

FINAL Environmental Assessment

**One-Year Recapture of San Joaquin River
Restoration Flows at Patterson Irrigation District
and/or Banta-Carbona Irrigation District**

**Attachment A – California Natural
Diversity Database Query –
October 13, 2015**





Selected Elements by Common Name
California Department of Fish and Wildlife
California Natural Diversity Database



Query Criteria: Quad is (Brush Lake (3712151) or Crows Landing (3712141) or Patterson (3712142) or Westley (3712152))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
alkali milk-vetch <i>Astragalus tener</i> var. <i>tener</i>	PDFAB0F8R1	None	None	G2T2	S2	1B.2
American badger <i>Taxidea taxus</i>	AMAJF04010	None	None	G5	S3	SSC
big tarplant <i>Blepharizonia plumosa</i>	PDAST1C011	None	None	G2	S2	1B.1
burrowing owl <i>Athene cunicularia</i>	ABNSB10010	None	None	G4	S3	SSC
cackling (=Aleutian Canada) goose <i>Branta hutchinsii leucopareia</i>	ABNJB05035	Delisted	None	G5T3	S2	
California horned lark <i>Eremophila alpestris actia</i>	ABPAT02011	None	None	G5T3Q	S3	WL
California tiger salamander <i>Ambystoma californiense</i>	AAAAA01180	Threatened	Threatened	G2G3	S2S3	SSC
Coastal and Valley Freshwater Marsh <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA	None	None	G3	S2.1	
Crotch bumble bee <i>Bombus crotchii</i>	IIHYM24480	None	None	G3G4	S1S2	
Delta button-celery <i>Eryngium racemosum</i>	PDAP10Z0S0	None	Endangered	G1Q	S1	1B.1
diamond-petaled California poppy <i>Eschscholzia rhombipetala</i>	PDPAP0A0D0	None	None	G1	S1	1B.1
great blue heron <i>Ardea herodias</i>	ABNGA04010	None	None	G5	S4	
Great Valley Valley Oak Riparian Forest <i>Great Valley Valley Oak Riparian Forest</i>	CTT61430CA	None	None	G1	S1.1	
heartscale <i>Atriplex cordulata</i> var. <i>cordulata</i>	PDCHE040B0	None	None	G3T2	S2	1B.2
hoary bat <i>Lasiurus cinereus</i>	AMACC05030	None	None	G5	S4	
least Bell's vireo <i>Vireo bellii pusillus</i>	ABPBW01114	Endangered	Endangered	G5T2	S2	
Lemmon's jewelflower <i>Caulanthus lemmonii</i>	PDBRA0M0E0	None	None	G3	S3	1B.2
lesser saltscale <i>Atriplex minuscule</i>	PDCHE042M0	None	None	G2	S2	1B.1
loggerhead shrike <i>Lanius ludovicianus</i>	ABPBR01030	None	None	G4	S4	SSC
Menke's cuckoo wasp <i>Ceratochrysis menkei</i>	IIHYM71050	None	None	G1	S1	



Selected Elements by Common Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
moestan blister beetle <i>Lytta moesta</i>	IICOL4C020	None	None	G2	S2	
obscure bumble bee <i>Bombus caliginosus</i>	IIHYM24380	None	None	G4?	S1S2	
prairie falcon <i>Falco mexicanus</i>	ABNKD06090	None	None	G5	S4	WL
prairie wedge grass <i>Sphenopholis obtusata</i>	PMPOA5T030	None	None	G5	S2	2B.2
riparian brush rabbit <i>Sylvilagus bachmani riparius</i>	AMAEB01021	Endangered	Endangered	G5T1	S1	
round-leaved filaree <i>California macrophylla</i>	PDGER01070	None	None	G3?	S3?	1B.2
Sacramento splittail <i>Pogonichthys macrolepidotus</i>	AFCJB34020	None	None	GNR	S3	SSC
San Joaquin kit fox <i>Vulpes macrotis mutica</i>	AMAJA03041	Endangered	Threatened	G4T2	S2	
San Joaquin whipsnake <i>Masticophis flagellum ruddocki</i>	ARADB21021	None	None	G5T2T3	S2?	SSC
snowy egret <i>Egretta thula</i>	ABNGA06030	None	None	G5	S4	
song sparrow ("Modesto" population) <i>Melospiza melodia</i>	ABPBXA3010	None	None	G5	S3?	SSC
steelhead - Central Valley DPS <i>Oncorhynchus mykiss irideus</i>	AFCHA0209K	Threatened	None	G5T2Q	S2	
Swainson's hawk <i>Buteo swainsoni</i>	ABNKC19070	None	Threatened	G5	S3	
tricolored blackbird <i>Agelaius tricolor</i>	ABPBXB0020	None	None	G2G3	S1S2	SSC
valley elderberry longhorn beetle <i>Desmocerus californicus dimorphus</i>	IICOL48011	Threatened	None	G3T2	S2	
vernal pool fairy shrimp <i>Branchinecta lynchi</i>	ICBRA03030	Threatened	None	G3	S3	
vernal pool smallscale <i>Atriplex persistens</i>	PDCHE042P0	None	None	G2	S2	1B.2
western spadefoot <i>Spea hammondi</i>	AAABF02020	None	None	G3	S3	SSC

Record Count: 38



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad is (Brush Lake (3712151) or Crows Landing (3712141) or Patterson (3712142) or Westley (3712152))

Map Index Number: 20949	EO Index: 17606
Key Quad: Westley (3712152)	Element Code: AAAAAA01180
Occurrence Number: 119	Occurrence Last Updated: 2008-11-25

Scientific Name: <i>Ambystoma californiense</i>	Common Name: California tiger salamander
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: Threatened	Other Lists: CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat: CENTRAL VALLEY DPS FEDERALLY LISTED AS THREATENED. SANTA BARBARA & SONOMA COUNTIES DPS FEDERALLY LISTED AS ENDANGERED.	Micro Habitat: NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS, & VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING.
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Last Date Observed: 1992-02-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-02-19	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG PARADISE ROAD, IN THE VICINITY OF ITS JUNCTION WITH CALIFORNIA AVENUE AND HUNTINGTON ROAD, 8 MILES WNW OF MODESTO.

Detailed Location:
SPECIMENS IN 1991 WERE FOUND IN THE VICINITY OF HUNTINGTON RD X PARADISE RD; THE 1990 AND 1992 SPECIMENS WERE FOUND ALONG CALIFORNIA AVENUE, NEAR PARADISE ROAD.

Ecological:
HABITAT CONSISTS OF VERNAL POOLS.

Threats:
THREATENED BY DEVELOPMENT AND AGRICULTURAL PRACTICES.

General:
1 CTS FOUND DOR ON 14 JANUARY 1990. 5 LARVAE COLLECTED (MRJ-0512, O513, 0625, CAS #179030), 3 APR 1991. SHAFFER SITE 136, 1991. 1992: 2 CTS OBSERVED DURING INTERMITTENT RAIN, 19:15-20:30 HRS (MEASUREMENTS AS FOLLOWS: 85 MM-SVL, 10 MM-SVL).

PLSS: T03S, R07E, Sec. 36 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4165675 E662880	Latitude/Longitude: 37.62378 / -121.15429	Elevation (feet): 40

County Summary: Stanislaus	Quad Summary: Westley (3712152), Ripon (3712162)
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Sources:

CAS01S0002	CALIFORNIA ACADEMY OF SCIENCES - 1990-2000 CAS HERPETOLOGY HOLDINGS (INCLUDES STANFORD UNIVERSITY COLLECTIONS) FOR AMBYSTOMA CALIFORNIENSE 2001-02-14
FOR92M0001	FORD, T. - MAP DETAILING AMPHIBIAN LOCALITY INFO IN STANISLAUS COUNTY. 1992-03-29
JEN93U0001	JENNINGS, M. (CALIFORNIA ACADEMY OF SCIENCES) - SPECIMEN COLLECTION REPORT FOR SPECIMENS COLLECTED FROM 16 FEBRUARY 1991 TO 10 MARCH 1993. 1993-XX-XX



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



Map Index Number: 42144	EO Index: 42144
Key Quad: Copper Mtn. (3712143)	Element Code: AAABF02020
Occurrence Number: 170	Occurrence Last Updated: 2000-01-12

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

General Habitat:	Micro Habitat:
OCCURS PRIMARILY IN GRASSLAND HABITATS, BUT CAN BE FOUND IN VALLEY-FOOTHILL HARDWOOD WOODLANDS.	VERNAL POOLS ARE ESSENTIAL FOR BREEDING AND EGG-LAYING.

Last Date Observed: 1994-05-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-05-10	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SALADO CREEK, ON THE WEST SIDE OF OAK FLAT ROAD, 7 MILES SW OF PATTERSON.

Detailed Location:
TADPOLES OBSERVED IN SEVERAL POOLS IN SALADO CREEK AND ADJACENT STOCKPONDS IN OAK FLAT VALLEY.

Ecological:
HABITAT CONSISTS OF AN EPHEMERAL CREEK RUNNING THROUGH A MIXTURE OF NATIVE AND NON-NATIVE GRASSLAND, SCRUB, AND WOODLAND.

Threats:
THREATENED BY PROPOSED DEVELOPMENT (RESIDENTIAL AND A GOLF COURSE).

General:
2+ ADULTS AND 100+ JUVENILES OBSERVED ON 10 MAY 1994.

PLSS: T06S, R07E, Sec. 19 (M)	Accuracy: nonspecific area	Area (acres): 297
UTM: Zone-10 N4140460 E654171	Latitude/Longitude: 37.39810 / -121.25822	Elevation (feet): 1,100

County Summary:	Quad Summary:
Stanislaus	Patterson (3712142), Copper Mtn. (3712143)

Sources:

MUT94F0012	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR SPEA (=SCAPHIOPUS) HAMMONDII 1994-05-10
MUT94F0013	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR SPEA (=SCAPHIOPUS) HAMMONDII 1994-05-10
MUT94F0014	MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR SPEA (=SCAPHIOPUS) HAMMONDII 1994-05-10



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 42146	EO Index: 42146
Key Quad: Patterson (3712142)	Element Code: AAABF02020
Occurrence Number: 175	Occurrence Last Updated: 2000-01-12

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

General Habitat: OCCURS PRIMARILY IN GRASSLAND HABITATS, BUT CAN BE FOUND IN VALLEY-FOOTHILL HARDWOOD WOODLANDS.	Micro Habitat: VERNAL POOLS ARE ESSENTIAL FOR BREEDING AND EGG-LAYING.
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Last Date Observed: 1994-05-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-05-13	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH SIDE OF SALADO CREEK, JUST EAST OF OAK FLAT VALLEY, 6 MILES SW OF PATTERSON.

Detailed Location:

Ecological:
HABITAT CONSISTS OF A STOCKPOND, SURROUNDED BY A MIXTURE OF NATIVE AND NON-NATIVE GRASSLAND, SCRUB, AND WOODLAND.

Threats:
THREATENED BY A PROPOSED ROAD IMPROVEMENT PROJECT.

General:
10+ JUVENILES OBSERVED ON 13 MAY 1994.

PLSS: T06S, R07E, Sec. 07 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4143980 E656258	Latitude/Longitude: 37.42947 / -121.23390	Elevation (feet): 1,100

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:
MUT94F0015 MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR SPEA (=SCAPHIOPUS) HAMMONDII 1994-05-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 42148	EO Index: 42148
Key Quad: Patterson (3712142)	Element Code: AAABF02020
Occurrence Number: 176	Occurrence Last Updated: 2000-01-12

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

General Habitat: OCCURS PRIMARILY IN GRASSLAND HABITATS, BUT CAN BE FOUND IN VALLEY-FOOTHILL HARDWOOD WOODLANDS.	Micro Habitat: VERNAL POOLS ARE ESSENTIAL FOR BREEDING AND EGG-LAYING.
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Last Date Observed: 1994-05-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-05-15	Occurrence Rank: Good
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SALADO CREEK, ABOUT 1.5 MILES WEST OF 1-5, 4.5 MILES SW OF PATTERSON.

Detailed Location:
TADPOLES FOUND IN A POOL, AT THE WEST END OF A CHERRY ORCHARD.

Ecological:
HABITAT CONSISTS OF NON-NATIVE GRASSLAND, WITH NUMEROUS NATURAL AND ARTIFICIALLY-CREATED VERNAL POOLS.

Threats:
THREATENED BY A PROPOSED ROAD IMPROVEMENT PROJECT.

General:
10+ TADPOLES OBSERVED ON 15 MAY 1994.

PLSS: T06S, R07E, Sec. 15 (M)	Accuracy: nonspecific area	Area (acres): 61
UTM: Zone-10 N4142694 E660679	Latitude/Longitude: 37.41712 / -121.18424	Elevation (feet): 200

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:
MUT94F0016 MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR SPEA (=SCAPHIOPUS) HAMMONDII 1994-05-15



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



Map Index Number:	17132	EO Index:	12065
Key Quad:	Brush Lake (3712151)	Element Code:	ABNGA04010
Occurrence Number:	35	Occurrence Last Updated:	1992-02-19

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

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

Last Date Observed:	1989-05-16	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1989-05-16	Occurrence Rank:	Good
Owner/Manager:	CITY OF MODESTO	Trend:	Stable
Presence:	Presumed Extant		

Location:
EAST SIDE OF THE SAN JOAQUIN RIVER, JUST WEST OF THE CITY OF MODESTO SEWAGE DISPOSAL PONDS, APPROX 8 MI SW OF MODESTO.

Detailed Location:
16 ADULTS AND 4 JUVENILES OBSERVED NESTING IN TWO BLUE OAK (QUERCUS LOBATA) TREES.

Ecological:
HABITAT IS AN ALLUVIAL FLOODPLAIN CONTAINING A RIPARIAN BOTTOMLAND FOREST DOMINATED BY QUERCUS LOBATA AND POPULUS FREMONTII, WITH A SALIX UNDERSTORY.

Threats:
AREA IS CLOSED TO PUBLIC ACCESS BY LAND. POSSIBLE THREAT FROM A PROPOSAL FOR CHANNEL IMPROVEMENTS (SNAGGING & CLEARING).

General:
SNOWY EGRETS ALSO NEST AT THIS LOCATION.

PLSS:	T05S, R08E, Sec. 05 (M)	Accuracy:	1/5 mile	Area (acres):	0
UTM:	Zone-10 N4155135 E667301	Latitude/Longitude:	37.52803 / -121.10662	Elevation (feet):	40

County Summary:	Quad Summary:
Stanislaus	Brush Lake (3712151)

Sources:
HOU89F0002 HOUGHTON, P. - FIELD SURVEY FORM FOR ARDEA HERODIAS (ROOKERY SITE) 1989-05-16



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 17132	EO Index: 12066
Key Quad: Brush Lake (3712151)	Element Code: ABNGA06030
Occurrence Number: 2	Occurrence Last Updated: 1992-02-19

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

General Habitat: COLONIAL NESTER, WITH NEST SITES SITUATED IN PROTECTED BEDS OF DENSE TULE.	Micro Habitat: ROOKERY SITES SITUATED CLOSE TO FORAGING AREAS: MARSHES, TIDAL-FLATS, STREAMS, WET MEADOWS, AND BORDERS OF LAKES.
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Last Date Observed: 1989-05-16	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1989-05-16	Occurrence Rank: Good
Owner/Manager: CITY OF MODESTO	Trend: Stable
Presence: Presumed Extant	

Location:
EAST SIDE OF THE SAN JOAQUIN RIVER, JUST WEST OF THE CITY OF MODESTO SEWAGE DISPOSAL PONDS, APPROX 8 MI SW OF MODESTO.

Detailed Location:
30 ADULTS OBSERVED NESTING IN TWO BLUE OAK (QUERCUS LOBATA) TREES.

Ecological:
HABITAT IS AN ALLUVIAL FLOODPLAIN CONTAINING A RIPARIAN BOTTOMLAND FOREST DOMINATED BY QUERCUS LOBATA AND POPULUS FREMONTII, WITH A SALIX UNDERSTORY.

Threats:
ARE IS CLOSED TO PUBLIC ENTRY BY LAND. POSSIBLE THREAT FROM A PROPOSAL FOR CHANNEL IMPROVEMENTS (SNAGGING AND CLEARING).

General:
GREAT BLUE HERONS ALSO NEST AT THIS LOCATION.

PLSS: T05S, R08E, Sec. 05 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4155135 E667301	Latitude/Longitude: 37.52803 / -121.10662	Elevation (feet): 40

County Summary: Stanislaus	Quad Summary: Brush Lake (3712151)
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Sources:
HOU89F0001 HOUGHTON, P. - FIELD SURVEY FORM FOR EGRETТА THULA (ROOKERY SITE) 1989-05-16



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11850	EO Index: 27363
Key Quad: Westley (3712152)	Element Code: ABNJB05035
Occurrence Number: 7	Occurrence Last Updated: 2010-05-06

Scientific Name: <i>Branta hutchinsii leucopareia</i>	Common Name: cackling (=Aleutian Canada) goose
Listing Status:	Rare Plant Rank:
Federal: Delisted	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G5T3	
State: S2	

General Habitat: WINTERS ON LAKES AND INLAND PRAIRIES.	Micro Habitat: FORAGES ON NATURAL PASTURE OR THAT CULTIVATED TO GRAIN; LOAFS ON LAKES, RESERVOIRS, PONDS.
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Last Date Observed: 1979-01-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1979-01-04	Occurrence Rank: Unknown
Owner/Manager: USFWS-SAN JOAQUIN RIVER NWR	Trend: Unknown
Presence: Presumed Extant	

Location:
FORMER HAGGEMAN PROPERTY IMMEDIATELY W OF THE JUNCTION OF TUOLUMNE & SAN JOAQUIN RIVERS. SAN JOAQUIN NWR.

Detailed Location:

Ecological:
STARTING IN 2002 PART OF THIS AREA WAS REVEGETATED WITH NATIVE RIPARIAN PLANTS.

Threats:

General:
BIRDS FEEDING IN HARVESTED CORNFIELD 4 JAN 1979.

PLSS: T04S, R07E, Sec. 10 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4163901 E660830	Latitude/Longitude: 37.60815 / -121.17789	Elevation (feet): 30

County Summary: Stanislaus	Quad Summary: Westley (3712152)
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Sources:

FWS06R0001	U.S. FISH & WILDLIFE SERVICE - SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE DRAFT COMPREHENSIVE CONSERVATION PLAN AND ENVIRONMENTAL ASSESSMENT. 2006-04-XX
YPA79R0001	YPARRAGUIRRE, D.R. - DISTRIBUTION, MIGRATION AND MORTALITY OF ALEUTIAN CANADA GEESE IN CALIFORNIA, 1977-1978, CALIFORNIA DEPARTMENT OF FISH AND GAME 1979-XX-XX



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



Map Index Number:	11892	EO Index:	27360
Key Quad:	Westley (3712152)	Element Code:	ABNJB05035
Occurrence Number:	8	Occurrence Last Updated:	2007-01-19

Scientific Name:	<i>Branta hutchinsii leucopareia</i>	Common Name:	cackling (=Aleutian Canada) goose
Listing Status:	Federal: Delisted	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G5T3		
	State: S2		

General Habitat:	Micro Habitat:
WINTERS ON LAKES AND INLAND PRAIRIES.	FORAGES ON NATURAL PASTURE OR THAT CULTIVATED TO GRAIN; LOAFS ON LAKES, RESERVOIRS, PONDS.

Last Date Observed:	1987-02-20	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1987-02-20	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 BOGETTI RANCH/DENIZ DAIRY, ABOUT 1.1 MI SE OF JUNCTION OF TUOLUMNE AND SAN JOAQUIN RIVERS.

Detailed Location:
 BIRDS FEEDING IN HARVESTED CORNFIELD; ROOSTED ON MODESTO SEWER OXIDATION PONDS JAN 1979. PRIMARY FEEDING AREA FROM MID-DEC 1986 TO 20 FEB 1987.

Ecological:
Threats:

General:
 BIRDS OBS 12 JAN 1979. ABOUT 600 & 1900 BIRDS ON 8 & 12 DEC 1984. MAJOR USE AREA 12-27 DEC 1984 & MID-JAN 1985. MAJOR USE AREA 5 DEC TO 6 JAN; PEAK AT 4100 ON 5 JAN; GEESE HEARD 6 MAR 1986. 1350 GEESE ON 16 DEC 1986, SEEN UNTIL 20 FEB 1987.

PLSS:	T04S, R07E, Sec. 12 (M)	Accuracy:	3/5 mile	Area (acres):	0
UTM:	Zone-10 N4162657 E662659	Latitude/Longitude:	37.59663 / -121.15745	Elevation (feet):	35

County Summary:	Quad Summary:
Stanislaus	Westley (3712152)

Sources:

GRE87R0001	GREGG, M.A. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1985-86. 1987-XX-XX
GRE88R0002	GREGG, M.A. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1986-87. 1988-XX-XX
HOF86R0001	HOFMANN, P.S. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1984-85. 1986-XX-XX
YPA79R0001	YPARRAGUIRRE, D.R. - DISTRIBUTION, MIGRATION AND MORTALITY OF ALEUTIAN CANADA GEESE IN CALIFORNIA, 1977-1978, CALIFORNIA DEPARTMENT OF FISH AND GAME 1979-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 67830

EO Index: 67978

Key Quad: Westley (3712152)

Element Code: ABNJB05035

Occurrence Number: 16

Occurrence Last Updated: 2007-01-18

Scientific Name: *Branta hutchinsii leucopareia*

Common Name: cackling (=Aleutian Canada) goose

Listing Status: **Federal:** Delisted

Rare Plant Rank:

State: None

Other Lists:

CNDDDB Element Ranks: **Global:** G5T3

State: S2

General Habitat:

WINTERS ON LAKES AND INLAND PRAIRIES.

Micro Habitat:

FORAGES ON NATURAL PASTURE OR THAT CULTIVATED TO GRAIN; LOAFS ON LAKES, RESERVOIRS, PONDS.

Last Date Observed: 1987-02-20

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1987-02-20

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

ISLAND DAIRY, NE OF GRAYSON.

Detailed Location:

BIRDS FEEDING IN CORNFIELD.

Ecological:

Threats:

General:

MAJOR USE AREA FROM 12-27 DEC 1984 & UNTIL 15 JAN 1985, 5 DEC 1985 TO 6 JAN 1986. PRIMARY FEEDING AREA MID-DEC 1986 TO 20 FEB 1987.

PLSS: T04S, R07E, Sec. 23 (M)

Accuracy: nonspecific area

Area (acres): 575

UTM: Zone-10 N4160048 E662183

Latitude/Longitude: 37.57321 / -121.16342

Elevation (feet): 30

County Summary:

Quad Summary:

Stanislaus

Westley (3712152)

Sources:

- GRE87R0001 GREGG, M.A. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1985-86. 1987-XX-XX
- GRE88R0002 GREGG, M.A. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1986-87. 1988-XX-XX
- HOF86R0001 HOFMANN, P.S. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1984-85. 1986-XX-XX



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



Map Index Number: 67831

EO Index: 67979

Key Quad: Brush Lake (3712151)

Element Code: ABNJB05035

Occurrence Number: 17

Occurrence Last Updated: 2007-01-18

Scientific Name: *Branta hutchinsii leucopareia*

Common Name: cackling (=Aleutian Canada) goose

Listing Status: **Federal:** Delisted

Rare Plant Rank:

State: None

Other Lists:

CNDDDB Element Ranks: **Global:** G5T3

State: S2

General Habitat:

WINTERS ON LAKES AND INLAND PRAIRIES.

Micro Habitat:

FORAGES ON NATURAL PASTURE OR THAT CULTIVATED TO GRAIN; LOAFS ON LAKES, RESERVOIRS, PONDS.

Last Date Observed: 1986-01-22

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1986-01-22

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

MODESTO OXIDATION PONDS.

Detailed Location:

1984-1985: BIRDS FED JUST S OF MODESTO OXIDATION PONDS NIGHT ROOST AREA. PRIMARY ROOST SITE FOR WINTERS OF 1985-1986 & 1986-1987.

Ecological:

Threats:

General:

BIRDS OBSERVED FROM 27 DEC 1984 THROUGH 1ST WEEK OF JAN 1985. 1850 BIRDS OBSERVED 5 DEC 1985. ROOST SITE NOV 1985 TO 14 JAN 1986. ROOST SITE DEC TO 22 JAN 1986. BIRDS HAZED FROM POND DUE TO AVIAN CHOLERA OUTBREAK FROM 23 JAN 1986.

