



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:

May 09, 2019

Consultation Code: 08ESMF00-2019-SLI-1883

Event Code: 08ESMF00-2019-E-06039

Project Name: Madera County PW Parkwood MD 19AB

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

(916) 414-6600

Project Summary

Consultation Code: 08ESMF00-2019-SLI-1883

Event Code: 08ESMF00-2019-E-06039

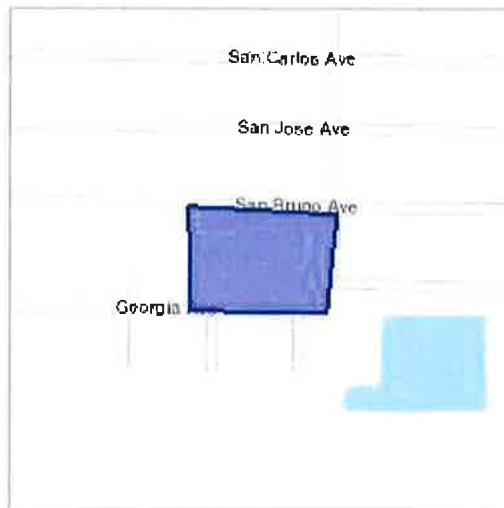
Project Name: Madera County PW Parkwood MD 19AB

Project Type: WATER SUPPLY / DELIVERY

Project Description: Replacement Well

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/36.931901255728356N120.05222930862294W>



Counties: Madera, CA

Endangered Species Act Species

There is a total of 9 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. [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.

Mammals

NAME	STATUS
Fresno Kangaroo Rat <i>Dipodomys nitratooides exilis</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5150 Species survey guidelines: https://ecos.fws.gov/ipac/guideline/survey/population/37/office/11420.pdf	Endangered
San Joaquin Kit Fox <i>Vulpes macrotis mutica</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2873	Endangered

Reptiles

NAME	STATUS
Blunt-nosed Leopard Lizard <i>Gambelia silus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/625	Endangered
Giant Garter Snake <i>Thamnophis gigas</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4482	Threatened

Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2891	Threatened
California Tiger Salamander <i>Ambystoma californiense</i> Population: U.S.A. (Central CA DPS) There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2076	Threatened

Fishes

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/321	Threatened

Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened

Flowering Plants

NAME	STATUS
Hairy Orcutt Grass <i>Orcuttia pilosa</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2262	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



