1979-94. OTHER DETECTIONS ATTRIBUTED TO YO029 AT EO#446. 2003-07 SITE ON W SIDE OF HWY 113, FROM CDFW DATABASE OF NEST RECORDS 2000-04 & SITE YO-269 FROM ESTEP '08.
Ecological:	1994: NEST IN VALLEY OAK IN RIPARIAN CORRIDOR ALONG PUTAH CREEK (YO240); & NEST IN COTTONWOOD ON W SIDE OF HWY (YO029). 2003: NEST IN 30' COTTONWOOD ADJACENT TO UCD SHEEP BARN, SURROUNDED BYCROPLANDS. 2007: NEST IN SAME/ADJACENT COTTONWOOD.
General:	1994: 2 ACTIVE NESTS; PAIR WITH 1 YOUNG AT YO240, PAIR WITH 3 YOUNG AT YO029. NEST WITH 1 DOWNY YOUNG OBSERVED ON 3 JUN 2003. ACTIVE NEST OBSERVED IN 2007; OUTCOME UNKNOWN.
Owner/Manager:	UC-DAVIS

Occurrence No.	108	**Map Index:**	10749	**EO Index:**	7862	**Element Last Seen:**	1992-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1992-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-17

Quad Summary:	Merritt (3812157)
County Summary:	Solano, Yolo

Lat/Long:	38.53255 / -121.75428	**Accuracy:**	80 meters
UTM:	Zone-10 N4265640 E608577	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 16, SE (M)	**Acres:**	0.0

Location:	NORTH SIDE OF OLD DAVIS ROAD, 300 FEET WEST OF THE CAMPUS INFORMATION BOOTH, UNIVERSITY OF CALIFORNIA, DAVIS.
Detailed Location:	TERRITORY #YO211 FROM CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS (#SO030 IN 1992 VERSION).
Ecological:	NEST TREE IS A CONIFER.
General:	ONE ADULT OBSERVED SOARING IN THIS AREA IN 1981, BUT NO NEST WAS FOUND. NESTING WAS OBSERVED DURING ENGLAND'S 1990-92 SURVEY AND AGAIN IN 1992 BY ESTEP.
Owner/Manager:	UC-DAVIS

Occurrence No.	109	**Map Index:**	10464	**EO Index:**	27196	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-22

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.61987 / -121.86928	**Accuracy:**	specific area
UTM:	Zone-10 N4275201 E598433	**Elevation (ft):**	100
PLSS:	T09N, R01E, Sec. 16, SW (M)	**Acres:**	11.0

Location:	ROAD 27, AT WILKENDORF LANE (PRIVATE), ABOUT 0.6 MILE WEST OF ROAD 95, NORTH OF YOLO COUNTY AIRPORT.
Detailed Location:	TERRITORY #YO020 FROM CDFW DATABASE OF 1979-1994 SWHA OBSERVATIONS AT "INTERSECTION OF RD 95 AND RD 27." MAPPED TO COORDINATES GIVEN ON FIELD SURVEY FORM FOR RESSEGUIE SITE MERRITT 3, AND IN 2008 ESTEP REPORT FOR SITE YO-122.
Ecological:	1981: POSSIBLE NEST 50 FT UP IN 70' EUCALYPTUS TREE. 2004: NEST IN WESTMOST BLUE GUM EUC IN A LINE OF TREES RUNNING FROM WILKENDORF LN E TO RD 95. 2007: NEST IN DENSE BLUE GUM GROVE S OF RD; REPORTEDLY A FORMER EGRET ROOKERY. ALFALFA TO N.
General:	PAIR WITH 1 YOUNG OBSERVED ON 8 JUL 1981. RED-TAILED HAWKS NESTED HERE 1999-2002. OCCUPIED BY SWHA IN 2004; 1 YOUNG FLEDGED. ACTIVE NEST OBS DURING 2007 SURVEY; RESULTS UNKNOWN.
Owner/Manager:	PVT

Occurrence No.	207	**Map Index:**	10696	**EO Index:**	27094	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-22

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.60533 / -121.77282	**Accuracy:**	80 meters
UTM:	Zone-10 N4273695 E606852	**Elevation (ft):**	55
PLSS:	T09N, R02E, Sec. 20, NE (M)	**Acres:**	0.0

Location:	0.25 MILE WEST OF HIGHWAY 113, ALONG THE SOUTH SIDE OF THE NORTH FORK OF WILLOW SLOUGH, NNW OF DAVIS.
Detailed Location:	VICINITY OF TERRITORIES #YO052 & YO275 FROM CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS. MAPPED TO COORDINATES FOR SITE YO-277 FROM 2008 ESTEP REPORT.
Ecological:	NEST TREES WERE VALLEY OAKS WITHIN OAK RIPARIAN HABITAT; BIRDS FORAGE IN GRAIN/ROW CROP AGRICULTURAL FIELDS.
General:	2 LIGHT-PHASE HAWKS OBSERVED SOARING/VOCALIZING IN 1984. ACTIVE/1 YOUNG IN 1985, 2 FLEDGLINGS IN 1986 & 1987. ACTIVE/SUCCESS UNKNOWN IN 1988, 1991. PAIR & 1 YOUNG AT NEW NEST IN 1994. ACTIVE NEST OBS IN 2007 SURVEY; RESULTS UNKNOWN.
Owner/Manager:	PVT

Occurrence No.	213	**Map Index:**	10635	**EO Index:**	27088	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-06

Quad Summary:	Merritt (3812157)
County Summary:	Solano, Yolo

Lat/Long:	38.52760 / -121.80383	**Accuracy:**	non-specific area
UTM:	Zone-10 N4265034 E604265	**Elevation (ft):**	70
PLSS:	T08N, R01E, Sec. 24 (M)	**Acres:**	123.0

Location:	ALONG PUTAH CREEK, NEAR PEDRICK ROAD (RD 98) CROSSING, ABOUT 0.5 MILE SW OF UC DAVIS AIRPORT.
Detailed Location:	1982-94: TERRITORIES YO153, YO234, SL012, YO164, YO166, SO028, & YO209 FROM CDFW SWHA DATABASE. 2002-03: CDFW NEST RECORDS. '04-05: RESSEGUIE SITE MERRITT 83. 2007: SITES YO-238 TO 241, 245 & 248 FROM ESTEP REPORT.
Ecological:	MANY NEST SITES; NEST TREES WERE EUCALYPTUS, VALLEY OAK, COTTONWOOD, WILLOW IN RIPARIAN CORRIDOR SURROUNDED BY AGRICULTURE. 2002-03 NEST IN 40' EUC ON W SIDE RD 98. 2004-05 NEST IN VALLEY OAK AT KIDWELL RANCH, 0.4 MI W OF N FORK CONFLUENCE.
General:	YEAR(#ACTIVE NESTS/#YOUNG): 1982(1-2/1-2) '87(1/1) '88(1/?) 1990-92(UP TO 6/?) '93(1/1 FLEDGED) '94(3-4/5-7 FLEDGED) 2002(1/1) '03(1 ABANDONED NEST) '04(1/1) '05(1 INACTIVE NEST) '07(6/3; 3 OF THE NESTS W/UNKNOWN SUCCESS).
Owner/Manager:	PVT, UC-DAVIS

Occurrence No.	216	**Map Index:**	10716	**EO Index:**	27085	**Element Last Seen:**	1984-06-04
Occ. Rank:	Poor			**Presence:**	Presumed Extant	**Site Last Seen:**	1986-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-06

Quad Summary: Merritt (3812157)
County Summary: Yolo

Lat/Long:	38.56879 / -121.76551	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4269649 E607544	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 04, W (M)	**Acres:**	0.0

Location: NORTH DAVIS FARMS, JUST EAST OF HWY 113 APPROXIMATELY 0.5 MILE NORTH OF COVELL BLVD.
Detailed Location: TERRITORY #YO045 FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS.
Ecological: NEST TREE WAS A WALNUT.
General: FEMALE OBSERVED INCUBATING ON NEST IN 1984; 1 FLEDGLING OBSERVED LATER. INACTIVE IN 1985 & 1986.
Owner/Manager: PVT

Occurrence No.	269	**Map Index:**	10678	**EO Index:**	26963	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-22

Quad Summary: Merritt (3812157)
County Summary: Yolo

Lat/Long:	38.60566 / -121.78315	**Accuracy:**	80 meters
UTM:	Zone-10 N4273720 E605952	**Elevation (ft):**	55
PLSS:	T09N, R02E, Sec. 20, SW (M)	**Acres:**	0.0

Location: NORTH FORK OF WILLOW SLOUGH, ABOUT 0.2 MILE EAST OF ROAD 99 CROSSING, NNW OF DAVIS.
Detailed Location: TERRITORY #YO051 FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS. MAPPED TO COORDINATES FOR SITE YO-278 FROM 2008 ESTEP REPORT.
Ecological: NEST TREE WAS A VALLEY OAK WITHIN RIPARIAN HABITAT; SURROUNDING GRAIN/ROW CROP AGRICULTURAL FIELDS USED FOR FORAGING.
General: BIRDS OBSERVED IN 1984-85, BUT NO NEST LOCATED. ACTIVE NESTS1986-88, 2 ADULTS FLEDGED 2 IN 1987. 2 FLEDGED IN 1991. 2 FLEDGED IN 1994; FEMALE BANDED (A RETURN). ACTIVE NEST/0 FLEDGED IN 2007.
Owner/Manager: PVT

Occurrence No.	286	**Map Index:**	10626	**EO Index:**	27026	**Element Last Seen:**	1988-05-30
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1988-05-30
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-09-15

Quad Summary: Merritt (3812157)
County Summary: Solano

Lat/Long:	38.51210 / -121.80303	**Accuracy:**	80 meters
UTM:	Zone-10 N4263315 E604357	**Elevation (ft):**	60
PLSS:	T08N, R02E, Sec. 30 (M)	**Acres:**	0.0

Location: ALONG PEDRICK ROAD, 1 MILE SOUTH OF PUTAH CREEK, SW OF DAVIS.
Detailed Location: NEST WAS IN AN ISOLATED WALNUT TREE ON ROADSIDE.
Ecological: NEST TREE WAS AN ISOLATED, ROADSIDE WALNUT; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURE.
General: 2 ADULTS OBSERVED NESTING; NESTING SUCCESS UNKNOWN.
Owner/Manager: PVT

Occurrence No.	385	**Map Index:**	21218	**EO Index:**	12001	**Element Last Seen:**	1992-05-05
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-06-02
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-08

Quad Summary: Merritt (3812157)

County Summary: Yolo

Lat/Long:	38.61935 / -121.83108	**Accuracy:**	non-specific area
UTM:	Zone-10 N4275185 E601760	**Elevation (ft):**	70
PLSS:	T09N, R01E, Sec. 23 (M)	**Acres:**	19.0

Location: ALONG WILLOW SLOUGH AT COSSING OF COUNTY ROAD 27, ABOUT 3 MILES SW OF WOODLAND.

Detailed Location: TERRITORIES #YO088 & YO182 FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS. MAPPED TO POINTS FROM CDFW SHAPEFILE OF SWHA NEST RECORDS, 2009.

Ecological: 1992: NEST IN HALF-DEAD WILLOW IN NARROW STRIP OF RIPARIAN ALONG WILLOW SLOUGH, SURROUNDED BY AGRICULTURAL FIELDS. 1994: HISTORICAL NEST SITE IN WALNUT OCCUPIED BY RED-TAILED HAWK. 2009: 2 NESTS OBS IN WILLOW & COTTONWOOD; ALFALFA TO S.

General: SWHA SIGHTINGS IN AREA 1990-1991. 1992: ACTIVE NEST WITH PAIR, INCUBATION OBSERVED. 1994: ONLY RED-TAILED HAWKS OBSERVED. 2009: SWHA SEEN PERCHED, SOARING NEAR NESTS; NO INCUBATION OR YOUNG OBSERVED.

Owner/Manager: UNKNOWN

Occurrence No.	408	**Map Index:**	21829	**EO Index:**	18653	**Element Last Seen:**	1991-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1994-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-31

Quad Summary: Davis (3812156), Merritt (3812157)

County Summary: Yolo

Lat/Long:	38.55494 / -121.75075	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4268130 E608850	**Elevation (ft):**	45
PLSS:	T08N, R02E, Sec. 09, NE (M)	**Acres:**	0.0

Location: JUST SOUTH OF DAVIS HIGH SCHOOL, IN A RESIDENTIAL AREA, DAVIS.

Detailed Location: MAPPED TO LOCATIONS GIVEN ON 1991 FIELD SURVEY FORM AND FOR TERRITORY YO146 IN CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE: "JUST SOUTH" OR "0.25 MI SOUTH" OF DAVIS HIGH SCHOOL.

Ecological: NEST TREE IS LOCATED IN A RESIDENTIAL AREA; FORAGING AREA UNKNOWN.

General: 2 ADULTS OBSERVED NESTING IN 1991; NEST SUCCESS UNKNOWN. IN 1994, "URBAN CONIFER SITE" WAS INACTIVE.

Owner/Manager: PVT

Occurrence No.	429	**Map Index:**	21867	**EO Index:**	7815	**Element Last Seen:**	2009-07-15
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-07-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-08

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.62069 / -121.80340	**Accuracy:**	non-specific area
UTM:	Zone-10 N4275365 E604167	**Elevation (ft):**	65
PLSS:	T09N, R01E, Sec. 13 (M)	**Acres:**	35.0

Location:	INTERSECTION OF COUNTY ROAD 27 AND COUNTY ROAD 98, ABOUT 4 MILES NW OF DAVIS.
Detailed Location:	TERRITORIES #YO070, YO150, & YO187 FROM CDFW DATABASE OF SWHA OBSERVATIONS. 1988-92 SITES ALONG RD 27; DISCREPANCY BETWEEN ACCOUNTS FROM MULTIPLE OBSERVERS IN '92. 2000-09 TREE(S) ABOUT 0.2 MI N, W SIDE OF RD 98; SITE YO-220 FROM ESTEP '08.
Ecological:	1988 NEST IN LOCUST. '92 NEST(S) IN BLACK WALNUT AND/OR VALLEY OAK; RED-TAILED HAWKS TOOK OVER IN 2000. 2000-04 NEST IN BLACK LOCUST. 2008-09 NEST TREES SAME AS OR ADJACENT TO '00-04 TREE. SURROUNDED BY CROPLAND, ALFALFA, ORCHARD.
General:	NEST W/1 YOUNG OBSERVED, 1987. ACTIVE NEST, '88. ADULTS OBS, '91. NEST W/2 YOUNG, '94. 2/3 YOUNG FLEDGED, '92. NEW NEST FLEDGED 1, 2000. 2 FLEDGED, '01. POSSIBLE FLEDGLING, '02. 1 FLEDGED, '04. NEST W/2 YOUNG OBS '07. NEST W/YOUNG OBS '09.
Owner/Manager:	UNKNOWN

Occurrence No.	430	**Map Index:**	21866	**EO Index:**	11930	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-22

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.61489 / -121.82095	**Accuracy:**	specific area
UTM:	Zone-10 N4274701 E602648	**Elevation (ft):**	65
PLSS:	T09N, R01E, Sec. 24 (M)	**Acres:**	10.0

Location:	ALONG WILLOW SLOUGH, ABOUT 0.4 MILE SE OF COUNTY RD 27 CROSSING & 1 MILE W OF COUNTY ROAD 98; 4 MILES NW OF DAVIS.
Detailed Location:	1991-94: TERRITORY #YO148 FROM CDFW DATABASE OF SWHA OBSERVATIONS 1979-94 (SE SITE). 2000-2004: MAPPED TO UTMS GIVEN ON FIELD SURVEY FORMS FOR RESSEGUIE SITE MERRITT 42 (NW SITE). 2007: MAPPED TO SITE YO-273 IN 2008 ESTEP REPORT (SE SITE).
Ecological:	1991-94: NEST IN A SMALL GROVE OF EUCALYPTUS ALONG THE SLOUGH; SURROUNDING FORAGING HABITAT WAS WHEAT/TOMATOES. 2000-01: NEST IN TALL WILLOW IN RIPARIAN STRIP ALONG SLOUGH, WITH CORN TO N & TOMATOES S. 2007: NEST IN EUCALYPTUS GROVE.
General:	2 ADULTS OBSERVED NESTING IN 1991; SUCCESS UNKNOWN. NEST PRODUCED 2 YOUNG IN 1994. NEST-BUILDING OBS AT NEW SITE ON 28 MAR 2000; SUCCESS UNKNOWN. NEST FOUND IN 2001, SUCCESS UNKNOWN. NO SWHA OBS ON SINGLE VISIT IN 2004. 1 FLEDGED IN 2007.
Owner/Manager:	PVT, UNKNOWN

Occurrence No.	432	**Map Index:**	21864	**EO Index:**	9861	**Element Last Seen:**	1994-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1994-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-11

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.57879 / -121.82799	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4270687 E602086	**Elevation (ft):**	75
PLSS:	T09N, R01E, Sec. 35, SE (M)	**Acres:**	0.0

Location:	DRY SLOUGH, IN THE VICINITY OF THE COUNTY ROAD 30 CROSSING, ABOUT 3 MILES WNW OF DAVIS.
Detailed Location:	VICINITY OF TERRITORIES #YO015, YO091, & YO086 (IN PART-SEE ALSO EO #433) FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS 1979-1994. YO015 WAS JUST SOUTH OF RD 30, YO91 ABOUT 0.2 MI NORTH, AND YO086 ABOUT 0.5 MI NORTH OF RD 30.
Ecological:	YO015: NEST IN COTTONWOOD. YO091: NEST SITE IS WITHIN RIPARIAN HABITAT (TYPE OF NEST TREE NOT RECORDED). YO086: NEST IN WALNUT.
General:	YO015: NEST WITH 2 YOUNG OBSERVED IN 1994. YO091: ACTIVE NEST/SUCCESS UNKNOWN IN 1988; INACTIVE IN 1991. YO086: NEST 1 MI TO E IN 1991 (EO #433); ACTIVE NEST/0 YOUNG IN 1994.
Owner/Manager:	PVT, UNKNOWN

Occurrence No.	433	**Map Index:**	21865	**EO Index:**	14011	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-22

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.58321 / -121.80421	**Accuracy:**	specific area
UTM:	Zone-10 N4271204 E604151	**Elevation (ft):**	65
PLSS:	T09N, R01E, Sec. 36, SE (M)	**Acres:**	17.0

Location:	WEST SIDE OF COUNTY ROAD 98, 0.2-0.5 MILES NORTH OF COUNTY ROAD 30, 2.5 MILES NW OF DAVIS.
Detailed Location:	TERRITORIES YO265, YO066 & YO086 (SEE ALSO EO#432) FROM CDFW 1979-94 SWHA DATABASE; W SIDE RD 98/0.5 MI N OF RD 30. MAPPED TO RESSEGUIE SITE MERRITT 12 & ESTEP '08 SITEYO-229 (S POLYGON) & CDFW 2000-04 DATABASE OF NEST RECORDS (N POLYGON).
Ecological:	1986 NEST IN LONE TREE.1987-2007 NEST TREES WERE BLACK WALNUTS ALONG RD 98, SOME WITH PROMINENT DEAD TOPS USED FOR PERCHING. SURROUNDED BY AGRICULTURE. THE ROADSIDE TREES REPRESENTED BY THE S POLYGON APPEAR TO HAVE BEEN REMOVED 2009-10.
General:	NEST W/1 YOUNG OBS IN 1986. ACTIVE, 1987 & '88. 2 FLEDGED, 1991. 1 FLEDGED, 1994 & '99. 2 FLEDGED, 2000. ACTIVE/0 YOUNG IN 2001. NEST FAILED, SWHA FOUND DEAD ON ROAD NEAR N NEST SITE, JUN 2002. 1 FLEDGED, 2004. NEST W/1 YOUNG OBS IN 2007.
Owner/Manager:	PVT

Occurrence No.	434	**Map Index:**	22033	**EO Index:**	26966	**Element Last Seen:**	2009-06-09
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-06-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-22

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.61903 / -121.76635	**Accuracy:**	specific area
UTM:	Zone-10 N4275223 E607395	**Elevation (ft):**	55
PLSS:	T09N, R02E, Sec. 21 (M)	**Acres:**	22.0