PLSS: T05S, R08E, Sec. 04 (M)

Accuracy: 1 mile

Area (acres): 0

UTM: Zone-10 N4155297 E6688667

Latitude/Longitude: 37.52924 / -121.09113

Elevation (feet):

County Summary:

Quad Summary:

Stanislaus

Brush Lake (3712151)

Sources:

- GRE87R0001 GREGG, M.A. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1985-86. 1987-XX-XX
- GRE88R0002 GREGG, M.A. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1986-87. 1988-XX-XX
- HOF86R0001 HOFMANN, P.S. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1984-85. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 67832

EO Index: 67980

Key Quad: Brush Lake (3712151)

Element Code: ABNJB05035

Occurrence Number: 18

Occurrence Last Updated: 2007-01-18

Scientific Name: *Branta hutchinsii leucopareia*

Common Name: cackling (=Aleutian Canada) goose

Listing Status: **Federal:** Delisted

Rare Plant Rank:

State: None

Other Lists:

CNDDDB Element Ranks: **Global:** G5T3

State: S2

General Habitat:

WINTERS ON LAKES AND INLAND PRAIRIES.

Micro Habitat:

FORAGES ON NATURAL PASTURE OR THAT CULTIVATED TO GRAIN; LOAFS ON LAKES, RESERVOIRS, PONDS.

Last Date Observed: 1987-XX-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1987-XX-XX

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

N OF MODESTO OXIDATION PONDS, NEAR INTERSECTION OF KEYES AND LAIRD RD.

Detailed Location:

1984-1985: PRINCIPAL FEEDING AREA. 1986-1987: CORN FIELDS WERE SECONDARY FEEDING AREAS.

Ecological:

Threats:

General:

3000+ BIRDS OBSERVED 19 JAN TO 3 FEB 1985. MAJOR USE AREAS FROM 5 DEC 1985 TO 6 JAN 1986. BIRDS OBSERVED WINTER OF 1986-1987.

PLSS: T04S, R08E, Sec. 28 (M)

Accuracy: 1 mile

Area (acres): 0

UTM: Zone-10 N4159021 E667584

Latitude/Longitude: 37.56298 / -121.10253

Elevation (feet):

County Summary:

Quad Summary:

Stanislaus

Brush Lake (3712151)

Sources:

- GRE87R0001 GREGG, M.A. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1985-86. 1987-XX-XX
- GRE88R0002 GREGG, M.A. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1986-87. 1988-XX-XX
- HOF86R0001 HOFMANN, P.S. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1984-85. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 67839

EO Index: 67987

Key Quad: Crows Landing (3712141)

Element Code: ABNJB05035

Occurrence Number: 19

Occurrence Last Updated: 2007-04-19

Scientific Name: *Branta hutchinsii leucopareia*

Common Name: cackling (=Aleutian Canada) goose

Listing Status: **Federal:** Delisted

Rare Plant Rank:

State: None

Other Lists:

CNDDDB Element Ranks: **Global:** G5T3

State: S2

General Habitat:

WINTERS ON LAKES AND INLAND PRAIRIES.

Micro Habitat:

FORAGES ON NATURAL PASTURE OR THAT CULTIVATED TO GRAIN; LOAFS ON LAKES, RESERVOIRS, PONDS.

Last Date Observed: 1986-02-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1986-02-XX

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

ABOUT 4 MI E OF PATTERSON AT THE INTERSECTION OF PARADISE AND POMELO RDS.

Detailed Location:

FEEDING ON HARVESTED CORN FIELD.

Ecological:

Threats:

General:

900 & 2000 BIRDS OBSERVED ON 10 & 13 FEB, 1070 BIRDS ON 1 MAR 1985. 1000 BIRDS OBSERVED FROM 7 JAN TO MID-FEB 1986.

PLSS: T05S, R08E, Sec. 26 (M)

Accuracy: nonspecific area

Area (acres): 513

UTM: Zone-10 N4148482 E671907

Latitude/Longitude: 37.46724 / -121.05607

Elevation (feet): 50

County Summary:

Stanislaus

Quad Summary:

Crows Landing (3712141)

Sources:

GRE87R0001 GREGG, M.A. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1985-86. 1987-XX-XX

HOF86R0001 HOFMANN, P.S. ET AL. - POPULATION, DISTRIBUTION, AND ECOLOGY OF ALEUTIAN CANADA GEESE ON THEIR MIGRATION AND WINTERING AREAS, 1984-85. 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 12146	EO Index: 27246
Key Quad: Crows Landing (3712141)	Element Code: ABNKC19070
Occurrence Number: 48	Occurrence Last Updated: 2013-08-09

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1988-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SAN JOAQUIN RIVER, RM109.3(L), JUST S OF THE ORESTIMBA CRK CONFLUENCE & W OF HOGIN RD AT AUGUST RD, NE OF CROWS LANDING.

Detailed Location:
CDFW TERRITORIES ST001 & ST015.

Ecological:
RIPARIAN HABITAT SURROUNDED BY CROPLAND.

Threats:

General:
1 SWAINSON'S HAWK OBSERVED IN 1979. 2 ADULTS AND TWO JUVENILES WERE OBSERVED AT A NEST IN 1988.

PLSS: T06S, R09E, Sec. 08 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4143377 E676848	Latitude/Longitude: 37.42033 / -121.00145	Elevation (feet): 55

County Summary: Stanislaus	Quad Summary: Hatch (3712048), Crows Landing (3712141)
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Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST88F0029	ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1988-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 22891	EO Index: 7831
Key Quad: Crows Landing (3712141)	Element Code: ABNKC19070
Occurrence Number: 479	Occurrence Last Updated: 1993-03-30

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1988-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SAN JOAQUIN RIVER, RM-98.6(L), NORTH OF LAS PALMAS ROAD, EAST OF PATTERSON.

Detailed Location:
Ecological:
NESTING HABITAT CONSISTS OF RIPARIAN SURROUNDED BY CROPLAND.

Threats:
General:
DFG SWHA #ST011. IN 1988, TWO ADULTS WERE OBSERVED NESTING.

PLSS: T05S, R08E, Sec. 15 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4151585 E669634	Latitude/Longitude: 37.49563 / -121.08105	Elevation (feet): 35

County Summary: Stanislaus	Quad Summary: Crows Landing (3712141)
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Sources:
DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
EST88F0030 ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1988-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 22892	EO Index: 7832
Key Quad: Crows Landing (3712141)	Element Code: ABNKC19070
Occurrence Number: 480	Occurrence Last Updated: 1993-03-30

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1988-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SAN JOAQUIN RIVER, RM-105(L), 0.5 MILE NORTH OF RIVER RD WHERE IT TURNS WEST FROM THE RIVER, 5 MILES ESE OF PATTERSON.

Detailed Location:
Ecological:
NESTING HABITAT CONSISTS OF RIPARIAN SURROUNDED BY CROPLAND.

Threats:
General:
DFG SWHA #ST014. TWO ADULTS OBSERVED NESTING AND FORAGING.

PLSS: T06S, R08E, Sec. 01 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4145669 E673886	Latitude/Longitude: 37.44154 / -121.03437	Elevation (feet): 50

County Summary: Stanislaus	Quad Summary: Crows Landing (3712141)
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Sources:

DFG92U0001	DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
EST88F0031	ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1988-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 22890	EO Index: 7830
Key Quad: Crows Landing (3712141)	Element Code: ABNKC19070
Occurrence Number: 481	Occurrence Last Updated: 1999-08-04

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1988-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
1 MILE WEST OF SAN JOAQUIN RIVER AT RM-102.5, ALONG AN UNNAMED SLOUGH NORTH OF APRICOT ROAD, 3 MILES EAST OF PATTERSON.

Detailed Location:
Ecological:
NESTING HABITAT CONSISTS OF RIPARIAN SURROUNDED BY CROPLANDS.

Threats:
General:
DFG SWHA #ST013. TWO ADULTS OBSERVED NESTING AND FORAGING.

PLSS: T05S, R08E, Sec. 35 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4147850 E671221	Latitude/Longitude: 37.46168 / -121.06397	Elevation (feet): 45

County Summary: Stanislaus	Quad Summary: Crows Landing (3712141)
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Sources:
DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
EST88F0032 ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1988-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 22894	EO Index: 7813
Key Quad: Brush Lake (3712151)	Element Code: ABNKC19070
Occurrence Number: 482	Occurrence Last Updated: 1993-03-30

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1988-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SAN JOAQUIN RIVER, RM-93.2(R), OFF LOQUAT ROAD, 7 MILES SW OF MODESTO.

Detailed Location:
Ecological:
NESTING HABITAT CONSISTS OF RIPARIAN SURROUNDED BY CROPLAND.

Threats:
General:
DFG SWHA #ST008. TWO ADULTS OBSERVED NESTING AND FORAGING.

PLSS: T04S, R08E, Sec. 32 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4156195 E666605	Latitude/Longitude: 37.53771 / -121.11425	Elevation (feet): 40

County Summary: Stanislaus	Quad Summary: Brush Lake (3712151)
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Sources:
DFG92U0001 DFG - WILDLIFE MANAGEMENT DIVISION - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1992. 1992-08-24
EST88F0033 ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1988-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 22895	EO Index: 7812
Key Quad: Brush Lake (3712151)	Element Code: ABNKC19070
Occurrence Number: 483	Occurrence Last Updated: 1993-03-30

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1988-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SAN JOAQUIN RIVER, RM-93.8(L), 7 MILES SW OF MODESTO.

Detailed Location:

Ecological:
NESTING HABITAT CONSISTS OF RIPARIAN.

Threats:

General:
DFG SWHA #ST009. TWO ADULTS OBSERVED NESTING AND FORAGING.

PLSS: T05S, R08E, Sec. 05 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4155646 E667022	Latitude/Longitude: 37.53268 / -121.10966	Elevation (feet): 35

County Summary: Stanislaus	Quad Summary: Brush Lake (3712151)
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Sources:
EST88F0034 ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1988-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41427	EO Index: 41427
Key Quad: Crows Landing (3712141)	Element Code: ABNKC19070
Occurrence Number: 740	Occurrence Last Updated: 1999-08-04

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1999-05-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1999-05-11	Occurrence Rank: Excellent
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
0.5 MILE ENE OF THE INTERSECTION OF ELM AVENUE AND ALMOND AVENUE, 3 MILES EAST OF PATTERSON.

Detailed Location:

Ecological:
NEST TREE IS A WILLOW (SALIX SP) ALONG AN IRRIGATION CANAL ADJACENT TO A RIPARIAN CORRIDOR; SURROUNDED BY OPEN FIELDS OF AGRICULTURE (WHEAT, ALFALFA, BLACK MUSTARD).

Threats:

General:

2 ADULTS OBSERVED NESTING/FORAGING ON 11 MAY 1999.

PLSS: T05S, R08E, Sec. 27 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4148972 E670277	Latitude/Longitude: 37.47197 / -121.07439	Elevation (feet): 55

County Summary:

Stanislaus

Quad Summary:

Crows Landing (3712141)

Sources:

CRO99F0011 CROWE, R. & V. LEIGHTON - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1999-05-11



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 90222	EO Index: 91235
Key Quad: Westley (3712152)	Element Code: ABNKC19070
Occurrence Number: 2497	Occurrence Last Updated: 2013-09-03

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1988-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG THE TUOLUMNE RIVER, ABOUT 0.5 MILES EAST OF ITS CONFLUENCE WITH THE SAN JOAQUIN RIVER, WEST OF MODESTO.

Detailed Location:
TERRITORY ST007 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE.

Ecological:
NESTING HABITAT DESCRIBED AS RIPARIAN AND CROPLAND.

Threats:
General:
2 ADULTS OBSERVED NESTING AND FORAGING IN 1988 ESTEP SURVEY.

PLSS: T04S, R07E, Sec. 02 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4164201 E661708	Latitude/Longitude: 37.61070 / -121.16788	Elevation (feet): 35

County Summary: Stanislaus	Quad Summary: Westley (3712152)
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Sources:
DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
EST88F0075 ESTEP, J. - FIELD SURVEY FORM FOR BUTEO SWAINSONI 1988-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 90224	EO Index: 91237
Key Quad: Patterson (3712142)	Element Code: ABNKC19070
Occurrence Number: 2498	Occurrence Last Updated: 2013-09-09

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2006-06-20	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-06-20	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 0.4 MILES NNE OF N 2ND ST AT WALNUT AVE IN PATTERSON, ADJACENT TO WALNUT GROVE ELEMENTARY SCHOOL.

Detailed Location:
MAPPED TO COORDINATES PROVIDED ON FIELD SURVEY FORM.

Ecological:
NEST WAS IN A WANUT TREE AT THE EDGE OF AN ORCHARD, SURROUNDED BY ORCHARDS AND CROPS INCLUDING ALFALFA. AERIAL PHOTOS INDICATE THE NEST TREE AND ORCHARD WERE CUT DOWN AROUND THE TIME THE ELEMENTARY SCHOOL WAS BUILT, BETWEEN 2006 & 2009.

Threats:
NEST TREE REMOVAL, DEVELOPMENT.

General:
NEST BUILDING OBSERVED ON 17 APR 2006; MALE BROUGHT FOOD TO FEMALE ON NEST ON 18 MAY; ADULT AND 2 NESTLINGS OBSERVED ON 20 JUN.

PLSS: T05S, R08E, Sec. 19 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4150165 E665231	Latitude/Longitude: 37.48363 / -121.13114	Elevation (feet): 85

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:
SEA06F0002 SEAY, J. (H.T. HARVEY AND ASSOCIATES) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2006-04-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11768	EO Index: 91377	
Key Quad: Patterson (3712142)	Element Code: ABNKC19070	
Occurrence Number: 2524	Occurrence Last Updated: 2013-09-13	

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1936-04-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1936-04-26	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
PUERTO CANYON (AT MOUTH).

Detailed Location:
SPECIMEN LOCALITY VAGUE, ONLY "PUERTO CANYON, STANISLAUS CO.," BUT ATTRIBUTED HERE BASED ON NESTING AND FORAGING HABITAT PREFERENCES CHARACTERISTIC TO THE SPECIES.

Ecological:
NEST 45' UP IN LARGE COTTONWOOD, COMPOSED OF SMALL BRANCHES AND COARSE TWIGS AND LINED WITH FINE TWIGS AND COTTONWOOD LEAVES.

Threats:
General:
3 EGGS COLLECTED ON 26 APR 1936.

PLSS: T05S, R07E, Sec. 20 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4150377 E657644	Latitude/Longitude: 37.48687 / -121.21688	Elevation (feet): 300

County Summary: Stanislaus	Quad Summary: Patterson (3712142), Westley (3712152)
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Sources:
SAM36S0001 SAMPSON, W. - WFVZ EGG-NEST SPECIMEN #17438, COLLECTED FROM PUERTO CANYON. 1936-04-26



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



Map Index Number: 24870	EO Index: 6505
Key Quad: Patterson (3712142)	Element Code: ABNKD06090
Occurrence Number: 446	Occurrence Last Updated: 2008-07-25

Scientific Name: <i>Falco mexicanus</i>	Common Name: prairie falcon
Listing Status: Federal: None * SENSITIVE * State: None	Rare Plant Rank:
CNDDDB Element Ranks: Global: G5 State: S4	Other Lists: CDFW_WL-Watch List IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat: INHABITS DRY, OPEN TERRAIN, EITHER LEVEL OR HILLY.	Micro Habitat: BREEDING SITES LOCATED ON CLIFFS. FORAGES FAR AFIELD, EVEN TO MARSHLANDS AND OCEAN SHORES.
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Last Date Observed: 1993-04-20	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-04-20	Occurrence Rank: Excellent
Owner/Manager:	Trend: Unknown
Presence: Presumed Extant	

Location:
SENSITIVE LOCATION INFORMATION SUPPRESSED.

Detailed Location:
PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological:
NESTING HABITAT CONSISTS OF A SANDSTONE CLIFF COMPLEX WITH NUMEROUS POTHOLES AND LEDGES.

Threats:
THREATS INCLUDE "SCOOPING" YOUNG BIRDS FROM THE NEST.

General:

PLSS:	Accuracy: 3/5 mile	Area (acres): 0
UTM:	Latitude/Longitude:	Elevation (feet): 1,000

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:
ELY93F0003 ELY, E. - FIELD SURVEY FORM FOR FALCO MEXICANUS (NEST SITE) 1993-04-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 13834	EO Index: 25477	
Key Quad: Westley (3712152)	Element Code: ABNSB10010	
Occurrence Number: 31	Occurrence Last Updated: 1989-08-10	

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 1983-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1983-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
1.1 MI W OF TUOLUMNE CITY, E OF JCT OF TUOLUMNE AND SAN JOAQUIN RIVERS.

Detailed Location:
Ecological:
BURROW CONSISTS OF AN EXPOSED AGGREGATE SLAB OF CULVERT.

Threats:
General:
ONE INDIVIDUAL OBSERVED DURING JANUARY AND FEBRUARY.

PLSS: T04S, R07E, Sec. 12 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4163099 E662971	Latitude/Longitude: 37.60055 / -121.15383	Elevation (feet): 2,850

County Summary: Stanislaus	Quad Summary: Westley (3712152)
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Sources:

BLO83U0001	BLOERMAN, F. - FIELD SURVEY FORM & MAP FOR ATHENE CUNICULARIA, 1.1 MI. WEST OF TUOLUMNE CITY. 1983-08-24	
JOH88U0001	JOHNSON, B. - JOHNSON'S PERSONAL DATA FOR BURROWING OWL. 1988-10-XX	



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 22887	EO Index: 19492	
Key Quad: Patterson (3712142)	Element Code: ABNSB10010	
Occurrence Number: 144	Occurrence Last Updated: 1993-03-24	

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 1991-10-17	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-10-17	Occurrence Rank: Fair
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
DEL PUERTO CANYON ROAD, 0.75 MILE WEST OF I-5, 4 MILES WEST OF PATTERSON.

Detailed Location:
Ecological:
HABITAT CONSISTS OF GRASSLAND WITH ROLLING HILLS (RANGELAND).

Threats:
General:
ONE INDIVIDUAL OBSERVED STANDING AT BURROW ENTRANCE.

PLSS: T05S, R07E, Sec. 28 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4149369 E658172	Latitude/Longitude: 37.47769 / -121.21112	Elevation (feet): 300

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:
ELY91F0006 ELY, E. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 1991-10-17



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



Map Index Number: 51393	EO Index: 51393
Key Quad: Patterson (3712142)	Element Code: ABNSB10010
Occurrence Number: 588	Occurrence Last Updated: 2003-05-27

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	CDFW_SSC-Species of Special Concern
Global: G4	IUCN_LC-Least Concern
State: S3	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2003-04-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-04-28	Occurrence Rank: None
Owner/Manager: PVT	Trend: Unknown
Presence: Possibly Extirpated	

Location:
JUST EAST OF SALADO CREEK, 1 MILE WEST OF DOWNTOWN PATTERSON.

Detailed Location:

Ecological:

HABITAT CONSISTS OF A GRADED LOT WITH RUDERAL VEGETATION, INCLUDING HORDEUM MURINUM, VULPIA MYUROS, ETC; LOTS ARE "INFESTED" WITH GROUND SQUIRRELS.

Threats:

THREATENED BY DEVELOPMENT (SITE FENCED OFF TO ALLOW NESTING TO CONTINUE, BUT WILL BE BUILT OUT AS SOON AS YOUNG FLEDGE).

General:

MALE OBSERVED DELIVERING FOOD TO FEMALE AT BURROW ON 28 APR 2003.

PLSS: T05S, R07E, Sec. 25 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4148371 E663707	Latitude/Longitude: 37.46774 / -121.14878	Elevation (feet): 115

County Summary:

Stanislaus

Quad Summary:

Patterson (3712142)

Sources:
HEN03F0001 HENKE, J. (MOORE BIOLOGICAL CONSULTANTS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2003-04-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34865	EO Index: 18703	
Key Quad: Patterson (3712142)	Element Code: ABPAT02011	
Occurrence Number: 7	Occurrence Last Updated: 1996-07-30	

Scientific Name: <i>Eremophila alpestris actia</i>	Common Name: California horned lark
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_WL-Watch List IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5T3Q	
State: S3	

General Habitat: COASTAL REGIONS, CHIEFLY FROM SONOMA CO. TO SAN DIEGO CO. ALSO MAIN PART OF SAN JOAQUIN VALLEY & EAST TO FOOTHILLS.	Micro Habitat: SHORT-GRASS PRAIRIE, "BALD" HILLS, MOUNTAIN MEADOWS, OPEN COASTAL PLAINS, FALLOW GRAIN FIELDS, ALKALI FLATS.
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Last Date Observed: 1993-04-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-04-13	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH OF PATTERSON; BETWEEN CALIFORNIA AQUEDUCT AND HWY 5; 1.1 KM SSE OF HWY 5 X FINK ROAD.

Detailed Location:
MILEPOST 356.4 OF EXISTING NATURAL GAS PIPELINE.

Ecological:
NON-NATIVE GRASSLAND.

Threats:

General:
1 ADULT OBSERVED APPROX. 100 FEET WEST OF PIPELINE.

PLSS: T06S, R08E, Sec. 30 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4139707 E665439	Latitude/Longitude: 37.38938 / -121.13114	Elevation (feet): 250

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:
VAN93F0005 VANHERWEG, B. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR EREMOPHILA ALPESTRIS ACTIA 1993-04-13



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



Map Index Number:	66732	EO Index:	66880
Key Quad:	Patterson (3712142)	Element Code:	ABPBR01030
Occurrence Number:	15	Occurrence Last Updated:	2006-10-16

Scientific Name:	<i>Lanius ludovicianus</i>	Common Name:	loggerhead shrike
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G4 State: S4	Other Lists:	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

General Habitat:	Micro Habitat:
BROKEN WOODLANDS, SAVANNAH, PINYON-JUNIPER, JOSHUA TREE, & RIPARIAN WOODLANDS, DESERT OASES, SCRUB & WASHES.	PREFERS OPEN COUNTRY FOR HUNTING, WITH PERCHES FOR SCANNING, AND FAIRLY DENSE SHRUBS AND BRUSH FOR NESTING.

Last Date Observed:	2002-05-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-05-01	Occurrence Rank:	Excellent
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ABOUT 2.3 MI WEST OF PATTERSON, WESTERN SIDE OF DELTA MENDOTA CANAL.

Detailed Location:
 MAPPED ACCORDING TO UTM COORDINATES GIVEN. NEST IN TUMBLEWEEDS PILED UP AGAINST FENCE.

Ecological:
 RUDERAL HABITAT TO WEST, AGRICULTURE EAST OF CANAL.

Threats:

General:
 NEST SITE. 2 ADULTS AND 5 EGGS OBSERVED ON 1 MAY 2002.

PLSS:	T05S, R07E, Sec. 26 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4148484 E661481	Latitude/Longitude:	37.46914 / -121.17391	Elevation (feet):	180

County Summary:	Quad Summary:
Stanislaus	Patterson (3712142)

Sources:
 BOL02F0001 BOLEN, G. (H.T. HARVEY AND ASSOCIATES) - FIELD SURVEY FORM FOR LANIUS LUDOVICIANUS 2002-05-01



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



Map Index Number:	78819	EO Index:	79763
Key Quad:	Westley (3712152)	Element Code:	ABPBW01114
Occurrence Number:	318	Occurrence Last Updated:	2011-05-13

Scientific Name:	<i>Vireo bellii pusillus</i>	Common Name:	least Bell's vireo
Listing Status:	Federal: Endangered State: Endangered	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5T2 State: S2	Other Lists:	IUCN_NT-Near Threatened NABCI_YWL-Yellow Watch List

General Habitat:	Micro Habitat:
SUMMER RESIDENT OF SOUTHERN CALIFORNIA IN LOW RIPARIAN IN VICINITY OF WATER OR IN DRY RIVER BOTTOMS; BELOW 2000 FT.	NESTS PLACED ALONG MARGINS OF BUSHES OR ON TWIGS PROJECTING INTO PATHWAYS, USUALLY WILLOW, BACCHARIS, MESQUITE.