In cooperation with:
NatureServe
www.natureserve.org

California Native Plant Society
www.cnps.org

California Natural Diversity Database

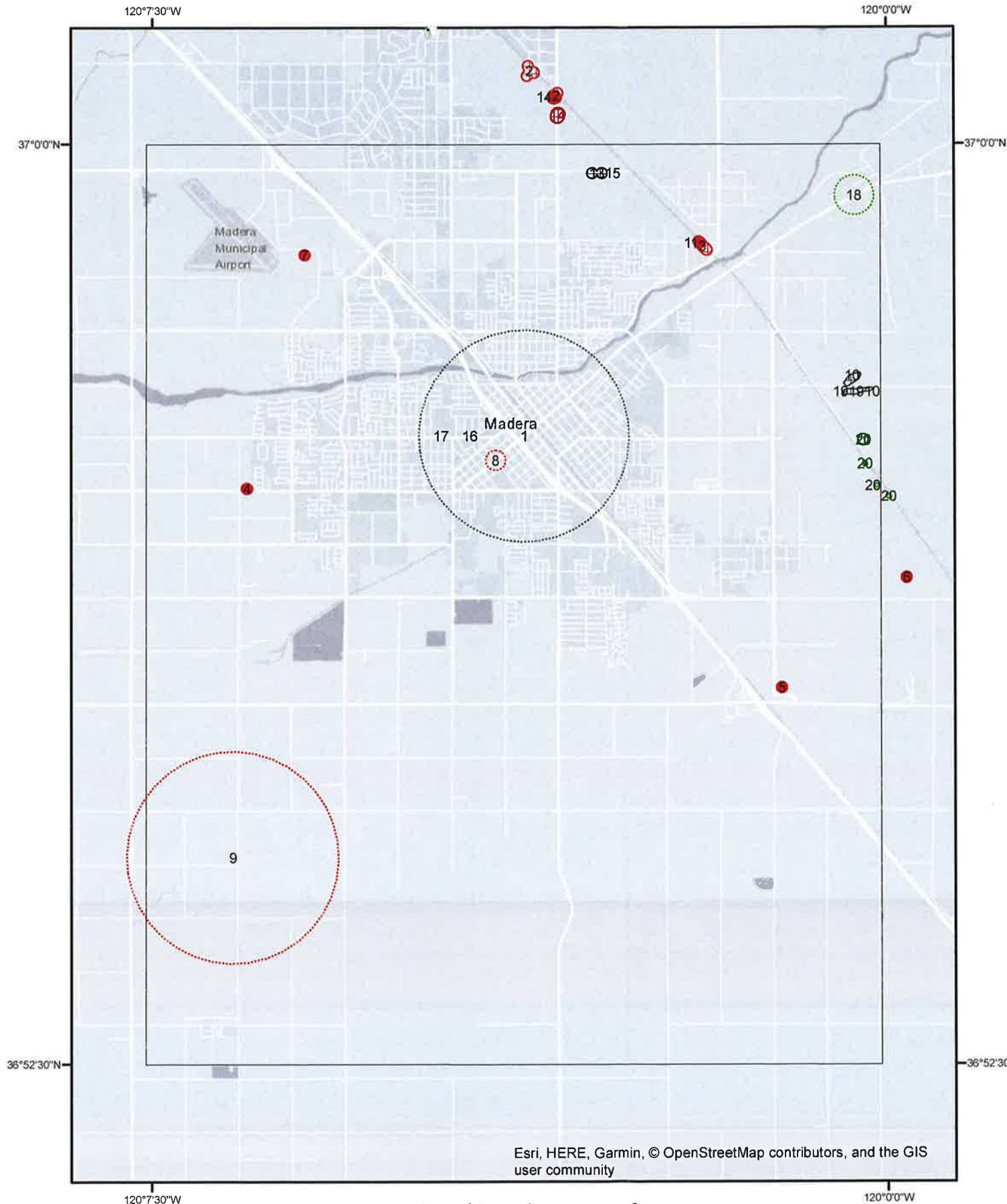
USGS Quadrangle: MADERA - 36120H1

Prepared for: Wood Rodgers, Inc.
12/24/2018

Total Number of Element Occurrences shown on this map: 20

DISCLAIMER

The California Natural Diversity Database (CNDDDB) is an ongoing and continuously updated database. While the information is complete and accurate to the best of our knowledge and ability, it does not constitute an official response from any state agency and will not in itself meet the requirements of the California Environmental Quality Act (CEQA). Information supplied is based on the material available at the time of the request and should not be regarded as complete data on the elements or areas being considered. The information must be used in consultation with the appropriate local, State and Federal officials. Absence of data does not constitute the basis for a negative declaration.



Ref	ElmCode	Occ #	Accuracy	Scientific Name
1	AAAAA01180	616	9	Ambystoma californiense
2	AAAAA01180	1250	2	Ambystoma californiense
3	AAAAA01180	1259	2	Ambystoma californiense
4	ABNKC19070	2691	1	Buteo swainsoni
5	ABNKC19070	2696	1	Buteo swainsoni
6	ABNKC19070	2697	1	Buteo swainsoni
7	ABNSB10010	757	1	Athene cunicularia
8	AMACC05030	64	4	Lasiurus cinereus
9	ARACF07010	107	9	Gambelia sila
10	CTT44110CA	129	2	Northern Hardpan Vernal Pool
11	ICBRA03030	902	1	Branchinecta lynchi
12	ICBRA03030	907	1	Branchinecta lynchi
13	ICBRA03030	909	2	Branchinecta lynchi
14	ICBRA03150	136	2	Branchinecta mesoallensis
15	ICBRA03150	137	2	Branchinecta mesoallensis
16	IICOL4C030	6	9	Lytta molesta
17	PDPLM09130	10	9	Leptosiphon serrulatus
18	PMPOA4G040	15	5	Orcuttia pilosa
19	PMPOA4G040	19	2	Orcuttia pilosa
20	PMPOA4G040	49	2	Orcuttia pilosa

Symbology

- Indicates Plants (Green square)
- Indicates Animals (Red square)
- Indicates Terrestrial Natural Communities (Purple square)
- Indicates Aquatic Communities (Blue square)
- Indicates multiple element occurrences (Black square)
- Indicates County border (Thin grey line)
- Indicates Quadrangle border (Thick black line)

Accuracy Class Description

Accuracy Class	Description
1	Specific bounded area with an 80 meter radius
2	Specific bounded area
3	Non-specific bounded area
4	Circular feature with a 150 meter radius (1/10 mile)
5	Circular feature with a 300 meter radius (1/5 mile)
6	Circular feature with a 600 meter radius (2/5 mile)
7	Circular feature with a 1000 meter radius (3/5 mile)
8	Circular feature with a 1300 meter radius (4/5 mile)
9	Circular feature with a 1600 meter radius (1 mile)
10	Circular feature with a 3000 meter radius (2 miles)

① 80 meter radius - Specific bounded area

Specific bounded area (hatched pattern) Non-specific bounded area (dotted pattern)

Circular Features



Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community



Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad<span style=

WOOD RODGERS, INC.

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence	
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.
<i>Ambystoma californiense</i> California tiger salamander	G2G3 S2S3	Threatened Threatened	CDFW_WL-Watch List IUCN_VU-Vulnerable	270 292	1181 S:2	0	0	0	1	1	0	1	1	0	1
<i>Athene cunicularia</i> burrowing owl	G4 S3	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	255 255	1974 S:1	0	0	0	0	1	0	0	1	1	0
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	G3 S3	Threatened None	IUCN_VU-Vulnerable	292 294	766 S:2	0	0	1	1	0	0	0	2	0	0
<i>Branchinecta mesoallensis</i> midvalley fairy shrimp	G2 S2S3	None None		294 294	128 S:1	0	0	1	0	0	0	0	1	0	0
<i>Buteo swainsoni</i> Swainson's hawk	G5 S3	None Threatened	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	250 273	2467 S:2	0	0	1	0	0	1	0	2	0	0
<i>Gambelia sifa</i> blunt-nosed leopard lizard	G1 S1	Endangered Endangered	CDFW_FP-Fully Protected IUCN_EN-Endangered	232 232	328 S:1	0	0	0	0	0	1	1	0	0	0
<i>Lasius cinereus</i> hoary bat	G5 S4	None None	IUCN_LC-Least Concern WBWG_M-Medium Priority	270 270	238 S:1	0	0	0	0	1	1	0	1	0	0
<i>Leptosiphon serrulatus</i> Madera leptosiphon	G3 S3	None None	Rare Plant Rank - 1B.2 USFS_S-Sensitive	270 270	27 S:1	0	0	0	0	1	1	0	1	0	0
<i>Lytta molesta</i> molestan blister beetle	G2 S2	None None		270 270	17 S:1	0	0	0	0	1	1	0	0	1	0
<i>Northern Hardpan Vernal Pool</i> Northern Hardpan Vernal Pool	G3 S3.1	None None		290 290	126 S:1	0	0	1	0	0	1	1	0	0	0
<i>Orcuttia pilosa</i> hairy Orcutt grass	G1 S1	Endangered Endangered	Rare Plant Rank - 1B.1	290 360	34 S:3	0	1	0	0	2	0	1	1	1	1



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad IS (Madera (3612081))

WOOD RODGERS, INC.