Location:	INTERSECTION OF COUNTY ROAD 27 AND HIGHWAY 113, NORTH OF DAVIS.
Detailed Location:	TERRITORY #YO069 FROM CDFW DATABASE OF SWHA OBSERVATIONS 1979-1994. 1988-2007 NEST TREES WITHIN CLOVERLEAF OF COUNTY RD 27 & HWY 113 (RESSEGUIE SITE MERRITT 36; SITE YO-276 FROM ESTEP '08). 2009 NEST(S) ABOUT 0.25 MI FURTHER W, ALONG RD 27.
Ecological:	1988: NEST IN BLACK WALNUT; BIRDS FORAGED ALONG ROADSIDES AND IN AGRICULTURAL FIELDS. 2000: NEST IN OAK. 2001, 2004 NEST IN BLACK WALNUT. 2002, 2007, & 2009 NESTS IN VALLEY OAK(S).
General:	1 FLEDGED IN 1987. ACTIVE NEST 1988; SUCCESS UNKNOWN. PAIR W/1 YOUNG OBS IN 1994. 1 FLEDGED, 2000. 2 FLEDGED, 2001. SUSPECTED NEST, 0 FLEDGED IN 2002. 1 FLEDGED, 2004. ACTIVE NEST '07, SUCCESS UNKNOWN. 2 DETECTIONS OF NESTS W/YOUNG IN 2009.
Owner/Manager:	PVT

Occurrence No.	435	**Map Index:**	22034	**EO Index:**	26967	**Element Last Seen:**	1991-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1994-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-03-19

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.61325 / -121.79727	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4274546 E604712	**Elevation (ft):**	55
PLSS:	T09N, R02E, Sec. 19, NW (M)	**Acres:**	0.0

Location:	WILLOW SLOUGH, 0.25 MILE EAST OF COUNTY ROAD 98, NNW OF DAVIS.
Detailed Location:	TERRITORY #YO298 FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS, 1979-1994. VICINITY OF POINT ON MAP IN 1990 HABITAT CONSERVATION PROGRAM REPORT. EXACT LOCATIONS UNKNOWN.
Ecological:	NEST TREE WAS A VALLEY OAK WITHIN RIPARIAN HABITAT; BIRDS FORAGED OVER HAY/GRAIN/ROW CROPS.
General:	ACTIVE IN 1990. 2 ADULTS OBSERVED NESTING IN 1991. SITE CHECKED IN 1994; NEITHER NEST NOR BIRDS WERE FOUND.
Owner/Manager:	PVT

Occurrence No.	436	**Map Index:**	22036	**EO Index:**	27498	**Element Last Seen:**	1988-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1988-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1999-08-31

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.57634 / -121.80039	**Accuracy:**	80 meters
UTM:	Zone-10 N4270446 E604494	**Elevation (ft):**	60
PLSS:	T09N, R02E, Sec. 31, SW (M)	**Acres:**	0.0

Location:	NORTH SIDE OF COUNTY ROAD 30, 0.2 MILE EAST OF COUNTY ROAD 98, 2 MILES NW OF DAVIS.
Detailed Location:	
Ecological:	NEST TREE IS A WALNUT.
General:	DFG SWHA #YO066. BIRDS NESTED IN 1986, FLEDGING ONE. BIRDS NESTED IN 1987; NO YOUNG PRODUCED. BIRDS NESTED IN 1988; RESULTS UNKNOWN.
Owner/Manager:	PVT

Occurrence No.	437	**Map Index:**	22035	**EO Index:**	27663	**Element Last Seen:**	2012-07-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2012-07-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-10-29

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.60013 / -121.75735	**Accuracy:**	specific area
UTM:	Zone-10 N4273136 E608208	**Elevation (ft):**	55
PLSS:	T09N, R02E, Sec. 28, N (M)	**Acres:**	10.0

Location:	WILLOW SLOUGH, ABOUT 0.5 MILE EAST OF HWY 113 CROSSING, AND 2 MILES NNW OF DAVIS.
Detailed Location:	1991 DETECTION ALONG WILLOW SLOUGH ABOUT 0.5 MI E OF HWY 113 (PART OF TERRITORY #YO046 IN CDFW SWHA DATABASE, SEE ALSO EO#458). MAPPED TO COORDINATES GIVEN FOR SITE YO-224 FROM 2008 ESTEP REPORT (SE POLYGON) & 2012 NEST SITE (NW POLYGON).
Ecological:	1991 NEST IN VALLEY OAK IN OAK RIPARIAN HABITAT; SURROUNDING FORAGING AREA CONSISTED OF HAY, GRAIN, AND ROW CROPS. 2007 NEST IN RIPARIAN WILLOW SURROUNDED BY IRRIGATED CROPS. SUSPECTED NEST TREE AN OAK IN 2012.
General:	TWO ADULTS FLEDGED TWO YOUNG IN 1991. NEST WITH 1 YOUNG OBSERVED DURING 2007 SURVEY. MORE THAN ONE FLEDGLING HEARD, ACTIVE PAIR OBSERVED DURING SURVEYS MAY-JUL 2012 BUT NEST NOT FOUND.
Owner/Manager:	PVT

Occurrence No.	443	**Map Index:**	22112	**EO Index:**	7908	**Element Last Seen:**	2009-04-29
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-04-29
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-26

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.57929 / -121.76532	**Accuracy:**	specific area
UTM:	Zone-10 N4270814 E607544	**Elevation (ft):**	50
PLSS:	T09N, R02E, Sec. 33, S (M)	**Acres:**	14.0

Location:	ALONG HWY 113, ABOUT 1-1.25 MILES NORTH OF COVELL BOULEVARD, NW OF DAVIS.
Detailed Location:	TERRITORY #YO059 FROM CDFW SWHA DATABASE; PAIR AT EO#461 1985-87 MOVED HERE IN 1988. 2 POLYGONS: W-RESSEGUIE'S SITE MERRITT 51, ACTIVE 1999-2004, AT #39938 SHARON AVE; & ESTEP'S YO-274 SITE FROM 2007. E- 2009 SITE FROM CDFW NEST RECORDS.
Ecological:	1988-2004: NEST IN ORNAMENTAL CONIFER (PINE) IN RESIDENTIAL SETTING. HABITAT INCLUDED GRAIN/ROW CROPS, SAFFLOWER, TOMATOES, URBAN TO S. 2007 NEST IN EUCALYPTUS IN TREE ROW. 2009 NEST IN LARGE TREE (SP. UNKNOWN) SURROUNDED BY ALFALFA FIELDS.
General:	2 FLEDGED, 1988. ACTIVE NEST/SUCCESS UNKNOWN, 1991. ACTIVE/0 FLEDGED, 1994. NEST WITH 2 YOUNG OBSERVED, 1999. NEST FAILED, 2000. ACTIVE/0 YOUNG OBS, 2001-02. PAIR DEFENDING AGAINST CROWS, 26 APR 2004. ACTIVE/SUCCESS UNKNOWN IN 2007 & 2009.
Owner/Manager:	PVT, UNKNOWN

Occurrence No.	444	**Map Index:**	22114	**EO Index:**	20869	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-23

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.54689 / -121.79549	**Accuracy:**	80 meters
UTM:	Zone-10 N4267184 E604963	**Elevation (ft):**	60
PLSS:	T08N, R02E, Sec. 07, SW (M)	**Acres:**	0.0

Location:	NORTH SIDE OF RUSSELL BOULEVARD, 0.4 MILE EAST OF COUNTY ROAD 98, WEST OF DAVIS.
Detailed Location:	TERRITORY #YO094 FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS. MAPPED TO COORDINATES GIVEN FOR SITE YO-243 FROM 2008 ESTEP REPORT.
Ecological:	1991: NEST TREE WAS VALLEY OAK IN RIPARIAN HABITAT; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURAL FIELDS. 1993-94 NEST IN WALNUT WITHIN A GROVE OF WALNUT TREES. 2007 NEST TREE IN ROW OF WALNUTS. ADJACENT TO URBAN AREA.
General:	ONE ADULT OBSERVED NESTING DURING ENGLAND'S 1990-92 SURVEY. TWO ADULTS OBSERVED NESTING IN 1991. NESTING PAIR WITH 3 YOUNG OBS 1993. NESTING PAIR WITH 2 YOUNG OBS 1994. ACTIVE NEST OBS DURING 2007 SURVEY, SUCCESS UNKNOWN.
Owner/Manager:	PVT

Occurrence No.	445	**Map Index:**	22113	**EO Index:**	7909	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Stable	**Record Last Updated:**	2013-02-11

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.56590 / -121.80321	**Accuracy:**	specific area
UTM:	Zone-10 N4269285 E604263	**Elevation (ft):**	60
PLSS:	T08N, R01E, Sec. 01, SE (M)	**Acres:**	18.0

Location:	EAST SIDE OF COUNTY ROAD 98, 0.3 MILE NORTH OF COUNTY ROAD 31, WNW OF DAVIS.
Detailed Location:	1985-94: TERRITORY #YO050 FROM CDFW DATABASE OF SWHA OBSERVATIONS. 1999-2005: MAPPED TO UTMS GIVEN FOR RESSEGUIE SITES MERRITT 15 (SOUTH POLYGON) & 64 (N POLYGON, ACTIVE ONLY IN 2001). 2007: ESTEP SITE YO-283 (AT N END OF S POLYGON).
Ecological:	NEST TREES WERE BLACK WALNUTS; SURROUNDING FORAGING HABITAT INCLUDED SAFFLOWER TO THE EAST AND SUDAN GRASS TO THE WEST, ACROSS THE ROAD. CROPS VARIED FROM YEAR TO YEAR.
General:	ACTIVE 1985. 1 FLEDGED 1986, 87, & 88. INACTIVE, 1991 & 1994. 3 YOUNG/1 FLEDGED 1999. 1 FLEDGED IN 2000. NESTS AT N AND S SITE EACH FLEDGED 1 IN 2001. 0 FLEDGED IN 2002. 1 FLEDGED IN 2004. 1 FLEDGED IN 2005. NEST FAILED, 2007.
Owner/Manager:	PVT

Occurrence No.	446	**Map Index:**	22115	**EO Index:**	16654	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-28

Quad Summary:	Merritt (3812157)
County Summary:	Solano, Yolo

Lat/Long:	38.52913 / -121.77987	**Accuracy:**	specific area
UTM:	Zone-10 N4265231 E606351	**Elevation (ft):**	60
PLSS:	T08N, R02E, Sec. 20, N (M)	**Acres:**	8.0

Location:	NORTH FORK OF PUTAH CREEK JUST EAST OF THE UC DAVIS AIRPORT AND ADJACENT TO THE UCD SHEEP BARNS, SW OF DAVIS.
Detailed Location:	1981-94: 2-3 SIMULTANEOUSLY ACTIVE NESTING TERRITORIES: #YO029, YO157, SO034 IN CDFW DATABASE OF SWHA OBSERVATIONS ('94 NEST ATTRIBUTED TO YO029 AT EO#106). 2006-07: MAPPED TO COORDINATES FOR RESSEGUIE SITE MERRITT 94 & ESTEP SITE YO-235.
Ecological:	YO029: NESTS IN VALLEY OAKS; YO157: NESTS IN OAKS; SO034: TREE SP. NOT RECORDED; SURROUNDING HABITAT IS "DEGRADED" (1994) RIPARIAN NEXT TO CROPLAND INCL. BARLEY & WHEAT USED FOR FORAGING. 2006: NEST IN LARGE OAK. '07: NEST IN VALLEY OAK.
General:	YO029: ACTIVE, PRODUCTIVE 1981-82. PAIR W/1 YOUNG, '84. YO157: ACTIVE '88 &1990-92. NEST W/1 YOUNG, '93. 2 YOUNG, '94. SO034: 1 ADULT NESTING 1990-92 (ENGLAND). 2006: MONITORED MAR-AUG; 1 NESTING ADULT OBS. '07: ACTIVE NEST/SUCCESS UNKNOWN.
Owner/Manager:	UC-DAVIS

Occurrence No.	457	**Map Index:**	22999	**EO Index:**	7814	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-11

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.61955 / -121.81895	**Accuracy:**	specific area
UTM:	Zone-10 N4275221 E602816	**Elevation (ft):**	65
PLSS:	T09N, R01E, Sec. 24, NW (M)	**Acres:**	10.0

Location:	SOUTH SIDE OF COUNTY ROAD 27, ABOUT 0.8 MILE WEST OF COUNTY ROAD 98 AND 5 MILES NW OF DAVIS.
Detailed Location:	TERRITORY #YO151 IN CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS. MAPPED TO COORDINATES FOR RESSEGUIE'S SITES MERRIT 26 & 26.5 (NEST TREES ABOUT 30 M APART) AND SITE YO-282 FROM 2008 ESTEP REPORT.
Ecological:	1992: NEST IN DYING ROADSIDE EUCALYPTUS. 2000-01: NEST IN EUCALYPTUS S OF FARM BUILDINGS; SUDAN GRASS TO THE WEST AND ALFALFA TO THE NORTH. 2004: NEST IN FARMYARD EUCALYPTUS, CULTIVATED LAND TO E. 2007: NEST IN ROADSIDE EUCALYPTUS.
General:	NEST WITH 1 ADULT & 2 DOWNY YOUNG OBSERVED, 17 JUN 1992. ROADSIDE EUC SITE INACTIVE BY 1994. 2 FLEDGED IN 2000. 2 YOUNG HATCHED, BUT ONLY 1 SURVIVED TO FLEDGE IN 2001. INACTIVE IN 2002. 1 FLEDGED FROM NEW NEST IN 2004. NEST FAILED IN 2007.
Owner/Manager:	PVT

Occurrence No.	458	**Map Index:**	23000	**EO Index:**	7817	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-10-29

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.60264 / -121.76821	**Accuracy:**	80 meters
UTM:	Zone-10 N4273402 E607258	**Elevation (ft):**	55
PLSS:	T09N, R02E, Sec. 29, NE (M)	**Acres:**	0.0

Location:	EAST BANK OF DRY SLOUGH, NEAR JUNCTION WITH WILLOW SLOUGH, 0.7 MILE NORTH OF ROAD 29, 3 MILES NNW OF DAVIS.
Detailed Location:	TERRITORY #YO046 (PART) FROM CDFW SWHA DATABASE (SEE ALSO EO#437). NEST WAS IN TREE ON E SIDE OF HWY 113, UNTIL IT BLEW DOWN IN 1985. LATER DETECTIONS ON W SIDE OF HWY 113 (RESSEGUIE SITE MERRITT 39; SITE YO-275 FROM ESTEP 2008, 2012 PAIR).
Ecological:	1987-2007: NEST IN VALLEY OAK ALONG DRY SLOUGH; SURROUNDING FORAGING HABITAT CONSISTED OF IRRIGATED ROW CROPS, ALFALFA, AND HORSE PASTURES.
General:	2 FLEDGED, 1984. INACTIVE '85-86. 2 FLEDGED, '87. ACTIVE NEST, '88. 1 ADULT & 2 YOUNG, '92. PAIR (1 BANDED) W/ 2 YOUNG, '94. 1 FLEDGED 2000. PRESUMED ACTIVE '01-02 (NO ACCESS). 1 FLEDGED '04. ACTIVE NEST '07. ACTIVE PAIR, NO NEST FOUND '13.
Owner/Manager:	PVT

Occurrence No.	459	**Map Index:**	23002	**EO Index:**	20887	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-23

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.54878 / -121.81485	**Accuracy:**	specific area
UTM:	Zone-10 N4267372 E603273	**Elevation (ft):**	65
PLSS:	T08N, R01E, Sec. 12, SW (M)	**Acres:**	10.0

Location:	NEAR PUTAH CREEK, JUST NW OF THE JUNCTION OF RUSSELL BLVD AND COUNTY ROAD 97D, 3 MILES WEST OF DAVIS.
Detailed Location:	TERRITORY #YO039 FROM CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS. MAPPED TO COORDINATES FROM 2000-04 CDFW DATABASE OF NEST RECORDS (E POLYGON) AND SITE YO-247 FROM 2008 ESTEP REPORT (W POLYGON).
Ecological:	1992 NEST IN LONE VALLEY OAK; DISTURBANCE FROM ADJACENT FARMYARD W/SCHOOL BUSES & HORSE CORRAL. 1993 NEST IN OAK, LIKELY SAME TREE AS '92. 1994 NEST IN WALNUT. 2001 NEST IN WALNUT SURROUNDED BY PASTURE/RESIDENTIAL. 2007 NEST IN VALLEY OAK.
General:	ONE ADULT OBSERVED NESTING DURING ENGLAND'S 1990-92 SURVEY; NEST FLEDGED 1 IN 1992. PAIR WITH 2 YOUNG OBSERVED IN 1993 AND 1994. ACTIVE NEST OBSERVED 24 MAY 2001; NO YOUNG SEEN. NEST WITH 1 YOUNG OBS IN 2007 SURVEY.
Owner/Manager:	UNKNOWN

Occurrence No.	460	**Map Index:**	23001	**EO Index:**	7819	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-11

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.56759 / -121.84011	**Accuracy:**	specific area
UTM:	Zone-10 N4269431 E601046	**Elevation (ft):**	85
PLSS:	T08N, R01E, Sec. 02 (M)	**Acres:**	15.0

Location:	ALONG DRY SLOUGH, IN VICINITY OF COUNTY ROAD 96 CROSSING; JUST SE OF YOLO COUNTY AIRPORT.
Detailed Location:	1992-94: TERRITORY #YO026 FROM CDFW DATABASE OF1979-94 SWHA OBSERVATIONS; ABOUT 0.2 MI W OF RD 96 & 0.25 MI N OF RD 31. MAPPED TO COORDINATES FOR RESSEGUIE'S SITE MERRITT 17 (AT RD 96) & ESTEP'S SITES YO-280 (E OF 96) & YO-281 (W OF 96).
Ecological:	1992-94: NEST IN WALNUT. 1999: NEST AT TOP OF RAGGED COTTONWOOD ON S BANK OF SLOUGH JUST E OF RD 96. BY 2004, THIS TREE WAS GONE. 2007: E NEST IN COTTONWOOD; W IN WALNUT. HABITAT INCL. HEAVILY-DISTURBED RIPARIAN, SEMI-URBAN, AGRICULTURE.
General:	ACTIVE IN 1992. NEST W/PAIR & 1 YOUNG OBSERVED IN 1994; ADULT FEMALE WAS BANDED. SITE MONITORED 13 MAY-30 JUL 1999; 2 YOUNG FLEDGED. INACTIVE 2000, '01, '04. 2 ACTIVE NESTS IN 2007; SUCCESS AT E NEST UNKNOWN, W NEST PRODUCED 1 YOUNG.
Owner/Manager:	UNKNOWN

Occurrence No.	461	**Map Index:**	23003	**EO Index:**	7818	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-23

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.56148 / -121.77691	**Accuracy:**	80 meters
UTM:	Zone-10 N4268825 E606561	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 05, S (M)	**Acres:**	0.0

Location:	ALONG THE NORTH SIDE OF COVELL BOULEVARD (COUNTY ROAD 31), 0.5 MILE WEST OF HIGHWAY 113, ON THE NW EDGE OF DAVIS.
Detailed Location:	1985-1994: TERRITORIES "YO," YO059, & YO183 FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS. 1999: NEST WAS LOCATED IN THE SECOND BLACK WALNUT FROM THE NORTH. 2000-2001: NEST TREE WAS THE NORTHERNMOST BLACK WALNUT.
Ecological:	NEST TREE WAS A BLACK WALNUT WITHIN A ROW OF FOUR WALNUT TREES; SURROUNDED BY WINTER WHEAT GROWING TO THE NORTH OF ROAD 31, EAST AND WEST OF THE NEST, WITH LAND TO THE SOUTH BEING DEVELOPED. SITE REGULARLY USED BY WINTERING RTHA, 1999-2000.
General:	PAIR THAT NESTED HERE IN 1985 (1 FLEDGED), '86 (1 YOUNG) & '87 (0 YOUNG) MOVED TO EO#443 IN '88. NEST W/3 YOUNG, '93. NEST W/3 YOUNG, '94. 3 FLEDGED '99. 2 FLEDGED 2000. 1 FLEDGED '01. 2 FLEDGED '02 & '04. 1 FLEDGED '05. NEST FAILED '07.
Owner/Manager:	PVT

Occurrence No.	565	**Map Index:**	23219	**EO Index:**	7596	**Element Last Seen:**	2000-07-12
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2004-06-12
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2005-09-19

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.61993 / -121.84457	**Accuracy:**	80 meters
UTM:	Zone-10 N4275234 E600585	**Elevation (ft):**	80
PLSS:	T09N, R01E, Sec. 15, SE (M)	**Acres:**	0.0

Location:	NORTH SIDE OF COUNTY ROAD 27, 0.7 MILE EAST OF COUNTY ROAD 95, 2.5 MILES NORTH OF THE YOLO COUNTY AIRPORT.
Detailed Location:	2000 NEST WAS SMALL, LOCATED AT THE 90% HEIGHT OF THE NEST TREE, ON THE WESTERN TRUNK.
Ecological:	NEST TREE IS A COTTONWOOD; SURROUNDING FORAGING HABITAT CONSISTS OF CULTIVATED LAND NORTH AND SOUTH.
General:	2 ADULTS/1 JUVENILE OBSERVED IN 1991. 2 FLEDGED IN 1999. 1 FLEDGED IN 2000. UNOCCUPIED IN 2001, 2002, AND 2004.
Owner/Manager:	PVT