Last Date Observed:	2007-06-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2009-XX-XX	Occurrence Rank:	Poor
Owner/Manager:	USFWS-SAN JOAQUIN RIVER NWR	Trend:	Unknown
Presence:	Presumed Extant		

Location:
GENERAL AREA CENTERED 2.5 MI E OF OAKLEA RD AT S RIVER RD, 2.8 MI N OF GRAYSON, ON THE W SIDE OF SAN JOAQUIN RIVER.

Detailed Location:
2005 AND 2006 NESTS FOUND IN T04S R07E SEC 9. 2006 NEST IN HAGEMANN'S FIELD 6 PLOT. 2005 AND 2007 NEST IN HAGEMANN'S FIELD 9 PLOT. MAPPED TO HAGEMANN'S FIELD 6 AND 9 PLOTS.

Ecological:
STARTING IN 2002 PREVIOUSLY FARMED LAND REVEGETATED WITH NATIVE RIPARIAN PLANTS INCLUDING COTTONWOOD, WILLOW, WILDROSE, COYOTE BRUSH, GUMPLANT, MUGWORT & CREEPING WILD RYE. FIRST DOCUMENTED BREEDING IN THE CENTRAL VALLEY IN OVER 50 YEARS.

Threats:
POSSIBLY THREATENED BY INSUFFICIENT POPULATION SIZE.

General:
2005: PAIR FLEDGED 2 BROODS IN 3-YR-OLD RESTORED HABITAT; MALE BANDED. 2006: PAIR THAT INCLUDED BANDED MALE FLEDGED 3 (BANDED) IN 3-YR OLD PLANTING. 2007: UNBANDED FEMALE BUILT NEST & LAID 4 EGGS, UNSUCCESSFUL. NONE OBSERVED 2008 OR 2009.

PLSS: T04S, R07E, Sec. 10 (M)	Accuracy: specific area	Area (acres): 208
UTM: Zone-10 N4163662 E660281	Latitude/Longitude: 37.60610 / -121.18416	Elevation (feet): 32

County Summary:	Quad Summary:
Stanislaus	Westley (3712152)

Sources:

FOR10U0001	FORREST, K. (U.S. FISH AND WILDLIFE SERVICE) - EMAIL REGARDING NESTING LEAST BELL'S VIREO AND THE SAN JOAQUIN NWR 2010-05-05
HOW07F0007	HOWELL, C. (PRBO CONSERVATION SCIENCE) - FIELD SURVEY FORM FOR VIREO BELLII PUSILLUS 2007-05-11
HOW08R0001	HOWELL, C. & M. DETTLING (PRBO CONSERVATION SCIENCE) - LEAST BELL'S VIREO MONITORING, NEST PREDATION THREAT ASSESSMENT, AND COWBIRD PARASITISM THREAT ASSESSMENT AT THE SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE 2008-01-XX
HOW10A0001	HOWELL, C. ET AL. (PRBO CONSERVATION SCIENCE) - LEAST BELL'S VIREO BREEDING RECORDS IN THE CENTRAL VALLEY FOLLOWING DECADES OF EXTIRPATION. WESTERN NORTH AMERICAN NATURALIST 70(1):105-113. 2010-XX-XX



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



Map Index Number: 59274	EO Index: 92604
Key Quad: Copper Mtn. (3712143)	Element Code: ABPBW01114
Occurrence Number: 509	Occurrence Last Updated: 2014-02-11

Scientific Name: <i>Vireo bellii pusillus</i>	Common Name: least Bell's vireo
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Endangered	Other Lists: IUCN_NT-Near Threatened NABCI_YWL-Yellow Watch List
CNDDB Element Ranks:	
Global: G5T2	
State: S2	

General Habitat: SUMMER RESIDENT OF SOUTHERN CALIFORNIA IN LOW RIPARIAN IN VICINITY OF WATER OR IN DRY RIVER BOTTOMS; BELOW 2000 FT.	Micro Habitat: NESTS PLACED ALONG MARGINS OF BUSHES OR ON TWIGS PROJECTING INTO PATHWAYS, USUALLY WILLOW, BACCHARIS, MESQUITE.
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Last Date Observed: 1928-05-06	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1928-05-06	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
DEL PUERTO CANYON, WEST OF I-5, EAST OF RED MOUNTAIN.

Detailed Location:
VERBATIM COLLECTION LOCATION WAS "PUERTO CANYON, STANISLAUS CO." WESTERN FOUNDATION OF VERTEBRATE ZOOLOGY PLACES LOCATION AT "DEL PUERTO CANYON" IN STANISLAUS COUNTY. EXACT NEST LOCATIONS WERE UNKNOWN AND THEREFORE ENTIRE CANYON WAS MAPPED.

Ecological:
BOTH NEST WERE CONSTRUCTED IN WILLOW TREES.

Threats:
General:
2 NEST/EGG COLLECTIONS CONSISTING OF 4 EGGS EACH COLLECTED ON 1 MAY 1927 AND 6 MAY 1928 BY W. SAMPSON (WFVZ #S 18979 & 18978 RESPECTIVELY); INCUBATION STAGES REPORTED AS "JUST STARTED" IN 1927 AND "FRESH" IN 1928.

PLSS: T06S, R06E, Sec. 04 (M)	Accuracy: nonspecific area	Area (acres): 1,307
UTM: Zone-10 N4144832 E648630	Latitude/Longitude: 37.43840 / -121.31991	Elevation (feet): 650

County Summary: Stanislaus	Quad Summary: Patterson (3712142), Copper Mtn. (3712143), Mt. Boardman (3712144)
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Sources:
SAM27S0001 SAMPSON, W. (WESTERN FOUNDATION OF VERTEBRATE ZOOLOGY) - WFVZ EGG COLLECTION #18979 1927-05-01
SAM28S0001 SAMPSON, W. (WESTERN FOUNDATION OF VERTEBRATE ZOOLOGY) - WFVZ EGG COLLECTION #18978 1928-05-06



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



Map Index Number: 89742

EO Index: 90743

Key Quad: Westley (3712152)

Element Code: ABPBXA3010

Occurrence Number: 1

Occurrence Last Updated: 2013-07-24

Scientific Name: *Melospiza melodia*

Common Name: song sparrow ("Modesto" population)

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: CDFW_SSC-Species of Special Concern

CNDDDB Element Ranks: **Global:** G5

State: S3?

General Habitat:

Micro Habitat:

Last Date Observed: 1928-03-24

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1928-03-24

Occurrence Rank: Unknown

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

DOS RIOS RANCH, AREA SE OF SAN JOAQUIN RIVER AT TUOLUMNE RIVER, W OF SHILOH BRIDGE.

Detailed Location:

MOST SPECIMENS LOCALITIES STATED, "MODESTO." GRI11A0001 & AUD05U0001 DESCRIBED MAILLIARDI COLLECTING SPECIMENS AT RANCHO DOS RIOS (DOS RIOS RANCH), ABOUT 9 MI WSW OF MODESTO. MAPPED TO GENERAL AREA OF DOS RIOS RANCH.

Ecological:

ACQUIRED & MANAGED BY RIVER PARTNERS & TUOLUMNE RIVER TRUST. GRINNELL (1911 & 1923) DESCRIBED M. M. MAILLIARDI DIFFERENT FROM SSP. HEERMANNI, BUT PATTEN (2009) STATED MAILLIARDI SPECIMENS WERE "INDISTINGUISHABLE FROM...HEERMANNII."

Threats:

General:

MAILLIARDI COLLECTED 17 SPECIMENS IN 1909, HOLOTYPE (MVZ #16687) & 9 OTHER SPECIMENS IN 1910, 4 SPECIMENS & 5 EGG SETS IN 1912, 6 SPECIMENS IN 1913, 5 IN 1914, 20 IN 1915, & 4 IN 1917. 4 SPECIMENS COLLECTED IN 1928 (L.B. BISHOP COLLECTION).

PLSS: T04S, R07E, Sec. 11 (M)

Accuracy: 1 mile

Area (acres): 0

UTM: Zone-10 N4163039 E662498

Latitude/Longitude: 37.60010 / -121.15919

Elevation (feet): 30

County Summary:

Quad Summary:

Stanislaus

Westley (3712152)



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



Sources:

AUD05U0001	STANISLAUS AUDUBON SOCIETY - WEBPAGE WITH A BRIEF BIOGRAPHY OF JOSEPH MAILLIARD (1857-1945). 2005-08-03
BIS28S0002	BISHOP, L. (THE FIELD MUSEUM OF NATURAL HISTORY) - FMNH SPECIMEN 155333: ZONOTRICHIA MELODIA MAILLIARDI FROM MODESTO, STANISLAUS CO., CALIFORNIA. 1928-03-23
BIS28S0003	BISHOP, L. (THE FIELD MUSEUM OF NATURAL HISTORY) - FMNH SPECIMEN 155334: ZONOTRICHIA MELODIA MAILLIARDI FROM MODESTO, STANISLAUS CO., CALIFORNIA. 1928-03-24
BIS28S0004	BISHOP, L. (THE FIELD MUSEUM OF NATURAL HISTORY) - FMNH SPECIMEN 155335: ZONOTRICHIA MELODIA MAILLIARDI FROM MODESTO, STANISLAUS CO., CALIFORNIA. 1928-03-23
BIS28S0005	BISHOP, L. (THE FIELD MUSEUM OF NATURAL HISTORY) - FMNH SPECIMEN 155336: ZONOTRICHIA MELODIA MAILLIARDI FROM MODESTO, STANISLAUS CO., CALIFORNIA. 1928-03-24
GRI11A0001	GRINNELL, J. (MUSEUM OF VERTEBRATE ZOOLOGY) - THE MODESTO SONG SPARROW. UNIV. OF CALIF. PUBLICATIONS IN ZOOLOGY 7(5):197-199. 1911-XX-XX
GRI11A0002	GRINNELL, J. (MUSEUM OF VERTEBRATE ZOOLOGY) - FIELD NOTES FROM THE SAN JOAQUIN VALLEY. CONDOR 13(3):109-111. 1911-XX-XX
GRI23A0001	GRINNELL, J. (MUSEUM OF VERTEBRATE ZOOLOGY) - NOTES ON SOME BIRDS OBSERVED IN THE VICINITY OF COLUSA, CALIFORNIA. CONDOR 25(5):172-176. 1923-05-12
MAI09S0001	MAILLIARD, J. & J. MAILLIARD (MUSEUM OF VERTEBRATE ZOOLOGY) - MVZ BIRDS #16688: MELOSPIZA MELODIA MAILLIARDI FROM RANCHO DOS RIOS, NEAR MODESTO, STANISLAUS CO., CALIFORNIA 1909-04-11
MAI10S0001	MAILLIARD, J. & J. MAILLIARD (MUSEUM OF VERTEBRATE ZOOLOGY) - MVZ BIRDS #16687: MELOSPIZA MELODIA MAILLIARDI (HOLOTYPE) FROM MODESTO, STANISLAUS CO., CALIFORNIA 1910-04-06
MAI12S0007	MAILLIARD, J. & J. MAILLIARD (CALIFORNIA ACADEMY OF SCIENCES) - CAS EGG #8318: 4 EGGS & 1 NEST (MELOSPIZA MELODIA) FROM NEAR MODESTO, STANISLAUS CO., CALIFORNIA 1912-05-16
MAI12S0008	MAILLIARD, J. & J. MAILLIARD (CALIFORNIA ACADEMY OF SCIENCES) - CAS EGG #9437: 1 EGG & 1 NEST (MELOSPIZA MELODIA) FROM NEAR MODESTO, STANISLAUS CO., CALIFORNIA 1912-04-23
MAI12S0009	MAILLIARD, J. & J. MAILLIARD (CALIFORNIA ACADEMY OF SCIENCES) - CAS EGG #9443: 1 EGG & 1 NEST (MELOSPIZA MELODIA) FROM MODESTO, STANISLAUS CO., CALIFORNIA 1912-04-23
MAI12S0010	MAILLIARD, J. (CALIFORNIA ACADEMY OF SCIENCES) - CAS EGG #10206: 3 EGGS (MELOSPIZA MELODIA MAILLIARDI) FROM MODESTO, STANISLAUS CO., CALIFORNIA 1912-04-23
MAI12S0011	MAILLIARD, J. (CALIFORNIA ACADEMY OF SCIENCES) - CAS EGG #10207: 3 EGGS (MELOSPIZA MELODIA MAILLIARDI) FROM MODESTO, STANISLAUS CO., CALIFORNIA 1912-04-23
MAI17S0001	MAILLIARD, J. & J. MAILLIARD (CALIFORNIA ACADEMY OF SCIENCES) - 66 M. M. MAILLIARDI SPECIMENS (51799, 51822-51886) COLLECTED FROM "MODESTO" (RANCHO DOS RIOS) FROM 19 MAR 1909 - 23 JAN 1917. 1917-01-23
PAT09A0001	PATTEN, M. & C. PRUETT - THE SONG SPARROW, MELOSPIZA MELODIA, AS A RING SPECIES: PATTERNS OF GEOGRAPHIC VARIATION, A REVISION OF SUBSPECIES, AND IMPLICATIONS FOR SPECIATION. SYST. AND BIODIV. 7(1)33-62. 2009-02-22



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 12128	EO Index: 24750
Key Quad: Crows Landing (3712141)	Element Code: ABPBXB0020
Occurrence Number: 70	Occurrence Last Updated: 2015-07-29

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1971-05-05	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-19	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
VICINITY OF BRADBURY RD & CROWS LANDING RD INTXN, 1.2 MI NNE CARPENTER RD & CROWS LANDING RD INTXN, E OF PATTERSON.

Detailed Location:
MAPPED GENERALLY TO PROVIDED LOCATION DESCRIPTION OF "NEAR JUNCTION OF CROWS LANDING AND BRADBURY ROADS." EXACT LOCATION UNKNOWN. COLONY DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME "CROWS LANDING ROAD AT BRADBURY ROAD."

Ecological:
CATTAILS IN 3-4 FEET OF WATER; ALL NEW GROWTH (1971). TULE S HAS BEEN REMOVED BY 1972. POOR HABITAT REPORTED IN 2011. HAY CROP WITH SOME RWBB PRESENT IN 2014. A COLONY ADDITIONALLY REPORTED IN THE VICINITY BY DEHAVEN, NO DETAILS PROVIDED.

Threats:
General:
A COLONY COMPOSED OF ABOUT 450 BIRDS AND 300 NESTS OBSERVED ON 5 MAY 1971; JUST STARTING TO LAY 1-3 EGGS, SOME NESTS STILL EMPTY. NO COLONY OBSERVED ON 26 MAY 1972. 0 BIRDS OBSERVED ON 17 APR 2011 AND 19 APR 2014.

PLSS: T05S, R09E, Sec. 32 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4146626 E676618	Latitude/Longitude: 37.44964 / -121.00327	Elevation (feet): 60

County Summary: Stanislaus	Quad Summary: Hatch (3712048), Crows Landing (3712141)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
HOS86U0002	HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 12023	EO Index: 24748
Key Quad: Brush Lake (3712151)	Element Code: ABPBXB0020
Occurrence Number: 71	Occurrence Last Updated: 1989-08-10

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1981-05-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1981-05-25	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUNCTION OF KEYES RD AND MUNCY RD, APPROX 5 MI SW OF MODESTO.

Detailed Location:
COLONY OF APPROX 1355 OBS BY HOSEA NESTING IN CATTAIL/BULRUSH; INCUBATION STAGE OF NESTING.

Ecological:

Threats:

General:

PLSS: T04S, R08E, Sec. 27 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4158012 E670007	Latitude/Longitude: 37.55345 / -121.07534	Elevation (feet): 50

County Summary: Stanislaus	Quad Summary: Brush Lake (3712151)
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Sources:
HOS86U0002 HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 12055	EO Index: 24749
Key Quad: Brush Lake (3712151)	Element Code: ABPBXB0020
Occurrence Number: 72	Occurrence Last Updated: 2015-07-27

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1981-05-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-20	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
N SIDE OF MAIN AVE, ABOUT 1.1 MI NE OF INTERSECTION W/ JENNINGS RD, 1.5 MI NW OF INTXN W/ CARPENTER RD, NE OF PATTERSON.

Detailed Location:
COLONY LOCATIONS DESCRIBED AS "JUNCTION OF FULKERTH AND VIVIAN ROADS" & "ONE & ONE-HALF MILES NORTHWEST OF INTERSECTION OF CAPERNTER & WEST MAIN AVE," & "ONE-HALF MILE WEST OF 5/5/71 COLONY." ALL LOCATION LIKELY REFER TO THE SAME COLONY.

Ecological:
CATTAIL/BULRUSH MARSH SURROUNDED BY NONIRRIGATED PASTURES AND ALFALFA.SUITABLE NESTING HABITAT (2014). BIRDS OBS ON 20 APR MAY HAD BEGUN SETTLING 2014. COLONY DATA STORED IN UC DAVIS TRBL PORTAL; SITE "FULKERTH ROAD AT VIVIAN ROAD (#2)."

Threats:
IN 1981, ONE-THIRD OF THE MARSH WAS BULLDOZED, DISTURBING NESTING BIRDS.

General:
ABOUT 8,500 IND. & 5,500 NESTS OBS ON 5 MAY 1971. ABOUT 5,000 IND. & 3,000 NESTS OBS ON 17 JUN ABOUT 1,000 IND. & 650 NESTS OBS ON 26 MAY 1972. ABOUT 11,263 IND. OBS 25 MAY 1981. 0 OBS ON 17 APR 2011. 0 OBS ON 19 APR 2014; 200 ON 20 APR.

PLSS: T05S, R08E, Sec. 14 (M)	Accuracy: 3/5 mile	Area (acres): 0
UTM: Zone-10 N4152857 E672195	Latitude/Longitude: 37.50660 / -121.05179	Elevation (feet): 40

County Summary: Stanislaus	Quad Summary: Crows Landing (3712141), Brush Lake (3712151)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
HOS82R0001	HOSEA, B. - AN INTERIM STATUS REPORT ON THE PRESENT BREEDING POPULATION NUMBERS OF THE TRICOLORED BLACKBIRD IN NORTHERN CALIFORNIA. 1982-XX-XX
HOS86U0002	HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11979	EO Index: 24746
Key Quad: Brush Lake (3712151)	Element Code: ABPBXB0020
Occurrence Number: 73	Occurrence Last Updated: 1991-07-25

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1972-05-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1972-05-26	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUNCT OF LAIRD RD AND KEYES RD, APPROX 6 MI SW OF MODESTO.

Detailed Location:
COLONY OF 1000 TO 1200 OBS BY DE HAVEN NESTING IN BULRUSH. COLONY SIZE APPROX 0.5 ACRE.

Ecological:

Threats:

General:

PLSS: T04S, R08E, Sec. 32 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4157696 E667426	Latitude/Longitude: 37.55108 / -121.10462	Elevation (feet): 50

County Summary: Stanislaus	Quad Summary: Brush Lake (3712151)
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Sources:

BEE91R0001 BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX

HOS86U0002 HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11926
Key Quad: Ripon (3712162)
Occurrence Number: 76

EO Index: 11814
Element Code: ABPBXB0020
Occurrence Last Updated: 2015-07-23

Scientific Name: *Agelaius tricolor*

Common Name: tricolored blackbird

Listing Status: **Federal:** None
 State: None
CNDDB Element Ranks: **Global:** G2G3
 State: S1S2

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_EN-Endangered
 NABCI_RWL-Red Watch List
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.

Micro Habitat:

REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed: 1971-05-05
Last Survey Date: 2014-04-20
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:

ALONG MAZE BLVD, APPROX 7 MI W OF MODESTO.

Detailed Location:

1971 COLONY LOCATION DESCRIBED AS "ALONG SOUTH SIDE OF MAIZE BOULEVARD, 7 MILES WEST OF MODESTO." NO CLEAR WHERE 7 MILES IS MEASURED FROM, EXACT LOCATION UNKNOWN. MAPPED BY CNDDB AS BEST GUESS, MEASURED 7 MI FROM HWY 99 IN MODESTO.

Ecological:

SALT MARSH POND WITH CATTAIL AND BULRUSH BY NONIRRIGATED PASTURE (1971). SIZE OF COLONY ABOUT 0.75 ACRE. COLONY DATA STORED IN UC DAVIS TRBL PORTAL; SITE "MAIZE BOULEVARD."

Threats:

General:

APPROXIMATELY 1,500 INDIVIDUALS AND 900 NESTS OBSERVED ON 5 MAY 1971; BIRDS OB FEEDING YOUNG THAT WERE 6 DAYS OLD, 60 PERCENT OF NESTS WERE EMPTY OR W/ YOUNG, 40 PERC. CONTAINED 2-3 EGGS. DEAD YOUNG FOUND ON GROUND. 0 OBS ON 20 APR 2014.

PLSS: T03S, R08E, Sec. 31 (M)

Accuracy: 1 mile

Area (acres): 0

UTM: Zone-10 N4167285 E664957

Latitude/Longitude: 37.63790 / -121.13039

Elevation (feet): 45

County Summary:

Stanislaus

Quad Summary:

Brush Lake (3712151), Westley (3712152), Salida (3712161), Ripon (3712162)

Sources:

- BEE91R0001 BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
- HOS86U0002 HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX
- TRI14D0001 TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11848	EO Index: 24743	
Key Quad: Patterson (3712142)	Element Code: ABPBXB0020	
Occurrence Number: 79	Occurrence Last Updated: 2015-07-28	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1972-05-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1972-05-25	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 2 MILES W OF PATTERSON, E OF I-5, ABOUT 2.5 MILES NNW OF MARSHALL RD & WARD AVE INTERSECTION.

Detailed Location:
MAPPED GENERALLY TO PROVIDED LOCATION DESCRIPTION OF "APPROXIMATELY 2 MILES WEST OF PATTERSON." LOCATION ADDITIONALLY DESCRIBED AS ONE MILE NORTHEAST OF 4/28/1971 COLONY, REFERRING TO OCCURRENCE #80.

Ecological:
CATTAIL MARSH; WATER 1-1.5 FEET DEEP. SIZE OF COLONY APPROXIMATELY 0.1 ACRE.

Threats:
General:
A COLONY COMPOSED OF 1,200-1,500 BIRDS AND 800-1,000 NESTS OBSERVED ON 25 MAY 1972 (DEHAVEN); YOUNG JUST BEGINNING TO FLEDGE.

PLSS: T05S, R07E, Sec. 26 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4148406 E662307	Latitude/Longitude: 37.46830 / -121.16459	Elevation (feet): 200

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
HOS86U0002	HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11898	EO Index: 24741	
Key Quad: Patterson (3712142)	Element Code: ABPBXB0020	
Occurrence Number: 80	Occurrence Last Updated: 2015-07-28	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	
CNDDB Element Ranks:	Other Lists:
Global: G2G3	BLM_S-Sensitive
State: S1S2	CDFW_SSC-Species of Special Concern
	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1971-05-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-11	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
ABOUT 2 MI SSE OF SPERRY AVE & I-5 INTERSECTION, 3.2 MI E OF HWY 33 & MARSHALL RD INTERSECTION, SE OF PATTERSON.

Detailed Location:
1970'S LOCATION DESCRIBED AS "ALONG INTERSTATE 5 ABOUT 2 MILES SOUTH OF PATTERSON EXIT." PATTERSON EXIT PRESUMED TO BE SPERRY AVE, MEASURED 2 ROAD MI S ALONG I-5. COLONY DATA STORED IN UC DAVIS TRBL PORTAL; SITE "INTERSTATE 5 AT PATTERSON."

Ecological:
HABITAT CONSISTED OF A TULE-LINED DRAINAGE DITCH ALONG FREEWAY IN NONIRRIGATED GRASSLAND (1971). COLONY SIZE ~1 ACRE. WATER 1-2 FEET DEEP. SITE DID NOT APPEAR SUITABLE FOR NESTING IN 2014.

Threats:
CATTAILS HAD BEEN PLOWED UNDER AND DRAINAGE DITCHES DUG (1972).

General:
A COLONY OF ~1,250 BIRDS & 500-700 NESTS OBSERVED ON 28 APR 1971, MOST NESTS CONTAINED 4 EGGS. BIRDS ALMOST READY TO FLEDGE BY 9 MAY 1979; 500 NESTLINGS BANDED ON 11 MAY, ~1/3 OF TOTAL. NOT ACTIVE ON 25 MAY 1972. 0 OBS ON 11 APR 2014.