Map Index Number: 30806	EO Index: 46463
Key Quad: Madera (3612081)	Element Code: AAAAA01180
Occurrence Number: 616	Occurrence Last Updated: 2001-11-09

Scientific Name: <i>Ambystoma californiense</i>	Common Name: California tiger salamander
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: CDFW_WL-Watch List IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: CENTRAL VALLEY DPS FEDERALLY LISTED AS THREATENED. SANTA BARBARA AND SONOMA COUNTIES DPS FEDERALLY LISTED AS ENDANGERED.	Micro Habitat: NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS, AND VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING.
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Last Date Observed: 1944-12-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1944-12-XX	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Extirpated	

Location:
MADERA, NO OTHER LOCATION INFORMATION GIVEN.

Detailed Location:

Ecological:

Threats:

General:

MVZ #42705 COLLECTED DEC 1944 BY A. HAWBECKER. JENNINGS CONSIDERS THIS LOCATION EXTIRPATED.

PLSS: T11S, R17E, Sec. 24 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4094507 E761603	Latitude/Longitude: 36.96034 / -120.06173	Elevation (feet): 270

County Summary:	Quad Summary:
Madera	Madera (3612081)

Sources:

JEN01U0001 JENNINGS, M. (RANA RESOURCES) - LOCALITY RECORDS FOR AMBYSTOMA CALIFORNIENSE IN CALIFORNIA 1992 JENNINGS & HAYES SPECIAL CONCERN HERP DATABASE WITH LOCATIONS MARKED AS PRESENT OR EXTIRPATED. 2001-11-07

MVZ01S0013 MVZ SPECIMEN DATABASE QUERY (UNIVERSITY OF CALIFORNIA, BERKELEY) - MVZ SPECIMENS FOR AMBYSTOMA CALIFORNIENSE COLLECTED BETWEEN 1912-1990 2001-08-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: A7971
Key Quad: Madera (3612081)
Occurrence Number: 1259

EO Index: 109759
Element Code: AAAAA01180
Occurrence Last Updated: 2018-01-04

Scientific Name: *Ambystoma californiense*

Common Name: California tiger salamander

Listing Status:
Federal: Threatened
State: Threatened
CNDDDB Element Ranks:
Global: G2G3
State: S2S3

Rare Plant Rank:
Other Lists: CDFW_WL-Watch List
 IUCN_VU-Vulnerable

General Habitat:
 CENTRAL VALLEY DPS FEDERALLY LISTED AS THREATENED. SANTA BARBARA AND SONOMA COUNTIES DPS FEDERALLY LISTED AS ENDANGERED.

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

Last Date Observed: 2017-04-10
Last Survey Date: 2017-04-10
Owner/Manager: PVT-BNSF RAILROAD
Presence: Presumed Extant

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

Location:
 RAILROAD RIGHT OF WAY FROM ABOUT 0.1-0.2 MI NW OF THE RAYMOND RD CROSSING, 1.0 MI NE OF HWY 145 AT STOREY RD IN MADERA.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES.

Ecological:
 PONDED AREAS ADJACENT TO DIRT ROADS AND RAILROAD TRACKS, IN HEAVILY DISTURBED GRASSLAND.

Threats:
 FIRST POND OBSERVED DEEMED LIKELY TO DRY BEFORE METAMORPHOSIS.

General:
 100S OF LARVAE OBSERVED IN PONDED AREA ALONG DIRT ROAD ON 29 MAR 2017. 100S MORE WELL-DEVELOPED LARVAE OBSERVED IN ADDITIONAL POOLS ON 10 APR 2017.

PLSS: T11S, R18E, Sec. 8, SW (M)	Accuracy: specific area	Area (acres): 12
UTM: Zone-10 N4097457 E764221	Latitude/Longitude: 36.98616 / -120.03133	Elevation (feet): 292

County Summary:	Quad Summary:
Madera	Madera (3612081)

Sources:
 BAY17F0002 BAYNE, K. ET AL. - FIELD SURVEY FORM FOR AMBYSTOMA CALIFORNIENSE 2017-03-29
 BAY17F0003 BAYNE, K. - FIELD SURVEY FORM FOR AMBYSTOMA CALIFORNIENSE 2017-04-10



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: A2000
Key Quad: Madera (3612081)
Occurrence Number: 2691

EO Index: 103593
Element Code: ABNKC19070
Occurrence Last Updated: 2016-09-28

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:
 BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:
 REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2016-04-16
Last Survey Date: 2016-04-16
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
 NORTH SIDE OF AVE 14, ABOUT 0.1 MILES NE OF ITS INTERSECTION WITH RD 24 IN MADERA.

Detailed Location:
 MAPPED TO SYCAMORE/PLANE TREE IN FRONT YARD OF RESIDENCE, VISIBLE IN AIR PHOTOS AND GOOGLE STREET VIEW (COORDINATES GIVEN ARE CLOSE BUT NOT EXACT).