Occurrence No.	609	**Map Index:**	23664	**EO Index:**	11794	**Element Last Seen:**	1988-05-30
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1988-05-30
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-12

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51869 / -121.80349	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4264046 E604307	**Elevation (ft):**	65
PLSS:	T08N, R01E, Sec. 24, SE (M)	**Acres:**	0.0

Location:	EAST SIDE OF PEDRICK ROAD, 0.5 MILE SOUTH OF PUTAH CREEK, SW OF DAVIS.
Detailed Location:	TERRITORY #SL010/YO235 (SO022 IN 1992 VERSION) IN CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS SINCE 1979.
Ecological:	NEST TREE WAS A ROADSIDE WALNUT, SURROUNDED BY ROW CROPS.
General:	1-2 ACTIVE NESTS OBSERVED IN 1988.
Owner/Manager:	PVT

Occurrence No.	610	**Map Index:**	23654	**EO Index:**	17013	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-18

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.52132 / -121.77849	**Accuracy:**	80 meters
UTM:	Zone-10 N4264366 E606483	**Elevation (ft):**	55
PLSS:	T08N, R02E, Sec. 20, SW (M)	**Acres:**	0.0

Location:	SOUTH FORK PUTAH CREEK, ABOUT 0.3 MILE E OF CONFLUENCE WITH NORTH FORK; ABOUT 0.4 MILE W OF I-80 CROSSING, SW OF DAVIS.
Detailed Location:	TERRITORY #YO238 (EARLIER CODED AS SO020) FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS ('93 DETECTION ATTRIBUTED TO YO238 IS AT EO #616). MAPPED TO COORDINATES FOR SITE YO-236 FROM ESTEP, 2008.
Ecological:	NEST TREE WAS A COTTONWOOD IN RIPARIAN HABITAT. SURROUNDING AGRICULTURAL LAND USED FOR FORAGING.
General:	PAIR OBSERVED NESTING IN 1988. 1 ADULT OBSERVED NESTING DURING ENGLAND'S 1990-92 SURVEY. INACTIVE, 1994. NEST WITH 1 YOUNG OBSERVED DURING 2007 SURVEY.
Owner/Manager:	PVT

Occurrence No.	611	**Map Index:**	23655	**EO Index:**	7919	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-18

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51657 / -121.75921	**Accuracy:**	specific area
UTM:	Zone-10 N4263862 E608171	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 28, NW (M)	**Acres:**	28.0

Location:	OLD DAVIS ROAD AT SOUTH LEVEE OF SOUTH PUTAH CREEK.
Detailed Location:	3 POLYGONS- NORTH: VICINITY OF TERRITORIES #YO239, YO251 FROM CDFW SWHA DATABASE, RESSEGUIE'S SITE MERRITT 86/ESTEP'S YO-232. ACTIVE 1988-2006. MIDDLE: R'S MERRITT 101/E'S YO-232, 2006-07. SOUTH: R'S MERRITT 65, ACTIVE 2001-05.
Ecological:	NORTH: IN PUTAH CREEK RIPARIAN. 1988, 2000 NESTS IN COTTONWOOD (CW); '94 IN OAK. '05 IN EUCALYPTUS. '07 IN CW. MIDDLE: 2006 NEST IN LARGE CW; '07 NEST IN EUCALYPTUS. S SIDE LEVEE. SOUTH: 2001-05 NESTS IN BLACK WALNUTS ALONG OLD DAVIS RD.
General:	NORTH: ACTIVE 1988; 2 NESTS IN '90-92; PAIR W/1 YOUNG IN '94; 1 YOUNG OBS 2000; POSSIBLE FLEDGLING '05; 1 FLEDGED '06 & '07. MIDDLE: 2 FLEDGED '06; 1 IN '07. SOUTH: 1 FLEDGED, 2001; 2 IN '02; 1 YOUNG OBS '03; 1 FLEDGED '04; 3 FLEDGED '05.
Owner/Manager:	PVT

Occurrence No.	613	**Map Index:**	23658	**EO Index:**	7861	**Element Last Seen:**	2009-06-18
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-06-18
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-22

Quad Summary:	Merritt (3812157)
County Summary:	Solano, Yolo

Lat/Long:	38.52606 / -121.76029	**Accuracy:**	specific area
UTM:	Zone-10 N4264913 E608062	**Elevation (ft):**	45
PLSS:	T08N, R02E, Sec. 21, N (M)	**Acres:**	19.0

Location:	VICINITY OF I-80 WEST OF OLD DAVIS ROAD, ON BOTH SIDES OF THE INTERSTATE.
Detailed Location:	3 NEST SITES CLOCKWISE FROM N: 1) 1990-91 SITE ON PUTAH CREEK; TERRITORY #YO176 IN CDFW SWHA DATABASE. 2) 1993-94/2000 SITE AT INTERSECTION; FROM CDFW DATABASES. 3) 2007-09 SITE FROM ESTEP '08 REPORT & CDFW SHAPEFILE OF '09 NEST SITES.
Ecological:	1990-1992: NEST TREE IN RIPARIAN HABITAT SURROUNDED BY AGRICULTURE. 1993: NEST IN OAK. 1994: NEST IN CONIFER. 2000: NEST IN 80' REDWOOD SURROUNDED BY COMMERCIAL BUILDINGS AND A MAJOR FREEWAY. 2007-2009: NEST IN COTTONWOOD.
General:	ACTIVE NEST, 1990-1991. SWHA OBSERVED FORAGING OVER UCD CROPLAND IN 1991-92. 1 FLEDGLING WAS KILLED ON ONRAMP IN 1993. 3 YOUNG OBS IN 1994. 1 FLEDGLING OBS, 6 JUL 2000. NEST FAILED IN 2007. ACTIVE NEST OBS 2009, SUCCESS UNKNOWN.
Owner/Manager:	UNKNOWN

Occurrence No.	614	**Map Index:**	23656	**EO Index:**	17014	**Element Last Seen:**	2016-04-08
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2016-04-08
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2017-06-19

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51866 / -121.77366	**Accuracy:**	80 meters
UTM:	Zone-10 N4264076 E606908	**Elevation (ft):**	55
PLSS:	T08N, R02E, Sec. 20, SE (M)	**Acres:**	0.0

Location:	SOUTH FORK OF PUTAH CREEK, JUST WEST OF I-80, SW OF DAVIS.
Detailed Location:	TERRITORY YO237 (EARLIER, YO027) IN CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS SINCE 1979. MAPPED TO COORDINATES FOR SITE YO-237 FROM 2008 ESTEP REPORT. 2016 DETECTION OF ADULT CARRYING PREY ABOUT 0.1 MI NE OF MAPPED FEATURE.
Ecological:	NEST(S) IN COTTONWOOD TREE(S) IN RIPARIAN HABITAT; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURAL FIELDS.
General:	NESTING PAIR OBSERVED IN 1988. 1 ADULT OBS NESTING IN ENGLAND'S 1990-92 SURVEY; GROUP OF 3 OBS FORAGING JUL 1991. "ACTIVE TERRITORY BUT NO ATTEMPT MADE TO NEST" IN 1994. NEST WITH 1 YOUNG OBS IN 2007. ADULT FLYING WITH PREY OBS 8 APR 2016.
Owner/Manager:	UNKNOWN

Occurrence No.	621	**Map Index:**	23665	**EO Index:**	20649	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-22

Quad Summary:	Merritt (3812157)
County Summary:	Solano, Yolo

Lat/Long:	38.53105 / -121.83622	**Accuracy:**	non-specific area
UTM:	Zone-10 N4265381 E601436	**Elevation (ft):**	85
PLSS:	T08N, R01E, Sec. 23, NW (M)	**Acres:**	42.0

Location:	ALONG PUTAH CREEK, ABOUT 0.8 MILE ESE OF STEVENSON BRIDGE ROAD (RD 95) CROSSING, 4 MILES WSW OF DAVIS.
Detailed Location:	1992-93: 2 ACTIVE NEST SITES, FROM '92 ENGLAND SURVEY MAPS (=TERRITORIES #YO099, YO100 FROM CDFW 1994 SWHA DATABASE; #SO025 & SO024 FROM 1992 DATABASE). 1994: "YO" (NO # ASSIGNED) FROM '94 DATABASE. 2009: SITE YO-249 FROM ESTEP '08.
Ecological:	1992: NESTING HABITAT IS RIPARIAN; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURAL FIELDS. 1993: NESTS IN EUCALYPTUS TREES ADJACENT TO RESIDENCE. 1994: NEST IN EUCALYPTUS ADJACENT TO RESIDENCE. 2007: NEST IN EUCALYPTUS.
General:	1992: W NEST (SO025) FLEDGED 1. 2 SUBADULTS NESTED UNSUCESSFULLY AT E NEST (SO024). 1993: W NEST (YO099) PRODUCED 1 YOUNG; E (YO100) PRODUCED 2. 1994: NEST PRODUCED 2 YOUNG. 2007: NEST PRODUCED 1 YOUNG.
Owner/Manager:	UNKNOWN

Occurrence No.	623	**Map Index:**	23667	**EO Index:**	23763	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-22

Quad Summary:	Merritt (3812157)
County Summary:	Solano, Yolo

Lat/Long:	38.53659 / -121.84774	**Accuracy:**	non-specific area
UTM:	Zone-10 N4265983 E600425	**Elevation (ft):**	85
PLSS:	T08N, R01E, Sec. 15, SE (M)	**Acres:**	10.0

Location:	PUTAH CREEK, 0.25 MILE EAST OF COUNTY ROAD 95, 4 MILES WSW OF DAVIS.
Detailed Location:	1984-94: TERRITORY #YO121 FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS; MAPPED TO LOCATION INDICATED ON 1992 ENGLAND SURVEY MAP. 2007: MAPPED TO COORDINATES FOR SITE YO-150 FROM ESTEP 2008 REPORT.
Ecological:	1984-94: NEST IN EUCALYPTUS ACROSS CREEK FROM RURAL PRIVATE HOMES (BEATON HOUSE), IN RIPARIAN HABITAT SURROUNDED BY AGRICULTURAL FIELDS. 2007: NEST IN RIPARIAN EUCALYPTUS.
General:	SWHA OBSERVED IN AREA IN 1984. 3 YOUNG FLEDGED IN 1992. ACTIVE, SUCCESS UNKNOWN IN 1993. PAIR WITH 1 YOUNG OBS AT NEST IN 1994. ACTIVE NEST OBS DURING 2007 SURVEY, SUCCESS UNKNOWN.
Owner/Manager:	UNKNOWN

Occurrence No.	624	**Map Index:**	23668	**EO Index:**	23762	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-22

Quad Summary:	Merritt (3812157)
County Summary:	Solano, Yolo

Lat/Long:	38.53779 / -121.86440	**Accuracy:**	non-specific area
UTM:	Zone-10 N4266098 E598971	**Elevation (ft):**	80
PLSS:	T08N, R01E, Sec. 16, SW (M)	**Acres:**	22.0

Location:	PUTAH CREEK, 0.3 MILE WEST OF COUNTY ROAD 95, 5 MILES WSW OF DAVIS.
Detailed Location:	EAST SITE: TERRITORY SO026 FROM CDFW 1992 DATABASE OF SWHA OBSERVATIONS; VICINITY OF TERRITORY "YO" (NO # ASSIGNED) FROM 1994 DATABASE; MAPPED TO 1992 ENGLAND SURVEY FORM. WEST SITE: ACTIVE 2007, MAPPED TO SITE YO-284 IN ESTEP '08.
Ecological:	1992: NESTING HABITAT CONSISTED OF RIPARIAN; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURAL FIELDS. 1994: "YO" NEST IN COTTONWOOD. 2007: NEST IN RIPARIAN VALLEY OAK.
General:	ONE ADULT OBSERVED NESTING DURING ENGLAND'S 1990-92 SURVEY. ENGLAND OBSERVED A NESTING PAIR WITH 2 YOUNG IN THE VICINITY IN 1994. ACTIVE NEST OBS DURING 2007 SURVEY, OUTCOME UNKNOWN.
Owner/Manager:	UNKNOWN

Occurrence No.	625	**Map Index:**	23669	**EO Index:**	23765	**Element Last Seen:**	1994-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1994-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-12

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.54719 / -121.85959	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4267147 E599377	**Elevation (ft):**	85
PLSS:	T08N, R01E, Sec. 09, NE (M)	**Acres:**	0.0

Location:	0.5 MILE NORTH OF PUTAH CREEK AND 0.25 MILE WEST OF COUNTY ROAD 95, 5 MILES WEST OF DAVIS.
Detailed Location:	TERRITORY #YO156 FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS, MAPPED TO LOCATION INDICATED ON 1992 ENGLAND FIELD SURVEY FORM. TERRITORY #YO035 FROM CDFW DATABASE ALSO MAPPED HERE, EXACT LOCATION UNKNOWN.
Ecological:	1992: NESTING HABITAT IS RIPARIAN; SURROUNDING FORAGING HABITAT CONSISTED OF AGRICULTURAL FIELDS. 1994: NEST IN OAK SURROUNDED BY AGRICULTURE.
General:	ONE ADULT OBSERVED NESTING DURING ENGLAND'S 1990-92 SURVEY (YO156). NESTING PAIR WITH 2 YOUNG OBSERVED IN 1994 (YO035).
Owner/Manager:	UNKNOWN

Occurrence No.	626	**Map Index:**	23670	**EO Index:**	23764	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-12

Quad Summary:	Merritt (3812157)
County Summary:	Solano, Yolo

Lat/Long:	38.53875 / -121.87314	**Accuracy:**	non-specific area
UTM:	Zone-10 N4266195 E598208	**Elevation (ft):**	75
PLSS:	T08N, R01E, Sec. 16, SW (M)	**Acres:**	10.0

Location:	PUTAH CREEK AT MARTINEZ LANE, ABOUT 0.25 MILE SW OF THE S END OF KINSELLA LANE AND 6 MILES WSW OF DAVIS.
Detailed Location:	TERRITORY YO207 FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS. MAPPED TO 1992 ENGLAND SURVEY FORM AND COORDINATES FOR SITE YO-141 FROM 2008 ESTEP REPORT.
Ecological:	1992 NEST IN 55' OAK; 1994 NEST IN OAK. SURROUNDING HABITAT RIPARIAN & AGRICULTURAL. 2007: NEST IN RIPARIAN WALNUT.
General:	NEST FLEDGED 2 IN 1992. FLEDGED 2 IN 1994. FLEDGED 1 IN 2007.
Owner/Manager:	UNKNOWN

Occurrence No.	630	**Map Index:**	23985	**EO Index:**	12188	**Element Last Seen:**	199X-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	199X-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-12-15

Quad Summary:	Davis (3812156), Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.54176 / -121.75069	**Accuracy:**	80 meters
UTM:	Zone-10 N4266667 E608876	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 16, NE (M)	**Acres:**	0.0

Location:	0.25 MILE NW OF PUTAH CREEK, ON THE UC DAVIS CAMPUS.
Detailed Location:	
Ecological:	SURROUNDING FORAGING HABITAT CONSISTS OF AGRICULTURAL FIELDS.
General:	DFG SWHA #YO211. ONE ADULT OBSERVED NESTING DURING ENGLAND'S 1990-92 SURVEY.
Owner/Manager:	UC-DAVIS

Occurrence No.	718	**Map Index:**	41389	**EO Index:**	41389	**Element Last Seen:**	2004-07-31
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2004-07-31
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-11

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.59005 / -121.83657	**Accuracy:**	specific area
UTM:	Zone-10 N4271927 E601322	**Elevation (ft):**	75
PLSS:	T09N, R01E, Sec. 35, NW (M)	**Acres:**	8.2

Location:	ALONG UNION SCHOOL SLOUGH, ABOUT 0.2 MILE ESE OF THE INTERSECTION OF ROAD 96 AND ROAD 29, NE OF YOLO COUNTY AIRPORT.
Detailed Location:	TERRITORY YO268 FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS. MAPPED TO COORDINATES FROM FIELD SURVEY FORMS (RESSEGUIE SITE MERRITT10).
Ecological:	1994: NEST IN EUCALYPTUS. 1998: AT LEAST 3 NESTS BUILT IN TREES ALONG AN E/W ROW OF EUCS. 1999, 2002 NEST AT E END OF ROW OF EUCS. 2001, 2004 NEST AT W END. SURROUNDING HABITAT INCL. RESIDENTIAL, COMMERCIAL, RUDERAL, PASTURE, & CROPS.
General:	REPORTEDLY ACTIVE EACH YEAR 1991-98 BUT NO YOUNG FLEDGED. 1 FLEDGED IN 1999. ACTIVE/0 FLEDGED IN 2000. 2 FLEDGED IN 2001. 2 FLEDGED IN 2002. NEST MONITORED 4 MAR-31 JUL 2004; 3 FLEDGED.
Owner/Manager:	PVT

Occurrence No.	719	**Map Index:**	41390	**EO Index:**	41390	**Element Last Seen:**	1999-07-05
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-07-25
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-21

Quad Summary:	Merritt (3812157), Winters (3812158)
County Summary:	Yolo

Lat/Long:	38.56151 / -121.87582	**Accuracy:**	80 meters
UTM:	Zone-10 N4268717 E597944	**Elevation (ft):**	90
PLSS:	T08N, R01E, Sec. 04, NW (M)	**Acres:**	0.0

Location:	SOUTH SIDE OF ROAD 31, 0.9 MILE WEST OF ROAD 95, SW OF YOLO COUNTY AIRPORT.
Detailed Location:	RESSEGUIE MERRITT 23. FOLIAGE ON TREE MAKES THE NEST INVISIBLE EXCEPT WHEN STANDING ON THE SHOULDER OF THE ROAD NEXT TO THE NEST TREE.
Ecological:	NEST TREE WAS A COTTONWOOD, LOCATED ON THE SOUTH SHOULDER OF ROAD 31. SURROUNDING HABITAT CONSISTED OF SUNFLOWER CROPS SOUTH AND NORTH OF NEST TREE.
General:	NEST SITE MONITORED FROM 2 JUN-5 JUL 1999; NO YOUNG FLEDGED. INACTIVE IN 2000. 2 ADULTS OBSERVED ON 14 AUG, BUT SITE APPEARED TO BE INACTIVE IN 2001. INACTIVE IN 2002, 2004, AND 2005.
Owner/Manager:	UNKNOWN

Occurrence No.	720	**Map Index:**	41391	**EO Index:**	41391	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-23

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.55871 / -121.84868	**Accuracy:**	specific area
UTM:	Zone-10 N4268437 E600311	**Elevation (ft):**	85
PLSS:	T08N, R01E, Sec. 10, NE (M)	**Acres:**	11.0

Location:	WEST BANK OF DRY SLOUGH, 0.1 MILE SOUTH OF ROAD 31, 0.4 MILE WEST OF ROAD 96, WEST OF DAVIS.
Detailed Location:	1994: TERRITORY #YO036 FROM CDFW SWHA DATABASE; "DRY SL. 0.25 MI SOUTH COVELL, BETWEEN CO RDS 95 & 96;" EXACT NEST TREE LOCATION UNKNOWN. MAPPED TO COORDINATES GIVEN FOR RESSEGUIE'S SITE MERRITT 18 & SITE YO-306 FROM ESTEP, 2008.
Ecological:	1994: NEST IN WALNUT WITHIN RIPARIAN HABITAT. 1999: NEST AT TOP OF VERY TALL EUCALYPTUS IN ROW OF EUCS ALONG THE WEST (=N) BANK OF DRY SLOUGH. 2007: NEST IN RIPARIAN EUCALYPTUS SURROUNDED BY IRRIGATED CROPLAND.
General:	NEST WITH 1 YOUNG OBSERVED IN 1994. NEST MONITORED APR-JUN 1999; INCUBATION OBS BUT NO YOUNG FLEDGED. INACTIVE 2000-01. ADULT OBS NEAR 1999 NEST ON 21 JUL 2004; INADEQUATE OBSERVATION. INACTIVE '05. ACTIVE NEST OBS IN '07, SUCCESS UNKNOWN.
Owner/Manager:	PVT

Occurrence No.	721	**Map Index:**	41392	**EO Index:**	41392	**Element Last Seen:**	1999-06-28
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2004-06-12
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2005-09-20

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.59112 / -121.82146	**Accuracy:**	80 meters
UTM:	Zone-10 N4272063 E602638	**Elevation (ft):**	72
PLSS:	T09N, R01E, Sec. 25, SW (M)	**Acres:**	0.0