PLSS: T06S, R07E, Sec. 02 (M)	Accuracy: 4/5 mile	Area (acres): 0
UTM: Zone-10 N4145073 E662700	Latitude/Longitude: 37.43820 / -121.16089	Elevation (feet): 200

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
HOS86U0002	HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX
TR114D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 12109	EO Index: 5633	
Key Quad: Crows Landing (3712141)	Element Code: ABPBXB0020	
Occurrence Number: 87	Occurrence Last Updated: 1993-12-13	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	
CNDDDB Element Ranks:	Other Lists:
Global: G2G3	BLM_S-Sensitive
State: S1S2	CDFW_SSC-Species of Special Concern
	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 197X-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 197X-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ONE MI N OF JUNCTION OF CROWS LANDING RD AND CARPENTER RD, APPROX 4.5 MI NE CROWS LANDING.

Detailed Location:
COLONY OBS BY DE HAVEN.

Ecological:

Threats:

General:

PLSS: T06S, R09E, Sec. 06 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4146164 E675178	Latitude/Longitude: 37.44576 / -121.01965	Elevation (feet): 55

County Summary: Stanislaus	Quad Summary: Crows Landing (3712141)
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Sources:
HOS86U0002 HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX



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



Map Index Number: 12095
Key Quad: Hatch (3712048)
Occurrence Number: 88

EO Index: 24737
Element Code: ABPBXB0020
Occurrence Last Updated: 2015-08-14

Scientific Name: *Agelaius tricolor*

Common Name: tricolored blackbird

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2G3
 State: S1S2

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_EN-Endangered
 NABCI_RWL-Red Watch List
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.

Micro Habitat:

REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed: 1974-XX-XX
Last Survey Date: 1974-XX-XX
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
~1.1 MI NNW OF RIVER RD & AZEVEDO RD INTERSECTION, 3.5 MI SSE OF RIVER RD & CROWS LANDING RD INTERSECTION, HILLS FERRY.

Detailed Location:
PROVIDED LOCATION WAS "3.5 MI S CROW'S LANDING AND SOUTH RIVER RDS JUNCTION." MAPPED TO APPROXIMATELY 3.5 ROAD MILES ALONG RIVER RD FROM JUNCTION WITH CROWS LANDING RD.

Ecological:
CATTAILS.

Threats:

General:
A BREEDING COLONY OBSERVED BY DEHAVEN SOMETIME BETWEEN 1969-1974; EXACT DATE UNKNOWN.

PLSS: T06S, R09E, Sec. 33 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4138382 E677553	Latitude/Longitude: 37.37520 / -120.99469	Elevation (feet): 70

County Summary:

Stanislaus

Quad Summary:

Gustine (3712038), Hatch (3712048), Newman (3712131), Crows Landing (3712141)

- Sources:**
- DEHNDU0001 DEHAVEN, R.W. - PARTIAL LIST OF RECENT (1969-1974) TRICOLORED BLACKBIRD BREEDING COLONY LOCATIONS. XXXX-XX-XX
 - HOS86U0002 HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 12102	EO Index: 24736	
Key Quad: Crows Landing (3712141)	Element Code: ABPBXB0020	
Occurrence Number: 89	Occurrence Last Updated: 2015-08-14	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1974-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1974-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 2.5 MI SSE OF CROWS LANDING RD & RIVER RD INTERSECTION, 3.6 MI E OF OF CROWS LANDING RD & HWY 33 INTXN, NE STOMAR.

Detailed Location:
PROVIDED LOCATION WAS "2.5 MI S CROW'S LANDING AND SOUTH RIVER RDS JUNCTION." MAPPED TO APPROXIMATELY 2.5 ROAD MILES ALONG RIVER RD FROM JUNCTION WITH CROWS LANDING RD.

Ecological:
CATTAILS.

Threats:

General:
A BREEDING COLONY OBSERVED BY DEHAVEN SOMETIME BETWEEN 1969-1974; EXACT DATE UNKNOWN.

PLSS: T06S, R09E, Sec. 29 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4139706 E676630	Latitude/Longitude: 37.38730 / -121.00479	Elevation (feet): 70

County Summary: Stanislaus	Quad Summary: Hatch (3712048), Crows Landing (3712141)
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Sources:

DEHNDU0001	DEHAVEN, R.W. - PARTIAL LIST OF RECENT (1969-1974) TRICOLORED BLACKBIRD BREEDING COLONY LOCATIONS. XXXX-XX-XX
HOS86U0002	HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX



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



Map Index Number:	12029	EO Index:	24733
Key Quad:	Crows Landing (3712141)	Element Code:	ABPBXB0020
Occurrence Number:	90	Occurrence Last Updated:	2015-07-27

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

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

Last Date Observed:	1932-05-14	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2014-04-20	Occurrence Rank:	None
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
 ABOUT 2.8 MI SW OF MAIN AVE & CARPENTER RD INTERSECTION, 3 MI E OF LAS PALMAS AVE & HWY 33 INTERSECTION, PATTERSON.

Detailed Location:
 MAPPED TO LOC. DESCRIPTIONS SMALLER COLONY LOCATION DESCRIBED AS "THREE MILES EAST OF PATTERSON," LARGER COLONY DESCRIBED AS "NEAR PATTERSON COLONY." COLONY DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME "EAST PATTERSON (#2)."

Ecological:
 CATTAILS AND TULESS ALONG DITCH. COLONIES PRESUMED EXTIRPATED BY BEEDY (1991). GENERAL AREA 3 MILES E OF PATTERSON SURVEYED IN 2014.

Threats:
General:
 A BREEDING COLONY OF ABOUT 2,500 NESTS OBSERVED ON 14 MAY 1932 (NEFF 1937); A SECOND COLONY COMPOSED OF 10,000 NESTS OBSERVED NEARBY. 0 OBSERVED ON 20 APR 2014.

PLSS:	T05S, R08E, Sec. 27 (M)	Accuracy:	1 mile	Area (acres):	0
UTM:	Zone-10 N4148950 E670633	Latitude/Longitude:	37.47170 / -121.07036	Elevation (feet):	45

County Summary:	Quad Summary:
Stanislaus	Crows Landing (3712141)

Sources:

BEE91R0001	BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
HOS86U0002	HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX
NEF37R0001	NEFF, J.A. - DISTRIBUTION OF THE TRICOLORED RED WING. THE CONDOR 39(2): 61-81. 1937-03-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



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



Map Index Number:	96964	EO Index:	98200
Key Quad:	Westley (3712152)	Element Code:	ABPBXB0020
Occurrence Number:	594	Occurrence Last Updated:	2015-07-23

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

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

Last Date Observed:	2005-06-02	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2005-06-02	Occurrence Rank:	Unknown
Owner/Manager:	USFWS-SAN JOAQUIN RIVER NWR	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ABOUT 1.6 MI E OF PELICAN RD & DAIRY RD INTERSECTION, 1.8 MI SW OF MAZE BLVD/HWY 132 & PARADISE RD INTERSECTION.

Detailed Location:
 COLONY DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAMES "CHRISTMAN LEVEE I & II." MAPPED TO LOCATIONS PROVIDED IN PORTAL. COLONIES LOCATED ON E SIDE OF SAN JOAQUIN RIVER.

Ecological:
 MILK THISTLE AND MUSTARD.

Threats:
General:
 2 COLONIES EACH COMPOSED OF ABOUT 100 BIRDS OBSERVED ON 2 JUN 2005; EACH COLONY NOTED AS SINGING AND CARRYING FOOD IN PORTAL.

PLSS: T04S, R07E, Sec. 03 (M)	Accuracy: nonspecific area	Area (acres): 33
UTM: Zone-10 N4165256 E660415	Latitude/Longitude: 37.62043 / -121.18229	Elevation (feet): 35

County Summary:	Quad Summary:
Stanislaus	Westley (3712152)

Sources:
 TR114D0001 TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



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



Map Index Number: 96969
Key Quad: Ripon (3712162)
Occurrence Number: 595

EO Index: 98205
Element Code: ABPBXB0020
Occurrence Last Updated: 2015-07-24

Scientific Name: *Agelaius tricolor*

Common Name: tricolored blackbird

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2G3
 State: S1S2

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_EN-Endangered
 NABCI_RWL-Red Watch List
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.

Micro Habitat:

REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed: 2005-06-02
Last Survey Date: 2005-06-02
Owner/Manager: USFWS-SAN JOAQUIN RIVER NWR
Presence: Presumed Extant

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

Location:

ABOUT 1.5 MI WSW OF MAZE BLVD/HWY 132 & PARADISE RD INTERSECTION, 1.7 MI ENE OF PELICAN RD & DAIRY RD INTERSECTION.

Detailed Location:

COLONY DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAMES "CHRISTMAN LEVEE III & IV." MAPPED TO LOCATIONS PROVIDED IN PORTAL. COLONIES LOCATED ON E SIDE OF SAN JOAQUIN RIVER.

Ecological:

MILK THISTLE AND MUSTARD.

Threats:

General:

2 COLONIES COMPOSED OF APPROXIMATELY 800 AND 4,000 BIRDS OBSERVED ON 2 JUN 2005; BOTH COLONIES NOTED AS SINGING AND CARRYING FOOD IN PORTAL.

PLSS: T03S, R07E, Sec. 34 (M)

Accuracy: 1/10 mile

Area (acres): 0

UTM: Zone-10 N4165872 E660333

Latitude/Longitude: 37.62600 / -121.18309

Elevation (feet): 40

County Summary:

Stanislaus

Quad Summary:

Westley (3712152), Ripon (3712162)

Sources:

TR114D0001 TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



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



Map Index Number: 96975	EO Index: 98210
Key Quad: Brush Lake (3712151)	Element Code: ABPBXB0020
Occurrence Number: 597	Occurrence Last Updated: 2015-07-24

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

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

Last Date Observed: 2005-04-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-19	Occurrence Rank: Unknown
Owner/Manager: PVT, UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
W SIDE OF JENNINGS RD, ~0.9 MI W OF INTERSECTION W/ MONTE VISTA AVE, 1.8 MI NNW OF INTERSECTION W/ MAIN AVE, PATTERSON.

Detailed Location:
1994 LOCATION DESCRIPTION WAS "0.9 MI W OF JENNINGS RD & MONTE VISTA AVE INTERSECTION, SEWAGE PONDS." COLONY DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME "MODESTO WASTEWATER TREATMENT PLANT." EXACT LOCATION UNKNOWN.

Ecological:
NESTING IN CATTAILS. FORAGING IN SURROUNDING GRASSLANDS. PERMISSION NEEDED TO ENTER FACILITY.

Threats:
General:
APPROXIMATELY 2,500 BIRDS OBSERVED ON 17 APR 1994; NEST BUILDING OBSERVED. ABOUT 400 OBSERVED ON 23 APR 2005; PRESUMED NESTING AND FORAGING. 0 OBSERVED ON 25 APR 2008, 17 APR 2011, AND 19 APR 2014.

PLSS: T05S, R08E, Sec. 10 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4154342 E669441	Latitude/Longitude: 37.52050 / -121.08259	Elevation (feet): 40

County Summary:	Quad Summary:
Stanislaus	Brush Lake (3712151)

Sources:

DFG04U0002	CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 96995	EO Index: 98229
Key Quad: Crows Landing (3712141)	Element Code: ABPBXB0020
Occurrence Number: 598	Occurrence Last Updated: 2015-08-13

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1971-06-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-04-20	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
CROWS LANDING, 3.6 MI EAST OF FINK RD & I-5 INTERSECTION.

Detailed Location:
MAPPED GENERALLY TO PROVIDED LOCATION DESCRIPTION OF 1971 COLONY; DESCRIBED ONLY AS "CROWS LANDING." COLONY DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME "CROWS LANDING."

Ecological:
TULE/BULRUSH MIXTURE (1971).

Threats:

General:
ABOUT 8,500 BIRDS OBSERVED IN JUN 1971 (DEHAVEN); 1,100 FLEDGLINGS BANDED. 0 OBSERVED ON 20 APR 2014 DURING PRESURVEY SCOUTING; GENERAL AREA SURVEYED.

PLSS: T06S, R08E, Sec. 22 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4140281 E670613	Latitude/Longitude: 37.39360 / -121.07259	Elevation (feet): 120

County Summary: Stanislaus	Quad Summary: Crows Landing (3712141)
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Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 96997	EO Index: 98232	
Key Quad: Crows Landing (3712141)	Element Code: ABPBXB0020	
Occurrence Number: 599	Occurrence Last Updated: 2015-08-13	

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	
CNDDB Element Ranks:	Other Lists:
Global: G2G3	BLM_S-Sensitive
State: S1S2	CDFW_SSC-Species of Special Concern
	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1935-05-20	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1935-05-20	Occurrence Rank: None
Owner/Manager: UNKNOWN, PVT	Trend: Unknown
Presence: Possibly Extirpated	

Location:
ABOUT 1.4 MILES ESE OF FINK RD & I-5 INTERSECTION, 2 MILES W OF CROWS LANDING.

Detailed Location:
COLONY LOCATION DESCRIBED ONLY AS "WEST OF CROWS LANDING." MAPPED GENERALLY TO THE AREA WEST OF CROWS LANDING; EXACT LOCATION UNKNOWN.

Ecological:
CATTAILS ALONG CANAL. COLONY PRESUMED EXTIRPATED BY BEEDY (1991).

Threats:
General:
A BREEDING COLONY COMPOSED OF ABOUT 750 NESTS OBSERVED ON 20 MAY 1935 (NEFF 1937).

PLSS: T06S, R08E, Sec. 20 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4140166 E667143	Latitude/Longitude: 37.39320 / -121.11179	Elevation (feet): 190

County Summary: Stanislaus	Quad Summary: Crows Landing (3712141), Patterson (3712142)
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Sources:

BEE91R0001	BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 91459	EO Index: 92517	
Key Quad: La Grange (3712064)	Element Code: AFCHA0209K	
Occurrence Number: 22	Occurrence Last Updated: 2014-03-28	

Scientific Name: <i>Oncorhynchus mykiss irideus</i>	Common Name: steelhead - Central Valley DPS
Listing Status:	Rare Plant Rank:
Federal: Threatened	
State: None	Other Lists: AFS_TH-Threatened
CNDDB Element Ranks:	
Global: G5T2Q	
State: S2	

General Habitat: POPULATIONS IN THE SACRAMENTO AND SAN JOAQUIN RIVERS AND THEIR TRIBUTARIES.

Micro Habitat:

Last Date Observed: 2014-01-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2014-01-19	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location: LOWER TUOLUMNE RIVER, FROM ITS MOUTH IN THE SAN JOAQUIN RIVER TO LA GRANGE DAM (RM52).

Detailed Location: MAPPED TO LA GRANGE DAM (BUILT 1893), UPSTREAM LIMIT TO ANADROMY. RSTS AT SHILOH 1995-98 (RM3.4), GRAYSON SINCE '99 (RM5.2), WATERFORD SINCE 2006 (RM29.8). SNORKEL SURVEYS FROM DAM TO ~RM31.5. SEINES FROM MOUTH TO DAM. VIDEO WEIR AT RM24.5.

Ecological: SPAWNING IN 20 MI BELOW DAM. IN 2008 OTOLITH STUDY, 10 OF 147 TROUT (6.8%) WERE SH PROGENY; 1 WAS A SH. INCREASE IN SUMMER POPS AFTER BASE FLOW AUGMENTATION STARTING 1995. SPIKE IN 2011 #S MAY BE HATCHERY TROUT ESCAPED FROM U/S RESERVOIRS.

Threats: DAM. LOW FLOWS. MINING: GRAVEL DEFICIT, PITS HARBOR PREDATORY BASS. POSSIBLE INTROGRESSION W/OUT-OF-BASIN HATCHERY FISH.

General: 0-51 SEINED, 1983-2012. SNORKEL INDEX: ONLY 1 OBS 1987-94; AVG 420, 2001-2012 (HIGH 1,327 IN 2011). POP ESTS SINCE '08: FROM 109 (MAR '10) TO 56,973 (SEP '11). SOME MIGRATION INDICATED: RST #S FROM 0-11, 2000-12; WEIR #S FROM 0-16, 2009-14.

PLSS: T03S, R14E, Sec. 19 (M)	Accuracy: nonspecific area	Area (acres): 6,353
UTM: Zone-10 N4171814 E723096	Latitude/Longitude: 37.66641 / -120.47058	Elevation (feet):

County Summary: Stanislaus	Quad Summary: Denair (3712057), Ceres (3712058), La Grange (3712064), Cooperstown (3712065), Paulsell (3712066), Waterford (3712067), Riverbank (3712068), Brush Lake (3712151), Westley (3712152)
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- Sources:**
- ANO05D0001 ANONYMOUS - TUOLUMNE RIVER SEINING SURVEYS, 2005 SEINE DATA. 2005-XX-XX
 - ANO06D0001 ANONYMOUS - TUOLUMNE RIVER SEINING SURVEYS, 2006 SEINE DATA. 2006-XX-XX
 - ANO07D0001 ANONYMOUS - TUOLUMNE RIVER SEINING SURVEYS, 2007 SEINE DATA. 2007-XX-XX
 - ANO08D0001 ANONYMOUS - TUOLUMNE RIVER SEINING SURVEYS, 2008 SEINE DATA. 2008-XX-XX
 - ANO10D0001 ANONYMOUS - TUOLUMNE RIVER SEINING SURVEYS, 2010 SEINE DATA. 2010-XX-XX
 - BEC11R0002 BECKER, C. ET AL. (FISHBIO) - FALL/WINTER MIGRATION MONITORING AT THE TUOLUMNE RIVER WEIR: 2010 ANNUAL REPORT. 2011-03-XX
 - CFS04U0001 CRAMER FISH SCIENCES - TUOLUMNE RIVER JUVENILE CHINOOK OUTMIGRATION UPDATES, 2004. 2004-XX-XX
 - CFS05U0001 CRAMER FISH SCIENCES - TUOLUMNE RIVER JUVENILE CHINOOK OUTMIGRATION UPDATES, 2005. 2005-XX-XX
 - CFS06U0001 CRAMER FISH SCIENCES - TUOLUMNE RIVER JUVENILE CHINOOK OUTMIGRATION UPDATES, 2006. 2006-XX-XX
 - CUT10R0001 CUTHBERT, R. ET AL. (FISHBIO) - FALL/WINTER MIGRATION MONITORING AT THE TUOLUMNE RIVER WEIR: 2009/10 ANNUAL REPORT. 2010-03-XX



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CUT12R0001	CUTHBERT, C. ET AL. (FISHBIO) - FALL/WINTER MIGRATION MONITORING AT THE TUOLUMNE RIVER WEIR: 2011 ANNUAL REPORT. 2012-03-XX
FIS07U0002	FISHBIO - TUOLUMNE RIVER JUVENILE CHINOOK OUTMIGRATION UPDATES, FEBRUARY 21 - JULY 17, 2007. 2007-XX-XX
FIS08U0001	FISHBIO - TUOLUMNE RIVER JUVENILE CHINOOK OUTMIGRATION UPDATES, FEBRUARY 21 - JUNE 9, 2008. 2008-XX-XX
FIS12R0001	FISHBIO - 2012 LOWER TUOLUMNE RIVER ANNUAL REPORT: 2012 SEINE REPORT AND SUMMARY UPDATE. 2012-XX-XX
FIS14U0001	FISHBIO - TUOLUMNE WEIR UPDATE 2013: EMAIL AND EXCEL SPREADSHEET. 2014-01-21
FOR08R0001	FORD, T. & S. KIRIHARA - 2008 LOWER TUOLUMNE RIVER ANNUAL REPORT: 2008 SEINE REPORT AND SUMMARY UPDATE. 2008-09-XX
FOR09R0001	FORD, T. & S. KIRIHARA - 2008 LOWER TUOLUMNE RIVER ANNUAL REPORT: 2008 SNORKEL AND SUMMARY UPDATE. 2009-03-XX
FOR09R0002	FORD, T. & S. KIRIHARA - 2009 LOWER TUOLUMNE RIVER ANNUAL REPORT: 2009 SEINE REPORT AND SUMMARY UPDATE. 2009-06-XX
FOR09R0003	FORD, T. & S. KIRIHARA - 2009 LOWER TUOLUMNE RIVER ANNUAL REPORT: 2009 SNORKEL REPORT AND SUMMARY UPDATE. 2009-07-XX
FOR10R0001	FORD, T. & S. KIRIHARA (STILLWATER SCIENCES) - TUOLUMNE RIVER ONCORHYNCHUS MYKISS MONITORING REPORT. 2010-01-XX
FOR10R0002	FORD, T. & S. KIRIHARA - 2010 LOWER TUOLUMNE RIVER ANNUAL REPORT: 2010 SEINE REPORT AND SUMMARY UPDATE. 2010-06-XX
FOR10R0003	FORD, T. & S. KIRIHARA - 2010 LOWER TUOLUMNE RIVER ANNUAL REPORT: 2010 SNORKEL REPORT AND SUMMARY UPDATE. 2010-11-XX
GUI12R0001	GUIGNARD, J. & A. FULLER - TUOLUMNE RIVER O. MYKISS ACOUSTIC TRACKING STUDY 2011 TECHNICAL REPORT. 2012-03-XX
NMF09R0001	NATIONAL MARINE FISHERIES SERVICE (NOAA) - CALIFORNIA CENTRAL VALLEY SALMON & STEELHEAD DRAFT RECOVERY PLAN, APPENDIX A: CENTRAL VALLEY WATERSHED PROFILES. 2009-10-XX
SON10R0001	SONKE, C. ET AL. (FISHBIO) - OUTMIGRANT TRAPPING OF JUVENILE SALMONIDS IN THE LOWER TUOLUMNE RIVER, 2010. 2010-12-XX
SON12R0001	SONKE, C. ET AL. (FISHBIO) - OUTMIGRANT TRAPPING OF JUVENILE SALMON IN THE LOWER TUOLUMNE RIVER, 2011. 2012-03-XX
SON13R0001	SONKE, C. & A. FULLER (FISHBIO) - OUTMIGRANT TRAPPING OF JUVENILE SALMON IN THE LOWER TUOLUMNE RIVER, 2012. 2013-03-XX
STI08R0001	STILLWATER SCIENCES - JULY 2008 POPULATION SIZE ESTIMATE OF ONCORHYNCHUS MYKISS IN THE LOWER TUOLUMNE RIVER. 2008-10-XX
STI09R0001	STILLWATER SCIENCES - MARCH AND JULY 2009 POPULATION SIZE ESTIMATES OF ONCORHYNCHUS MYKISS IN THE LOWER TUOLUMNE RIVER. 2009-11-XX
STI10R0001	STILLWATER SCIENCES - MARCH AND AUGUST 2010 POPULATION SIZE ESTIMATES OF ONCORHYNCHUS MYKISS IN THE LOWER TUOLUMNE RIVER. 2010-11-XX
STI12R0001	STILLWATER SCIENCES - SEPTEMBER 2011 POPULATION SIZE ESTIMATES OF ONCORHYNCHUS MYKISS IN THE LOWER TUOLUMNE RIVER. DRAFT. 2012-01-XX
STI12R0002	STILLWATER SCIENCES - 2011 LOWER TUOLUMNE RIVER ANNUAL REPORT: 2011 SEINE REPORT AND SUMMARY UPDATE. 2012-01-XX
STI12R0003	STILLWATER SCIENCES - 2011 LOWER TUOLUMNE RIVER ANNUAL REPORT: 2011 SNORKEL REPORT AND SUMMARY UPDATE. 2012-03-XX
TID04D0001	TURLOCK & MODESTO IRRIGATION DISTRICTS - TUOLUMNE RIVER SNORKEL SUMMARY, JUN 2004. 2004-XX-XX
TID04D0002	TURLOCK & MODESTO IRRIGATION DISTRICTS - TUOLUMNE RIVER SNORKEL SUMMARY, AUG 2004. 2004-XX-XX
TID04D0003	TURLOCK & MODESTO IRRIGATION DISTRICTS - TUOLUMNE RIVER SNORKEL SUMMARY, SEP 2004. 2004-XX-XX
TID05D0001	TURLOCK & MODESTO IRRIGATION DISTRICTS - TUOLUMNE RIVER SNORKEL SUMMARY, SEP 2005. 2005-XX-XX
TID05R0001	TURLOCK & MODESTO IRRIGATION DISTRICTS - 2005 TEN YEAR SUMMARY REPORT, NEW DON PEDRO PROJECT, FERC PROJECT NO. 2299-024. 2005-04-01
TID06D0001	TURLOCK & MODESTO IRRIGATION DISTRICTS - TUOLUMNE RIVER SNORKEL SUMMARY, SEP 2006. 2006-XX-XX
TID07D0001	TURLOCK & MODESTO IRRIGATION DISTRICTS - TUOLUMNE RIVER SNORKEL SUMMARY, JUN-JUL 2007. 2007-XX-XX
TID07D0002	TURLOCK & MODESTO IRRIGATION DISTRICTS - TUOLUMNE RIVER SNORKEL SUMMARY, SEP 2007. 2007-XX-XX
TID12U0001	TURLOCK & MODESTO IRRIGATION DISTRICTS - 2012 TUOLUMNE RIVER REFERENCE COUNT SNORKEL SUMMARY (DATA TABLE). 2012-XX-XX
ZIM08R0001	ZIMMERMAN, C. ET AL. - MATERNAL ORIGIN AND MIGRATORY HISTORY OF ONCORHYNCHUS MYKISS CAPTURED IN RIVERS OF THE CENTRAL VALLEY, CALIFORNIA. 2008-03-06



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Map Index Number:	91542	EO Index:	92609
Key Quad:	Lathrop (3712173)	Element Code:	AFCHA0209K
Occurrence Number:	25	Occurrence Last Updated:	2014-02-27

Scientific Name:	<i>Oncorhynchus mykiss irideus</i>		
Common Name:	steelhead - Central Valley DPS		
Listing Status:	Federal:	Threatened	Rare Plant Rank:
	State:	None	Other Lists:
			AFS_TH-Threatened
CNDDB Element Ranks:	Global:	G5T2Q	
	State:	S2	

General Habitat:
 POPULATIONS IN THE SACRAMENTO AND SAN JOAQUIN RIVERS AND THEIR TRIBUTARIES.