Ecological:
 NEST IN SYCAMORE/PLANE TREE IN FRONT YARD OF RESIDENCE (NEST TREE SPECIES DETERMINED FROM PROVIDED PHOTO). DISTURBANCE FROM ADJACENT BUSY ROAD AND RESIDENCES.

Threats:
General:
 1 ADULT OBSERVED CIRCLING NEST TREE AND SITTING ON NEST ON 16 APR 2016.

PLSS: T11S, R17E, Sec. 22, SW (M)	Accuracy: 80 meters	Area (acres): 5
UTM: Zone-10 N4093583 E757427	Latitude/Longitude: 36.95316 / -120.10889	Elevation (feet): 250

County Summary:	Quad Summary:
Madera	Madera (3612081)

Sources:
 FOL16F0001 FOLSOM, G. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2016-04-06



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: A2418
Key Quad: Madera (3612081)
Occurrence Number: 2696

EO Index: 104028
Element Code: ABNKC19070
Occurrence Last Updated: 2016-10-31

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status:
Federal: None
State: Threatened
CNDDDB Element Ranks:
Global: G5
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

General Habitat:
 BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.

Micro Habitat:
 REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.

Last Date Observed: 2016-07-12

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2016-07-12

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

NORTH SIDE OF COTTONWOOD CREEK ABOUT 0.25 MILES NW OF HWY 99 AT AVE 12, 3 MILES SE OF MADERA.

Detailed Location:

MAPPED TO PROVIDED COORDINATES.

Ecological:

NEST IN COTTONWOOD IN RIPARIAN AREA BETWEEN CANAL AND COTTONWOOD CREEK. AREA NORTH OF CANAL WAS INDUSTRIAL; SURROUNDING AREA AGRICULTURAL.

Threats:

General:

ACTIVE NEST MONITORED THROUGH 2016 SEASON; BY 12 JUL, 3 YOUNG HAD FLEDGED.

PLSS: T11S, R18E, Sec. 33, SW (M)

Accuracy: 80 meters

Area (acres): 5

UTM: Zone-10 N4090828 E765622

Latitude/Longitude: 36.92609 / -120.01794

Elevation (feet): 273

County Summary:

Madera

Quad Summary:

Madera (3612081)

Sources:

BAT16F0001 BATES, K. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2016-07-12



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



Map Index Number: 62822
Key Quad: Madera (3612081)
Occurrence Number: 757

EO Index: 62876
Element Code: ABNSB10010
Occurrence Last Updated: 2005-10-17

Scientific Name: *Athene cucularia*

Common Name: burrowing owl

Listing Status:
Federal: None
State: None
CNDDDB Element Ranks:
Global: G4
State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_LC-Least Concern
 USFWS_BCC-Birds of Conservation Concern

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

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

Last Date Observed: 2005-02-24
Last Survey Date: 2005-02-24
Owner/Manager: USBOR
Presence: Possibly Extirpated

Occurrence Type: Natural/Native occurrence
Occurrence Rank: None
Trend: Unknown

Location:
 0.2 MILE NORTH OF AVENUE 16 AND 0.7 MILE WEST OF HIGHWAY 99, JUST EAST OF MADERA AIRPORT.

Detailed Location:

Ecological:

HABITAT CONSISTED OF RUDERAL/NON-NATIVE GRASSLAND ON A WEST-FACING SLOPE. SURROUNDED BY A PONDING BASIN AND AGRICULTURE.

Threats:

BURROW DESTROYED BY PONDING BASIN ENLARGEMENT.

General:

AFTER THE OWL HAD LEFT THE BURROW, AND IT WAS DETERMINED THAT THERE WERE NO EGGS OR YOUNG INSIDE, THE SITE WAS GRADED TO ENLARGE THE PONDING BASIN.

PLSS: T11S, R17E, Sec. 10, SE (M)
UTM: Zone-10 N4097134 E758193

Accuracy: 80 meters
Latitude/Longitude: 36.98492 / -120.09909

Area (acres): 0
Elevation (feet): 255

County Summary:

Madera

Quad Summary:

Madera (3612081)

Sources:

PEA05F0001 PEARSON, A.J. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2005-02-24



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



Map Index Number: 68509
Key Quad: Madera (3612081)
Occurrence Number: 64

EO Index: 68823
Element Code: AMACC05030
Occurrence Last Updated: 2007-03-16

Scientific Name: *Lasiurus cinereus*

Common Name: hoary bat

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

Rare Plant Rank:
Other Lists: IUCN_LC-Least Concern
 WBWG_M-Medium Priority

General Habitat:

PREFERS OPEN HABITATS OR HABITAT MOSAICS, WITH ACCESS TO TREES FOR COVER AND OPEN AREAS OR HABITAT EDGES FOR FEEDING.

Micro Habitat:

ROOSTS IN DENSE FOLIAGE OF MEDIUM TO LARGE TREES. FEEDS PRIMARILY ON MOTHS. REQUIRES WATER.

Last Date Observed: 1944-02-25

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1944-02-25

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

MADERA, AT L AND YOSEMITE AVE.

Detailed Location:

MAPPED ACCORDING TO LOCALITY GIVEN BY MANIS.