Location:	JUST NORTH OF ROAD 29, 0.3 MILE WEST OF DRY SLOUGH, NW OF DAVIS.
Detailed Location:	RESSEGUIE MERRITT 9. TWO BLACK WALNUT TREES ARE FOUND JUST NORTH OF ROAD 29, ON THE EAST SIDE OF A DIRT FARM ROAD, LOCATED WHERE ROAD 97 WOULD OCCUR; THE NEST WAS LOCATED IN THE MORE NORTHERN OF THE TWO TREES.
Ecological:	NEST TREE WAS A BLACK WALNUT; SURROUNDING AREA WAS PLANTED IN TOMATOES AND SUNFLOWERS IN 1999 (GROUND WAS BARE WHEN NEST WAS ESTABLISHED).
General:	34 VISITS WERE MADE TO THIS NEST SITE BETWEEN 12 MAY AND 28 JUN 1999; COPULATION OBSERVED, BUT NO YOUNG WERE FLEDGED. MALE WAS IN BASIC PLUMAGE; OBSERVED SITTING ON THE NEST SEVERAL TIMES. INACTIVE IN 2000, 2001, AND 2004.
Owner/Manager:	PVT

Occurrence No.	728	**Map Index:**	41415	**EO Index:**	41415	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-23

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.56360 / -121.86411	**Accuracy:**	specific area
UTM:	Zone-10 N4268962 E598961	**Elevation (ft):**	85
PLSS:	T08N, R01E, Sec. 04, SE (M)	**Acres:**	10.0

Location:	DRY SLOUGH, 0.25 MILE NW OF THE INTERSECTION OF ROAD 95 AND ROAD 31, JUST SW OF YOLO COUNTY AIRPORT.
Detailed Location:	1994: TERRITORY #YO027 FROM CDFW DATABASE OF SWHA OBSERVATIONS 1979-1994. 1999-2005: MAPPED TO UTMS GIVEN FOR RESSEGUIE SITE MERRITT 22 (E SITE). 2007: MAPPED TO COORDINATES FOR SITE YO-143 FROM 2008 ESTEP REPORT (W SITE).
Ecological:	1994: NEST IN RIPARIAN COTTONWOOD.1999: NEST IN LARGEST COTTONWOOD; AREA BURNED 5-8 JULY. 2000: NEST IN SPRAWLING BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTED OF WHEAT TO THE N AND CORN TO THE S. 2007: NEST IN COTTONWOOD.
General:	NEST WITH 1 YOUNG OBS IN 1994. NEST MONITORED 20 MAR-8 JUL 1999; 2 FLEDGED. NEST MONITORED 28 MAR-12 JUL 2000; 1 FLEDGED. INACTIVE 2001, 2004 (INADEQUATE OBSERVATION), AND 2005. NEST WITH 1 YOUNG OBS DURING 2007 SURVEY.
Owner/Manager:	PVT

Occurrence No.	729	**Map Index:**	41416	**EO Index:**	41416	**Element Last Seen:**	2009-07-07
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-07-07
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-11

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.58526 / -121.85989	**Accuracy:**	specific area
UTM:	Zone-10 N4271370 E599298	**Elevation (ft):**	90
PLSS:	T09N, R01E, Sec. 33 (M)	**Acres:**	10.0

Location:	SOUTH OF THE INTERSECTION OF COUNTY ROAD 95 AND COUNTY ROAD 29, AT THE NORTH END OF THE YOLO COUNTY AIRPORT.
Detailed Location:	TERRITORY YO266 FROM CDFW DATABASE OF SWHA OBSERVATIONS. 1999-2004: NEST TREE AT THE NORTH END OF THE YOLO COUNTY AIRPORT RUNWAY, MAPPED TO UTMS FROM FIELD SURVEY FORMS (RESSEGUIE SITE MERRITT 11). 2009: NEST ON WEST SIDE OF RD 95.
Ecological:	1999-2004: NEST IN WILLOW, SURROUNDED BY FALLOW FIELD YOLO WILDLIFE HABITAT IMPROVEMENT AREA, JUST EAST OF AIRPORT ACCESS ROAD IS USED EXTENSIVELY FOR ADULT PERCHES/HUNTING. 2009: NEST IN EUCALYPTUS AT SOUTHERN EDGE OF EUCALYPTUS GROVE.
General:	NEST W/2 YOUNG OBSERVED, 1993. ACTIVE,1994. 1 FLEDGED IN 1999. 1 CHICK OBS ON 17 JUN 2000, BUT NO YOUNG FLEDGED. ADULTS & SEVERAL OLD NESTS OBS, BUT NO ACTIVE NEST 2001-2002. NO SIGHTINGS IN 2004 (INADEQUATE OBSERVATION). 2 FLEDGED IN 2009.
Owner/Manager:	YOL COUNTY AIRPORT, PVT

Occurrence No.	730	**Map Index:**	41417	**EO Index:**	41417	**Element Last Seen:**	1999-07-21
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-07-25
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-29

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.56130 / -121.86121	**Accuracy:**	80 meters
UTM:	Zone-10 N4268710 E599217	**Elevation (ft):**	90
PLSS:	T08N, R01E, Sec. 09, NE (M)	**Acres:**	0.0

Location:	SOUTH SIDE OF ROAD 31, 0.1 MILE WEST OF ROAD 95, SOUTH OF YOLO COUNTY AIRPORT.
Detailed Location:	RESSEGUIE MERRITT 21. NEST WAS LOCATED IN A BLACK WALNUT (THE FIFTH LARGE TREE WEST OF ROAD 95), GROWING ON THE SHOULDER OF ROAD 31. NEST WAS ON THE EAST SIDE OF THE TREE, BUT COLLAPSED BEFORE THE LAST BIRD FLEDGED.
Ecological:	NEST TREE WAS A BLACK WALNUT; SURROUNDED MAINLY BY TOMATO FIELDS.
General:	39 VISITS WERE MADE TO THIS SITE BETWEEN 28 MAR - 21 JUL 1999; 3 YOUNG FLEDGED. THE FIRST JUVENILE TO FLEDGE WAS FOUND SMASHED IN THE MIDDLE OF ROAD 31, ABOUT 20 FEET FROM NEST, ON 16 JUL 1999. INACTIVE IN 2000, 2001, 2004, AND 2005.
Owner/Manager:	UNKNOWN

Occurrence No.	731	**Map Index:**	41418	**EO Index:**	41418	**Element Last Seen:**	2005-08-15
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-08-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-14

Quad Summary: Merritt (3812157)

County Summary: Yolo

Lat/Long:	38.56151 / -121.82879	**Accuracy:**	specific area
UTM:	Zone-10 N4268769 E602041	**Elevation (ft):**	75
PLSS:	T08N, R01E, Sec. 02, SE (M)	**Acres:**	17.0

Location: SOUTH SIDE OF ROAD 31 (CO HWY E6, COVELL BLVD), 0.3 MILE WEST OF ROAD 97, SE OF YOLO COUNTY AIRPORT.

Detailed Location: 1991 SIGHTING "1.8 MILES W OF RD 98 ON W. COVELL." MAPPED TO UTMS FROM FIELD SURVEY FORMS, RESSEGUIE SITE MERRITT16. 1999-2000 NEST TREE ON SOUTH SIDE OF ROAD. 2001 NEST TREE ABOUT 0.2 MILE FURTHER EAST.

Ecological: 1999-2000 NEST AT 80% HEIGHT OF LARGE EUCALYPTUS TREE. 2001 NEST IN HEAVILY-PRUNED BLACK WALNUT; SURROUNDING FORAGING HABITAT INCLUDED SUDAN GRASS TO THE NORTH AND WHEAT, TOMATOES, AND SAFFLOWER TO THE SOUTH.

General: 1 SWHA PERCHED NEAR NEST OBSERVED, 1991. NEST MONITORED 28 MAR-24 JUL 1999; 2 (OF 3 CHICKS) FLEDGED. 1 FLEDGED, 2000. 2 FLEDGED, 2001. ACTIVE/0 FLEDGED IN 2002. 2 FLEDGED, 2004. NEST MONITORED 15 APR-15 AUG 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No.	746	**Map Index:**	41511	**EO Index:**	41511	**Element Last Seen:**	2002-07-25
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-08-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Stable	**Record Last Updated:**	2011-09-21

Quad Summary: Merritt (3812157)

County Summary: Yolo

Lat/Long:	38.56584 / -121.78382	**Accuracy:**	80 meters
UTM:	Zone-10 N4269301 E605953	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 05, SW (M)	**Acres:**	0.0

Location: 0.3 MILE NORTH OF ROAD 31 AND 0.1 MILE EAST OF ROAD 99, NW OF DAVIS.

Detailed Location: 1998 NEST WAS LOCATED IN A PINE ADJACENT TO THE DRIVEWAY/ROAD 99 JUNCTION. 1999 NEST TREE WAS A SMALL, RED GUM EUCALYPTUS; 2001-2002 NEST TREE WAS THE SAME REDGUM USED IN 1999. RESSEGUIE SITE MERRITT 14.

Ecological: 2001 NEST TREE WAS A REDGUM EUCALYPTUS; SURROUNDED BY FARMSTEADS TO THE NORTH AND SOUTH, A SMALL VINEYARD TO THE NORTH, AND CULTIVATED LAND IN ALL DIRECTIONS.

General: 2 FLEDGED IN 1998. 2 FLEDEGED IN 1999. 2 FLEDGED IN 2000. 2 FLEDGED IN 2001. 1 FLEDGED IN 2002. SWHA OBSERVED SPARRING WITH CROWS ON 30 MAY 2004. SITE WAS POORLY OBSERVED IN 2005; UNKNOWN IF ACTIVE.

Owner/Manager: PVT

Occurrence No.	748	**Map Index:**	41536	**EO Index:**	41536	**Element Last Seen:**	1999-06-06
Occ. Rank:	Poor			**Presence:**	Presumed Extant	**Site Last Seen:**	2004-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-03

Quad Summary: Merritt (3812157), Winters (3812158)

County Summary: Yolo

Lat/Long:	38.60462 / -121.87692	**Accuracy:**	80 meters
UTM:	Zone-10 N4273500 E597789	**Elevation (ft):**	100
PLSS:	T09N, R01E, Sec. 29, NE (M)	**Acres:**	0.0

Location: WEST SIDE OF COUNTY ROAD 94, 0.9 MILE NORTH OF COUNTY ROAD 29, NNW OF YOLO COUNTY AIRPORT.

Detailed Location: RESSEGUIE WINTERS 3. NEST IS FOUND NEAR THE TOP OF THE NEST TREE. NEST TREE IS LOCATED JUST SOUTH OF THE MAILBOXES FOR 23050 AND 23054 ROAD 94.

Ecological: NEST TREE IS A SMALL EUCALYPTUS GROWING ON THE WEST SHOULDER OF ROAD 94. SURROUNDING AREA IS ACTIVELY FARMED.

General: NEST SITE MONITORED 29 MAY & 6 JUN 1999; NEST-BUILDING OBSERVED, BUT NO SWHA WERE OBSERVED AFTER 6 JUN 1999. INACTIVE IN 2000 AND 2001. INADEQUATE OBSERVATION IN 2002 & 2004, BUT PROBABLY INACTIVE.

Owner/Manager: UNKNOWN

Occurrence No.	868	**Map Index:**	43654	**EO Index:**	43654	**Element Last Seen:**	2009-07-15
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-07-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-10

Quad Summary: Merritt (3812157)

County Summary: Yolo

Lat/Long:	38.61959 / -121.81266	**Accuracy:**	80 meters
UTM:	Zone-10 N4275232 E603363	**Elevation (ft):**	65
PLSS:	T09N, R01E, Sec. 13, S (M)	**Acres:**	0.0

Location: SOUTH SIDE OF COUNTY ROAD 27, ABOUT 0.5 MILE WEST OF ROAD 98 AND 4 MILES SOUTH OF WOODLAND.

Detailed Location: MAPPED TO UTMS FROM FIELD SURVEY FORMS FOR RESSEGUIE SITE MERRITT 25, AND POINT FROM CDFW SHAPEFILE OF NEST RECORDS FROM 2009. NESTS IN ROW OF MIXED TREES ON S SHOULDER OF ROAD 27.

Ecological: 2000: NEST IN LOCUST TREE, WITH CULTIVATED LAND TO THE SOUTH AND NW, AND ALFALFA TO THE NORTH; OCCUPIED BY RED-TAILED HAWKS 13 JAN-20 FEB 2000. SEVERAL NESTS IN VICINITY USED 2002-2009.

General: 2 FLEDGED IN 2000. NO ACTIVITY OBSERVED IN 2001. NEST SITE MONITORED 10 APR-2 AUG 2002; ADULTS REGULARLY DEFENDED NEST, BUT NO CHICK DETECTED. 1 FLEDGED IN 2004. NEST WITH YOUNG OBS 15 JUL 2009.

Owner/Manager: YOL COUNTY

Occurrence No.	869	**Map Index:**	43656	**EO Index:**	43656	**Element Last Seen:**	2009-06-18
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-06-18
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-16

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.50452 / -121.78499	**Accuracy:**	80 meters
UTM:	Zone-10 N4262494 E605941	**Elevation (ft):**	55
PLSS:	T08N, R02E, Sec. 29, SW (M)	**Acres:**	0.0

Location:	SOUTHEAST SIDE OF THE KIDWELL EXIT OF I-80 (KIDWELL AND SPARLING), SW OF DAVIS.
Detailed Location:	MAPPED TO UTMS FROM FIELD SURVEY FORMS FOR RESSEGUIE SITE MERRITT 28. 2003 & 2009 DETECTIONS FROM CDFW NEST RECORDS.
Ecological:	NEST TREES WERE COTTONWOODS WITHIN A GROVE; SURROUNDING FORAGING HABITAT CONSISTED OF TOMATOES TO THE EAST, ALFALFA TO THE SOUTH AND NE, AND CULTIVATED LAND ACROSS I-80.
General:	NEST MONITORED 7 MAR-17 JUL 2000; 2 FLEDGED. FEW SIGHTINGS IN 2001-02. NEST W/1 FEATHERED YOUNG OBS 3 JUN 2003. NEST MONITORED 5 MAR-24 JUL 2004; 3 FLEDGED. NEST MONITORED 11 MAR-9 SEP 2005; 1 FLEDGED. NEST WITH YOUNG OBSERVED 18 JUN 2009.
Owner/Manager:	CALTRANS

Occurrence No.	870	**Map Index:**	43658	**EO Index:**	43658	**Element Last Seen:**	2005-07-19
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-07-19
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-21

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51734 / -121.85311	**Accuracy:**	80 meters
UTM:	Zone-10 N4263841 E599983	**Elevation (ft):**	85
PLSS:	T08N, R01E, Sec. 27, NW (M)	**Acres:**	0.0

Location:	WEST SIDE OF STEVENSON ROAD BRIDGE, JUST NORTH OF THE INTERSECTION OF PHILLIPS ROAD, 6.5 MILES NORTH OF DIXON.
Detailed Location:	2000-2001 NEST TREE WAS THE 4TH TREE FROM THE SOUTH IN A ROW OF TALL EUCALYPTUS RUNNING ALONG THE WEST SHOULDER OF THE ROAD. 2002 NEST TREE WAS THE 5TH TREE FROM THE SOUTH; NEST WAS AT THE 75% HEIGHT.
Ecological:	NEST TREE WAS A EUCALYPTUS; SURROUNDING FORAGING HABITAT CONSISTED OF CORN TO THE SE, WHEAT TO THE WEST, AND WALNUT ORCHARD ACROSS THE ROAD TO THE EAST.
General:	NEST MONITORED 18 MAR-10 JUL 2000; 1 FLEDGED. NEST MONITORED 9 APR-19 JUL 2001; 1 FLEDGED. NEST MONITORED 31 MAY-18 JUL 2002; 2 CHICKS, 1 FLEDGED. NEST MONITORED 22 MAR-24 JUL 2004; 1 FLEDGED. NEST MONITORED 25 APR-19 JUL 2005; 1 FLEDGED.
Owner/Manager:	SOL COUNTY

Occurrence No.	871	**Map Index:**	43659	**EO Index:**	43659	**Element Last Seen:**	2016-03-31
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2016-03-31
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-07-19

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.56135 / -121.81281	**Accuracy:**	specific area
UTM:	Zone-10 N4268769 E603433	**Elevation (ft):**	65
PLSS:	T08N, R01E, Sec. 12, NW (M)	**Acres:**	7.1

Location:	JUST SW OF THE INTERSECTION OF ROAD 31 AND ROAD 97D, WEST OF DAVIS.
Detailed Location:	2000-01 NEST TREE WAS FIRST LARGE BLACK WALNUT W OF ROAD 97D. 2002 NEST AT 80% HEIGHT ON N SIDE OF FIRST BLACK WALNUT S OF ROAD 31, ON W SHOULDER OF ROAD 97D. RESSEGUIE SITE MERRITT 40; SITE YO-246 FROM 2008 ESTEP REPORT.
Ecological:	NESTS IN BLACK WALNUTS; SURROUNDING FORAGING HABITAT CONSISTED OF CORN TO THE SOUTH AND TOMATOES TO THE NORTH. 2016: TREES SUITABLE FOR NESTING SEEM TO BE A RARE RESOURCE.
General:	2 FLEDGED IN 2000. NEST MONITORED MAR-AUG 2001; NEST & COPULATION OBSERVED, BUT NO CHICKS. NEST MONITORED APR-JUL 2002; 2 FLEDGED. ACTIVE/0 YOUNG, 2004-05. NEST W/2 YOUNG OBS, 2007. NEST W/YOUNG OBS 24 JUN 2009. PAIR NEAR NEST, 31 MAR 2016.
Owner/Manager:	UNKNOWN

Occurrence No.	873	**Map Index:**	43663	**EO Index:**	43663	**Element Last Seen:**	2000-07-07
Occ. Rank:	Fair			**Presence:**	Possibly Extirpated	**Site Last Seen:**	2004-06-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2006-04-24

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.56538 / -121.77252	**Accuracy:**	80 meters
UTM:	Zone-10 N4269262 E606938	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 05, SE (M)	**Acres:**	0.0

Location:	0.3 MILE NORTH OF COVELL BOULEVARD, NORTH OF THE END OF SUTTER PLACE, DAVIS
Detailed Location:	NEST TREE IS THE MOST NORTHERN TREE IN A ROW OF NORTH-SOUTH BLACK WALNUTS WHOSE SOUTH END LIES AT THE NORTH OF THE END OF SUTTER PLACE; NEST IS LOCATED NEAR THE TOP, ON THE NORTH SIDE, OF THE MOST NORTHERN TREE IN THE ROW.
Ecological:	NEST TREE WAS A BLACK WALNUT; SURROUNDED BY SUTTER DAVIS HOSPITAL, PARKING LOTS, AND ASSOCIATED BUILDINGS. 2004: AN EXERCSIE ROUTE NOW RUNS ALONG THE BASE OF THE TREES THAT REMAIN; MAJOR LAND DEVELOPMENT TO THE FIELD JUST EAST.
General:	NEST MONITORED 23 APR-07 JUL 2000; 1 FLEDGED. ADULTS OBSERVED DEFENDING THE 2000 NEST SITE ON 28 JUN 2001 AND IN THE AREA ON 18 JUL 2001; NO NESTING OBSERVED. 1 ADULT OBSERVED IN 2002; NO NEST OR CHICKS SEEN. NO ADULTS SEEN IN 2004.
Owner/Manager:	PVT

Occurrence No.	916	**Map Index:**	43787	**EO Index:**	43787	**Element Last Seen:**	2005-08-14
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-08-14
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-16

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51007 / -121.77867	**Accuracy:**	80 meters
UTM:	Zone-10 N4263117 E606484	**Elevation (ft):**	55
PLSS:	T08N, R02E, Sec. 29, NW (M)	**Acres:**	0.0

Location:	SPARLING ROAD (I-80 FRONTAGE ROAD), 0.5 MILE NE OF THE KIDWELL EXIT, SW OF DAVIS.
Detailed Location:	MAPPED TO UTMS FROM FIELD SURVEY FORMS FOR RESSEGUIE SITE MERRITT 29. 2003 DETECTION FROM CDFW DATABASE OF NEST RECORDS, 2000-2004.
Ecological:	NEST TREES WERE BLACK WALNUTS ON A FARMYARD CONTAINING NUMEROUS LARGE DECIDUOUS TREES. SURROUNDED BY ALFALFA TO THE SW, A FARMSTEAD TO THE EAST, AND CULTIVATED LAND IN ALL OTHER DIRECTIONS.
General:	NEST-BUILDING OBSERVED IN 2000 BUT 0 FLEDGED. 1 FLEDGED IN 2001. NEST MONITORED 2 APR-5 AUG 2002; ADULTS PRESENT, BUT NO CHICKS. NEST WITH 2 FEATHERED YOUNG OBS 3 JUN 2003. 1 FLEDGED IN 2004. 1 FLEDGED IN 2005.
Owner/Manager:	PVT