Micro Habitat:

Last Date Observed:	2013-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2013-XX-XX	Occurrence Rank:	Poor
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 LOWER SAN JOAQUIN RIVER, FROM THE MOSSDALE TRAWL SITE (RM 54) TO SACK DAM (RM 182).

Detailed Location:
 SMOLTS CAUGHT AT MOSSDALE (MAIN POINT OF ENTRY INTO DELTA) SINCE 1968. BARRIER OPERATED AT HILLS FERRY (RM 118) SINCE 1992 DIVERTS MIGRATING FISH INTO MERCED R. SACK DAM, IMPASSABLE IN LOW-WATER YEARS, IS PRACTICAL U/S LIMIT TO MIGRATION.

Ecological:
 STEELHEAD (SH) WIDELY CONSIDERED EXTIRPATED S OF MERCED R; BUT 2012-13 INVENTORY FOUND O. MYKISS ABOVE HILLS FERRY BARRIER, WHICH MAY NOT BE FISH-TIGHT. DESPITE 2006 FLOW SETTLEMENT, "LOW VIABILITY" FOR SH DUE TO LACK OF REARING HABITAT.

Threats:
 UPSTREAM HABITAT CUT OFF BY SACK & FRIANT DAMS. WATER TEMPS REACH LETHAL LEVELS IN LOWER RIVER.

General:
 YEARLY CATCH AT MOSSDALE TRAWL 0-41 (AVG 8), 1994-2011; MOSLTY UNCLIPPED SMOLTS. NO SH DET ABOVE RM 118 DURING SH MONITORING BEGUN 2012 (BUT FISH ASSEMBLAGE INVENTORY FOUND TROUT). 2 OF 6 SMOLTS SAMPLED IN '08 OTOLITH STUDY WERE SH PROGENY.

PLSS:	T01S, R06E, Sec. 33 (M)	Accuracy:	nonspecific area	Area (acres):	14,775
UTM:	Zone-10 N4185547 E648244	Latitude/Longitude:	37.80528 / -121.31601	Elevation (feet):	

County Summary:
 Fresno, Madera, Merced, San Joaquin, Stanislaus

Quad Summary:
 Poso Farm (3612084), Oxalis (3612085), Santa Rita Bridge (3712015), Delta Ranch (3712016), Turner Ranch (3712026), San Luis Ranch (3712027), Stevinson (3712037), Gustine (3712038), Hatch (3712048), Crows Landing (3712141), Brush Lake (3712151), Westley (3712152), Ripon (3712162), Vernalis (3712163), Lathrop (3712173)



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Sources:

BDA06D0001	BAY DELTA AND TRIBUTARIES PROJECT - BAY DELTA AND TRIBUTARIES PROJECT WEBSITE STEELHEAD DOWNLOAD [1/12/2006 BDAT WEBSITE] 2006-01-12
BOR14U0001	U.S. BUREAU OF RECLAMATION - FIELD ACTIVITY ADVISORY, CENTRAL VALLEY STEELHEAD MONIORING PLAN: JANUARY 6 - MARCH 15, 2014. 2014-XX-XX
NMF09R0001	NATIONAL MARINE FISHERIES SERVICE (NOAA) - CALIFORNIA CENTRAL VALLEY SALMON & STEELHEAD DRAFT RECOVERY PLAN, APPENDIX A: CENTRAL VALLEY WATERSHED PROFILES. 2009-10-XX
POR12R0001	PORTZ, D. ET AL. (U.S. BUREAU OF RECLAMATION) - CENTRAL VALLEY STEELHEAD MONITORING PLAN FOR THE SAN JOAQUIN RIVER RESTORATION AREA: 2012 MID-YEAR TECHNICAL REPORT. 2012-07-XX
POR13R0001	PORTZ, D. ET AL. (U.S. BUREAU OF RECLAMATION) - CENTRAL VALLEY STEELHEAD MONITORING PLAN FOR THE SAN JOAQUIN RIVER RESTORATION AREA: 2013 MONITORING RESULTS 2013-05-XX
STO11D0005	STOCKTON FISH AND WILDLIFE OFFICE - MOSSDALE TRAWLS CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 1994-2011 MONITORING DATA. 2011-XX-XX
STO13D0004	STOCKTON FISH AND WILDLIFE OFFICE - MOSSDALE TRAWLS CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 2012-2013 MONITORING DATA. 2013-XX-XX
WOR13U0001	WORKMAN, M. & D. PORTZ - LONG TERM FISH ASSEMBLAGE INVENTORY AND MONITORING STUDY (PRELIMINARY DATA REPORT). 2013-08-XX
ZIM08R0001	ZIMMERMAN, C. ET AL. - MATERNAL ORIGIN AND MIGRATORY HISTORY OF ONCOHYNCHUS MYKISS CAPTURED IN RIVERS OF THE CENTRAL VALLEY, CALIFORNIA. 2008-03-06



Occurrence Report

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Map Index Number: 26572	EO Index: 1293
Key Quad: Crows Landing (3712141)	Element Code: AFCJB34020
Occurrence Number: 2	Occurrence Last Updated: 1996-05-09

Scientific Name: <i>Pogonichthys macrolepidotus</i>	Common Name: Sacramento splittail
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: AFS_VU-Vulnerable
CNDDB Element Ranks:	CDFW_SSC-Species of Special Concern
Global: GNR	IUCN_EN-Endangered
State: S3	

General Habitat: ENDEMIC TO THE LAKES AND RIVERS OF THE CENTRAL VALLEY, BUT NOW CONFINED TO THE DELTA, SUISUN BAY & ASSOCIATED MARSHES.	Micro Habitat: SLOW MOVING RIVER SECTIONS, DEAD END SLOUGHS. REQUIRES FLOODED VEGETATION FOR SPAWNING & FORAGING FOR YOUNG.
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Last Date Observed: 1981-10-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1981-11-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SAN JOAQUIN RIVER 0.25 MILE UP AND DOWNSTREAM OF CROWS LANDING BRIDGE, 4 MILES NORTHEAST OF CROWS LANDING.

Detailed Location:
COLLECTIONS MADE BY SEINE, ONCE EVERY 3 MONTHS BETWEEN OCT 1980 & NOV 1981. SPLITTAIL WERE RARE IN THE BAG SEINE CATCH & NOT TAKEN BY THE BEACH SEINE.

Ecological:

Threats:
FURTHER IRRIGATION DIVERSIONS, WATER DEGRADATION.

General:
INFORMATION ON LIMNOLOGICAL MEASUREMENTS, MICRONUTRIENT CONCENTRATION, AND OCCURRENCE AND RELATIVE ABUNDANCE OF CAPTURED FISH IS GIVEN IN THE REPORT.

PLSS: T06S, R09E, Sec. 07 (M)	Accuracy: specific area	Area (acres): 17
UTM: Zone-10 N4144531 E675776	Latitude/Longitude: 37.43093 / -121.01329	Elevation (feet): 40

County Summary: Stanislaus	Quad Summary: Crows Landing (3712141)
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Sources:
SAI84R0001 SAIKI, M.K. (U.S. FISH AND WILDLIFE SERVICE) - ENVIRONMENTAL CONDITIONS AND FISH FAUNAS IN LOW ELEVATION RIVERS ON THE IRRIGATED SAN JOAQUIN VALLEY FLOOR, CALIFORNIA. 1984-XX-XX



Occurrence Report

California Department of Fish and Wildlife

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Map Index Number: 59274	EO Index: 68889
Key Quad: Copper Mtn. (3712143)	Element Code: AMACC05030
Occurrence Number: 126	Occurrence Last Updated: 2007-07-25

Scientific Name: <i>Lasiurus cinereus</i>	Common Name: hoary bat
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_LC-Least Concern WBWG_M-Medium Priority
CNDDB Element Ranks:	
Global: G5	
State: S4	

General Habitat: PREFERS OPEN HABITATS OR HABITAT MOSAICS, WITH ACCESS TO TREES FOR COVER & OPEN AREAS OR HABITAT EDGES FOR FEEDING.	Micro Habitat: ROOSTS IN DENSE FOLIAGE OF MEDIUM TO LARGE TREES. FEEDS PRIMARILY ON MOTHS. REQUIRES WATER.
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Last Date Observed: XXXX-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: XXXX-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
DEL PUERTO CANYON.

Detailed Location:
MANIS GIVES LOCATION ONLY AS "DEL PUERTO CANYON", STANISLAUS COUNTY. EXACT LOCATION UNKNOWN, ENTIRE CANYON WAS MAPPED.

Ecological:

Threats:

General:

MSU MR.32511-32512, 32577-32578 COLLECTED BY DONALD O. STRANEY ON UNKNOWN DATE.

PLSS: T06S, R06E, Sec. 04 (M)	Accuracy: nonspecific area	Area (acres): 1,307
UTM: Zone-10 N4144832 E648630	Latitude/Longitude: 37.43840 / -121.31991	Elevation (feet):

County Summary:

Stanislaus

Quad Summary:

Patterson (3712142), Copper Mtn. (3712143), Mt. Boardman (3712144)

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

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Map Index Number: 91811	EO Index: 92882	
Key Quad: Westley (3712152)	Element Code: AMAEB01021	
Occurrence Number: 16	Occurrence Last Updated: 2014-03-24	

Scientific Name: <i>Sylvilagus bachmani riparius</i>	Common Name: riparian brush rabbit
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Endangered	Other Lists:
CNDDDB Element Ranks:	
Global: G5T1	
State: S1	

General Habitat: RIPARIAN AREAS ON THE SAN JOAQUIN RIVER IN NORTHERN STANISLAUS COUNTY.	Micro Habitat: DENSE THICKETS OF WILD ROSE, WILLOWS, AND BLACKBERRIES.
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Last Date Observed: 2012-11-XX	Occurrence Type: Introduced Back into Native Hab./Range
Last Survey Date: 2012-11-XX	Occurrence Rank: Unknown
Owner/Manager: USFWS-SAN JOAQUIN RIVER NWR	Trend: Unknown
Presence: Presumed Extant	

Location:
SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE.

Detailed Location:
MAPPED TO REFUGE PARCEL INCLUDING ORIGINAL RELEASE PENS (37.613, -121.196) & (37.624, -121.202), TELEMETRY PTS & 2004 & '07 COLLECTION LOCATIONS. RELEASES BEGUN IN '05/'06 ON NEWLY-ACQUIRED FAITH RANCH & BUFFINGTON TRACT, LOCATIONS UNKNOWN.

Ecological:
CAPTIVE-BRED RABBITS (FROM OCC#15) INTRODUCED INTO SOFT-RELEASE PENS ON REFUGE, THEN ALLOWED TO DISPERSE. SURVIVAL RATE AFTER 1 YEAR 49% FOR '02 COHORT, 42% FOR '03. EXTANT DESERT COTTONTAIL POPULATION MAY HAVE CO-OPTED BEST HABITAT.

Threats:
FERAL CATS. ARSON (2004), FLOODING (2005-2006).

General:
49 RABBITS RELEASED IN 2002, 187 IN 2003. POPULATION SUPPLEMENTED ANNUALLY 2005-10. 2 MORTALITIES IN 2004, 10 IN '05, & 3 IN '07 COLLECTED FOR SPECIMENS. 2010 THESIS PREDICTED EXTINCTION, BUT 2013 REPORT CLAIMED POPULATION WAS "REBOUNDED."

PLSS: T03S, R07E, Sec. 33 (M)	Accuracy: nonspecific area	Area (acres): 4,200
UTM: Zone-10 N4165589 E659141	Latitude/Longitude: 37.62365 / -121.19665	Elevation (feet): 30

County Summary: Stanislaus	Quad Summary: Westley (3712152), Ripon (3712162)
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Sources:

BOR13R0002	U.S BUREAU OF RECLAMATION - FONSI & EA: CONTINUATION OF CONTROLLED PROPAGATION, REINTRODUCTION, & MONITORING OF RIPARIAN BRUSH RABBIT ON THE SAN JOAQUIN RIVER NWR & ADJACENT LANDS THROUGH 2013. 2013-XX-XX
EDG07S0001	EDGARIAN, T. (ENDANGERED SPECIES RECOVERY PROGRAM, CSU STANISLAUS) - MVZ #228169, COLLECTED FROM SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2007-01-18
EDG07S0002	EDGARIAN, T. (ENDANGERED SPECIES RECOVERY PROGRAM, CSU STANISLAUS) - MVZ #228173, COLLECTED FROM SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2007-01-18
EDG07S0005	EDGARIAN, T. (ENDANGERED SPECIES RECOVERY PROGRAM, CSU STANISLAUS) - MVZ #228172, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2007-06-25
ESR04S0002	ESRP (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - MVZ #228941, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2004-05-26
ESR04S0003	ESRP (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - MVZ #228940, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2004-08-17
ESR05S0002	ESRP (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - MVZ #228939, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2005-03-30
ESR05S0003	ESRP (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - MVZ #228944, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2005-03-30
ESR05S0004	ESRP (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - MVZ #228943, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2005-03-30
ESR05S0005	ESRP (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - MVZ #228937, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2005-04-04
ESR05S0006	ESRP (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - MVZ #228936, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2005-04-06
ESR05S0007	ESRP (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - MVZ #228942, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2005-04-06
ESR05S0008	ESRP (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - MVZ #228938, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2005-04-06
ESR05S0010	ESRP (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - MVZ #228958, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2005-04-12
ESR05S0011	ESRP (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - MVZ #228957, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2005-04-16
ESR05S0016	ESRP (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - MVZ #228935, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE. 2005-11-22
HAM10U0002	HAMILTON, L. (UNIVERSITY OF CALIFORNIA, DAVIS) - REINTRODUCTION ECOLOGY OF THE ENDANGERED RIPARIAN BRUSH RABBIT (DISSERTATION). 2010-XX-XX
WIL02R0001	WILLIAMS, D.F. ET AL. - CONTROLLED PROPAGATION AND TRANSLOCATION OF RIPARIAN BRUSH RABBITS: ANNUAL REPORT FOR 2002. 2002-07-14
WIL05R0002	WILLIAMS, D.F. ET AL. - CONTROLLED PROPAGATION AND TRANSLOCATION OF RIPARIAN BRUSH RABBITS: ANNUAL REPORT FOR 2003. 2005-07-14



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Map Index Number: 53784	EO Index: 53784
Key Quad: Patterson (3712142)	Element Code: AMAJA03041
Occurrence Number: 80	Occurrence Last Updated: 2004-01-05

Scientific Name: <i>Vulpes macrotis mutica</i>	Common Name: San Joaquin kit fox
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.	Micro Habitat: NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.
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Last Date Observed: 1973-10-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1973-10-13	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NEAR MOUTH OF DEL PUERTO CANYON, ABOUT 3.5 MI WEST, 0.75 MI N OF PATTERSON (FROM THE INTERSECTION OF J17 & WARD AVE).

Detailed Location:
MAPPED ACCORDING TO T-R-S GIVEN (T5S, R7E, SE 1/4 OF NW 1/4 OF SEC 28), NOT FROM GENERAL DIRECTIONS.

Ecological:
ANNUAL GRASSLAND.

Threats:
General:
ONE INDIVIDUAL OBSERVED.

PLSS: T05S, R07E, Sec. 28 (M)	Accuracy: nonspecific area	Area (acres): 40
UTM: Zone-10 N4148926 E658542	Latitude/Longitude: 37.47364 / -121.20704	Elevation (feet): 400

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:
WIL73F0001 WILLIAMS, D. (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - FIELD SURVEY FORM FOR VULPES MACROTIS MUTICA 1973-10-13



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Map Index Number: 62796	EO Index: 62850
Key Quad: Patterson (3712142)	Element Code: AMAJA03041
Occurrence Number: 206	Occurrence Last Updated: 2005-10-06

Scientific Name: <i>Vulpes macrotis mutica</i>	Common Name: San Joaquin kit fox
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.	Micro Habitat: NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.
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Last Date Observed: 2004-08-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2004-08-23	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
WEST SHOULDER OF I-5, 3 MILES DIRECTLY WEST OF PATTERSON.

Detailed Location:
LOCATION MAPPED ACCORDING TO UTM COORDINATES.

Ecological:
WEST SIDE INTERSTATE: ANNUAL GRASSLAND W/ RELATIVELY STEEP SOUTHEAST ASPECT & AN ANIMAL PATH LEADING DOWN TO ROADWAY. EAST SIDE INTERSTATE: PATCHY GRASSLAND, ORCHARDS & AQUEDUCT. CURR/SURR LAND USE: INTERSTATE TRAFFIC, GRAZING, ORCHARD.

Threats:
MORTALITY ASSOCIATED WITH VEHICLE STRIKES.

General:
1 ADULT FEMALE FOUND DEAD ALONG ROAD ON 23 AUG 2004. LIKELY KILLED EARLY IN THE MORNING OR NIGHT BEFORE BY VEHICLE STRIKE.

PLSS: T05S, R07E, Sec. 27 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4148358 E660468	Latitude/Longitude: 37.46819 / -121.18539	Elevation (feet): 300

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:
ROO04F0002 ROOT, M. (U.S. FISH AND WILDLIFE SERVICE) - FIELD SURVEY FORM FOR VULPES MACROTIS MUTICA 2004-08-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 67248	EO Index: 67410
Key Quad: Patterson (3712142)	Element Code: AMAJA03041
Occurrence Number: 548	Occurrence Last Updated: 2006-11-28

Scientific Name: <i>Vulpes macrotis mutica</i>	Common Name: San Joaquin kit fox
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.	Micro Habitat: NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.
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Last Date Observed: 1989-04-11	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1989-04-11	Occurrence Rank: Poor
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
0.75 MI WSW OF I-5/FINK RD INTERCHANGE.

Detailed Location:

Ecological:
WALNUT ORCHARD ADJACENT TO NON-NATIVE GRASSLAND.

Threats:
PROPOSED PLANNING COMMUNITY WOULD ELIMINATE ORCHARD AND ADJACENT GRASSLANDS.

General:
FORAGING SITE. 1 ADULT OBSERVED DURING NOCTURNAL SUVERY ON 11 APR 1989.

PLSS: T06S, R07E, Sec. 24 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4140314 E663652	Latitude/Longitude: 37.39515 / -121.15118	Elevation (feet): 300

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:
VOU89F0001 VOUCHILAS, C. - FIELD SURVEY FORM FOR VALLEY ELDERBERRY LONGHORN BEETLE & VULPES MACROTIS MUTICA 1989-05-18



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



Map Index Number: 67264	EO Index: 67424
Key Quad: Westley (3712152)	Element Code: AMAJA03041
Occurrence Number: 560	Occurrence Last Updated: 2006-11-29

Scientific Name: <i>Vulpes macrotis mutica</i>	Common Name: San Joaquin kit fox
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.	Micro Habitat: NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.
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Last Date Observed: 1990-09-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1990-09-27	Occurrence Rank: Unknown
Owner/Manager: STATE	Trend: Unknown
Presence: Presumed Extant	

Location:
ON I-5, 4.7 MI N OF PATTERSON RD EXIT AND 9 MI N OF CROWS LANDING.

Detailed Location:
PATTERSON RD COULD NOT BE FOUND. MAPPED AT 4.7 MI N OF SPERRY AVE, WHICH IS THE MAIN EXIT FOR PATTERSON. FOX FOUND DEAD ON W SIDE OF MEDIAN OF I-5.

Ecological:
IMMEDIATELY EAST OF THE INTERSTATE LIES THE CALIFORNIA AQUEDUCT, AND TO THE WEST IS GRASSLAND OF MODERATE RELIEF.

Threats:
VEHICULAR TRAFFIC.

General:
1 INDIVIDUAL FOUND DEAD ON ROAD ON 27 SEP 1990.

PLSS: T05S, R07E, Sec. 07 (M)	Accuracy: nonspecific area	Area (acres): 64
UTM: Zone-10 N4153418 E655830	Latitude/Longitude: 37.51457 / -121.23674	Elevation (feet): 300

County Summary: Stanislaus	Quad Summary: Westley (3712152)
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Sources:
BRI90F0003 BRIDEN, L. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-BAY DELTA DIVISION) - FIELD SURVEY FORM FOR VULPES MACROTIS MUTICA 1990-09-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 56586	EO Index: 56602
Key Quad: Patterson (3712142)	Element Code: AMAJF04010
Occurrence Number: 71	Occurrence Last Updated: 2004-09-01

Scientific Name: <i>Taxidea taxus</i>	Common Name: American badger
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat: MOST ABUNDANT IN DRIER OPEN STAGES OF MOST SHRUB, FOREST, AND HERBACEOUS HABITATS, WITH FRIABLE SOILS.	Micro Habitat: NEEDS SUFFICIENT FOOD, FRIABLE SOILS & OPEN, UNCULTIVATED GROUND. PREYS ON BURROWING RODENTS. DIGS BURROWS.
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Last Date Observed: 1989-04-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1989-04-13	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
VICINITY OF LITTLE SALADO CREEK AND POWER TRANSMISSION LINES, 5 MILES SSW OF PATTERSON.

Detailed Location:
Ecological:
HABITAT CONSISTS OF WALNUT ORCHARD AND ADJACENT RUDERAL GRASSLAND.

Threats:
PROPOSED FOR DEVELOPMENT.

General:
1 ADULT OBSERVED ON 2 CONSECUTIVE NOCTURNAL SURVEYS, 12-13 APR 1989.

PLSS: T06S, R07E, Sec. 23 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4141479 E661711	Latitude/Longitude: 37.40600 / -121.17285	Elevation (feet): 400

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:
VOU89F0005 VOUCHILAS, C. - FIELD SURVEY FORM FOR TAXIDEA TAXUS 1989-04-13



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



Map Index Number: 42220

EO Index: 42220

Key Quad: Patterson (3712142)

Element Code: ARADB21021

Occurrence Number: 23

Occurrence Last Updated: 2000-01-20

Scientific Name: *Masticophis flagellum ruddocki*

Common Name: San Joaquin whipsnake

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: **Global:** G5T2T3

State: S2?

General Habitat:

OPEN, DRY HABITATS WITH LITTLE OR NO TREE COVER. FOUND IN VALLEY GRASSLAND & SALTBUSH SCRUB IN THE SAN JOAQUIN VALLEY.

Micro Habitat:

NEEDS MAMMAL BURROWS FOR REFUGE AND OVIPOSITION SITES.

Last Date Observed: 1998-07-29

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1998-07-29

Occurrence Rank: Good

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

DEL PUERTO CANYON ROAD, 0.25 MILES WEST OF I-5, WEST OF PATTERSON.

Detailed Location:

Ecological:

HABITAT SURROUNDING ROADWAY CONSISTS OF NON-NATIVE GRASSLAND.

Threats:

POSSIBLY THREATENED BY ROAD IMPROVEMENT PROJECTS.