Ecological:

Threats:

General:

1 MALE SPECIMEN (MVZ #109120) COLLECTED BY ALBERT C. HAWBECKER JR. ON 26 FEB 1944.

PLSS: T11S, R17E, Sec. 24, SW (M)

Accuracy: 1/10 mile

Area (acres): 0

UTM: Zone-10 N4094125 E761175

Latitude/Longitude: 36.95701 / -120.06666

Elevation (feet): 270

County Summary:

Madera

Quad Summary:

Madera (3612081)

Sources:

MAN04S0029 MAMMAL NETWORKED INFORMATION SYSTEM (MANIS) - PRINTOUT OF LASIURUS CINEREUS SPECIMENS FOR CALIFORNIA FROM MANIS. INCLUDES RECORDS FROM MVZ, CAS, MSB, LSU, KU, LACM, UWBM, FMNH AND TTU. 2004-12-10



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



Map Index Number: 14160
Key Quad: Madera (3612081)
Occurrence Number: 107

EO Index: 27810
Element Code: ARACF07010
Occurrence Last Updated: 1989-08-10

Scientific Name: *Gambelia sila*

Common Name: blunt-nosed leopard lizard

Listing Status:
Federal: Endangered
State: Endangered
CNDDDB Element Ranks: **Global:** G1
State: S1

Rare Plant Rank:
Other Lists: CDFW_FP-Fully Protected
IUCN_EN-Endangered

General Habitat:
RESIDENT OF SPARSELY VEGETATED ALKALI AND DESERT SCRUB HABITATS, IN AREAS OF LOW TOPOGRAPHIC RELIEF.

Micro Habitat:
SEEKS COVER IN MAMMAL BURROWS, UNDER SHRUBS OR STRUCTURES SUCH AS FENCE POSTS; THEY DO NOT EXCAVATE THEIR OWN BURROWS.

Last Date Observed: 1916-06-XX
Last Survey Date: 1916-06-XX
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
5 MI SW MADERA.

Detailed Location:

Ecological:

Threats:

General:
CAS SPECIMEN.

PLSS: T12S, R17E, Sec. 09, NE (M)
UTM: Zone-10 N4088008 E757384

Accuracy: 1 mile
Latitude/Longitude: 36.90299 / -120.11127

Area (acres): 0
Elevation (feet): 232

County Summary:

Quad Summary:

Madera

Madera (3612081), Bonita Ranch (3612082)

Sources:

BRO74R0001 BRODE, J.M. & D.C. STROUF (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - LOCALITIES FOR THE BLUNT-NOSED LEOPARD LIZARD. A LIST OF MUSEUM AND OBSERVATIONS PREPARED BY INLAND FISHERIES BRANCH, CA DEPT. OF FISH AND GAME 1974-XX-XX



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



Map Index Number: 14334
Key Quad: Madera (3612081)
Occurrence Number: 129

EO Index: 26027
Element Code: CTT44110CA
Occurrence Last Updated: 1998-07-15

Scientific Name: *Northern Hardpan Vernal Pool*

Common Name: Northern Hardpan Vernal Pool

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G3
 State: S3.1

Rare Plant Rank:
Other Lists:

General Habitat:

Micro Habitat:

Last Date Observed: 1986-05-21

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1986-05-21

Occurrence Rank: Fair

Owner/Manager: PVT

Trend: Decreasing

Presence: Presumed Extant

Location:

ON NORTH AND SOUTH SIDES OF AVENUE 15, 1/2 MILE EAST OF TOPEKA AND SANTA FE RAILWAY.

Detailed Location:

Ecological:

REMNANT VERNAL POOLS IN VALLEY GRASSLAND. POOLS ON SOUTH SIDE OF ROAD ARE IN DISKED WHEAT FIELD. ORCUTTIA PILOSA, PHALARIS, ERYNGIUM, LYTHRUM, AND PSILOCARPHUS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

Threats:

AGRICULTURE / DISKING IS LARGEST THREAT.

General:

FEWER ORCUTTIA PLANTS IN '86 THAN IN '83. HYDROLOGY OF POOL PROBABLY ALTERED BY DISKING. SEE WWW.DFG.CA.GOV/BIOGEO/DATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T11S, R18E, Sec. 16, SE (M)

Accuracy: specific area

Area (acres): 15

UTM: Zone-10 N4095505 E766555

Latitude/Longitude: 36.96793 / -120.00583

Elevation (feet): 290

County Summary:

Quad Summary:

Madera

Madera (3612081)

Sources:

STE86F0036 STEBBINS, J. - FIELD SURVEY FORM FOR ORCUTTIA PILOSA & VERNAL POOL 1986-05-21



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: A2132	EO Index: 103727
Key Quad: Madera (3612081)	Element Code: ICBRA03030
Occurrence Number: 902	Occurrence Last Updated: 2016-10-13

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MOUNTAINS, AND SOUTH COAST MOUNTAINS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2016-02-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2016-02-11	Occurrence Rank: Poor
Owner/Manager: STATE-HS RAIL	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG RAILROAD TRACK, ABOUT 0.2 MILES W OF ELLIS ST AT RD 28 1/2 & 1.1 MILES NE OF HWY 145 AT TOZER ST, MADERA.

Detailed Location:
MAPPED TO PROVIDED COORDINATES.

Ecological:
SEASONAL POOL/DIRT ROADSIDE PUDDLE ADJACENT TO RAILROAD RIGHT-OF-WAY IN RURAL RESIDENTIAL AREA. WITHIN PLANNED HIGH SPEED RAIL ALIGNMENT, SITE IS PERMITTED BUT HAS NOT BEEN DISTURBED YET (2016).

Threats:
HIGH SPEED RAIL CONSTRUCTION.

General:
THOUSANDS OBSERVED, DOZENS OF ADULTS COLLECTED AND POSITIVELY IDENTIFIED ON 27 JAN, 5 FEB & 11 FEB 2016.