Occurrence No.	917	**Map Index:**	43791	**EO Index:**	43791	**Element Last Seen:**	2004-07-21
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2004-08-14
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-07-29

Quad Summary:	Merritt (3812157), Woodland (3812167)
County Summary:	Yolo

Lat/Long:	38.62450 / -121.78541	**Accuracy:**	non-specific area
UTM:	Zone-10 N4275808 E605728	**Elevation (ft):**	60
PLSS:	T09N, R02E, Sec. 18, W (M)	**Acres:**	35.0

Location:	ALONG COUNTY RD 99 AT COUNTY RD 27 AND ABOUT 0.6 MILE NORTH, ABOUT 4 MILES NORTH OF DAVIS.
Detailed Location:	4 NEST SITES, FROM S- A: RESSEGUIE SITE MERRITT 55, IN FARMYARD AT 22094 RD 99. B: MERRITT 34, IN FARMYARD AT 38892 RD 27. C: MERRITT 54, ALONG RD 99 ABOUT 0.3 MI N OF RD 27, NEAR #21692 RD 99. D: TERRITORIES YO264/YO060 FROM CDFW DATABASE.
Ecological:	A: NEST IN LOCUST SURROUNDED BY TOMATO FIELDS W/ALFALFA TO E. B: NEST SUSPECTED IN GROUP OF FARMYARD TREES. C: IN SMALL ROADSIDE OAK IN 2002, LARGE VALLEY OAK NEAR HOUSE IN 2004; AG FIELDS TO E. D: FIR IN 1985, FARMYARD COTTONWOOD IN '94.
General:	SWHA OBSERVED IN AREA, 1991. A: ACTIVE/0 YOUNG 2001-02. SWHA OBS/NO NEST, '04. B: NEST-BUILDING/ABANDONED, '00. ADULT OBS IN AREA, '00. NO SWHA '01, '02, '04. C: 1 FLEDGED '02. 2 FLEDGED '04. D: NEST FAILED, 1985. NEST W/2 YOUNG OBS, '94.
Owner/Manager:	PVT, UNKNOWN

Occurrence No.	919	**Map Index:**	43799	**EO Index:**	43799	**Element Last Seen:**	2005-07-19
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-07-19
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-15

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51763 / -121.82172	**Accuracy:**	specific area
UTM:	Zone-10 N4263908 E602720	**Elevation (ft):**	70
PLSS:	T08N, R01E, Sec. 23, SE (M)	**Acres:**	10.0

Location:	ALONG THE EAST SIDE OF CURREY ROAD ABOUT 0.1 MILE NORTH OF PHILLIPS ROAD, 5 MILES NNW OF DIXON.
Detailed Location:	TERRITORY "SL" (NO # ASSIGNED) FROM CDFW DATABASE OF SWAINSON'S HAWK OBSERVATIONS 1979-1994. MAPPED TO UTMS FROM FIELD SURVEY FORMS (RESSEGUIE SITE MERRITT 50) & CDFW DATABASE OF SWHA NEST RECORDS 2000-2004.
Ecological:	2000-2005: NEST TREES WERE LARGE BLUE GUM EUCALYPTI ON THE EAST SHOULDER OF CURREY ROAD. HABITAT INCLUDED WHEAT TO THE EAST, CORN TO THE SE, AND A VINEYARD ACROSS THE ROAD TO THE WEST.
General:	PAIR & 2 YOUNG OBSERVED, 1994. NEST MONITORED 27 APR-3 AUG 2000; 2 FLEDGED. 1 FLEDGED IN 2001. NEST MONITORED 31 MAY-24 JUL 2002; 1 FLEDGED. ADULTS PRESENT 22 MAR-22 JUN 2004; OUTCOME UNKNOWN. NEST MONITORED 14 APR-19 JUL 2005; 1 FLEDGED.
Owner/Manager:	UNKNOWN

Occurrence No.	1094	**Map Index:**	50969	**EO Index:**	50969	**Element Last Seen:**	2001-08-02
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-08-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-21

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.50082 / -121.82221	**Accuracy:**	80 meters
UTM:	Zone-10 N4262041 E602701	**Elevation (ft):**	75
PLSS:	T08N, R01E, Sec. 35 (M)	**Acres:**	0.0

Location:	CURREY ROAD, 1 MILE SOUTH OF PHILLIPS ROAD, 4 MILES SW OF DAVIS.
Detailed Location:	NEST TREE WAS LOCATED WITHIN A GROUP OF BLACK WALNUTS, OF VARIOUS SIZE AND CONDITION, ON BOTH ROAD SHOULDERS, WHERE A DIRT SIDE ROAD RUNS EAST OF CURREY ROAD. FINAL NEST FOUND AT THE 95% HEIGHT OF THE SOUTHMOST WEST SHOULDER BLACK WALNUT.
Ecological:	NEST TREE WAS A BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTED OF CORN TO THE EAST AND SUDAN GRASS TO THE WEST.
General:	NEST SITE MONITORED BETWEEN 30 MAR-2 AUG 2001; 1 FLEDGED. INACTIVE IN 2002 AND 2004. NEST SITE MONITORED 25 APR-20 AUG 2005; SWHA PAIR OBSERVED ON 11 AUG, BUT AT NO OTHER TIME.
Owner/Manager:	PVT?

Occurrence No.	1095	**Map Index:**	50970	**EO Index:**	50970	**Element Last Seen:**	2004-08-12
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-08-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-21

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.52276 / -121.80448	**Accuracy:**	80 meters
UTM:	Zone-10 N4264496 E604215	**Elevation (ft):**	65
PLSS:	T08N, R01E, Sec. 24, SE (M)	**Acres:**	0.0

Location:	WEST SIDE OF PEDRICK ROAD, 0.3 MILE SOUTH OF PUTAH CREEK, 2.5 MILES SW OF DAVIS.
Detailed Location:	NEST TREE WAS LOCATED ALONG A DIRT ROAD LEADING WEST FROM PEDRICK ROAD; NEST WAS LOCATED 6 FEET BELOW THE TOP OF THE EASTMOST OF THREE BLACK WALNUTS, CLOSELY-SPACED ALONG THE SOUTH SIDE OF THE DIRT ROAD.
Ecological:	NEST TREE WAS A BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTED OF TOMATOES TO THE NORTH AND WHEAT TO THE EAST, ACROSS THE ROAD.
General:	NEST MONITORED 22 APR-2 AUG 2001; 1FLEDGED. NEST SITE MONITORED 15 MAY-9 JUL 2002; ADULTS PRESENT, BUT NO NEST SEEN. NEST MONITORED 22 MAR-12 AUG 2004; 1 CHICK SEEN ON 19 JUN. NEST SITE MONITORED 25 APR-1 AUG 2005; 1 ADULT OBSERVED TWICE.
Owner/Manager:	PVT

Occurrence No.	1096	**Map Index:**	50977	**EO Index:**	50977	**Element Last Seen:**	2002-07-24
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-09-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-21

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.50749 / -121.82200	**Accuracy:**	80 meters
UTM:	Zone-10 N4262782 E602710	**Elevation (ft):**	70
PLSS:	T08N, R01E, Sec. 26 (M)	**Acres:**	0.0

Location:	EAST SIDE OF CURREY ROAD, 0.6 MILE SOUTH OF PHILLIPS ROAD, 3.5 MILES SW OF DAVIS.
Detailed Location:	NEST IS LOCATED HIGH ON THE EAST SIDE OF THE NORTHERNMOST EAST SHOULDER BLACK WALNUTS; COTTONWOODS USED FRUQUENTLY AS A PERCH.
Ecological:	NEST TREE WAS A BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTED OF CULTIVATED LAND TO THE EAST AND WEST. COTTONWOODS WERE FREQUENTLY USED AS A PERCH.
General:	NEST MONITORED 9 APR-11 AUG 2001; 1 FLEDGED. NEST MONITORED 25 JUN-24 JUL 2002; 1 FLEDGED. ADULTS PRESENT IN 2004 AND 2005, BUT NO NEST OR CHICKS DETECTED.
Owner/Manager:	UNKNOWN

Occurrence No.	1097	**Map Index:**	50983	**EO Index:**	50983	**Element Last Seen:**	2005-09-13
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-09-13
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-21

Quad Summary: Merritt (3812157)

County Summary: Solano

Lat/Long:	38.51213 / -121.83464	**Accuracy:**	specific area
UTM:	Zone-10 N4263283 E601601	**Elevation (ft):**	75
PLSS:	T08N, R01E, Sec. 26 (M)	**Acres:**	7.0

Location: 0.3 MILE SOUTH OF PHILLIPS ROAD, BETWEEN STEVENSON BRIDGE ROAD AND CURREY ROAD, 4 MILES SW OF DAVIS.

Detailed Location: NEST TREE WAS WITHIN A GROUP OF COTTONWOODS AT THE EDGE OF A SMALL RESERVOIR; 2002 NEST LOCATED AT THE 85% HEIGHT OF THE SECOND TREE FROM THE WEST, IN THE SOUTH ROW. 2004 AND 2005 NESTS WERE IN THE SOUTH ROW.

Ecological: NEST TREE WAS A COTTONWOOD; SURROUNDING FORAGING HABITAT CONSISTED OF CULTIVATED LAND IN ALL DIRECTIONS.

General: NEST MONITORED 22 APR-2 AUG 2001; NEST BUILDING AND BROODING SEEN. NEST SITE MONITORED 15 MAY-18 JUL 2002; ADULTS OBS BUT NO NEST DETECTED. NEST MONITORED 15 APR-15 JUL 2004; 2 FLEDGED. NEST MONITORED 14 APR-13 SEP 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No.	1098	**Map Index:**	50984	**EO Index:**	50984	**Element Last Seen:**	2002-07-29
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-08-11
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-21

Quad Summary: Merritt (3812157)

County Summary: Solano

Lat/Long:	38.50854 / -121.75725	**Accuracy:**	80 meters
UTM:	Zone-10 N4262973 E608354	**Elevation (ft):**	45
PLSS:	T08N, R02E, Sec. 28 (M)	**Acres:**	0.0

Location: WEST SIDE OF OLD DAVIS ROAD, 0.4 MILE NORTH OF BECKER, SOUTH OF DAVIS.

Detailed Location: NEST IS LOCATED AT THE 90% HEIGHT OF THE NEST TREE.

Ecological: NEST TREE WAS A BLACK WALNUT; SURROUNDING FORAGING HABITAT CONSISTED OF WHEAT TO THE EAST AND TOMATOES TO THE WEST.

General: NEST MONITORED 23 JUN-2 AUG 2001; 2 FLEDGED. NEST MONITORED 15 APR-29 JUL 2002; INCUBATION OBSERVED 12 MAY 2002, BUT NO CHICKS SEEN. NO SWHA'S SEEN IN 2004, BUT MUCH WHITEWASH BELOW NEST IN RAGGED BLACK WALNUT. INACTIVE IN 2005.

Owner/Manager: PVT?

Occurrence No.	1101	**Map Index:**	50987	**EO Index:**	50987	**Element Last Seen:**	2004-07-21
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2004-07-21
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-07-18

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.61199 / -121.76946	**Accuracy:**	80 meters
UTM:	Zone-10 N4274438 E607135	**Elevation (ft):**	55
PLSS:	T09N, R02E, Sec. 20, SE (M)	**Acres:**	0.0

Location:	MYRTLE LANE, 0.5 MILE SOUTH OF ROAD 27, 4.5 MILES SOUTH OF WOODLAND.
Detailed Location:	NEST TREE IS LOCATED AT FARMSTEAD #22510; NEST LOCATED AT THE 85% HEIGHT ON THE NORTH SIDE OF THE TALLEST TREE WEST OF THE HOUSE. SWHA REPORTEDLY SWHA HAVE NESTED AT THIS SITE SINCE AT LEAST 1999.
Ecological:	NEST TREE IS A VALLEY OAK; SURROUNDING FORAGING HABITAT CONSISTS OF EXTENSIVE ALFALFA IN ALL DIRECTIONS, EXCEPT TO THE NORTH, WHICH IS CULTIVATED.
General:	NEST MONITORED 14 APR-11 AUG 2001; 1 FLEDGED. NEST MONITORED 12 APR-5 AUG 2002; ADULTS DEFENDING, BUT NO YOUNG FLEDGED. NEST SITE MONITORED 22 MAY-21 JUL 2004; ADULT DEFENDING, BUT NO NEST/YOUNG SEEN.
Owner/Manager:	PVT

Occurrence No.	1287	**Map Index:**	53331	**EO Index:**	53331	**Element Last Seen:**	2002-07-10
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2004-08-08
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-07-18

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.57275 / -121.80301	**Accuracy:**	80 meters
UTM:	Zone-10 N4270045 E604271	**Elevation (ft):**	65
PLSS:	T08N, R02E, Sec. 06, NW (M)	**Acres:**	0.0

Location:	EAST SIDE OF ROAD 98, 0.3 MILE SOUTH OF ROAD 30, NW OF DAVIS.
Detailed Location:	NEST TREE IS THE FIRST BLACK WALNUT NORTH OF THE FATTEST-TRUNKED TREE ON THE EAST ROAD SHOULDER; 2002 NEST FOUND AT THE 95% HEIGHT OF THE NEST TREE.
Ecological:	NEST TREE IS A BLACK WALNUT; SURROUNDED BY ALFALFA TO THE NE AND CULTIVATED LAND TO THE SE AND WEST.
General:	NEST MONITORED 25 MAY-10 JUL 2002; 2 FLEDGED. NEST SITE MONITORED 26 APR-8 AUG 2004; ADULTS PRESENT 16 JUN AND 21 JUL, WITH NO OBSERVATIONS IN BETWEEN.
Owner/Manager:	PVT?

Occurrence No.	1296	**Map Index:**	53569	**EO Index:**	53569	**Element Last Seen:**	2004-08-08
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2004-08-08
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-07-18

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.59051 / -121.81670	**Accuracy:**	80 meters
UTM:	Zone-10 N4272001 E603053	**Elevation (ft):**	70
PLSS:	T09N, R01E, Sec. 36, NW (M)	**Acres:**	0.0

Location:	DRY SLOUGH, JUST DOWNSTREAM (WEST) OF THE ROAD 29 BRIDGE, 3 MILES NW OF DAVIS.
Detailed Location:	
Ecological:	NEST TREE IS A WILLOW, WITHIN A STRIP OF RIPARIAN HABITAT; SURROUNDED BY CULTIVATED LAND ALL AROUND THE RIPARIAN STRIP.
General:	NEST MONITORED 10 APR-19 JUL 2002; 1 FLEDGED. NEST MONITORED 19 MAY-8 AUG 2004; 1 FLEDGED.
Owner/Manager:	PVT

Occurrence No.	1345	**Map Index:**	56596	**EO Index:**	56612	**Element Last Seen:**	2005-09-09
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-09-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-21

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51565 / -121.77796	**Accuracy:**	80 meters
UTM:	Zone-10 N4263738 E606537	**Elevation (ft):**	55
PLSS:	T08N, R02E, Sec. 29 (M)	**Acres:**	0.0

Location:	AT THE END OF OLMO ROAD, 1.5 MILES SW OF UC DAVIS.
Detailed Location:	RESSEGUIE'S MERRITT 38. PRESUMED NESTING IN 2001-02; UNABLE TO CONFIRM NESTING BECAUSE ACCESS WAS DENIED. 2004 NEST WAS ON THE EAST LOBE OF A RAGGED BLACK WALNUT, NORTH OF THE HOUSE AT THIS FARMSTEAD, WHERE THERE ARE MANY VARIED TREES.
Ecological:	NEST TREE WAS A BLACK WALNUT; CULTIVATED LAND TO THE WEST.
General:	NEST MONITORED 10 APR-15 AUG 2004; 1 YOUNG FLEDGED. NEST MONITORED 31 MAR-9 SEP 2005; 2 FLEDGED.
Owner/Manager:	PVT

Occurrence No.	1346	**Map Index:**	56624	**EO Index:**	56640	**Element Last Seen:**	2004-08-08
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2004-08-08
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-09-02

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.61228 / -121.76194	**Accuracy:**	80 meters
UTM:	Zone-10 N4274479 E607790	**Elevation (ft):**	55
PLSS:	T09N, R02E, Sec. 21, NW (M)	**Acres:**	0.0

Location:	NORTH SIDE OF ROAD 27A, 0.2 MILE EAST OF HIGHWAY 113, 3 MILES NORTH OF DAVIS.
Detailed Location:	RESSEGUIE'S MERRITT 45. 2004 NEST WAS LOCATED (ALTHOUGH NOT VISIBLE) IN ONE OF TWO TIGHTLY-SPACED BLACK WALNUTS ON THE NORTH ROAD SHOULDER.
Ecological:	NEST TREE IS A BLACK WALNUT.
General:	NEST SITE MONITORED 26 MAR-8 AUG 2004; ADULTS OBSERVED CARRYING TWIGS TO PRESUMED NEST ON 26 MAR 2004. ADULTS PRESENT THROUGH 14 JUN 2004, BUT NO SWHA OBSERVATIONS AFTER THAT DATE.
Owner/Manager:	PVT

Occurrence No.	1347	**Map Index:**	56625	**EO Index:**	56641	**Element Last Seen:**	2005-07-30
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-07-30
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-21

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.50295 / -121.75786	**Accuracy:**	80 meters
UTM:	Zone-10 N4262352 E608308	**Elevation (ft):**	45
PLSS:	T08N, R02E, Sec. 33, NE (M)	**Acres:**	0.0

Location:	NORTH SIDE OF OLD DAVIS ROAD, 2 MILES SOUTH OF DAVIS.
Detailed Location:	RESSEGUIE'S MERRITT 71. 2004 NEST WAS LOCATED AT THE 95% HEIGHT OF THE 7TH TREE WEST OF THE NORTH LEG OF OLD DAVIS ROAD. 2005 NEST TREE WAS THE SAME TREE THAT WAS USED IN 2004.
Ecological:	NEST TREE WAS A BLACK WALNUT; SURROUNDED BY ALFALFA TO THE NORTH AND CULTIVATED LAND TO THE SOUTH AND EAST.
General:	NEST MONITORED 18 MAR-2 AUG 2004; 3 YOUNG FLEDGED. NEST MONITORED 17 MAR-30 JUL 2005; 2 FLEDGED.
Owner/Manager:	PVT?