General:

1 DEAD ADULT FOUND ON DEL PUERTO CANYON ROAD.

PLSS: T05S, R07E, Sec. 34 (M)

Accuracy: nonspecific area

Area (acres): 21

UTM: Zone-10 N4147803 E660634

Latitude/Longitude: 37.46316 / -121.18364

Elevation (feet): 280

County Summary:

Quad Summary:

Stanislaus

Patterson (3712142)

Sources:

MUT98F0004 MUTH, D. (LSA ASSOCIATES, INC.) - FIELD SURVEY FORM FOR MASTICOPHIS FLAGELLUM RUDDOCKI 1998-07-29



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



Map Index Number: 11865

EO Index: 16063

Key Quad: Westley (3712152)

Element Code: CTT52410CA

Occurrence Number: 35

Occurrence Last Updated: 1998-07-20

Scientific Name: *Coastal and Valley Freshwater Marsh*

Common Name: Coastal and Valley Freshwater Marsh

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists:

CNDDDB Element Ranks: **Global:** G3

State: S2.1

General Habitat:

Micro Habitat:

Last Date Observed: 1977-01-XX

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1977-01-XX

Occurrence Rank: Unknown

Owner/Manager: PVT, UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

SAN JOAQUIN RIVER AT GRAYSON.

Detailed Location:

Ecological:

TYPHA SP, SCIRPUS SP, CAREX LANUGINOSA, JUSSIAEA CALIFORNICA.

Threats:

DIKED AG LAND NEARBY.

General:

SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T04S, R07E, Sec. 26 (M)

Accuracy: specific area

Area (acres): 166

UTM: Zone-10 N4159065 E661640

Latitude/Longitude: 37.56445 / -121.16979

Elevation (feet): 35

County Summary:

Quad Summary:

Stanislaus

Westley (3712152)

Sources:

HOO77R0001 HOOD, L. - INVENTORY OF CALIFORNIA NATURAL AREAS, CNACC 1977-XX-XX

USF82M0001 U.S. FISH & WILDLIFE SERVICE - NATIONAL WETLAND SURVEY MAPS. 1982-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11821
Key Quad: Ripon (3712162)
Occurrence Number: 27

EO Index: 28899
Element Code: CTT61430CA
Occurrence Last Updated: 1998-07-31

Scientific Name: *Great Valley Valley Oak Riparian Forest*

Common Name: Great Valley Valley Oak Riparian Forest

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G1
 State: S1.1

Rare Plant Rank:
Other Lists:

General Habitat:

Micro Habitat:

Last Date Observed: 1980-09-04
Last Survey Date: 1980-09-04
Owner/Manager: USFWS-SAN JOAQUIN RIVER NWR
Presence: Presumed Extant

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

Location:
 SOUTH SIDE OF MAZE BLVD (HWY 132) EAST OF BRIDGE OVER SAN JOAQUIN RIVER. 11 MILES WEST OF MODESTO.

Detailed Location:

Ecological:

OPEN WOODLAND OF QUERCUS LOBATA W/ANNUAL GRASS UNDERSTORY INSIDE RIVER MEANDER SURROUNDED BY IRRIGATED AG LAND. DENSE RIPARIAN FOREST W/POPULUS FREMONTII, QUERCUS LOBATA, SALIX SP SEEN ACROSS RIVER ON ISLAND FORMED BY FINNEGANS CUT & RIVER.

Threats:

HISTORY OF GRAZING.

General:

SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T03S, R07E, Sec. 33 (M)
UTM: Zone-10 N4165883 E659140

Accuracy: 1 mile
Latitude/Longitude: 37.62631 / -121.19660

Area (acres): 0
Elevation (feet): 30

County Summary:

Quad Summary:

Stanislaus

Westley (3712152), Ripon (3712162)

Sources:

GRI80F0091 GRIGGS, T. - FIELD SURVEY - MAZE AVE. (FINNEGAN'S CUT) RIPARIAN. 1980-09-04



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 91811	EO Index: 95136
Key Quad: Westley (3712152)	Element Code: ICBRA03030
Occurrence Number: 799	Occurrence Last Updated: 2014-11-13

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 MTNS, AND SOUTH COAST MTNS, IN ASTATIC RAIN-FILLED POOLS.	Micro Habitat: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.
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Last Date Observed: 1998-01-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1998-01-12	Occurrence Rank: Unknown
Owner/Manager: FWS-SAN JOAQUIN NWR	Trend: Unknown
Presence: Presumed Extant	

Location:
SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE.

Detailed Location:
EXACT COLLECTION LOCATION UNKNOWN; MAPPED TO MAIN REFUGE PARCEL TO APPROXIMATE GIVEN LOCALITY, "SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE." VERNAL POOLS ON S SIDE OF BECKWITH RD W OF N GATES RD SURVEYED 1998-2000, BUT NO B. LYNCHI FOUND.

Ecological:

Threats:

General:

7 COLLECTED ON 12 JAN 1998 (USNM #1072676).

PLSS: T03S, R07E, Sec. 33 (M)	Accuracy: nonspecific area	Area (acres): 4,200
UTM: Zone-10 N4165589 E659141	Latitude/Longitude: 37.62365 / -121.19665	Elevation (feet):

County Summary: Stanislaus	Quad Summary: Westley (3712152), Ripon (3712162)
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Sources:

FIS98S0003	FISHER, M. & M. PETERS - USNM #1072676, COLLECTED AT SAN JOAQUIN RIVER NATIONAL WILDLIFE REFUGE 1998-01-12
GUE14U0001	GUERENA, K. - EMAILS AND ATTACHMENTS REGARDING VERNAL POOL BRANCHIOPODS NEAR SAN JOAQUIN NATIONAL WILDLIFE REFUGE. 2014-11-13



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



Map Index Number:	39485	EO Index:	34487
Key Quad:	Riverbank (3712068)	Element Code:	IICOL48011
Occurrence Number:	156	Occurrence Last Updated:	1998-08-20

Scientific Name:	<i>Desmocerus californicus dimorphus</i>	Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3T2		
	State: S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	1984-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1984-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
TUOLUMNE RIVER, AROUND MODESTO.

Detailed Location:

Ecological:

Threats:

General:

EXIT HOLES OBSERVED DURING MAY AND/OR JUNE, NO ADULTS SEEN.

PLSS: T03S, R09E, Sec. 32 (M)	Accuracy: 5 miles	Area (acres): 0
UTM: Zone-10 N4166159 E676795	Latitude/Longitude: 37.62556 / -120.99657	Elevation (feet): 50

County Summary:

Stanislaus

Quad Summary:

Ceres (3712058), Riverbank (3712068), Brush Lake (3712151), Salida (3712161)

Sources:

ARN84R0001	ARNOLD, R. - DISTRIBUTIONAL AND ECOLOGICAL STUDIES OF FIVE ENDANGERED INSECTS 1984-07-27
ESA86R0001	ESA - PLANNING AND ENVIRONMENTAL SERVICES - BIOLOGICAL DATA REPORT OF "CLEARING AND SNAGGING MODIFICATION PROJECT OF THE LOWER SAN JOAQUIN RIVER AND TRIBUTARIES." (US ARMY CORPS OF ENGINEERS) 1986-01-XX



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



Map Index Number: 11821
Key Quad: Ripon (3712162)
Occurrence Number: 157

EO Index: 34488
Element Code: IICOL48011
Occurrence Last Updated: 1998-08-20

Scientific Name: *Desmocerus californicus dimorphus*

Common Name: valley elderberry longhorn beetle

Listing Status: **Federal:** Threatened
 State: None
CNDDDB Element Ranks: **Global:** G3T2
 State: S2

Rare Plant Rank:
Other Lists:

General Habitat:

OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).

Micro Habitat:

PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed: 1984-XX-XX
Last Survey Date: 1984-XX-XX
Owner/Manager: USFWS-SAN JOAQUIN RIVER NWR
Presence: Presumed Extant

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

Location:
ALONG THE SAN JOAQUIN RIVER, WEST OF MODESTO.

Detailed Location:

Ecological:

Threats:

General:
EXIT HOLES OBSERVED DURING MAY AND JUNE SURVEYS, NO ADULTS SEEN.

PLSS: T03S, R07E, Sec. 33 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4165883 E659140	Latitude/Longitude: 37.62631 / -121.19660	Elevation (feet): 30

County Summary:

Stanislaus

Quad Summary:

Westley (3712152), Ripon (3712162)

Sources:
ARN84R0001 ARNOLD, R. - DISTRIBUTIONAL AND ECOLOGICAL STUDIES OF FIVE ENDANGERED INSECTS 1984-07-27
ESA86R0001 ESA - PLANNING AND ENVIRONMENTAL SERVICES - BIOLOGICAL DATA REPORT OF "CLEARING AND SNAGGING MODIFICATION PROJECT OF THE LOWER SAN JOAQUIN RIVER AND TRIBUTARIES." (US ARMY CORPS OF ENGINEERS) 1986-01-XX



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



Map Index Number:	11803	EO Index:	22656
Key Quad:	Westley (3712152)	Element Code:	IICOL4C020
Occurrence Number:	8	Occurrence Last Updated:	2006-03-29

Scientific Name:	<i>Lytta moesta</i>	Common Name:	moestan blister beetle
Listing Status:	Federal: None	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
CENTRAL CALIFORNIA.	

Last Date Observed:	19XX-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	19XX-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WESTLEY, SW OF MODESTO.

Detailed Location:

Ecological:

Threats:

General:

SEASONAL DISTRIBUTION: APRIL TO AUGUST 1. ONE COLLECTED IN JULY; YEAR OF COLLECTION UNKNOWN.

PLSS:	T04S, R07E, Sec. 33 (M)	Accuracy:	1 mile	Area (acres):	0
UTM:	Zone-10 N4157044 E658837	Latitude/Longitude:	37.54673 / -121.20195	Elevation (feet):	96

County Summary:	Quad Summary:
Stanislaus	Westley (3712152)

Sources:

CBP06U0001	CALIFORNIA BEETLE PROJECT (SBMNH) - ONLINE DATABASE RECORDS FOR LYTTA MOESTA. 2006-03-27
HAL92A0001	HALSTEAD, J.A. & R.D. HAINES - NEW DISTRIBUTIONAL RECORDS FOR SOME CANDIDATE SPECIES OF LYTTA IN CALIFORNIA (COLEOPTERA: MELOIDAE). THE PAN-PACIFIC ENTOMOLOGIST, 68(1):68-69. 1992-XX-XX
SEL60B0001	SELANDER, R. - BIONOMICS, SYSTEMATICS, AND PHYLOGENY OF LYTTA, A GENUS OF BLISTER BEETLES (COLEOPTERA, MELOIDAE). ILLINOIS BIOLOGICAL MONOGRAPHS. NUMBER 28. 295PP. 1960-XX-XX



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



Map Index Number:	39485	EO Index:	64448
Key Quad:	Riverbank (3712068)	Element Code:	IICOL4C020
Occurrence Number:	10	Occurrence Last Updated:	2006-03-29

Scientific Name:	<i>Lytta moesta</i>	Common Name:	moestan blister beetle
Listing Status:	Federal: None	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
CENTRAL CALIFORNIA.	

Last Date Observed:	19XX-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	19XX-XX-XX	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
 MODESTO.

Detailed Location:

Ecological:

Threats:

General:

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

PLSS: T03S, R09E, Sec. 32 (M)	Accuracy: 5 miles	Area (acres): 0
UTM: Zone-10 N4166159 E676795	Latitude/Longitude: 37.62556 / -120.99657	Elevation (feet): 100

County Summary:	Quad Summary:
Stanislaus	Ceres (3712058), Riverbank (3712068), Brush Lake (3712151), Salida (3712161)

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:	39485	EO Index:	97980
Key Quad:	Riverbank (3712068)	Element Code:	IIHYM24380
Occurrence Number:	139	Occurrence Last Updated:	2015-07-15

Scientific Name:	<i>Bombus caliginosus</i>	Common Name:	obscure bumble bee
Listing Status:	Federal: None	Rare Plant Rank:	
	State: None	Other Lists:	IUCN_VU-Vulnerable
CNDDDB Element Ranks:	Global: G4?		
	State: S1S2		

General Habitat:	Micro Habitat:
COASTAL AREAS FROM SANTA BARABARA COUNTY TO NORTH TO WASHINGTON STATE.	FOOD PLANT GENERA INCLUDE BACCHARIS, CIRSIUM, LUPINUS, LOTUS, GRINDELIA AND PHACELIA.

Last Date Observed:	1946-05-25	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1946-05-25	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 MODESTO.

Detailed Location:
 EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB IN GENERAL VICINITY OF MODESTO.

Ecological:

Threats:

General:
 COLLECTED 25 MAY 1946.

PLSS:	T03S, R09E, Sec. 32 (M)	Accuracy:	5 miles	Area (acres):	0
UTM:	Zone-10 N4166159 E676795	Latitude/Longitude:	37.62556 / -120.99657	Elevation (feet):	70

County Summary:	Quad Summary:
Stanislaus	Ceres (3712058), Riverbank (3712068), Brush Lake (3712151), Salida (3712161)

Sources:
 HUG46S0001 HUGHES, K. - EMEC #552891 COLLECTED FROM MODESTO 1946-05-25



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



Map Index Number:	39485	EO Index:	98639
Key Quad:	Riverbank (3712068)	Element Code:	IIHYM24480
Occurrence Number:	26	Occurrence Last Updated:	2015-08-27

Scientific Name:	<i>Bombus crotchii</i>	Common Name:	Crotch bumble bee
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G3G4 State: S1S2	Other Lists:	

General Habitat:	Micro Habitat:
COASTAL CALIFORNIA EAST TO THE SIERRA-CASCADE CREST AND SOUTH INTO MEXICO.	FOOD PLANT GENERA INCLUDE ANTIRRHINUM, PHACELIA, CLARKIA, DENDROMECON, ESCHSCHOLZIA, AND ERIOGONUM.

Last Date Observed:	1968-04-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1968-04-01	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 MODESTO.

Detailed Location:
 EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB IN THE GENERAL VICINITY OF MODESTO.

Ecological:

Threats:

General:
 COLLECTED 1 APR 1968.

PLSS:	T03S, R09E, Sec. 32 (M)	Accuracy:	5 miles	Area (acres):	0
UTM:	Zone-10 N4166159 E676795	Latitude/Longitude:	37.62556 / -120.99657	Elevation (feet):	80

County Summary:	Quad Summary:
Stanislaus	Ceres (3712058), Riverbank (3712068), Brush Lake (3712151), Salida (3712161)

Sources:
 ROZ68S0001 ROZELL, S. - YPM ENT #784488 COLLECTED FROM MODESTO 1968-04-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 97365	EO Index: 98645
Key Quad: Patterson (3712142)	Element Code: IHHYM24480
Occurrence Number: 28	Occurrence Last Updated: 2015-08-28

Scientific Name: <i>Bombus crotchii</i>	Common Name: Crotch bumble bee
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G3G4	
State: S1S2	

General Habitat: COASTAL CALIFORNIA EAST TO THE SIERRA-CASCADE CREST AND SOUTH INTO MEXICO.	Micro Habitat: FOOD PLANT GENERA INCLUDE ANTIRRHINUM, PHACELIA, CLARKIA, DENDROMECON, ESCHSCHOLZIA, AND ERIOGONUM.
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Last Date Observed: 1949-06-29	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1949-06-29	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
PATTERSON.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB IN THE GENERAL VICINITY OF PATTERSON.

Ecological:

Threats:

General:

COLLECTIONS WERE MADE IN THIS VICINITY ON 6 JUL 1945 AND 29 JUN 1949.

PLSS: T05S, R08E, Sec. 30 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4148741 E665192	Latitude/Longitude: 37.47080 / -121.13190	Elevation (feet): 100

County Summary: Stanislaus	Quad Summary: Crows Landing (3712141), Patterson (3712142)
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Sources:

LEI49S0001	LEIGH, T. - EMEC #554226 COLLECTED FROM PATTERSON 1949-06-29
LIN45S0001	LINSLEY, E. - EMEC #554224 & 554225 COLLECTED FROM PATTERSON 1945-07-06



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



Map Index Number: 59274	EO Index: 59310
Key Quad: Copper Mtn. (3712143)	Element Code: IHHYM71050
Occurrence Number: 2	Occurrence Last Updated: 2007-07-25

Scientific Name: <i>Ceratochrysis menkei</i>	Common Name: Menke's cuckoo wasp
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	
Global: G1	
State: S1	

General Habitat: _____ **Micro Habitat:** _____

Last Date Observed: 1976-05-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1976-05-22	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
 DEL PUERTO CANYON.

Detailed Location:
 UNKNOWN WHERE IN DEL PUERTO CANYON (STANISLAUS COUNTY) IT WAS COLLECTED SO ALL OF CANYON WAS MAPPED.

Ecological:

Threats:

General:

ONE FEMALE; "PRESUMABLY" THIS SPECIES.

PLSS: T06S, R06E, Sec. 04 (M)	Accuracy: nonspecific area	Area (acres): 1,307
UTM: Zone-10 N4144832 E648630	Latitude/Longitude: 37.43840 / -121.31991	Elevation (feet): 1,450

County Summary:

Stanislaus

Quad Summary:

Patterson (3712142), Copper Mtn. (3712143), Mt. Boardman (3712144)

Sources:

BOH82A0001	BOHART, R.M. & L.S. KIMSEY - A SYNOPSIS OF THE CHRYSIDIDAE IN AMERICA NORTH OF MEXICO. MEMOIRS OF THE AMERICAN ENTOMOLOGICAL INSTITUTE NO. 33 (PARTIAL REPRINT). 1982-XX-XX
KIM06A0001	KIMSEY, L.S. - CALIFORNIA CUCKOO WASPS IN THE FAMILY CHRYSIDIDAE (HYMENOPTERA). UNIVERSITY OF CALIFORNIA PUBLICATIONS IN ENTOMOLOGY 125:1-311. 2006-12-XX



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



Map Index Number:	11863	EO Index:	21122
Key Quad:	Westley (3712152)	Element Code:	PDAP10Z0S0
Occurrence Number:	1	Occurrence Last Updated:	2011-06-27

Scientific Name:	<i>Eryngium racemosum</i>	Common Name:	Delta button-celery
Listing Status:	Federal: None State: Endangered	Rare Plant Rank:	1B.1
CNDDDB Element Ranks:	Global: G1Q State: S1	Other Lists:	

General Habitat:	Micro Habitat:
RIPARIAN SCRUB.	SEASONALLY INUNDATED FLOODPLAIN ON CLAY. 3-75M.

Last Date Observed:	1948-08-17	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1983-09-XX	Occurrence Rank:	None
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
 NEAR GRAYSON, ABOUT 2 MILES EAST OF WESTLEY.

Detailed Location:

Ecological:
 ASSOCIATED WITH ELEOCHARIS SP.

Threats:
 APPROPRIATE HABITAT UNDER INTENSIVE CULTIVATION PER MEDEIROS IN 1983.

General:
 SITE BASED ON A 1948 MASON & SMITH COLLECTION. NOT OBSERVED IN 1983. POSSIBLE SITES EXIST NORTH AND SE OF GRAYSON ALONG SAN JOAQUIN RIVER FLOODPLAIN BUT NOT TRUE VERNAL POOL HABITAT.

PLSS: T04S, R07E, Sec. 27 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4158964 E660776	Latitude/Longitude: 37.56368 / -121.17958	Elevation (feet): 55

County Summary:	Quad Summary:
Stanislaus	Westley (3712152)

Sources:

MAS48S0001	MASON, H. & S. SMITH - MASON #8338 UC #1191956, LA #35819 1948-08-17
MED83F0005	MEDEIROS, J. - FIELD SURVEY FORM FOR ERYNGIUM RACEMOSUM 1983-09-XX
MOR84U0005	MOREY, S. - LETTER TO SUSAN COCHRANE 1984-08-31



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



Map Index Number: 12093	EO Index: 20074
Key Quad: Crows Landing (3712141)	Element Code: PDAPI0Z0S0
Occurrence Number: 5	Occurrence Last Updated: 2003-06-09

Scientific Name: <i>Eryngium racemosum</i>	Common Name: Delta button-celery
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists:
State: Endangered	
CNDDDB Element Ranks:	
Global: G1Q	
State: S1	

General Habitat: RIPARIAN SCRUB.	Micro Habitat: SEASONALLY INUNDATED FLOODPLAIN ON CLAY. 3-75M.
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Last Date Observed: 1968-03-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1985-06-14	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
CARPENTER ROAD NEAR SAN JOAQUIN RIVER SOUTH OF MODESTO.

Detailed Location:

Ecological:
IN HARD CLAY DEPRESSIONS.

Threats:
AGRICULTURE.

General:
HABITAT NO LONGER SUITABLE. 1968 COLLECTION BY HOOVER (#11144 UC) ATTRIBUTED TO THIS SITE. NEEDS FIELDWORK IN THIS VICINITY TO CONFIRM HABITAT SUITABILITY. POSSIBLY EXTIRPATED.

PLSS: T05S, R09E, Sec. 31 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4147105 E674446	Latitude/Longitude: 37.45437 / -121.02770	Elevation (feet): 50

County Summary: Stanislaus	Quad Summary: Crows Landing (3712141)
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Sources:

G0085U0001	GOODROW, V. - MATERIALS ON FIELD CHECKS OF HISTORIC LOCATIONS. 1985-07-22
H0065S0001	HOOVER, R. - HOOVER #9521 RSA #212267, OBI #8971 1965-08-27
H0068S0015	HOOVER, R. - HOOVER #11144 UC #1392743, CAS #536038, OBI #8972 & #8973 1968-06-02
MOR84F0004	MOREY, S. - FIELD SURVEY FORM FOR ERYNGIUM RACEMOSUM 1984-08-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11863	EO Index: 21123	
Key Quad: Westley (3712152)	Element Code: PDAST1C011	
Occurrence Number: 3	Occurrence Last Updated: 2011-06-27	

Scientific Name: <i>Blepharizonia plumosa</i>	Common Name: big tarplant
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat: DRY HILLS & PLAINS IN ANNUAL GRASSLAND. CLAY TO CLAY-LOAM SOILS; USUALLY ON SLOPES AND OFTEN IN BURNED AREAS. 30-505 M.
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Last Date Observed: 1878-09-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1878-09-01	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NEAR GRAYSON, SAN JOAQUIN VALLEY.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS CENTERED ON GRAYSON.

Ecological:
Threats:

General:
ONLY SOURCE OF INFORMATION IS AN 1878 COLLECTION BY LEMMON. NEEDS FIELDWORK.

PLSS: T04S, R07E, Sec. 27 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4158964 E660776	Latitude/Longitude: 37.56368 / -121.17958	Elevation (feet):

County Summary: Stanislaus	Quad Summary: Westley (3712152)
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Sources:
LEM78S0001 LEMMON, J. - LEMMON SN UC #338619 1878-09-01



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



Map Index Number: 51039
Key Quad: Patterson (3712142)
Occurrence Number: 37

EO Index: 51039
Element Code: PDAST1C011
Occurrence Last Updated: 2013-07-16

Scientific Name: *Blepharizonia plumosa*
Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2
 State: S2

Common Name: big tarplant
Rare Plant Rank: 1B.1
Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden

General Habitat:
 VALLEY AND FOOTHILL GRASSLAND.

Micro Habitat:
 DRY HILLS & PLAINS IN ANNUAL GRASSLAND. CLAY TO CLAY-LOAM SOILS; USUALLY ON SLOPES AND OFTEN IN BURNED AREAS. 30-505 M.

Last Date Observed: 2000-10-20
Last Survey Date: 2000-10-20
Owner/Manager: PVT
Presence: Presumed Extant

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

Location:
 LOWER PART OF DEL PUERTO CANYON.

Detailed Location:
 SITE MAPPED FROM TRS PROVIDED IN THE NE 1/4 OF THE NW 1/4 OF SECTION 28. APPROXIMATELY 5 FT FROM EPHEMERAL DRAINAGE CHANNEL.

Ecological:
 NON-NATIVE ANNUAL GRASSLAND, COMPRISED OF 60% HOLOCARPHA HEERMANNII, 15% XANTHIUM STRUMARIUM, 10% HORDEUM MURINUM SSP. LEPORINUM, 10% BRASSICA SP., AND 5% EREMOCARPUS SETIGERUS.