PLSS: T11S, R18E, Sec. 8, SW (M)	Accuracy: 80 meters	Area (acres): 5
UTM: Zone-10 N4097499 E764182	Latitude/Longitude: 36.98655 / -120.03176	Elevation (feet): 292

County Summary:	Quad Summary:
Madera	Madera (3612081)

Sources:
NEW16F0001 NEWMAN, D. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2016-02-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: A6634	EO Index: 108404
Key Quad: Madera (3612081)	Element Code: ICBRA03030
Occurrence Number: 909	Occurrence Last Updated: 2017-10-18

Scientific Name: <i>Branchinecta lynchi</i>	Common Name: vernal pool fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: IUCN_VU-Vulnerable
CNDDDB Element Ranks:	
Global: G3	
State: S3	

General Habitat: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MOUNTAINS, AND SOUTH COAST MOUNTAINS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 2017-02-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2017-02-26	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH SIDE OF AVENUE 17 ABOUT 0.3 TO 0.4 MILES EAST OF N LAKE ST, N OF MADERA.

Detailed Location:
MAPPED TO PROVIDED COORDINATES.

Ecological:
TWO BASINS BETWEEN ROWS OF AN INACTIVE VINEYARD IN AGRICULTURAL AREA. RAILROAD TRACKS NEARBY; HIGH SPEED RAIL PROJECT MAY IMPACT AREA. B. MESOVALLENSIS ALSO FOUND.

Threats:
DEVELOPMENT, CONSTRUCTION ACTIVITIES, OR REACTIVATION OF VINEYARD.

General:
1 ADULT OBSERVED IN E POOL, 1 IN W POOL ON 26 FEB 2017. 100S-1000S OF NAUPLII PRESENT, UNKNOWN WHAT PERCENT WERE B. LYNCHI VS. B. MESOVALLENSIS.

PLSS: T11S, R18E, Sec. 7, NW (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4098506 E762589	Latitude/Longitude: 36.99606 / -120.04928	Elevation (feet): 294

County Summary:	Quad Summary:
Madera	Madera (3612081)

Sources:

STO17F0004	STOLPE, R. ET AL. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2017-02-26
STO17F0005	STOLPE, R. ET AL. - FIELD SURVEY FORM FOR BRANCHINECTA LYNCHI 2017-02-26



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: A6634	EO Index: 108403
Key Quad: Madera (3612081)	Element Code: ICBRA03150
Occurrence Number: 137	Occurrence Last Updated: 2017-10-02

Scientific Name: <i>Branchinecta mesovallensis</i>	Common Name: midvalley fairy shrimp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G2	
State: S2S3	

General Habitat: VERNAL POOLS IN THE CENTRAL VALLEY.	Micro Habitat: <input type="checkbox"/>
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Last Date Observed: 2017-02-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2017-02-26	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH SIDE OF AVENUE 17 ABOUT 0.3 TO 0.4 MILES EAST OF N LAKE ST, N OF MADERA.

Detailed Location:
MAPPED TO PROVIDED COORDINATES.

Ecological:
TWO BASINS BETWEEN ROWS OF AN INACTIVE VINEYARD IN AGRICULTURAL AREA. RAILROAD TRACKS NEARBY; HIGH SPEED RAIL PROJECT MAY IMPACT AREA. B. LYNCHI ALSO FOUND.

Threats:
DEVELOPMENT, CONSTRUCTION ACTIVITIES, OR REACTIVATION OF VINEYARD.

General:
7 ADULTS OBSERVED IN W POOL, 3 IN E POOL ON 26 FEB 2017. 100S-1000S OF NAUPLII PRESENT, UNKNOWN WHAT PERCENT WERE B. LYNCHI VS. B. MESOVALLENSIS.

PLSS: T11S, R18E, Sec. 7, NW (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4098506 E762589	Latitude/Longitude: 36.99606 / -120.04928	Elevation (feet): 294

County Summary: Madera	Quad Summary: Madera (3612081)
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Sources:
 STO17F0006 STOLPE, R. ET AL. - FIELD SURVEY FORM FOR BRANCHINECTA MESOVALLENSIS 2017-02-26
 STO17F0007 STOLPE, R. ET AL. - FIELD SURVEY FORM FOR BRANCHINECTA MESOVALLENSIS 2017-02-26



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30806
Key Quad: Madera (3612081)
Occurrence Number: 6

EO Index: 64457
Element Code: IICOL4C030
Occurrence Last Updated: 2006-03-30

Scientific Name: *Lytta molesta*

Common Name: molestan blister beetle

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2
 State: S2

Rare Plant Rank:
Other Lists:

General Habitat:

INHABITS THE CENTRAL VALLEY OF CALIFORNIA, FROM CONTRA COSTA TO KERN AND TULARE COUNTIES.

Micro Habitat:

Last Date Observed: 19XX-XX-XX
Last Survey Date: 19XX-XX-XX
Owner/Manager: UNKNOWN
Presence: Possibly Extirpated

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

Location:

MADERA.

Detailed Location:

Ecological:

Threats:

General:

LOCALITY FROM CALIFORNIA BEETLE PROJECT ONLINE DATABASE; COLLECTION INFORMATION NOT GIVEN. HISTORICAL RECORD; EXACT LOCATION UNKNOWN.

PLSS: T11S, R17E, Sec. 24 (M)
UTM: Zone-10 N4094507 E761603

Accuracy: 1 mile
Latitude/Longitude: 36.96034 / -120.06173

Area (acres): 0
Elevation (feet): 270

County Summary:

Madera

Quad Summary:

Madera (3612081)

Sources:

CBP06U0001 CALIFORNIA BEETLE PROJECT (SBMNH) - ONLINE DATABASE RECORDS FOR LYTTA MOESTA. 2006-03-27



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 30806
Key Quad: Madera (3612081)
Occurrence Number: 10

EO Index: 20975
Element Code: PDPLM09130
Occurrence Last Updated: 2009-04-16

Scientific Name: *Leptosiphon serrulatus*
Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G3
 State: S3

Common Name: Madera leptosiphon
Rare Plant Rank: 1B.2
Other Lists: USFS_S-Sensitive

General Habitat:
 CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.