Occurrence No.	1348	**Map Index:**	56638	**EO Index:**	56654	**Element Last Seen:**	2004-07-15
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2004-07-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-21

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51429 / -121.79705	**Accuracy:**	80 meters
UTM:	Zone-10 N4263565 E604875	**Elevation (ft):**	65
PLSS:	T08N, R02E, Sec. 30 (M)	**Acres:**	0.0

Location:	KIDWELL RANCH HEADQUARTERS, 1.6 MILES SW OF THE INTERSECTION OF I-80 AND HIGHWAY 113, SW OF DAVIS.
Detailed Location:	RESSEGUIE'S MERRITT 72. 2004 WAS THE FIRST YEAR THAT ENTRY WAS PERMITTED TO THIS SITE LOCATED ON PRIVATE PROPERTY. 2004 NEST WAS LOCATED AT THE 90% HEIGHT OF A TREE IN THE WEST ROW, ABOUT THE 15TH TREE FROM THE NORTH END.
Ecological:	NEST TREE WAS A BLACK WALNUT; SURROUNDED BY ALFALFA TO THE EAST AND WEST (EXCEPT FOR A GOAT PEN IMMEDIATELY TO THE EAST).
General:	NEST MONITORED 22 MAR-15 JUL 2004; 2 YOUNG FLEDGED. NEST MONITORED 25 APR-19 JUL 2005; 1 FLEDGED.
Owner/Manager:	PVT

Occurrence No.	1349	**Map Index:**	56639	**EO Index:**	56655	**Element Last Seen:**	2005-08-01
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-08-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-21

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51460 / -121.79048	**Accuracy:**	80 meters
UTM:	Zone-10 N4263607 E605447	**Elevation (ft):**	60
PLSS:	T08N, R02E, Sec. 30 (M)	**Acres:**	0.0

Location:	KIDWELL RANCH, 0.3 MILE EAST OF RANCH HEADQUARTERS, 1.3 MILES SW OF THE I-80 AND HIGHWAY 113 JUNCTION, SW OF DAVIS.
Detailed Location:	RESSEGUIE'S MERRITT 75. 2004 NEST WAS LOCATED AT THE 85% HEIGHT, ON THE WEST SIDE, OF THE THIRD TREE FROM THE NORTH OF THE EASTERN NORTH-SOUTH ROW OF BLACK WALNUTS, WITH A DITCH IN BETWEEN.
Ecological:	NEST TREE WAS A BLACK WALNUT; SURROUNDED BY ALFALFA TO THE EAST AND CULTIVATED LAND TO THE WEST.
General:	NEST MONITORED 10 APR-15 JUL 2004; 1 YOUNG FLEDGED. NEST SITE MONITORED 25 APR-1 AUG 2005; ADULT FREQUENTLY PRESENT, PLAUSIBLE NEST, BUT NO CHICK DETECTED.
Owner/Manager:	PVT

Occurrence No.	1350	**Map Index:**	56641	**EO Index:**	56657	**Element Last Seen:**	2006-08-25
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2006-08-25
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-14

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.55980 / -121.78488	**Accuracy:**	80 meters
UTM:	Zone-10 N4268629 E605869	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 08, NW (M)	**Acres:**	0.0

Location:	IN TREES AT POND AREA IMMEDIATELY NORTH OF ESTERO BAY (ROAD/COURT), JUST SE OF W COVELL BLVD AT LAKE BLVD, DAVIS.
Detailed Location:	RESSEGUIE'S MERRITT 76. 2004 NEST WAS OBSERVED IN WINTER BEFORE HAWKS RETURNED TO THE AREA. 2005 NEST WAS LOCATED SLIGHTLY SOUTH OF THE 2004 SITE.
Ecological:	NEST TREE WAS A WILLOW.
General:	NEST MONITORED 10 APR-8 AUG 2004; NEST REPAIR OBS 10 APR, ADULT SITTING TIGHT ON NEST 26 APR-14 JUN, BUT OUTCOME UNK. NEST MONITORED 20 APR-22 AUG 2005; NEST-BUILDING OBSERVED 20 APR, BUT FOLIAGE PREVENTED LATER NEST OBS. ACTIVE, 2006.
Owner/Manager:	CITY OF DAVIS

Occurrence No.	1351	**Map Index:**	56647	**EO Index:**	56663	**Element Last Seen:**	2005-07-19
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-07-19
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-15

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51160 / -121.84720	**Accuracy:**	80 meters
UTM:	Zone-10 N4263210 E600506	**Elevation (ft):**	85
PLSS:	T08N, R01E, Sec. 27, NE (M)	**Acres:**	0.0

Location:	0.4 MILE SE OF THE INTERSECTION OF PHILLIPS ROAD AND STEVENSON ROAD, 5 MILES SW OF DAVIS.
Detailed Location:	2002 DETECTION FROM CDFW DATABASE OF SWAINSON'S HAWK NEST RECORDS 2000-2004. MAPPED TO UTMS FROM FIELD SURVEY FORM FOR RESSEGUIE'S MERRITT 79 (SCHULZE PROPERTY WEST), 2004-2005.
Ecological:	SITE WAS A FORMER MIGRANT WORKER CAMP. 2004: NEST AT 90% HEIGHT ON NE SIDE OF FIFTH BLACK WALNUT FROM THE E, IN SOUTH ROW WITHIN GROUP OF WALNUTS. ALFALFA TO THE NORTH, CULTIVATED LAND TO THE SOUTH.
General:	NEST WITH 1 PARTIALLY-FEATHERED YOUNG OBS 30 APR 2002. NEST MONITORED 27 APR-15 JUL 2004; 2 YOUNG FLEDGED. NEST SITE MONITORED 16 APR-19 JUL 2005; 2 (POSSIBLY 3) FLEDGED.
Owner/Manager:	PVT

Occurrence No.	1352	**Map Index:**	56649	**EO Index:**	56665	**Element Last Seen:**	2005-07-19
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-07-19
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-21

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51214 / -121.79703	**Accuracy:**	80 meters
UTM:	Zone-10 N4263326 E604880	**Elevation (ft):**	60
PLSS:	T08N, R02E, Sec. 30 (M)	**Acres:**	0.0

Location:	KIDWELL RANCH, 0.25 MILE SOUTH OF RANCH HEADQUARTERS, 1.4 MILES SW OF THE I-80 AND HIGHWAY 113 JUNCTION, SW OF DAVIS.
Detailed Location:	RESSEGUIE'S MERRITT 81. 2004 WAS THE FIRST YEAR THAT ENTRY WAS PERMITTED TO THIS SITE. 2004 NEST WAS LOCATED AT THE 85% HEIGHT OF A RAGGED BLACK WALNUT.
Ecological:	NEST TREE WAS A BLACK WALNUT; SURROUNDED BY ALFALFA TO THE EAST AND WEST.
General:	NEST MONITORED 31 MAY-15 JUL 2004; 4 YOUNG FLEDGED. NEST MONITORED 14 APR-19 JUL 2005; 2 FLEDGED.
Owner/Manager:	PVT

Occurrence No.	1354	**Map Index:**	56653	**EO Index:**	56669	**Element Last Seen:**	2005-08-01
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-08-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-09-21

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51323 / -121.78255	**Accuracy:**	80 meters
UTM:	Zone-10 N4263464 E606140	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 29 (M)	**Acres:**	0.0

Location:	KIDWELL RANCH, 0.7 MILE EAST OF RANCH HEADQUARTERS, 1 MILE SW OF THE I-80 AND HIGHWAY 113 JUNCTION, SW OF DAVIS.
Detailed Location:	RESSEGUIE'S MERRITT 84. 2004 NEST WAS LOCATED IN A WILLOW AMONGST MIXED TREES ALONG THE SOUTH SIDE OF A POND, NORTH OF A DIRT ROAD, AT THE SW CORNER OF THE AREA.
Ecological:	NEST TREE WAS A WILLOW; SURROUNDED BY CULTIVATED LAND TO THE NORTH AND ALFALFA TO THE SOUTH.
General:	NEST MONITORED 1 JUN-2 AUG 2004; 2 YOUNG FLEDGED. NEST MONITORED 11 MAR-1 AUG 2005; 2 FLEDGED.
Owner/Manager:	PVT

Occurrence No.	1375	**Map Index:**	57025	**EO Index:**	57041	**Element Last Seen:**	2004-07-24
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-08-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-07-18

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51394 / -121.80359	**Accuracy:**	80 meters
UTM:	Zone-10 N4263518 E604305	**Elevation (ft):**	60
PLSS:	T08N, R01E, Sec. 25 (M)	**Acres:**	0.0

Location:	WEST SHOULDER OF PEDRICK ROAD, 1.3 MILES NORTH OF TREMONT ROAD, 3 MILES SW OF DAVIS.
Detailed Location:	NEST IS SMALL, LOCATED AT THE 85% HEIGHT OF THE SOUTHMOST TREE.
Ecological:	NEST TREE IS WITHIN A SMALL ROW OF TREES ON THE WEST SHOULDER; SURROUNDED BY ALFALFA TO THE EAST AND WEST.
General:	NEST MONITORED 22 MAR-24 JUL 2004; 1 YOUNG FLEDGED. NEST SITE MONITORED 14 APR-1 AUG 2005; SINGLE ADULT OBSERVED ON 14 & 25 APR ONLY.
Owner/Manager:	SOL COUNTY

Occurrence No.	1376	**Map Index:**	57343	**EO Index:**	57359	**Element Last Seen:**	2004-07-31
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2004-07-31
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-10-12

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.57216 / -121.78599	**Accuracy:**	80 meters
UTM:	Zone-10 N4269999 E605754	**Elevation (ft):**	55
PLSS:	T08N, R02E, Sec. 05, NW (M)	**Acres:**	0.0

Location:	EAST SIDE OF ROAD 99, 0.8 MILE NORTH OF ROAD 31, NW OF DAVIS.
Detailed Location:	
Ecological:	NEST TREE IS A PINE ON THE EAST SHOULDER; SURROUNDED BY CULTIVATED LAND TO THE NW AND ALFALFA ALL AROUND.
General:	NEST MONITORED 27 MAR-31 JUL 2004; 2 YOUNG FLEDGED.
Owner/Manager:	PVT

Occurrence No.	1437	**Map Index:**	62293	**EO Index:**	62330	**Element Last Seen:**	2009-06-24
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-06-24
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-15

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.52895 / -121.85104	**Accuracy:**	80 meters
UTM:	Zone-10 N4265131 E600147	**Elevation (ft):**	85
PLSS:	T08N, R01E, Sec. 22, NW (M)	**Acres:**	0.0

Location:	WEST SIDE OF STEVENSON BRIDGE ROAD, JUST SOUTH OF PUTAH CREEK ROAD, 5 MILES WSW OF DAVIS.
Detailed Location:	MAPPED TO UTMS FROM 2005 FIELD SURVEY FORM FOR RESSEGUIE'S MERRITT 90 SITE. NEST TREE IN YARD AT ADDRESS #9353, ADJACENT TO A LARGE HOUSE WITH MANY VARIED TREES. 2009 DETECTIONS FROM CDFW SHAPEFILE OF NEST RECORDS FROM '09.
Ecological:	2005: NEST AT 95% HEIGHT OF TALL DEODAR CEDAR; RESIDENCE & TREES TO THE NORTH, CULTIVATED LAND TO EAST & SOUTH. 2009: NEST TREE CODED AS "OTHER EXOTIC" (NOT WALNUT OR EUCALYPTUS); SURROUNDINGS INCLUDED ALFALFA, CROPS, & PASTURE.
General:	NEST MONITORED 15 MAY-19 JUL 2005; 1 FLEDGED. NEST-BUILDING OBSERVED ON 29 APR AND NEST WITH YOUNG OBSERVED ON 24 JUN 2009.
Owner/Manager:	PVT

Occurrence No.	1438	**Map Index:**	62294	**EO Index:**	62331	**Element Last Seen:**	2005-08-01
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-08-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2005-08-15

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51595 / -121.78861	**Accuracy:**	80 meters
UTM:	Zone-10 N4263759 E605608	**Elevation (ft):**	65
PLSS:	T08N, R02E, Sec. 30 (M)	**Acres:**	0.0

Location:	ALONG THE NORTH SIDE OF THE KIDWELL FARMS EAST-WEST DIRT ROAD, 2.5 MILES SW OF DAVIS.
Detailed Location:	RESSEGUIE'S MERRITT 91. NEST WAS LOCATED AT THE 90% HEIGHT, ON THE NW SIDE, OF AN ISOLATED ALMOND TREE, AT THE EDGE OF A DIRT FARM ROAD.
Ecological:	NEST TREE IS AN ALMOND.
General:	NEST MONITORED 22 JUN-1 AUG 2005; 1 CHICK OBSERVED, BUT NONE FLEDGED.
Owner/Manager:	PVT

Occurrence No.	1439	**Map Index:**	62295	**EO Index:**	62332	**Element Last Seen:**	2005-08-06
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-08-06
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2005-08-15

Quad Summary: Dixon (3812147), Merritt (3812157)

County Summary: Solano

Lat/Long:	38.49948 / -121.75949	**Accuracy:**	80 meters
UTM:	Zone-10 N4261965 E608172	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 33 (M)	**Acres:**	0.0

Location: ALONG THE EAST SIDE OF OLD DAVIS ROAD, 0.25 MILE NORTH OF TREMONT ROAD, 3 MILES SOUTH OF DAVIS.

Detailed Location: RESSEGUIE'S MERRITT 93. NEST WAS LOCATED AT THE 90% HEIGHT OF THE FIRST ROADSIDE TREE NORTH OF THE ENTRY ROAD; VISIBLE ONLY FROM THE WEST OR DIRECTLY BELOW.

Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY CULTIVATED LAND IN ALL DIRECTIONS.

General: NEST MONITORED 23 APR-6 AUG 2005; 1 FLEDGED.

Owner/Manager: UNKNOWN

Occurrence No.	1457	**Map Index:**	62350	**EO Index:**	62387	**Element Last Seen:**	2005-08-12
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-08-12
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2005-08-18

Quad Summary: Merritt (3812157)

County Summary: Solano

Lat/Long:	38.51046 / -121.79050	**Accuracy:**	80 meters
UTM:	Zone-10 N4263148 E605451	**Elevation (ft):**	60
PLSS:	T08N, R02E, Sec. 30 (M)	**Acres:**	0.0

Location: 1.1 MILES SW OF THE I-80 CROSSING OVER THE SOUTH FORK OF PUTAH CREEK, SW OF DAVIS.

Detailed Location: DOUBLE ROW OF BLACK WALNUTS WITH DITCH BETWEEN ROWS. SECOND NEST TREE HAS A POWER POLE RISING WITHIN ITS BRANCHES.

Ecological: NEST TREE IS A BLACK WALNUT; SURROUNDED BY ALFALFA TO THE EAST AND WEST.

General: SITE SUSPECTED, BUT NOT CONFIRMED, AS A NEST SITE IN 2004. NEST(S) MONITORED 25 APR-12 AUG 2005; FIRST NEST HAD AN ADULT ON NEST ON 12 MAY, BUT DESERTED BY 3 JUN 2005. SECOND NEST FLEDGED 1.

Owner/Manager: PVT-KIDWELL FARMS

Occurrence No.	1458	**Map Index:**	62354	**EO Index:**	62391	**Element Last Seen:**	2005-08-12
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-08-12
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2005-08-22

Quad Summary: Merritt (3812157)

County Summary: Solano

Lat/Long:	38.50427 / -121.79041	**Accuracy:**	80 meters
UTM:	Zone-10 N4262461 E605468	**Elevation (ft):**	55
PLSS:	T08N, R02E, Sec. 30 (M)	**Acres:**	0.0

Location: JUST WEST OF THE I-80/KIDWELL EXIT, SW OF DAVIS.

Detailed Location: NEST LOCATED AT THE 95% HEIGHT, ON THE WEST SIDE, OF THE NEST TREE, A BLACK WALNUT.

Ecological: NEST TREE IS A MUTILATED BLACK WALNUT.

General: ADULTS OBSERVED PERCHING ON THIS TREE FOR SEVERAL YEARS, BUT INTERPRETED THIS AS A HUNTING PERCH. NEST MONITORED 12 MAY-12 AUG 2005; 1 FLEDGED.

Owner/Manager: PVT

Occurrence No.	1709	**Map Index:**	70481	**EO Index:**	71375	**Element Last Seen:**	2016-06-XX
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2016-06-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2017-06-07

Quad Summary:	Davis (3812156), Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.56557 / -121.75089	**Accuracy:**	specific area
UTM:	Zone-10 N4269308 E608823	**Elevation (ft):**	48
PLSS:	T08N, R02E, Sec. 4, SE (M)	**Acres:**	23.0

Location:	DAVIS, FROM CATALINA DR AT DEL ORO PLACE TO COVELL PARK, BETWEEN BALBOA AVENUE AND CABRILLO AVENUE.
Detailed Location:	1994: NEST AT 377 DEL ORO, TERRITORY #YO174 FROM CDFW DATABASE. 1999: INITIAL NEST AT CATALINA AND DEL ORO WAS ABANDONED; 2ND NEST VERY LIKELY IN '94 LOCATION. 2006: NEST WAS LOCATED IN A PINE IN THE "COMMEMORATIVE GROVE" IN COVELL PARK.
Ecological:	1994: NEST IN PINE. 1999: FIRST NEST IN REDWOOD ON SUBURBAN STREET CORNER. SECOND NEST NEARBY, IN STREET-SIDE PINE. 2006: NEST TREE IS A PINE IN A CITY GREENBELT AREA; SURROUNDED BY RESIDENTIAL HOUSING. 2016: NEST IN DEODAR CEDAR IN PARK.
General:	1994: NEST WITH PAIR AND 2 YOUNG OBSERVED IN 1994. 1999: BOTH NESTS FAILED; OBSERVER REPORTED MOBBING BY KESTRELS AND WHITE-TAILED KITES. NESTING OBSERVED WITH 2 YOUNG IN THE NEST DURING JUNE 2006. NESTING PAIR OBSERVED IN JUN 2016.
Owner/Manager:	PVT, CITY OF DAVIS

Occurrence No.	1944	**Map Index:**	87871	**EO Index:**	88890	**Element Last Seen:**	2006-08-01
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2006-08-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-26

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.53929 / -121.77252	**Accuracy:**	80 meters
UTM:	Zone-10 N4266367 E606976	**Elevation (ft):**	60
PLSS:	T08N, R02E, Sec. 17, E (M)	**Acres:**	0.0

Location:	HUTCHISON DRIVE JUST WEST OF SAGE STREET INTERSECTION, ABOUT 0.5 MILE SW OF HWY 113 AT RUSSELL BLVD, DAVIS.
Detailed Location:	MAPPED TO UTMS GIVEN ON FIELD SURVEY FORM, RESSEGUIE SITE MERRITT 102.
Ecological:	NEST AT 95% HEIGHT ON NORTH SIDE OF MIDDLE TREE IN ROW OF 5 DECIDUOUS TREES ON SOUTH SHOULDER OF HUTCHISON DR. JUDGING FROM 2009-2012 AERIAL PHOTOS, THIS TREE WAS REMOVED IN 2009, AND SURROUNDING LAND WAS DEVELOPED.
General:	ADULT OBSERVED CARRYING FOOD TO NEST ON 14 JUL & 1 AUG 2006.
Owner/Manager:	UNKNOWN

Occurrence No.	1945	**Map Index:**	87873	**EO Index:**	88892	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-26

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.51721 / -121.76765	**Accuracy:**	80 meters
UTM:	Zone-10 N4263922 E607434	**Elevation (ft):**	70
PLSS:	T08N, R02E, Sec. 28, NW (M)	**Acres:**	0.0

Location:	ALONG SOUTH PUTAH CREEK ABOUT 0.2 MILE EAST OF I-80, SOUTH OF DAVIS.
Detailed Location:	MAPPED TO COORDINATES FROM CDFW DATABASE OF 2000-2004 NEST RECORDS AND SITE YO-234 FROM ESTEP, 2008.
Ecological:	2003: NEST IN 40' COTTONWOOD WITHIN RIPARIAN CORRIDOR. 2007: NEST IN SAME/ADJACENT TREE.
General:	NEST WITH 1 PARTIALLY-FEATHERED YOUNG OBSERVED 3 JUN 2003. ACTIVE NEST OBSERVED IN 2007, SUCCESS UNKNOWN.
Owner/Manager:	UNKNOWN

Occurrence No.	1951	**Map Index:**	87889	**EO Index:**	88917	**Element Last Seen:**	2006-08-15
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2006-08-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-15

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.53362 / -121.80325	**Accuracy:**	80 meters
UTM:	Zone-10 N4265703 E604306	**Elevation (ft):**	65
PLSS:	T08N, R02E, Sec. 18, SW (M)	**Acres:**	0.0

Location:	WEST SIDE OF PEDRICK RD, ABOUT 0.4 MI S OF HUTCHISON DRIVE INTERSECTION & 0.5 MI N OF PUTAH CREEK CROSSING; SW OF DAVIS.
Detailed Location:	MAPPED TO UTMS PROVIDED ON FIELD SURVEY FORM, RESSEGUIE SITE MERRITT 96. NEST TREE WAS "FIRST TREE SOUTH OF ENTRANCE TO UC DAVIS LANDFILL ON WEST SHOULDER OF ROAD 98 0.3 MILE SOUTH OF HUTCHISON."
Ecological:	
General:	NESTING SWAINSON'S HAWK OBSERVED OVER 11 VISITS BETWEEN 23 MAR TO 15 AUG 2006; NO YOUNG RECORDED.
Owner/Manager:	UNKNOWN

Occurrence No.	1954	**Map Index:**	87896	**EO Index:**	88923	**Element Last Seen:**	1994-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1994-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-17

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.55164 / -121.76421	**Accuracy:**	specific area
UTM:	Zone-10 N4267747 E607682	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 09, SW (M)	**Acres:**	10.0

Location:	ALONG W 8TH STREET BETWEEN SYCAMORE LANE AND MULBERRY LANE, WEST DAVIS.
Detailed Location:	1990: MAPPED TO LOCATION INDICATED ON FIELD SURVEY FORM. 1993: TERRITORY #YO191 FROM CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS; SAME LOCATION AS 1990. 1994: NEST IN BACKYARD OF 788 MULBERRY ST.
Ecological:	1990: NEST HIGH UP IN TREE ON PRIVATE PROPERTY (SP. EITHER EUCALYPTUS OR PINE), VISIBLE FROM CHERRY LN CULDESAC. 1993: NEST 79' UP IN CONIFER IN FRONT YARD OF HOUSE ON CORNER OF SYCAMORE & 8TH ST-SAME/ADJACENT TREE. 1994: NEST IN FIR.
General:	NESTING PAIR WITH 2 FLEDGLINGS OBSERVED IN AUG 1990. PAIR OBSERVED INCUBATING IN 1993, BUT NEST LATER ABANDONED. NEST WITH PAIR & 1 YOUNG OBSERVED IN 1994.
Owner/Manager:	PVT

Occurrence No.	1955	**Map Index:**	87899	**EO Index:**	88925	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-26

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.59981 / -121.85848	**Accuracy:**	80 meters
UTM:	Zone-10 N4272987 E599401	**Elevation (ft):**	90
PLSS:	T09N, R01E, Sec. 27, NW (M)	**Acres:**	0.0