Threats:
 CATTLE GRAZING, PIPELINE RUNS THROUGH SITE, REPAIRS NEEDED. SEED COLLECTED.

General:
 2 PLANTS OBSERVED IN 2000. SITE WILL BE RESEEDED AFTER PIPELINE REPAIRS ARE COMPLETED.

PLSS: T05S, R07E, Sec. 28 (M)	Accuracy: nonspecific area	Area (acres): 44
UTM: Zone-10 N4149296 E658529	Latitude/Longitude: 37.47698 / -121.20711	Elevation (feet): 300

County Summary:	Quad Summary:
Stanislaus	Patterson (3712142)

Sources:
 LYN00F0003 LYNCH, S. - FIELD SURVEY FORM FOR BLEPHARIZONIA PLUMOSA 2000-10-20



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



Map Index Number: 67023	EO Index: 67174
Key Quad: Patterson (3712142)	Element Code: PDAST1C011
Occurrence Number: 50	Occurrence Last Updated: 2006-11-09

Scientific Name: <i>Blepharizonia plumosa</i>	Common Name: big tarplant
Listing Status: Federal: None	Rare Plant Rank: 1B.1
State: None	Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden
CNDDB Element Ranks: Global: G2	
State: S2	

General Habitat: VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat: DRY HILLS & PLAINS IN ANNUAL GRASSLAND. CLAY TO CLAY-LOAM SOILS; USUALLY ON SLOPES AND OFTEN IN BURNED AREAS. 30-505 M.
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Last Date Observed: 2003-10-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-10-14	Occurrence Rank: Fair
Owner/Manager: STA COUNTY, PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
LOWER DEL PUERTO CANYON, 1 AIR MILE SW OF I-5.

Detailed Location:
0.3 AIR MILE SE OF DEL PUERTO FIRE CONTROL STATION, ON BOTH SIDES OF DEL PUERTO ROAD.

Ecological:
DEEPLY CRACKED CLAY SOILS IN ANNUAL GRASSLAND WITH LOLIUM MULTIFLORUM, HORDEUM MARINUM SSP. GUSSONEANUM, BROMUS HORDEACEUS, EREMOCARPUS SETIGERUS, AND HOLOCARPHA SP.

Threats:
ROAD MAINTENANCE.

General:
17 PLANTS OBSERVED IN 2003.

PLSS: T05S, R07E, Sec. 29 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4149378 E657481	Latitude/Longitude: 37.47789 / -121.21893	Elevation (feet): 245

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:
PRE03F0035 PRESTON, R. - FIELD SURVEY FORM FOR BLEPHARIZONIA PLUMOSA 2003-10-14



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 67024
Key Quad: Patterson (3712142)
Occurrence Number: 51

EO Index: 67175
Element Code: PDAST1C011
Occurrence Last Updated: 2013-07-16

Scientific Name: *Blepharizonia plumosa*
Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2
 State: S2

Common Name: big tarplant
Rare Plant Rank: 1B.1
Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden

General Habitat:
 VALLEY AND FOOTHILL GRASSLAND.

Micro Habitat:
 DRY HILLS & PLAINS IN ANNUAL GRASSLAND. CLAY TO CLAY-LOAM SOILS; USUALLY ON SLOPES AND OFTEN IN BURNED AREAS. 30-505 M.

Last Date Observed: 2003-10-14
Last Survey Date: 2003-10-14
Owner/Manager: STA COUNTY, PVT
Presence: Presumed Extant

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

Location:
 LOWER DEL PUERTO CANYON, 1.5 AIR MILE SOUTHWEST OF I-5.

Detailed Location:
 0.3 AIR MILE SW OF DEL PUERTO FIRE CONTROL STATION, ON BOTH SIDES OF DEL PUERTO ROAD.

Ecological:
 N-FACING SLOPE ON CLAY SOILS. ANNUAL GRASSLAND WITH CARDUUS PYCNOCEPHALUS, LAGOPHYLLA RAMOSISSIMA, HORDEUM MURINUM, HIRSCHFELDIA INCANA, AND GRINDELIA CAMPORUM.

Threats:
 ROAD MAINTENANCE; PLANTS ON ROAD CUT SUBJECT TO EROSION.

General:
 300 PLANTS IN 2003. TWO 1975 VALE COLLECTIONS FROM LOWER DEL PUERTO CYN ATTRIB HERE BASED ON PRESTON COMMENT: "THIS IS A LARGE, NATURAL POPULATION THAT IS MORE LIKELY TO BE THE SOURCE FOR THE ORIGINAL COLLECTIONS FROM DEL PUERTO CANYON."

PLSS: T05S, R07E, Sec. 29 (M)	Accuracy: specific area	Area (acres): 5
UTM: Zone-10 N4149043 E656520	Latitude/Longitude: 37.47503 / -121.22987	Elevation (feet): 310

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:
 PRE03F0036 PRESTON, R. - FIELD SURVEY FORM FOR BLEPHARIZONIA PLUMOSA 2003-10-14
 VAL75S0001 VALE, J. - VALE SN CAS #655743 1975-09-17
 VAL75S0002 VALE, J. - VALE SN CAS #686653 1975-10-04



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 82469
Key Quad: Copper Mtn. (3712143)
Occurrence Number: 60

EO Index: 83485
Element Code: PDAST1C011
Occurrence Last Updated: 2011-05-04

Scientific Name: *Blepharizonia plumosa*
Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2
 State: S2

Common Name: big tarplant
Rare Plant Rank: 1B.1
Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden

General Habitat:
 VALLEY AND FOOTHILL GRASSLAND.

Micro Habitat:
 DRY HILLS & PLAINS IN ANNUAL GRASSLAND. CLAY TO CLAY-LOAM SOILS; USUALLY ON SLOPES AND OFTEN IN BURNED AREAS. 30-505 M.

Last Date Observed: 2005-06-27
Last Survey Date: 2005-06-27
Owner/Manager: PVT
Presence: Presumed Extant

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

Location:
 DIABLO GRANDE, WEST OF PATTERSON.

Detailed Location:
 EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS IN VICINITY OF DIABLO GRANDE COUNTRY CLUB IN THE HILLS WEST OF PATTERSON.

Ecological:
 IN FOOTHILL GRASSLAND. ASSOCIATED WITH BROMUS HORDEACEUS, HEMIZONIA LOBBII, AND HOLOCARPHA HEERMANNII.

Threats:
General:
 ONLY SOURCE OF INFORMATION IS A 2005 PHOTO OBSERVATION BY MILLIKEN. NEEDS FIELDWORK.

PLSS: T06S, R06E, Sec. 24 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4140520 E653752	Latitude/Longitude: 37.39871 / -121.26294	Elevation (feet):

County Summary: Stanislaus	Quad Summary: Patterson (3712142), Copper Mtn. (3712143)
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Sources:
 MIL0510006 MILLIKEN, T. - PHOTOS OF BLEPHARIZONIA PLUMOSA, CALPHOTOS ID #0000 0000 0705 0009 & 0011 2005-06-27



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11768	EO Index: 53732
Key Quad: Patterson (3712142)	Element Code: PDBRA0M0E0
Occurrence Number: 33	Occurrence Last Updated: 2003-12-30

Scientific Name: <i>Caulanthus lemmonii</i>	Common Name: Lemmon's jewelflower
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	SB_SBBG-Santa Barbara Botanic Garden
CNDDDB Element Ranks:	USFS_S-Sensitive
Global: G3	
State: S3	

General Habitat: PINYON-JUNIPER WOODLAND, VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat: 80-1220 M.
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Last Date Observed: 1938-03-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1938-03-18	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
MOUTH OF DEL PUERTO CANYON.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB, IN THE VICINITY OF THE MOUTH OF DEL PUERTO CANYON AT THE CORRESPONDING ELEVATION PROVIDED BY HOOVER.

Ecological:
Threats:

General:
UNKNOWN NUMBER OF PLANTS SEEN IN 1935 AND 1938. NEEDS FIELDWORK. 1935 FERRIS COLLECTION FROM "PUERTO CYN" ALSO ATTRIBUTED TO THIS SITE.

PLSS: T05S, R07E, Sec. 20 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4150377 E657644	Latitude/Longitude: 37.48687 / -121.21688	Elevation (feet): 250

County Summary: Stanislaus	Quad Summary: Patterson (3712142), Westley (3712152)
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Sources:
 FER35S0010 FERRIS, R. - FERRIS #9050 UC #564121, RSA #14188, CAS #247541, DS #235641, GH #379073 1935-03-23
 HOO38S0047 HOOVER, R. - HOOVER #2855 UC #596416 & #767819, CAS #261738, GH #379080 1938-03-18



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



Map Index Number:	12109	EO Index:	5632
Key Quad:	Crows Landing (3712141)	Element Code:	PDCHE040B0
Occurrence Number:	12	Occurrence Last Updated:	2011-06-13

Scientific Name:	<i>Atriplex cordulata var. cordulata</i>	Common Name:	heartscale
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDDB Element Ranks:	Global: G3T2 State: S2	Other Lists:	BLM_S-Sensitive

General Habitat:	CHENOPOD SCRUB, VALLEY AND FOOTHILL GRASSLAND, MEADOWS.	Micro Habitat:	ALKALINE FLATS AND SCALDS IN THE CENTRAL VALLEY, SANDY SOILS. 0-560 M.
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Last Date Observed:	1965-08-27	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1965-08-27	Occurrence Rank:	None
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Extirpated		

Location:
 CARPENTER ROAD NEAR THE SAN JOAQUIN RIVER.

Detailed Location:
 EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS CENTERED ON AREA OF CARPENTER ROAD CLOSEST TO SAN JOAQUIN RIVER, NW OF CROWS LANDING.

Ecological:
Threats:

TAYLOR STATES THIS OCCURRENCE IS NOT EXTANT.

General:
 ONLY SOURCE OF INFORMATION IS A 1965 HOOVER COLLECTION. NEEDS FIELDWORK.

PLSS: T06S, R09E, Sec. 06 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4146164 E675178	Latitude/Longitude: 37.44576 / -121.01965	Elevation (feet): 50

County Summary:	Quad Summary:
Stanislaus	Crows Landing (3712141)

Sources:
 H0065S0018 HOOVER, R. - HOOVER #9520 OBI #17339, CAS #477076 1965-08-27
 TAY93U0002 TAYLOR, D. - ENDEMIC CA ANNUAL ATRIPLEX RECORDS. (COLLECTIONS FOR SEVERAL TAXA) 1993-07-27



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 12109	EO Index: 67276
Key Quad: Crows Landing (3712141)	Element Code: PDCHE042M0
Occurrence Number: 34	Occurrence Last Updated: 2011-05-16

Scientific Name: <i>Atriplex minuscula</i>	Common Name: lesser saltscale
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: CHENOPOD SCRUB, PLAYAS, VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat: IN ALKALI SINK AND GRASSLAND IN SANDY, ALKALINE SOILS. 20-100M.
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Last Date Observed: 1965-08-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1965-08-27	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
CARPENTER ROAD, NEAR SAN JOAQUIN RIVER.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB AT THE FORMER SITE OF A. DEPRESSA OCCURRENCE #29.

Ecological:

Threats:

General:

1936 COLLECTION BY HOOVER FROM "10 MILES SOUTH OF MODESTO" ATTRIBUTED TO THIS SITE. 1936 COLL ORIGINALLY COLLECTED AS ATRIPLEX DEPRESSA. DETERMINED TO BE A. MINUSCULA BY PRESTON IN 2003 AND ANNOTATED TO A. MINUSCULA BY ZACHARIAS IN 2010.

PLSS: T06S, R09E, Sec. 06 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4146164 E675178	Latitude/Longitude: 37.44576 / -121.01965	Elevation (feet):

County Summary: Stanislaus	Quad Summary: Crows Landing (3712141)
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Sources:

HOO36S0044	HOOVER, R. - HOOVER #1294 UC #767870 1936-06-10
HOO65S0017	HOOVER, R. - HOOVER #9518 OBI (CITED IN TAY93U0002) 1965-08-27
PRE03U0001	PRESTON, R. - STATUS OF ATRIPLEX DEPRESSA, ATRIPLEX MINUSCULA, AND ATRIPLEX SUBTILIS 2003-11-06
TAY93U0002	TAYLOR, D. - ENDEMIC CA ANNUAL ATRIPLEX RECORDS. (COLLECTIONS FOR SEVERAL TAXA) 1993-07-27



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 36785	EO Index: 31782
Key Quad: Crows Landing (3712141)	Element Code: PDCHE042P0
Occurrence Number: 9	Occurrence Last Updated: 2011-05-31

Scientific Name: <i>Atriplex persistens</i>	Common Name: vernal pool smallscale
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: VERNAL POOLS.	Micro Habitat: ALKALINE VERNAL POOLS. 10-115 M.
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Last Date Observed: 1965-08-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1965-08-27	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
CARPENTER ROAD NEAR THE SAN JOAQUIN RIVER, 10 MILES SOUTH OF MODESTO.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB IN VICINITY OF CARPENTER ROAD NEAR SAN JOAQUIN RIVER, NEAR MAPPED LOCATION BY TAYLOR.

Ecological:
Threats:

General:
OCCURRENCE IS PRIMARILY BASED ON HOOVER COLLECTIONS FROM 1934, 1936, AND 1965. OCCURRENCE EXTIRPATED ACCORDING TO TAYLOR; IS THERE ANY HABITAT IN THE AREA LEFT?

PLSS: T05S, R08E, Sec. 25 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4149791 E674034	Latitude/Longitude: 37.47864 / -121.03173	Elevation (feet): 55

County Summary: Stanislaus	Quad Summary: Crows Landing (3712141)
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Sources:

HOO34S0002	HOOVER, R. - HOOVER #127 UC #768852 1934-10-21
HOO36S0035	HOOVER, R. - HOOVER #1293 UC #768559 1936-06-10
HOO36S0058	HOOVER, R. - HOOVER #1291 UC #767580 1936-06-10
HOO65S0010	HOOVER, R. - HOOVER #9519 CAS, OBI, RM (CITED IN TAYNDU0002) 1965-08-27
TAYNDU0002	TAYLOR, D. - MAPS AND COLLECTION INFORMATION FOR ATRIPLEX PERSISTENS. XXXX-XX-XX



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



Map Index Number: 12109	EO Index: 5635
Key Quad: Crows Landing (3712141)	Element Code: PDFAB0F8R1
Occurrence Number: 5	Occurrence Last Updated: 2008-01-03

Scientific Name: <i>Astragalus tener</i> var. <i>tener</i>	Common Name: alkali milk-vetch
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: G2T2	
State: S2	

General Habitat: ALKALI PLAYA, VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.	Micro Habitat: LOW GROUND, ALKALI FLATS, AND FLOODED LANDS; IN ANNUAL GRASSLAND OR IN PLAYAS OR VERNAL POOLS. 0-168 M.
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Last Date Observed: 1940-04-12	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-03-25	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Extirpated	

Location:
NEAR CROWS LANDING BRIDGE, EAST OF THE SAN JOAQUIN RIVER.

Detailed Location:
SEVERAL COLLECTIONS MADE IN THIS AREA BY HOOVER. OTHER SITE REFERENCES ON THESE COLLECTIONS INCLUDE: "10 MILES SOUTH OF MODESTO" AND "CARPENTER ROAD NEAR SAN JOAQUIN RIVER".

Ecological:
Threats:

General:
COLLECTED SEVERAL TIMES BY HOOVER BETWEEN 1935-1940. AREA SHOULD BE SEARCHED AGAIN FOR SUITABLE HABITAT. NO PLANTS OR HABITAT OBSERVED IN VICINITY BY WITHAM IN 2002. AREA UNDER INTENSIVE CULTIVATION, DITCHES SPRAYED REGULARLY.

PLSS: T06S, R09E, Sec. 06 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4146164 E675178	Latitude/Longitude: 37.44576 / -121.01965	Elevation (feet): 55

County Summary: Stanislaus	Quad Summary: Crows Landing (3712141)
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Sources:

HOO35S0010	HOOVER, R. - HOOVER #393 UC #764740 & #596543 1935-03-28
HOO37S0033	HOOVER, R. - HOOVER #1643 UC #764622 1937-03-25
HOO40S0009	HOOVER, R. - HOOVER #4332 UC #762946 1940-04-12
WIT02R0001	WITHAM, C. - ALKALINE VERNAL POOL MILK-VETCH STATUS SURVEY REPORT 2002-09-11



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



Map Index Number: 45760	EO Index: 45760
Key Quad: Patterson (3712142)	Element Code: PDGER01070
Occurrence Number: 36	Occurrence Last Updated: 2010-12-16

Scientific Name: <i>California macrophylla</i>	Common Name: round-leaved filaree
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	SB_RSABG-Rancho Santa Ana Botanic Garden
CNDDDB Element Ranks:	SB_SBBG-Santa Barbara Botanic Garden
Global: G3?	
State: S3?	

General Habitat: CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat: CLAY SOILS. 15-1200 M.
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Last Date Observed: 2005-05-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2005-05-13	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
2 MILES WEST OF PATTERSON, EAST SIDE OF INNER COAST RANGE.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB AT FOOTHILLS AROUND 2 MILES WEST OF PATTERSON.

Ecological:
OPEN GRASSLAND, SPARSE VEGETATION.

Threats:
General:

MAIN SOURCE OF INFORMATION FOR THIS SITE IS A 1940 COLLECTION BY HOOVER. 2005 PHOTO BY MILLIKEN IN CALPHOTOS FROM "EAST SIDE OF INNER COAST RANGE WEST OF PATTERSON" ALSO ATTRIBUTED TO THIS OCCURRENCE. NEEDS FIELDWORK.

PLSS: T05S, R07E, Sec. 26 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4147988 E661824	Latitude/Longitude: 37.46462 / -121.17014	Elevation (feet):

County Summary: Stanislaus	Quad Summary: Patterson (3712142)
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Sources:

HOO40S0018	HOOVER, R. - HOOVER #4286 UC #762241 1940-03-31
MIL05I0001	MILIKEN, T. - PHOTOS OF CALIFORNIA MACROPHYLLA, CALPHOTOS ID #0000 0000 0505 1396-1400 2005-05-13



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



Map Index Number: 11803	EO Index: 45784
Key Quad: Westley (3712152)	Element Code: PDGER01070
Occurrence Number: 37	Occurrence Last Updated: 2001-09-05

Scientific Name: <i>California macrophylla</i>	Common Name: round-leaved filaree
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	SB_RSABG-Rancho Santa Ana Botanic Garden
CNDDDB Element Ranks:	SB_SBBG-Santa Barbara Botanic Garden
Global: G3?	
State: S3?	

General Habitat: CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat: CLAY SOILS. 15-1200 M.
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Last Date Observed: 1935-03-01	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1935-03-01	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:

WESTLEY.

Detailed Location:

EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB IN VICINITY OF WESTLEY.

Ecological:**Threats:****General:**

ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1935 COLLECTION BY HOOVER. NEEDS FIELDWORK.

PLSS: T04S, R07E, Sec. 33 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4157044 E658837	Latitude/Longitude: 37.54673 / -121.20195	Elevation (feet):

County Summary:

Stanislaus

Quad Summary:

Westley (3712152)

Sources:

HOO35S0015 HOOVER, R. - HOOVER #259 UC #762238 1935-03-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11768	EO Index: 21509
Key Quad: Patterson (3712142)	Element Code: PDPAP0A0D0
Occurrence Number: 2	Occurrence Last Updated: 1989-08-11

Scientific Name: <i>Eschscholzia rhombipetala</i>	Common Name: diamond-petaled California poppy
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	SB_RSABG-Rancho Santa Ana Botanic Garden
CNDDDB Element Ranks:	
Global: G1	
State: S1	

General Habitat: VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat: ALKALINE, CLAY SLOPES AND FLATS. 0-975 M.
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Last Date Observed: 1940-04-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1980-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
HILL NORTH OF MOUTH OF DEL PUERTO CANYON.

Detailed Location:
EXACT LOCATION UNKNOWN, MAPPED BY CNDDDB AS A BEST GUESS.

Ecological:

Threats:

General:
SITE IS BASED ON A 1940 HOOVER COLLECTION. CLARK EXTENSIVELY SEARCHED THIS AREA IN 1980 AND IN PREVIOUS YEARS, BUT DID NOT FIND THE PLANTS.

PLSS: T05S, R07E, Sec. 20 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4150377 E657644	Latitude/Longitude: 37.48687 / -121.21688	Elevation (feet):

County Summary: Stanislaus	Quad Summary: Patterson (3712142), Westley (3712152)
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Sources:

CLA80U0001	CLARK, C. - LETTER TO S. RAE 1980-06-12
HOO40S0006	HOOVER, R. - HOOVER #4345 DS #329247, UC #765994 1940-04-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 80357	EO Index: 81345
Key Quad: Brush Lake (3712151)	Element Code: PMPOA5T030
Occurrence Number: 16	Occurrence Last Updated: 2010-10-11

Scientific Name: <i>Sphenopholis obtusata</i>	Common Name: prairie wedge grass
Listing Status:	Rare Plant Rank: 2B.2
Federal: None	Other Lists:
State: None	
CNDDDB Element Ranks:	
Global: G5	
State: S2	

General Habitat: CISMONTANE WOODLAND, MEADOWS AND SEEPS.	Micro Habitat: OPEN MOIST SITES, ALONG RIVERS AND SPRINGS, ALKALINE DESERT SEEPS. 300-2000 M.
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Last Date Observed: 1969-05-03	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1969-05-03	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
FOUND ALONG DITCH TO COW BARN AT COUCHMAN RANCH, MODESTO.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB IN GENERAL VICINITY OF COUCHMAN FARMS DAIRY FACILITY.

Ecological:

Threats:

General:

ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1969 COLLECTION BY HAMILTON. NEEDS FIELDWORK.