Micro Habitat:
 DRY SLOPES; OFTEN ON DECOMPOSED GRANITE IN WOODLAND.
 300-1300 M.

Last Date Observed: 1889-05-XX
Last Survey Date: 1889-05-XX
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
 NEAR MADERA.
Detailed Location:
 MAPPED AT CNDDDB IN VICINITY OF THE COMMUNITY OF MADERA.

Ecological:
Threats:

General:
 ONLY SOURCE OF INFORMATION FOR THIS SITE IS AN 1889 COLLECTION BY BUCKMINSTER. NEEDS FIELDWORK.

PLSS: T11S, R17E, Sec. 24 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4094507 E761603	Latitude/Longitude: 36.96034 / -120.06173	Elevation (feet): 270

County Summary:	Quad Summary:
Madera	Madera (3612081)

Sources:
 BUC89S0001 BUCKMINSTER, P. - BUCKMINSTER SN UC #84340 JEPS #89130 1889-05-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 14329
Key Quad: Madera (3612081)
Occurrence Number: 15

EO Index: 22325
Element Code: PMPOA4G040
Occurrence Last Updated: 1995-07-21

Scientific Name: *Orcuttia pilosa*

Common Name: hairy Orcutt grass

Listing Status: **Federal:** Endangered
 State: Endangered
CNDDDB Element Ranks: **Global:** G1
 State: S1

Rare Plant Rank: 1B.1
Other Lists:

General Habitat:
 VERNAL POOLS.

Micro Habitat:
 25-125 M.

Last Date Observed: 1941-05-31
Last Survey Date: 1987-06-02
Owner/Manager: PVT
Presence: Extirpated

Occurrence Type: Natural/Native occurrence
Occurrence Rank: None
Trend: Unknown

Location:
 4 MILES EAST OF MADERA.

Detailed Location:

MAPPED ALONG HIGHWAY 145. COLLECTION MADE "3 MILES OUT OF MADERA ON THE NORTHFORK ROAD" ARE ALSO ATTRIBUTED TO THIS SITE. AREA NEAR HIGHWAY 145 AND ROADS 300 AND 400 SEARCHED IN 1981.

Ecological:

Threats:
 DEVELOPMENT, SMALL HORSE PASTURES, ORCHARDS, ROADS, ETC.

General:
 AREA SEARCHED IN 1981 & 1987 BUT NO SUITABLE HABITAT REMAINS; SITE EXTIRPATED. INCLUDES FORMER OCCURRENCE #14.

PLSS: T11S, R18E, Sec. 09, NE (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4098288 E766503	Latitude/Longitude: 36.99300 / -120.00543	Elevation (feet): 300

County Summary:	Quad Summary:
Madera	Madera (3612081)

- Sources:**
- BIO88R0001 BIOSYSTEMS ANALYSIS, INC. - STATUS SURVEY OF THE GRASS TRIBE ORCUTTIAEAE AND CHAMAESYCE HOOVERI IN THE CENTRAL VALLEY OF CALIFORNIA 1988-09-XX
 - HAR81F0018 HARRISON, S. & J. FERREIRA - FIELD SURVEY FORM FOR ORCUTTIA PILOSA 1981-06-03
 - HOO41S0001 HOOVER, R. - HOOVER #5284 UC #766715, DS #329219, CAS-BOT-BC #254319, UTC #00079793, SEINET #196301 1941-05-31
 - WAG38S0001 WAGNON, K. - WAGNON SN UC 1938-07-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 14334
Key Quad: Madera (3612081)
Occurrence Number: 19

EO Index: 25989
Element Code: PMPOA4G040
Occurrence Last Updated: 2013-04-24

Scientific Name: *Orcuttia pilosa*

Common Name: hairy Orcutt grass

Listing Status:
Federal: Endangered
State: Endangered
CNDDDB Element Ranks:
Global: G1
State: S1

Rare Plant Rank: 1B.1
Other Lists:

General Habitat:
 VERNAL POOLS.

Micro Habitat:
 25-125 M.

Last Date Observed: 1986-05-21

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2010-08-08

Occurrence Rank: None

Owner/Manager: PVT

Trend: Decreasing

Presence: Possibly Extirpated

Location:

0.5-0.9 MILE EAST OF SANTA FE RAILROAD TRACKS, ON BOTH SIDES OF AVENUE 15, EAST OF MADERA.

Detailed Location:

POOLS ON THE SOUTH SIDE OF AVENUE 15 ARE IN BARLEY. MAPPED WITHIN THE SE 1/4 OF THE SE 1/4 OF SECTION 16 AND THE N 1/4 OF THE NE 1/4 OF SECTION 21.

Ecological:

REMNANT VERNAL POOLS ON CLAY SOIL, WITHIN REMNANT GRASSLAND. ASSOCIATED WITH DOWNINGIA, PHALARIS PARADOXA, ERYNGIUM VASEYI, LYTHRUM HYSSOPIFOLIA, AND PSILOCARPUS BREVISSUMUS.

Threats:

2010: N SIDE OF ROAD IS ORCHARD; POOLS AVOIDED, BUT VERY WEEDY. S POLY REPEATEDLY PLOWED, NO VERNAL FEATURES EVIDENT.