Location:	EAST SIDE OF COUNTY ROAD 95, ABOUT 0.6 MILE N OF COUNTY ROAD 29 INTERSECTION; NORTH OF THE YOLO COUNTY AIRPORT.
Detailed Location:	MAPPED TO PROVIDED COORDINATES AND CDFW DATABASE OF SWAINSON'S HAWK NEST RECORDS 2000-2004. ESTEP SITE YO-272.
Ecological:	NEST IN 90' EUCALYPTUS SURROUNDED BY CROPLAND, ADJACENT TO BUSY FEED STORE. VISIBLE DISTURBANCE FROM FEED STORE TRAFFIC. HAWK MOBBED BY MAGPIE DURING OBSERVATION PERIOD.
General:	NEST-BUILDING OBSERVED ON 16 APR 2001; OUTCOME UNKNOWN. SUCCESSFUL NEST WITH 1 YOUNG IN 2007.
Owner/Manager:	UNKNOWN

Occurrence No.	1957	**Map Index:**	87906	**EO Index:**	88931	**Element Last Seen:**	1994-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1994-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-26

Quad Summary:	Merritt (3812157), Winters (3812158)
County Summary:	Yolo

Lat/Long:	38.54819 / -121.87398	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4267241 E598121	**Elevation (ft):**	95
PLSS:	T08N, R01E, Sec. 09, SW (M)	**Acres:**	0.0

Location:	RUSSELL RANCH; N OF RUSSELL BLVD JUST W OF KINSELLA LANE JUNCTION, ABOUT 4 MI ENE OF EL RIO VILLA.
Detailed Location:	TERRITORY #YO028 IN CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS. MAPPED TO LIKELY HABITAT (PER AERIAL PHOTOS) WITHIN TRS GIVEN FOR TERRITORY.
Ecological:	NEST IN EUCALYPTUS; SURROUNDING HABITAT AGRICULTURAL FIELDS.
General:	NEST WITH PAIR AND 2 YOUNG OBSERVED IN 1994.
Owner/Manager:	UC-DAVIS

Occurrence No.	1960	**Map Index:**	87957	**EO Index:**	88964	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-18

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.52257 / -121.75701	**Accuracy:**	80 meters
UTM:	Zone-10 N4264530 E608354	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 21, SE (M)	**Acres:**	0.0

Location:	OLD DAVIS ROAD AT RAILROAD CROSSING, ABOUT 0.4 MI S OF I-80 INTERSECTION AND 0.4 MI N OF S FORK PUTAH CREEK.
Detailed Location:	MAPPED TO COORDINATES FOR SITE YO-231 FROM ESTEP, 2008.
Ecological:	NEST IN DEODAR CEDAR AT RURAL RESIDENCE.
General:	ACTIVE NEST OBSERVED DURING 2007 SURVEY; NEST SUCCESS UNKNOWN.
Owner/Manager:	UNKNOWN

Occurrence No.	1961	**Map Index:**	87968	**EO Index:**	88973	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-18

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.53049 / -121.81099	**Accuracy:**	80 meters
UTM:	Zone-10 N4265347 E603636	**Elevation (ft):**	70
PLSS:	T08N, R01E, Sec. 24, NE (M)	**Acres:**	0.0

Location:	PUTAH CREEK RIPARIAN RESERVE, ABOUT 0.5 MI NW OF CO RD 98 (PEDRICK RD) BRIDGE OVER PUTAH CREEK.
Detailed Location:	TERRITORY #YO164 FROM CDFW DATABASE OF 1979-1994 SWAINSON'S HAWK OBSERVATIONS. MAPPED TO COORDINATES FOR SITE YO-244 FROM 2008 ESTEP REPORT.
Ecological:	1993-94: NEST IN WILLOW IN RIPARIAN HABITAT SURROUNDING FENCED POND AT "UCD ECOSYSTEM." 2007: NEST IN LONE VALLEY OAK.
General:	NEST WITH PAIR AND 1 YOUNG OBSERVED IN 1993 AND 1994. ACTIVE NEST OBSERVED DURING 2007 SURVEY, SUCCESS UNKNOWN.
Owner/Manager:	UC-DAVIS

Occurrence No.	1962	**Map Index:**	87969	**EO Index:**	88974	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-18

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.53134 / -121.79384	**Accuracy:**	80 meters
UTM:	Zone-10 N4265461 E605130	**Elevation (ft):**	65
PLSS:	T08N, R02E, Sec. 19, NE (M)	**Acres:**	0.0

Location:	ABOUT 0.25 MI SW OF APIARY DR AT HOPKINS RD & 0.6 MI NE OF PEDRICK RD BRIDGE AT PUTAH CREEK, JUST W OF THE UCD AIRPORT.
Detailed Location:	MAPPED TO COORDINATES FOR SITE YO-242 FROM ESTEP 2008 REPORT AT "C MERRITT AVIAN SCIENCES LAB."
Ecological:	NEST IN WALNUT; ADJACENT LAND USE CHARACTERIZED AS RURAL RESIDENTIAL.
General:	NEST WITH 1 YOUNG OBSERVED DURING 2007 SURVEY.
Owner/Manager:	UNKNOWN

Occurrence No.	1968	**Map Index:**	87988	**EO Index:**	89019	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-23

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.58116 / -121.84566	**Accuracy:**	80 meters
UTM:	Zone-10 N4270931 E600544	**Elevation (ft):**	80
PLSS:	T09N, R01E, Sec. 34, SE (M)	**Acres:**	0.0

Location:	ABOUT 0.3 MILE WSW OF CO RD 96 AT ACADIA LN AND 1 MILE SE OF CO RD 29 AT CO RD 95; EAST OF THE YOLO COUNTY AIRPORT.
Detailed Location:	MAPPED TO COORDINATES FOR SITE YO-270 FROM 2008 ESTEP REPORT.
Ecological:	NEST IN COTTONWOOD IN TREE ROW. SURROUNDING LAND USE WAS IRRIGATED CROPS.
General:	ACTIVE NEST OBSERVED DURING 2007 SURVEY; SUCCESS UNKNOWN.
Owner/Manager:	UNKNOWN

Occurrence No.	1984	**Map Index:**	88013	**EO Index:**	89054	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-25

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.59483 / -121.87252	**Accuracy:**	80 meters
UTM:	Zone-10 N4272418 E598185	**Elevation (ft):**	100
PLSS:	T09N, R01E, Sec. 28, SW (M)	**Acres:**	0.0

Location:	ABOUT 0.4 MILE NE OF CO RD 29 AT CO RD 94, 1 MI NW OF YOLO COUNTY AIRPORT.
Detailed Location:	MAPPED TO COORDINATES FOR SITE YO-121 FROM 2008 ESTEP REPORT.
Ecological:	NEST IN EUCALYPTUS ADJACENT TO RURAL RESIDENCE, SURROUNDED BY ALFALFA AND IRRIGATED CROPS.
General:	NEST WITH TWO YOUNG OBSERVED DURING 2007 SURVEY.
Owner/Manager:	UNKNOWN

Occurrence No.	1985	**Map Index:**	88014	**EO Index:**	89055	**Element Last Seen:**	2009-04-29
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-04-29
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-01-25

Quad Summary:	Davis (3812156), Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.57951 / -121.75095	**Accuracy:**	specific area
UTM:	Zone-10 N4270856 E608796	**Elevation (ft):**	45
PLSS:	T09N, R02E, Sec. 33, E (M)	**Acres:**	10.0

Location:	ALONG CO RD 101A (& RR TRACKS), ABOUT 0.4-0.7 MI S OF CO RD 29, N OF DAVIS.
Detailed Location:	TWO NEST SITES: SOUTH SITE ALONG DRIVEWAY, ACTIVE 2003 & 2007, MAPPED TO COORDINATES FOR SITE YO-225 FROM 2008 ESTEP REPORT. NORTH SITE ALONG ROAD, ACTIVE 2009, FROM CDFW SHAPEFILE OF '09 NEST RECORDS.
Ecological:	2003 NEST IN TREE CODED AS "OTHER EXOTIC" (NOT WALNUT OR EUCALYPTUS) WITH CROPS TO N & FALLOW LAND S. 2007 NEST IN WALNUT IN A TREE ROW, SURROUNDING HABITAT WAS IRRIGATED CROPLAND/RAILROAD. 2009 NEST IN 70' COTTONWOOD SURROUNDED BY ALFALFA.
General:	1 FLEDGED FROM NEST IN 2003. NEST WITH 2 YOUNG OBS DURING 2007 SURVEY. NEST WITH YOUNG OBS ON 29 APR 2009.
Owner/Manager:	UNKNOWN

Occurrence No.	2111	**Map Index:**	88285	**EO Index:**	89297	**Element Last Seen:**	2007-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-02-26

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.59816 / -121.84032	**Accuracy:**	80 meters
UTM:	Zone-10 N4272823 E600985	**Elevation (ft):**	75
PLSS:	T09N, R01E, Sec. 27 (M)	**Acres:**	0.0

Location:	ALONG COUNTY RD 96, ABOUT 0.5 MILE N OF COUNTY RD 29 AND 1.8 MILES SE OF COUNTY RD 27 AT COUNTY RD 95, NW OF DAVIS.
Detailed Location:	MAPPED TO COORDINATES GIVEN FOR SITE YO-271 IN ESTEP'S 2008 REPORT.
Ecological:	NEST IN ISOLATED COTTONWOOD SURROUNDED BY IRRIGATED CROPLAND.
General:	ACTIVE NEST OBSERVED DURING 2007 SURVEY; NEST PRODUCED 0 YOUNG.
Owner/Manager:	UNKNOWN

Occurrence No.	2235	**Map Index:**	88695	**EO Index:**	89711	**Element Last Seen:**	1994-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1994-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-04-09

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.53866 / -121.78559	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4266282 E605838	**Elevation (ft):**	60
PLSS:	T08N, R02E, Sec. 17, W (M)	**Acres:**	0.0

Location:	VICINITY OF HUTCHISON DRIVE JUST NORTH OF THE UC DAVIS AIRPORT, ABOUT 1 MILE SW OF HWY 113 AT RUSSELL BLVD.
Detailed Location:	MAPPED TO TRS GIVEN FOR TERRITORY #YO233 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE.
Ecological:	NEST IN LONE SYCAMORE TREE AT NORTH END OF UCD AIRPORT.
General:	NEST WITH PAIR AND 2 YOUNG OBSERVED IN 1994.
Owner/Manager:	UNKNOWN

Occurrence No.	2671	**Map Index:**	90782	**EO Index:**	91854	**Element Last Seen:**	2012-07-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2012-07-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-10-30

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.61643 / -121.76049	**Accuracy:**	80 meters
UTM:	Zone-10 N4274941 E607909	**Elevation (ft):**	50
PLSS:	T09N, R02E, Sec. 21, NW (M)	**Acres:**	0.0

Location:	ALONG RAILROAD TRACKS ABOUT 0.2 MI SSE OF CO RD 27 AT CO RD 100A & 1 MI NNE OF HWY 113 AT WILLOW SLOUGH, N OF DAVIS.
Detailed Location:	MAPPED TO COORDINATES FROM 2012 SURVEY DATA TABLE, "IN ROW OF TREES EAST OF 'MERRITT STATION' RICE GROWERS ASSOCIATION SILOS."
Ecological:	NEST TREE WAS A WALNUT.
General:	ADULT, 2 BRANCHERS, AND 1 CHICK CLOSE TO FLEDGING IN NEST OBSERVED DURING SURVEYS MAY-JUL 2012. SURVEYOR NOTED THAT THE NEST WAS HARD TO SEE DUE TO ACCESS ISSUES.
Owner/Manager:	PVT

Coccyzus americanus occidentalis

Element Code: ABNRB02022

western yellow-billed cuckoo

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G5T2T3
	State:	Endangered		**State:**	S1
	Other:	BLM_S-Sensitive, NABCI_RWL-Red Watch List, USFS_S-Sensitive, USFWS_BCC-Birds of Conservation Concern			
Habitat:	**General:**	RIPARIAN FOREST NESTER, ALONG THE BROAD, LOWER FLOOD-BOTTOMS OF LARGER RIVER SYSTEMS.			
	Micro:	NESTS IN RIPARIAN JUNGLES OF WILLOW, OFTEN MIXED WITH COTTONWOODS, WITH LOWER STORY OF BLACKBERRY, NETTLES, OR WILD GRAPE.			

Occurrence No.	88	**Map Index:** 96074	**EO Index:** 97224	**Element Last Seen:**	2013-08-16
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	2013-08-16
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2015-05-15

Quad Summary: Merritt (3812157)

County Summary: Solano, Yolo

Lat/Long:	38.52712 / -121.80354	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4264981 E604291	**Elevation (ft):**	70
PLSS:	T08N, R01E, Sec. 24 (M)	**Acres:**	0.0

Location: ALONG PUTAH CREEK NEAR PEDRICK ROAD CROSSING, WEST OF DAVIS.

Detailed Location: 1937-1942: EXACT LOCATIONS NOT KNOWN, FOUND "ALONG PUTAH CREEK." 2012: DETECTED "ABOUT 1/2 BETWEEN PEDRICK AND HOPKINS [RDS], JUST UPSTREAM OF LARGE POOL WITH SEATS." 2013: MAPPED TO COORDINATES GIVEN IN EBIRD, ACCURACY UNKNOWN.

Ecological: "BRED IN YOLO COUNTY UNTIL THE 1950S... [SINCE THEN] NONE HAVE BEEN REPORTED IN THE COUNTY DESPITE THOROUGH COVERAGE BY FIELD ORNITHOLOGISTS" (GAINES 1977). 2012-2013 DETECTIONS MAY REPRESENT A RETURN TO THE SPECIES' HISTORIC RANGE.

General: 10 DETECTIONS RECORDED BETWEEN 1937 AND 1942. 1 HEARD CALLING TWICE ("KNOCKING" CALL, POSSIBLY INDICATIVE OF NESTING), 1 SEP 2012. 1 SEEN AND HEARD ("KNOCKING" CALL) 16 AUG 2013. MORE FIELDWORK NEEDED TO CONFIRM NESTING.

Owner/Manager: UNKNOWN

Agelaius tricolor

Element Code: ABPBXB0020

tricolored blackbird

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G1G2
	State:	Threatened		**State:**	S1S2
	Other:	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered, NABCI_RWL-Red Watch List, USFWS_BCC-Birds of Conservation Concern			
Habitat:	**General:**	HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY AND VICINITY. LARGELY ENDEMIC TO CALIFORNIA.			
	Micro:	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, AND FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.			

Occurrence No.	328	**Map Index:**	33740	**EO Index:**	30791	**Element Last Seen:**	1994-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1997-04-26
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-09-30

Quad Summary:	Merritt (3812157)
County Summary:	Solano

Lat/Long:	38.5263 / -121.8495	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4264839 E600286	**Elevation (ft):**	83
PLSS:	T08N, R01E, Sec. 22 (M)	**Acres:**	280.0

Location:	ABOUT 0. MILE SOUTH OF STEVENSONS BRIDGE (OVER PUTAH CREEK), ON THE EAST SIDE OF ROAD 95 A, 4 MILES WEST OF DAVIS.
Detailed Location:	1981 LOCATION DESCRIBED AS "ONE-HALF MILE SOUTH OF STEVENSON'S BRIDGE (OVER PUTAH CREEK) TO THE EAST OF ROAD 95A." 1994, 1996, AND 1997 LOCATIONS DESCRIBED AS BEING 0.7-0.9 MI S OF STEVENSON BRIDGE.
Ecological:	HABITAT CONSISTS OF A SMALL CATTAIL MARSH IN 1981; ALTHOUGH HABITAT WAS EXTANT, NO NESTING HAD TAKEN PLACE IN RECENT YEARS.
General:	200 BIRDS OBSERVED NESTING FROM 18-26 APRIL 1981; BIRDS GONE AFTER 2 WEEKS. NESTED IN 1993. 1 BIRD OBS IN THE GENERAL AREA ON 23 APR 1994. 4 PAIRS REPORTED AS NESTING IN 1994. 0 OBS ON 29 MAY 1995, 21 APR 1996 & 26 APR 1997.
Owner/Manager:	UNKNOWN

Occurrence No.	404	**Map Index:**	55410	**EO Index:**	55410	**Element Last Seen:**	1991-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1994-04-23
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-18

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.5909 / -121.8109	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4272050 E603558	**Elevation (ft):**	72
PLSS:	T09N, R01E, Sec. 25, SE (M)	**Acres:**	70.0

Location:	JUST NORTH OF ROAD 29 IN DRY SLOUGH AND 0.4 MI WEST OF PLAINFIELD.
Detailed Location:	MAPPED ACCORDING TO PROVIDED MAP AND LOCATION DESCRIPTION OF "WEST OF CR 98 ON 29."
Ecological:	NO HABITAT IN 1994; MINOR AMOUNT OF LOW BLACKBERRY.
General:	UNKNOWN NUMBER OBSERVED NESTING IN 1991 BY HAMILTON. 0 BIRDS OBSERVED ON 23 APR 1994.
Owner/Manager:	UNKNOWN

Occurrence No.	488	**Map Index:**	57704	**EO Index:**	97025	**Element Last Seen:**	1932-05-24
Occ. Rank:	None			**Presence:**	Possibly Extirpated	**Site Last Seen:**	1932-05-24
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2015-07-07

Quad Summary:	Davis (3812156), Merritt (3812157)
County Summary:	Solano, Yolo

Lat/Long:	38.55006 / -121.74951	**Accuracy:**	1 mile
UTM:	Zone-10 N4267590 E608965	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 10 (M)	**Acres:**	0.0

Location:	DAVIS, WEST OF SACRAMENTO.
Detailed Location:	PROVIDED LOCATION DESCRIPTION WAS VAGUE, STATED ONLY AS "NEAR DAVIS." EXACT LOCATION UNKNOWN AND THEREFORE MAPPED GENERALLY TO THE CITY OF DAVIS.
Ecological:	HABITAT GENERALLY DESCRIBED AS THISTLE FIELD. COLONY CLASSIFIED AS EXTIRPATED BY BEEDY (1991).
General:	ABOUT 28,000 NESTS RECORDED BY J. NEFF ON 24 MAY 1932. COLONY MAY HAVE BEEN EXTIRPATED. FURTHER RESEARCH NEEDED FOR AREAS IN AND AROUND DAVIS.
Owner/Manager:	UNKNOWN

Occurrence No.	997	**Map Index:**	A2372	**EO Index:**	103983	**Element Last Seen:**	1992-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2011-04-17
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-27

Quad Summary:	Merritt (3812157)
County Summary:	Yolo

Lat/Long:	38.5944 / -121.8639	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4272380 E598938	**Elevation (ft):**	93
PLSS:	T09N, R01E, Sec. 28, SE (M)	**Acres:**	280.0

Location:	IMMEDIATELY NW OF COUNTY RD 29 AND COUNTY RD 95 INTERSECTION, NW OF DAVIS.
Detailed Location:	MAPPED ACCORDING TO PROVIDED MAP AND COORDINATES. COLONY DATA STORED IN THE UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME WAS "ROAD 29 AT ROAD 95."
Ecological:	HABITAT COMPOSED OF CATTAILS AND HIMALAYAN BLACKBERRY.
General:	ABOUT 800 BIRDS OBSERVED IN 1992. 0 BIRDS OBSERVED ON 13 JUN 1999. REPORTED AS NESTING "IN THE PAST" DURING 1999 SURVEY; POSSIBLY REFERRING TO 1992 COLONY. 0 OBSERVED ON 22 APR 2000 AND 17 APR 2011.
Owner/Manager:	UNKNOWN

Thamnophis gigas **Element Code:** ARADB36150

giant gartersnake

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G2
	State:	Threatened		**State:**	S2
	Other:	IUCN_VU-Vulnerable			
Habitat:	**General:**	PREFERS FRESHWATER MARSH AND LOW GRADIENT STREAMS. HAS ADAPTED TO DRAINAGE CANALS AND IRRIGATION DITCHES.			
	Micro:	THIS IS THE MOST AQUATIC OF THE GARTERSNAKES IN CALIFORNIA.			

Occurrence No.	20	**Map Index:** 10733	**EO Index:** 27598	**Element Last Seen:**	1976-XX-XX
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	1987-XX-XX
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	1995-08-10

Quad Summary: Merritt (3812157)

County Summary: Solano

Lat/Long:	38.51712 / -121.75663	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4263925 E608395	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 28 (M)	**Acres:**	0.0

Location: SOUTH FORK PUTAH CREEK AT OLD DAVIS RD, DAVIS.

Detailed Location:

Ecological:

General: KNOWN LOCATION IN 1976 BASED ON RECORDS OF THE CALIFORNIA DEPARTMENT OF FISH AND GAME. NOT DURING 1986-87 STUDY BY G. HANSEN.