General:

POPULATION OF OVER 1000 PLANTS IN LESS THAN ONE HECTARE IN 1982. 3 PLANTS OBSERVED IN 1986. SITE QUALITY MARGINAL IN 1983 AND 1986. NO PLANTS FOUND IN 2010.

PLSS: T11S, R18E, Sec. 16, SE (M)

Accuracy: specific area

Area (acres): 15

UTM: Zone-10 N4095505 E766555

Latitude/Longitude: 36.96793 / -120.00583

Elevation (feet): 360

County Summary:

Madera

Quad Summary:

Madera (3612081)

Sources:

- BIO88R0001 BIOSYSTEMS ANALYSIS, INC. - STATUS SURVEY OF THE GRASS TRIBE ORCUTTIEAE AND CHAMAESYCE HOOVERI IN THE CENTRAL VALLEY OF CALIFORNIA 1988-09-XX
- STE82F0002 STEBBINS, J. - FIELD SURVEY FORM FOR ORCUTTIA PILOSA 1982-06-07
- STE82S0001 STEBBINS, J.C. - STEBBINS #82255 JEPS #81203, UC #1266959, CHSC #37334, MO #2600138, SEINET #10592188 1982-06-07
- STE83U0003 STEBBINS, J. - ELEMENT OCCURRENCE EVALUATION FORM FOR ORCUTTIA PILOSA 1983-06-16
- STE86F0007 STEBBINS, J. - FIELD SURVEY FORM FOR ORCUTTIA PILOSA 1986-05-21
- WIT13R0001 WITHAM, C. - STATUS SURVEYS FOR SEVEN FEDERALLY LISTED VERNAL POOL GRASSES AND CHAMAESYCE HOOVERI IN THE SACRAMENTO AND SAN JOAQUIN VALLEYS (GREAT VALLEY), CALIFORNIA, USA 2013-03-25



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: B0724
Key Quad: Madera (3612081)
Occurrence Number: 49

EO Index: 112592
Element Code: PMPOA4G040
Occurrence Last Updated: 2018-09-18

Scientific Name: *Orcuttia pilosa*

Common Name: hairy Orcutt grass

Listing Status: **Federal:** Endangered
State: Endangered
CNDDDB Element Ranks: **Global:** G1
State: S1

Rare Plant Rank: 1B.1
Other Lists:

General Habitat:
 VERNAL POOLS.

Micro Habitat:
 25-125 M.

Last Date Observed: 2017-06-20
Last Survey Date: 2017-06-20
Owner/Manager: PVT
Presence: Presumed Extant

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

Location:
 ALONG BOTH SIDES OF BNSF RAILWAY BETWEEN AVE 15 AND COTTONWOOD CREEK, EAST OF MADERA.

Detailed Location:
 4 POLYGONS MAPPED ACCORDING TO 2016 HERMANSEN COORDINATES, 2016 DE GROOT COORDINATES, AND 2017 TOEWS COORDINATES, IN THE EAST 1/2 OF SECTION 21 AND THE NW 1/4 OF THE NW 1/4 OF SECTION 27.

Ecological:
 DEPRESSIONAL FEATURES WITHIN CULTIVATED GRAIN FIELDS, VERNAL POOLS. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA, TYPHA ANGUSTIFOLIA, DOWNINGIA BICORNUTA, SAGITTARIA LATIFOLIA, PLAGIOBOTHRYIS SP., ERYNGIUM VASEYI, POLYGONUM AVICULARE, ETC.

Threats:
 CULTIVATION/AGRICULTURE, MECHANICAL DAMAGE FROM DISKING, CONSTRUCTION. PORTIONS TO BE DESTROYED BY HIGH SPEED RAIL.

General:
 2016: 11 PLANTS SEEN IN 2ND N-MOST POLYGON, 5 PLANTS IN 2ND S-MOST POLYGON, ~11 PLANTS IN S-MOST POLYGON. >100,000 PLANTS ESTIMATED IN N-MOST POLYGON FROM A 2017 WINDSHIELD SURVEY. 2010 WINCHELL PHOTOS ATTRIBUTED TO THIS SITE.

PLSS: T11S, R18E, Sec. 21, E (M)	Accuracy: specific area	Area (acres): 8
UTM: Zone-10 N4093920 E766981	Latitude/Longitude: 36.95354 / -120.00161	Elevation (feet): 290

County Summary: Madera	Quad Summary: Gregg (3611988), Madera (3612081)
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- Sources:**
- DEG16F0006 DE GROOT, S. - FIELD SURVEY FORM FOR ORCUTTIA PILOSA 2016-09-08
 - DEG16F0007 DE GROOT, S. - FIELD SURVEY FORM FOR ORCUTTIA PILOSA 2016-09-08
 - DEG16S0006 DE GROOT, S. ET AL. - DE GROOT #8001 RSA #0118076 2016-09-08
 - DEG16S0007 DE GROOT, S. ET AL. - DE GROOT #8000 RSA #0118077 2016-09-08
 - HER16F0001 HERMANSEN, T. - FIELD SURVEY FORM FOR ORCUTTIA PILOSA 2016-05-23
 - HER16F0002 HERMANSEN, T. - FIELD SURVEY FORM FOR ORCUTTIA PILOSA 2016-05-23
 - HER16F0003 HERMANSEN, T. - FIELD SURVEY FORM FOR ORCUTTIA PILOSA 2016-05-23
 - TOE17F0018 TOEWS, D. - FIELD SURVEY FORM FOR ORCUTTIA PILOSA 2017-06-20
 - WIN10I0025 WINCHELL, C. - PHOTOS OF ORCUTTIA PILOSA, CALPHOTOS ID: 0000 0000 0910 2233, 2235-2241 2010-09-30