Owner/Manager: UNKNOWN

Branchinecta lynchi **Element Code:** ICBRA03030

vernal pool fairy shrimp

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G3
	State:	None		**State:**	S3
	Other:	IUCN_VU-Vulnerable			
Habitat:	**General:**	ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MOUNTAINS, AND SOUTH COAST MOUNTAINS, 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.	370	**Map Index:** 57722	**EO Index:** 57738	**Element Last Seen:**	1993-02-01
Occ. Rank:	Good		**Presence:** Presumed Extant	**Site Last Seen:**	1993-02-01
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2004-10-26

Quad Summary: Merritt (3812157), Winters (3812158)

County Summary: Yolo

Lat/Long:	38.57251 / -121.88160	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4269932 E597425	**Elevation (ft):**	100
PLSS:	T08N, R01E, Sec. 05 (M)	**Acres:**	0.0

Location: DQ UNIVERSITY, WEST OF DAVIS.

Detailed Location: B. LYNCHI FOUND IN POOLS 3A/3B, 4, 5, 15, 16, 17, 22, 23, 26, 27, AND 29.

Ecological: POOLS SURROUNDED BY AGRICULTURE, DQ UNIVERSITY CAMPUS, PASTURE, AND NATURAL AREA USED FOR TRIBAL ACTIVITIES SUCH AS CAMPING AND OUTDOOR CLASSES.

General: APPROXIMATELY 27 VERNAL POOLS SCATTERED OVER A 60-ACRE AREA. SEVERAL B. LYNCHI FOUND IN 11 POOLS. SPECIFICS OF COLLECTION DATA WERE SUBMITTED TO USFWS IN THE EARLY 90'S.

Owner/Manager: DQ UNIVERSITY

Lepidurus packardi **Element Code:** ICBRA10010

vernal pool tadpole shrimp

Listing Status:	**Federal:**	Endangered	**CNDDB Element Ranks:**	**Global:**	G4
	State:	None		**State:**	S3S4
	Other:	IUCN_EN-Endangered			
Habitat:	**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 AND HIGHLY TURBID.			

Occurrence No.	217	**Map Index:** 57704	**EO Index:** 59239	**Element Last Seen:**	1966-02-02
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	1966-02-02
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2014-07-23

Quad Summary: Davis (3812156), Merritt (3812157)

County Summary: Solano, Yolo

Lat/Long:	38.55006 / -121.74951	**Accuracy:**	1 mile
UTM:	Zone-10 N4267590 E608965	**Elevation (ft):**	50
PLSS:	T08N, R02E, Sec. 10 (M)	**Acres:**	0.0

Location: DAVIS.

Detailed Location: SMITHSONIAN RECORDS: 1941 RECORD FROM "ALKALINE POOL 1 MILE NORTH OF DAVIS". 1946 RECORDS FROM "TEMPORARY POOL 1 MILE NORTH OF DAVIS" AND "DAVIS".

Ecological:

General: 20 COLLECTED 16 MAR 1941, USNM #291226. 3 COLLECTED 20 FEB 1946, USNM #82030. 2 COLLECTED 26 FEB 1946. 5 COLLECTED 19 APR 1946, USNM #291224. 1 COLLECTED 2 FEB 1966.

Owner/Manager: UNKNOWN

Desmocerus californicus dimorphus **Element Code:** IICOL48011

valley elderberry longhorn beetle

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G3T2T3
	State:	None		**State:**	S3
	Other:				
Habitat:	**General:**	OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).			
	Micro:	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.			

Occurrence No.	256	**Map Index:** 57704	**EO Index:**	96103	**Element Last Seen:** 1934-03-26
Occ. Rank:	Unknown		**Presence:**	Presumed Extant	**Site Last Seen:** 1934-03-26
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown	**Record Last Updated:** 2015-01-22

Quad Summary: Davis (3812156), Merritt (3812157)

County Summary: Solano, Yolo

Lat/Long:	38.55006 / -121.74951	**Accuracy:**	1 mile
UTM:	Zone-10 N4267590 E608965	**Elevation (ft):**	55
PLSS:	T08N, R02E, Sec. 10 (M)	**Acres:**	0.0

Location: DAVIS, BETWEEN DIXON TO THE WEST AND SACRAMENTO TO THE EAST.

Detailed Location: MAPPED AS BEST GUESS TO PROVIDED LOCATION DESCRIPTION OF "DAVIS." EXACT LOCATION UNKNOWN. MAPPED TO TOWN OF DAVIS, COLLECTION POSSIBLY MADE NEAR PUTAH CREEK TO THE SOUTH.

Ecological:

General: 1 ADULT VALLEY ELDERBERRY LONGHORN BEETLE COLLECTED ON 26 MAR 1934 BY A. THAVER (ESSIG #EMEC654486, UC BERKELEY).

Owner/Manager: UNKNOWN

Sidalcea keckii **Element Code:** PDMAL110D0

Keck's checkerbloom

Listing Status:	**Federal:**	Endangered	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden			
Habitat:	**General:**	CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.			
	Micro:	GRASSY SLOPES IN BLUE OAK WOODLAND. ON SERPENTINE-DERIVED, CLAY SOILS, AT LEAST SOMETIMES. 85-505 M.			

Occurrence No.	25	**Map Index:**	B3683	**EO Index:**	116596	**Element Last Seen:**	1993-04-01
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1993-04-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-08-12

Quad Summary: Merritt (3812157)

County Summary: Yolo

Lat/Long:	38.57467 / -121.84037	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4270217 E601015	**Elevation (ft):**	80
PLSS:	T08N, R01E, Sec. 3, NE (M)	**Acres:**	70.0

Location: AT CORNER OF ROAD 96 AND YELLOWSTONE, NW END OF CITY OF DAVIS.

Detailed Location: MAPPED AS BEST GUESS AROUND THE INTERSECTION OF COUNTY ROAD 96 AND YELLOWSTONE AVE.

Ecological: ANNUAL IN OPEN FIELD.

General: ONLY SOURCES OF INFORMATION FOR THIS SITE ARE 1993 THOMSEN COLLECTIONS. IDENTIFIED AS SIDALCEA KECKII BY STEVEN HILL IN 2015.

Owner/Manager: UNKNOWN

Occurrence No.	26	**Map Index:**	B3689	**EO Index:**	116602	**Element Last Seen:**	1989-05-01
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1989-05-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-08-13

Quad Summary: Merritt (3812157), Winters (3812158)

County Summary: Yolo

Lat/Long:	38.56149 / -121.88016	**Accuracy:**	1 mile
UTM:	Zone-10 N4268711 E597566	**Elevation (ft):**	100
PLSS:	T08N, R01E, Sec. 5 (M)	**Acres:**	1987.0

Location: D-Q UNIVERSITY COUNTY ROAD 31, 9 MILES WEST OF DAVIS CITY CENTER.

Detailed Location: MAPPED AS BEST GUESS AROUND THE PORTION OF COUNTY ROAD 31 THAT IS AROUND GIVEN ELEVATION OF 100 FEET.

Ecological: GROWING IN LOW AREAS IN GRASSLAND. ASSOCIATED PLANTS: INTRODUCED GRASSES, TRIFOLIUM BIFIDUM, TORILIS NODOSA, ETC. IN CAPAY SILTY SOIL.

General: SITE BASED ON A 1989 NG'WENO COLLECTION; MENTIONED AS "LOCALLY COMMON." 1955 CRAMPTON COLLECTION FROM "MOON RANCH, 7.5 MI W OF CITY OF DAVIS" ALSO ATTRIBUTED HERE. BOTH COLLECTIONS IDENTIFIED AS SIDALCEA KECKII BY STEVEN HILL IN 2015.

Owner/Manager: UNKNOWN

Appendix C:
IPaC

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

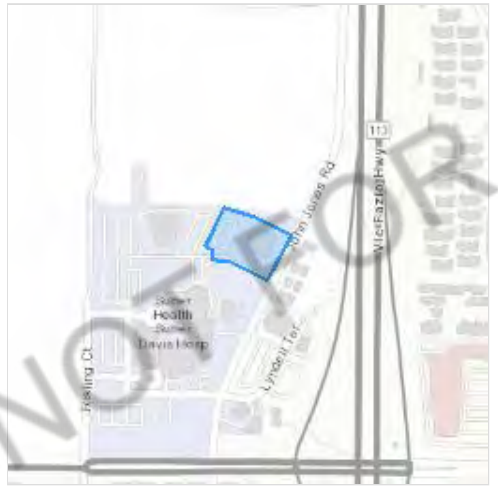
This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

NOT FOR CONSULTATION

Location

Yolo County, California



Local office

Sacramento Fish And Wildlife Office

(916) 414-6600
(916) 414-6713

Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NOT FOR CONSULTATION

NAME	STATUS
Yellow-billed Cuckoo Coccyzus americanus There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/3911	Threatened

Reptiles

NAME	STATUS
Giant Garter Snake Thamnophis gigas Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/4482	Threatened

Amphibians

NAME	STATUS
California Red-legged Frog Rana draytonii Wherever found There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/2891	Threatened
California Tiger Salamander Ambystoma californiense There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/2076	Threatened

Fishes

NAME	STATUS
Delta Smelt Hypomesus transpacificus Wherever found There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/321	Threatened

Insects

NAME	STATUS
Monarch Butterfly Danaus plexippus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

NOT FOR CONSULTATION

Valley Elderberry Longhorn Beetle Desmocerus californicus dimorphus Wherever found There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/7850	Threatened

Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp Branchinecta lynchi Wherever found There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp Lepidurus packardi Wherever found There is **final** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/2246	Endangered

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

NOT FOR CONSULTATION

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

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NAME	BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)
Allen's Hummingbird Selasphorus sasin This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9637	Breeds Feb 1 to Jul 15

Bald Eagle Haliaeetus leucocephalus — Breeds Jan 1 to Aug 31
This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Cassin's Finch Carpodacus cassinii — Breeds May 15 to Jul 15
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9462

Common Yellowthroat Geothlypis trichas sinuosa — Breeds May 20 to Jul 31
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/2084

Golden Eagle Aquila chrysaetos — Breeds Jan 1 to Aug 31
This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
https://ecos.fws.gov/ecp/species/1680

Lawrence's Goldfinch Carduelis lawrencei — Breeds Mar 20 to Sep 20
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9464

Nuttall's Woodpecker Picoides nuttallii — Breeds Apr 1 to Jul 20
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/9410

Oak Titmouse Baeolophus inornatus — Breeds Mar 15 to Jul 15
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/9656

Olive-sided Flycatcher Contopus cooperi — Breeds May 20 to Aug 31
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/3914

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Short-billed Dowitcher Limnodromus griseus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9480	Breeds elsewhere
Tricolored Blackbird Agelaius tricolor This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3910	Breeds Mar 15 to Aug 10
Wrentit Chamaea fasciata This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 10
Yellow-billed Magpie Pica nuttalli This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9726	Breeds Apr 1 to Jul 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

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3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

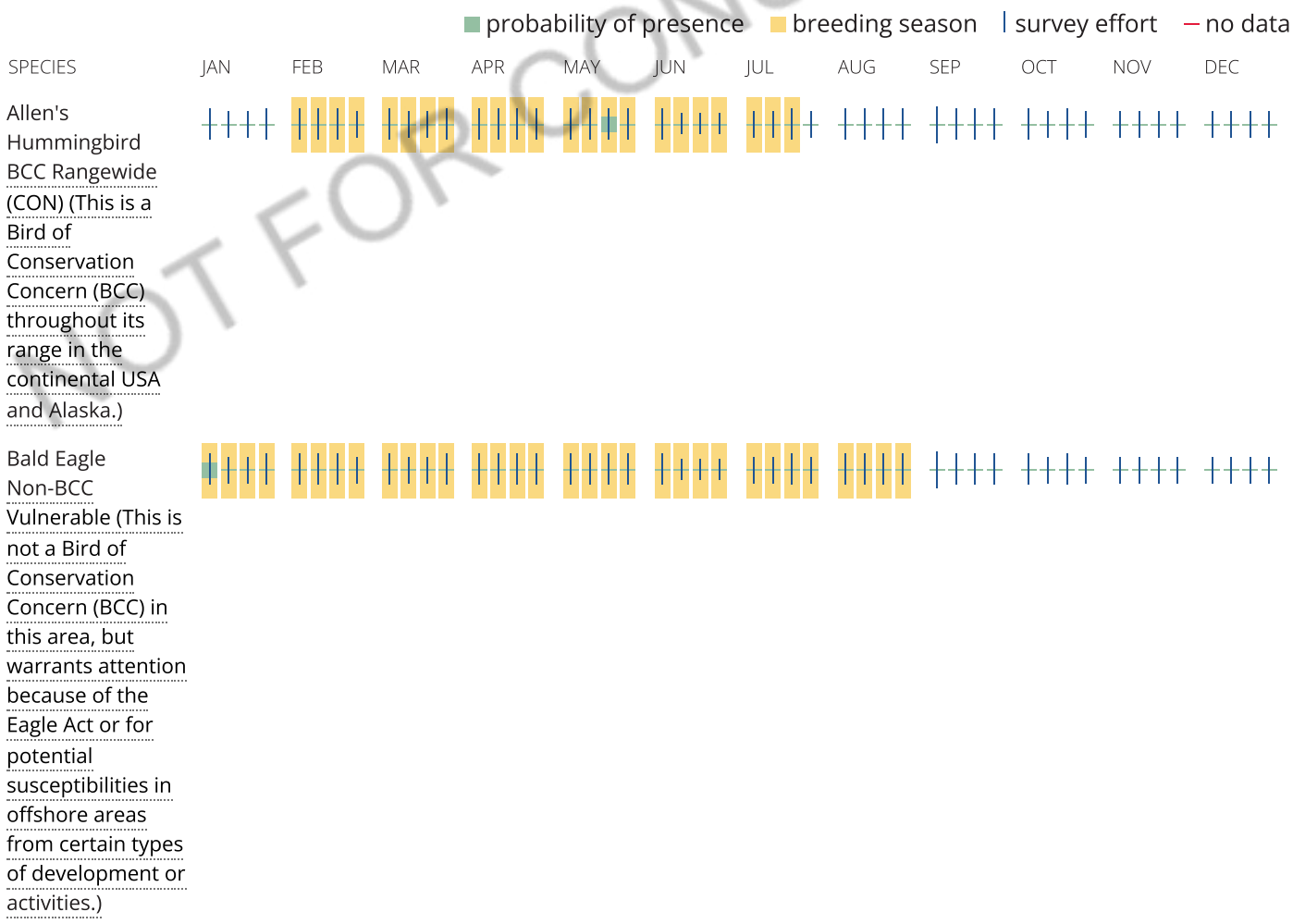
Breeding Season (▪)
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



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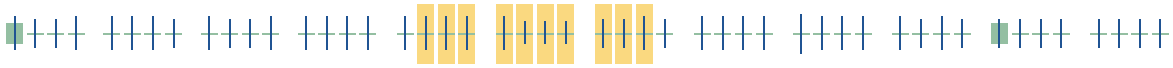
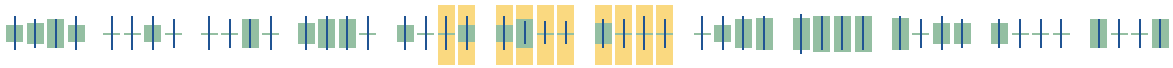
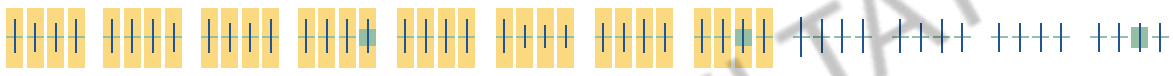
Cassin's Finch BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Common Yellowthroat BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)



Golden Eagle Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



Lawrence's Goldfinch BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



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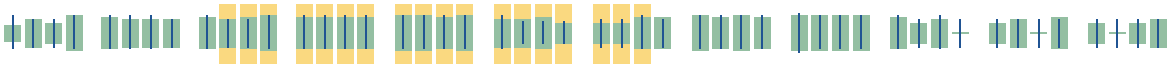
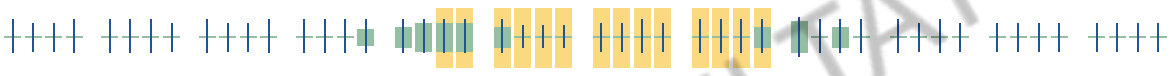
Nuttall's Woodpecker BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)



Oak Titmouse BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



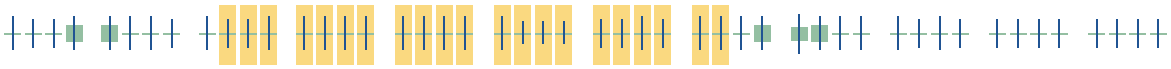
Olive-sided Flycatcher BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Short-billed Dowitcher BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Tricolored Blackbird BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



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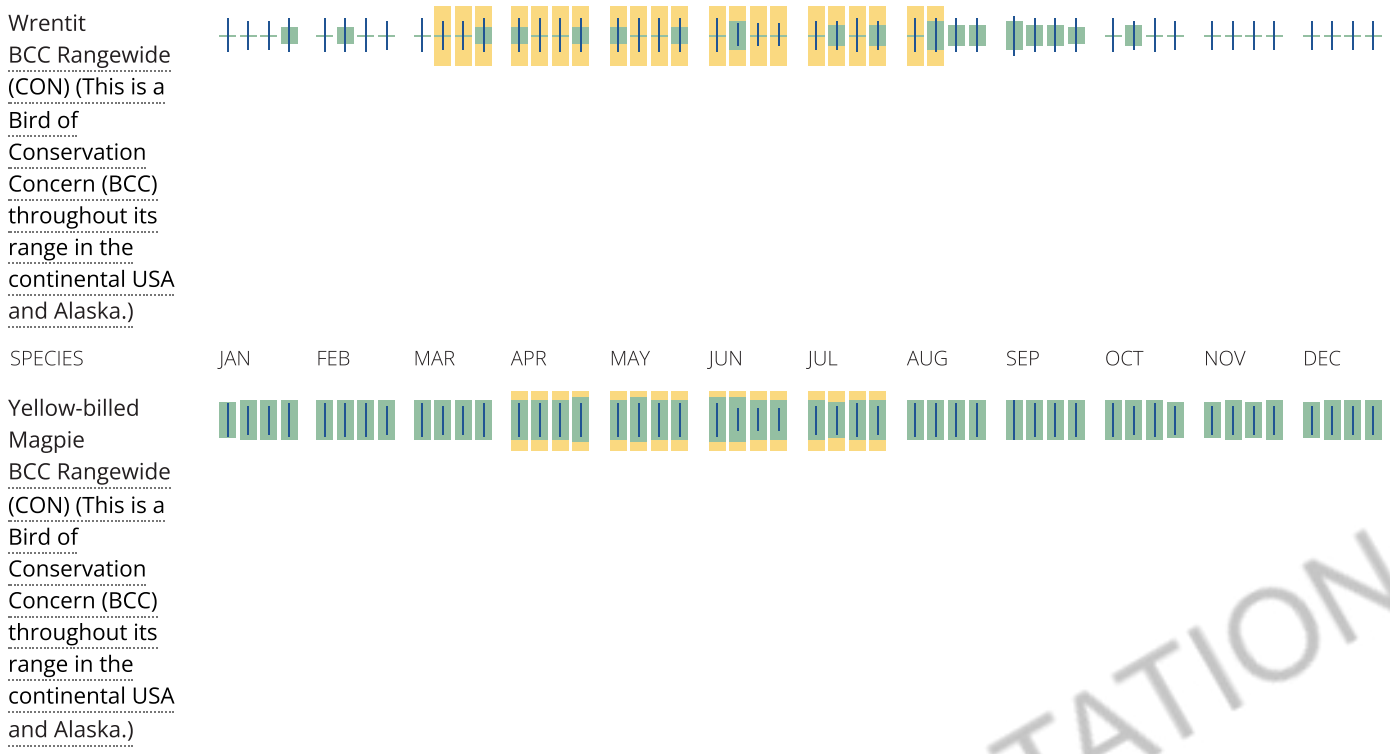

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Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the AKN Phenology Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring

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in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

Wildlife refuges and fish hatcheries

REFUGE AND FISH HATCHERY INFORMATION IS NOT AVAILABLE AT THIS TIME

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

THERE ARE NO KNOWN WETLANDS AT THIS LOCATION.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

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Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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Appendix D:
Photo Plate



1. From southeast corner of assessment area looking northwest.



2. Panoramic photo taken from the southeast corner looking towards the north.



3. Culvert under John Jones Road.



4. Panoramic photo along northernmost drainage looking south.



5. To the east of the northern drainage looking south.



6. Along northernmost drainage looking south.



7. Along southernmost drainage looking north.



8. Along northernmost drainage looking north.



9. Standpipe and concrete debris in weeds within agricultural field to the west of the project.