PLSS: T04S, R08E, Sec. 15 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4162481 E670479	Latitude/Longitude: 37.59362 / -121.06896	Elevation (feet): 50

County Summary: Stanislaus	Quad Summary: Brush Lake (3712151)
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Sources:

HAM69S0001 HAMILTON, B. - HAMILTON #45 CHSC #5898 1969-05-03



Selected Elements by Common Name
California Department of Fish and Wildlife
California Natural Diversity Database



Query Criteria: Quad is (Solyo (3712153) or Tracy (3712164) or Vernalis (3712163))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
American badger <i>Taxidea taxus</i>	AMAJF04010	None	None	G5	S3	SSC
big tarplant <i>Blepharizonia plumosa</i>	PDAST1C011	None	None	G2	S2	1B.1
burrowing owl <i>Athene cunicularia</i>	ABNSB10010	None	None	G4	S3	SSC
California horned lark <i>Eremophila alpestris actia</i>	ABPAT02011	None	None	G5T3Q	S3	WL
California red-legged frog <i>Rana draytonii</i>	AAABH01022	Threatened	None	G2G3	S2S3	SSC
California tiger salamander <i>Ambystoma californiense</i>	AAAAA01180	Threatened	Threatened	G2G3	S2S3	SSC
caper-fruited tropidocarpum <i>Tropidocarpum capparideum</i>	PDBRA2R010	None	None	G1	S1	1B.1
coast horned lizard <i>Phrynosoma blainvillii</i>	ARACF12100	None	None	G3G4	S3S4	SSC
Crotch bumble bee <i>Bombus crotchii</i>	IIHYM24480	None	None	G3G4	S1S2	
Delta button-celery <i>Eryngium racemosum</i>	PDAPI0Z0S0	None	Endangered	G1Q	S1	1B.1
diamond-petaled California poppy <i>Eschscholzia rhombipetala</i>	PDPAP0A0D0	None	None	G1	S1	1B.1
foothill yellow-legged frog <i>Rana boylei</i>	AAABH01050	None	None	G3	S3	SSC
Great Valley Cottonwood Riparian Forest <i>Great Valley Cottonwood Riparian Forest</i>	CTT61410CA	None	None	G2	S2.1	
Hall's bush-mallow <i>Malacothamnus hallii</i>	PDMAL0Q0F0	None	None	G2	S2	1B.2
large-flowered fiddleneck <i>Amsinckia grandiflora</i>	PDBOR01050	Endangered	Endangered	G1	S1	1B.1
least Bell's vireo <i>Vireo bellii pusillus</i>	ABPBW01114	Endangered	Endangered	G5T2	S2	
Lemmon's jewelflower <i>Caulanthus lemmonii</i>	PDBRA0M0E0	None	None	G3	S3	1B.2
merlin <i>Falco columbarius</i>	ABNKD06030	None	None	G5	S3S4	WL
Mt. Diablo phacelia <i>Phacelia phacelioides</i>	PDHYD0C3Q0	None	None	G1	S1	1B.2
Mt. Hamilton coreopsis <i>Leptosyne hamiltonii</i>	PDAST2L0C0	None	None	G2	S2	1B.2



Selected Elements by Common Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
pallid bat <i>Antrozous pallidus</i>	AMACC10010	None	None	G5	S3	SSC
riparian (=San Joaquin Valley) woodrat <i>Neotoma fuscipes riparia</i>	AMAFF08081	Endangered	None	G5T1Q	S1	SSC
riparian brush rabbit <i>Sylvilagus bachmani riparius</i>	AMAEB01021	Endangered	Endangered	G5T1	S1	
round-leaved filaree <i>California macrophylla</i>	PDGER01070	None	None	G3?	S3?	1B.2
Sacramento anthicid beetle <i>Anthicus sacramento</i>	IICOL49010	None	None	G1	S1	
San Joaquin kit fox <i>Vulpes macrotis mutica</i>	AMAJA03041	Endangered	Threatened	G4T2	S2	
San Joaquin Pocket Mouse <i>Perognathus inornatus</i>	AMAFD01060	None	None	G2G3	S2S3	
San Joaquin whipsnake <i>Masticophis flagellum ruddocki</i>	ARADB21021	None	None	G5T2T3	S2?	SSC
showy golden madia <i>Madia radiata</i>	PDAST650E0	None	None	G2	S2	1B.1
slough thistle <i>Cirsium crassicaule</i>	PDAST2E0U0	None	None	G2	S2	1B.1
song sparrow ("Modesto" population) <i>Melospiza melodia</i>	ABPBXA3010	None	None	G5	S3?	SSC
steelhead - Central Valley DPS <i>Oncorhynchus mykiss irideus</i>	AFCHA0209K	Threatened	None	G5T2Q	S2	
Swainson's hawk <i>Buteo swainsoni</i>	ABNKC19070	None	Threatened	G5	S3	
Townsend's big-eared bat <i>Corynorhinus townsendii</i>	AMACC08010	None	Candidate Threatened	G3G4	S2	SSC
Tracy's eriastrum <i>Eriastrum tracyi</i>	PDPLM030C0	None	Rare	G3Q	S3	3.2
tricolored blackbird <i>Agelaius tricolor</i>	ABPBXB0020	None	None	G2G3	S1S2	SSC
valley elderberry longhorn beetle <i>Desmocerus californicus dimorphus</i>	IICOL48011	Threatened	None	G3T2	S2	
western mastiff bat <i>Eumops perotis californicus</i>	AMACD02011	None	None	G5T4	S3S4	SSC
western pond turtle <i>Emys marmorata</i>	ARAAD02030	None	None	G3G4	S3	SSC
western spadefoot <i>Spea hammondi</i>	AAABF02020	None	None	G3	S3	SSC
western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	ABNRB02022	Threatened	Endangered	G5T2T3	S1	

Record Count: 41



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad is (Solyo (3712153) or Tracy (3712164) or Vernalis (3712163))

Map Index Number: 45881	EO Index: 45881
Key Quad: Tracy (3712164)	Element Code: AAAAA01180
Occurrence Number: 550	Occurrence Last Updated: 2001-09-10

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

General Habitat: CENTRAL VALLEY DPS FEDERALLY LISTED AS THREATENED. SANTA BARBARA & SONOMA COUNTIES DPS FEDERALLY LISTED AS ENDANGERED.	Micro Habitat: NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS, & VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING.
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Last Date Observed: 1992-02-10	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1992-02-10	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
5.4 MILES SSW OF TRACY, SOUTH OF INTERSTATE 580.

Detailed Location:
ALONG CORRAL HOLLOW ROAD, 6.6 ROAD MILES EAST OF THE ALAMEDA-SAN JOAQUIN COUNTY LINE.

Ecological:

Threats:

General:

CAS #183179, ADULT MALE COLLECTED 10 FEB 1992 BY M.R. JENNINGS.

PLSS: T03S, R05E, Sec. 19 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4169839 E635290	Latitude/Longitude: 37.66577 / -121.46604	Elevation (feet): 342

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:
CAS01S0002 CALIFORNIA ACADEMY OF SCIENCES - 1990-2000 CAS HERPETOLOGY HOLDINGS (INCLUDES STANFORD UNIVERSITY COLLECTIONS) FOR AMBYSTOMA CALIFORNIENSE 2001-02-14



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 75407
Key Quad: Tracy (3712164)
Occurrence Number: 1089

EO Index: 76411
Element Code: AAAAA01180
Occurrence Last Updated: 2014-08-26

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_SSC-Species of Special Concern
IUCN_VU-Vulnerable

General Habitat:

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

Micro Habitat:

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

Last Date Observed: 2013-04-11
Last Survey Date: 2013-04-11
Owner/Manager: DOE-LAWRENCE LIVERMORE LAB
Presence: Presumed Extant

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

Location:
ALONG CORRAL HOLLOW ROAD, 0.25 MILES WEST OF CASTLE ROCK AND 0.75 MILES EAST OF BM 539.

Detailed Location:
SITE 300. MAPPED ACCORDING TO PROVIDED COORDINATES, THOUGH ROB11D0001 COORDINATES DO NOT APPEAR TO MATCH HABITAT DESCRIPTION.

Ecological:
OVERFLOW POND FOR SEWAGE LAGOON. POND ALSO SOMETIMES RECEIVES UPWELLING OF GROUNDWATER. DECEASED INDIVIDUAL FOUND IN RIDGE-TOP GRASSLAND. CTS LIKELY IN UPLAND HABITAT SURROUNDING THIS SITE DURING MOST OF THE YEAR; MAMMAL BURROWS IN AREA.

Threats:
POSSIBLE THREATS ARE EXPLOSIVE TESTING AND VEHICLE ACTIVITY.

General:
3 ADULTS OBSERVED ON 21 FEB 1995. 1 FEMALE CAPTURED/RELEASED ON 17 JAN 1996. 3 LARVAE OBSERVED ON 2 APR 2010 WITH USE OF DIP NET AND REVISITED ON 16 APR. 1 ADULT FOUND DEAD AND COLLECTED ON 11 APR 2013.

PLSS: T03S, R04E, Sec. 26 (M) **Accuracy:** specific area **Area (acres):** 15
UTM: Zone-10 N4166474 E632770 **Latitude/Longitude:** 37.63581 / -121.49522 **Elevation (feet):** 540

County Summary: San Joaquin **Quad Summary:** Tracy (3712164)

- Sources:**
- ROB11D0001 ROBERTSON, T. (CONDOR COUNTRY CONSULTING) - EXCEL TABLE OF OBSERVATIONS MADE DURING 2010 AND 2011 IN CENTRAL CALIFORNIA 2011-11-XX
 - WOO13F0002 WOOLLETT, J. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - FIELD SURVEY FORM FOR AMBYSTOMA CALIFORNIENSE 2013-04-11
 - WOO95F0011 WOOLLETT, J. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - FIELD SURVEY FORM FOR AMBYSTOMA CALIFORNIENSE 1995-02-21
 - WOO97R0001 WOOLLETT, J. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - SCIENTIFIC COLLECTING REPORT OF SPECIMENS CAPTURED OR SALVAGED [SC-002407] NEAR LAWRENCE LIVERMORE NATIONAL LAB SITE 300, 1996-1997. 1997-11-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 32321
Key Quad: Tracy (3712164)
Occurrence Number: 52

EO Index: 2701
Element Code: AAABF02020
Occurrence Last Updated: 2015-06-10

Scientific Name: *Spea hammondi*

Common Name: western spadefoot

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

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

General Habitat:

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

Micro Habitat:

VERNAL POOLS ARE ESSENTIAL FOR BREEDING AND EGG-LAYING.

Last Date Observed: 2010-03-05
Last Survey Date: 2010-03-05
Owner/Manager: DFG, DOE
Presence: Presumed Extant

Occurrence Type: Natural/Native occurrence
Occurrence Rank: Excellent
Trend: Stable

Location:

CORRAL HOLLOW IN THE VICINITY OF CASTLE ROCK AND CASTLE ROCK FIRE STATION, SSW OF TRACY.

Detailed Location:

SPECIMENS W/GENERAL LOCALITY LIKE "CORRAL HOLLOW" ATTRIBUTED HERE; ALSO THOSE FROM CORRAL HOLLOW RD, 3-4 MI E OF THE COUNTY LINE. 1992 DETECTIONS AT CORRAL HOLLOW ECOLOGICAL RESERVE. 2010 DETECTION ON LAWRENCE LIVERMORE NAT'L LAB PROPERTY.

Ecological:

AREA NOT OPEN FOR PUBLIC ACCESS. VALLEY Foothill RIPARIAN SURROUNDED BY GRASSLAND. BUFO BOREAS, HYLA REGILLA, AND RANA AURORA TADPOLES ALSO FOUND AT THIS SITE IN 1992.

Threats:

THREATENED BY SILTATION FROM NEARBY SVRA & ROAD MORTALITY.

General:

SPECIMENS COLLECTED IN 1956, '59, '62, '68, '70, '77, '81, '83, '85, '87, '88, '96, & UNK DATE. TADPOLES & JUVENILES OBSERVED IN 1992. 7 ADULTS FOUND IN MAR 1995. 3 SEEN IN MAR 1999. 1 DOR COLLECTED MAR 2001. TADPOLES FOUND IN MAR 2010.

PLSS: T03S, R04E, Sec. 25 (M)

Accuracy: 3/5 mile

Area (acres): 0

UTM: Zone-10 N4167186 E633070

Latitude/Longitude: 37.64219 / -121.49169

Elevation (feet): 475

County Summary:

San Joaquin

Quad Summary:

Tracy (3712164), Midway (3712165)



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



Sources:

AND56S0009	ANDERSON, J. - MVZ #65641, 65642, & 65643, COLLECTED FROM "CORRAL HOLLOW." 1956-04-30
AND59S0001	ANDERSON, J. - MVZ #68255, COLLECTED FROM "CORRAL HOLLOW." 1959-04-29
BOU87S0003	BOUNDY, J. & A. FORD - SJSU #188110, COLLECTED FROM "CENT. CORRAL HOLLOW, SAN JOAQUIN CO., CA." 1987-05-15
BRA59S0002	BRADFORD, C. - CAS HERP #86190, COLLECTED FROM "CORRAL HOLLOW." 1959-XX-XX
BRO92F0027	BRODE, J. & M. WORKMAN (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR SPEA HAMMONDII 1992-03-26
BUC96S0001	BUCHHOLZ, D. - MVZ #234174, COLLECTED FROM "CORRAL HOLLOW." 1996-11-17
CRI59S0002	CRIPPEN, R. & C. DONOVAN - MVZ #68138, 68139, 68140, & 68141, COLLECTED FROM "CORRAL HOLLOW." 1959-04-11
EDW85R0001	EDWARDS, K. - SCIENTIFIC COLLECTING REPORT OF SPECIMENS CAPTURED OR SALVAGED [SC-002296]. 1985-XX-XX
ELY01F0002	ELY, E. - FIELD SURVEY FORM FOR SPEA HAMMONDII 2001-02-19
ELY01S0003	ELY, F. & E. ELY - CAS HERP #218644 COLLECTED FROM CORRAL HOLLOW RD AT THE CASTLE ROCK FIRE STATION. 2001-03-04
HER88S0001	HERLOCKER, D. - CAS HERP #174099, COLLECTED FROM "CORRAL HOLLOW RD, 12.3 MI E OF GREENVILLE RD." 1988-04-08
JOH68S0003	JOHNSON, A. - MVZ #84588, COLLECTED FROM "CORRAL HOLLOW RD., ATOMIC RESEARCH CENTER AREA, CORRAL HOLLOW." 1968-05-14
KAR56S0004	KARLSTROM, E. - MVZ #68055, COLLECTED FROM "CORRAL HOLLOW." 1956-05-01
MAC87S0003	MACEY, J. - MVZ #227643 & 227644, COLLECTED FROM "CORRAL HOLLOW RD., 3.1 MI E ALAMEDA COUNTY LINE." 1987-05-06
ROB11D0001	ROBERTSON, T. (CONDOR COUNTRY CONSULTING) - EXCEL TABLE OF OBSERVATIONS MADE DURING 2010 AND 2011 IN CENTRAL CALIFORNIA 2011-11-XX
RUT70S0003	RUTH, S. - MVZ #88578, COLLECTED FROM "CORRAL HOLLOW, 4.0 MI E SAN JOAQUIN AND ALAMEDA COUNTY LINE." 1970-01-13
RUT70S0004	RUTH, S. - MVZ #88579, COLLECTED FROM "CORRAL HOLLOW, 4.0 MI E SAN JOAQUIN AND ALAMEDA COUNTY LINE." 1970-01-13
SEI81S0001	SEIB, R. - MVZ #176788 & 176789, COLLECTED FROM "CORRAL HOLLOW RD." 1981-12-18
SEI83S0001	SEIB, R. - MVZ #191466, COLLECTED FROM "CORRAL HOLLOW RD." 1983-09-08
SWE77S0003	SWEET, S. & J. CADLE - MVZ #145187, COLLECTED FROM "CORRAL HOLLOW, 3 MI E SAN JOAQUIN COUNTY LINE." 1977-03-15
TEB62S0001	TEBERG, E. - MVZ #229915, COLLECTED FROM "CA. 14 MI E LIVERMORE." 1962-06-05
WOO04U0001	WOOLLETT, J.S. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - SCIENTIFIC COLLECTING REPORT OF SPECIMENS CAPTURED OR SALVAGED [SC-002987] 2004-03-23
WOO95F0008	WOOLLETT, J. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - FIELD SURVEY FORM FOR SPEA HAMMONDII 1995-03-22
WOO95F0009	WOOLLETT, J. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - FIELD SURVEY FORM FOR SPEA HAMMONDII 1995-03-22
WOR92F0006	WORKMAN, M. & T. KING - FIELD SURVEY FORM FOR SPEA HAMMONDII 1992-05-18
WOR92F0007	WORKMAN, M. & T. KING - FIELD SURVEY FORM FOR SPEA HAMMONDII 1992-04-13
WOR92F0008	WORKMAN, M. & T. KING - FIELD SURVEY FORM FOR SPEA HAMMONDII 1992-04-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 17126
Key Quad: Tracy (3712164)
Occurrence Number: 26

EO Index: 9603
Element Code: AAABH01022
Occurrence Last Updated: 2009-04-23

Scientific Name: *Rana draytonii*

Common Name: California red-legged frog

Listing Status: **Federal:** Threatened
State: None
CNDDDB Element Ranks: **Global:** G2G3
State: S2S3

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern
IUCN_VU-Vulnerable

General Habitat:

LOWLANDS & FOOTHILLS IN OR NEAR PERMANENT SOURCES OF DEEP WATER WITH DENSE, SHRUBBY OR EMERGENT RIPARIAN VEGETATION.

Micro Habitat:

REQUIRES 11-20 WEEKS OF PERMANENT WATER FOR LARVAL DEVELOPMENT. MUST HAVE ACCESS TO ESTIVATION HABITAT.

Last Date Observed: 2008-02-12
Last Survey Date: 2008-02-12
Owner/Manager: PVT
Presence: Presumed Extant

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

Location:
CORRAL HOLLOW CREEK AT 4TH BRIDGE UPSTREAM FROM HWY 580. SITE IS ABOUT 0.5 MI DOWNSTREAM FROM CORRAL HOLLOW ECO RESERVE.

Detailed Location:

Ecological:
MIXED RIPARIAN & EMERGENT HERBACEOUS VEGETATION. INTERMITTENT STREAM; PARTIALLY SILTED POND W/ CATTAILS & ALGAE. WATER <2 FT DEEP. ONLY STANDING WATER WAS THIS POND & ONE ON DOWNSTREAM SIDE OF BRIDGE IN 10/90.

Threats:
LIVESTOCK GRAZING. INTRODUCED FISH (GAMBUSIA).

General:
1 SUBADULT SIGHTED AMONG VEGETATION IN SHADE OF DOWNED TREE LIMB ON 10/09/90. 1 OBSERVED 3/12/93, 3 OBSERVED 4/20/93 & 3 SEEN 5/10/93. A. MARMORATA ALSO FOUND HERE. 1 CAPTURED & RELEASED ON 9 MAR 2000. 1 LARGE JUVENILE OBS 12 FEB 2008.

PLSS: T03S, R04E, Sec. 24 (M)	Accuracy: nonspecific area	Area (acres): 64
UTM: Zone-10 N4168732 E633410	Latitude/Longitude: 37.65607 / -121.48755	Elevation (feet): 400

County Summary:

San Joaquin

Quad Summary:

Tracy (3712164)

Sources:

- BRO90F0001 BRODE, J.M. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR RED-LEGGED FROG 1990-10-09
- CRO08F0003 CROUCH, K. (PADRE ASSOCIATES, INC.) - FIELD SURVEY FORM FOR RANA DRAYTONII 2008-02-12
- ELY93F0033 ELY, E. - FIELD SURVEY FORM FOR RANA DRAYTONII 1993-03-12
- ELY93F0034 ELY, E. - FIELD SURVEY FORM FOR RANA DRAYTONII 1993-04-20
- ELY93F0052 ELY, E. - FIELD SURVEY FORM FOR CLEMMYS MARMORATA (2 SITES) & RANA DRAYTONII 1993-05-10
- WOO04U0001 WOOLLETT, J.S. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - SCIENTIFIC COLLECTING REPORT OF SPECIMENS CAPTURED OR SALVAGED [SC-002987] 2004-03-23



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 24869
Key Quad: Tracy (3712164)
Occurrence Number: 72

EO Index: 20823
Element Code: AAABH01022
Occurrence Last Updated: 2009-04-23

Scientific Name: *Rana draytonii*

Common Name: California red-legged frog

Listing Status: **Federal:** Threatened
 State: None
CNDDDB Element Ranks: **Global:** G2G3
 State: S2S3

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern
 IUCN_VU-Vulnerable

General Habitat:

LOWLANDS & FOOTHILLS IN OR NEAR PERMANENT SOURCES OF DEEP WATER WITH DENSE, SHRUBBY OR EMERGENT RIPARIAN VEGETATION.

Micro Habitat:

REQUIRES 11-20 WEEKS OF PERMANENT WATER FOR LARVAL DEVELOPMENT. MUST HAVE ACCESS TO ESTIVATION HABITAT.

Last Date Observed: 2001-03-04
Last Survey Date: 2001-03-04
Owner/Manager: DFG-CORRAL HOLLOW ER
Presence: Presumed Extant

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

Location:
 CORRAL HOLLOW CREEK, JUST WEST OF CORRAL HOLLOW ROAD, CORRAL HOLLOW ECOLOGICAL RESERVE, 18 MILES EAST OF LIVERMORE.

Detailed Location:
Ecological:
 HABITAT CONSISTS OF COTTONWOODS AND WILLOWS ALONG THE CREEK; SURROUNDING AREA IS GRASSLAND.

Threats:
 THREATENED BY SILTATION CREATED BY AN ORV PARK UPSTREAM AND ROAD MORTALITY.

General:
 1976: MANY CRLF RESIDENT HERE. 3 MAY 1989: CREEK DRY FROM HEADWATERS TO ABOUT 0.5 MI BELOW ECO RESERVE. 4 VISITS 26 MAR-18 MAY 1992 YIELDED ONLY 1 ADULT FROG. 7 ADULTS OBS 22 MAR 1995. 1 ADULT DOR COLLECTED (CAS#218643) AT NIGHT 4 MAR 2001.

PLSS: T03S, R04E, Sec. 25 (M)	Accuracy: nonspecific area	Area (acres): 38
UTM: Zone-10 N4167296 E633062	Latitude/Longitude: 37.64318 / -121.49176	Elevation (feet): 500

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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- Sources:**
- BRO89F0002 BRODE, J.M. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR RANA DRAYTONII IN CORRAL HOLLOW ECOLOGICAL RESERVE. 1989-05-03
 - BRO92F0005 BRODE, J. & M. WORKMAN (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR RANA DRAYTONII 1992-03-26
 - ELY01F0008 ELY, E. - FIELD SURVEY FORM FOR RANA DRAYTONII 2001-03-04
 - KIN92F0001 KING, J.T. & M. WORKMAN (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR RANA DRAYTONII 1992-05-18
 - WOO95F0015 WOOLLETT, J. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - FIELD SURVEY FORM FOR RANA DRAYTONII 1995-03-22
 - WOO95F0016 WOOLLETT, J. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - FIELD SURVEY FORM FOR RANA DRAYTONII 1995-03-22
 - WOR92F0004 WORKMAN, M. & T. KING (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR RANA DRAYTONII 1992-03-26
 - WOR92F0005 WORKMAN, M. & T. KING (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR RANA DRAYTONII 1992-04-29



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



Map Index Number: 47188
Key Quad: Tracy (3712164)
Occurrence Number: 487

EO Index: 47188
Element Code: AAABH01022
Occurrence Last Updated: 2002-02-06

Scientific Name: *Rana draytonii*

Common Name: California red-legged frog

Listing Status: **Federal:** Threatened
 State: None
CNDDDB Element Ranks: **Global:** G2G3
 State: S2S3

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern
 IUCN_VU-Vulnerable

General Habitat:

LOWLANDS & FOOTHILLS IN OR NEAR PERMANENT SOURCES OF DEEP WATER WITH DENSE, SHRUBBY OR EMERGENT RIPARIAN VEGETATION.

Micro Habitat:

REQUIRES 11-20 WEEKS OF PERMANENT WATER FOR LARVAL DEVELOPMENT. MUST HAVE ACCESS TO ESTIVATION HABITAT.

Last Date Observed: 2001-03-04
Last Survey Date: 2001-03-04
Owner/Manager: PVT-GALLO RANCH
Presence: Presumed Extant

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

Location:
CORRAL HOLLOW CREEK, 0.5 MILE SW OF CASTLE ROCK, SW OF TRACY.

Detailed Location:

Ecological:

HABITAT CONSISTS OF AGRICULTURAL AREAS/HORSE FARMS, WITH VARIOUS EMERGENT SHORT GRASSES, GRAVELLY AREAS NEAR ROADSIDE DITCHES, AND VARIOUS OAKS.

Threats:

THREATENED BY TRAFFIC DURING MIGRATION.

General:

1 INDIVIDUAL OBSERVED ON 4 MAR 2001 ON THE ROADWAY.

PLSS: T03S, R04E, Sec. 35 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4166163 E632393	Latitude/Longitude: 37.63307 / -121.49955	Elevation (feet): 680

County Summary:

San Joaquin

Quad Summary:

Tracy (3712164)

Sources:

TAY01F0004 TAYLOR, D.J. - FIELD SURVEY FORM FOR RANA DRAYTONII, AMBYSTOMA CALIFORNIENSE & SPEA HAMMONDII 2001-03-04



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



Map Index Number: 61553
Key Quad: Tracy (3712164)
Occurrence Number: 828

EO Index: 61589
Element Code: AAABH01022
Occurrence Last Updated: 2005-06-09

Scientific Name: *Rana draytonii*

Common Name: California red-legged frog

Listing Status: **Federal:** Threatened
 State: None
CNDDB Element Ranks: **Global:** G2G3
 State: S2S3

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern
 IUCN_VU-Vulnerable

General Habitat:

LOWLANDS & FOOTHILLS IN OR NEAR PERMANENT SOURCES OF DEEP WATER WITH DENSE, SHRUBBY OR EMERGENT RIPARIAN VEGETATION.

Micro Habitat:

REQUIRES 11-20 WEEKS OF PERMANENT WATER FOR LARVAL DEVELOPMENT. MUST HAVE ACCESS TO ESTIVATION HABITAT.

Last Date Observed: 2002-05-05
Last Survey Date: 2002-05-05
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
 CORRAL HOLLOW ROAD, 1.4 ROAD-MILES WEST OF I-580.

Detailed Location:

Ecological:

Threats:

General:

1 DOR ADULT COLLECTED (CAS #223880) AT NIGHT FROM CORRAL HOLLOW ROAD ON 5 MAY 2002.

PLSS: T03S, R04E, Sec. 24 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4168982 E634402	Latitude/Longitude: 37.65818 / -121.47625	Elevation (feet): 325

County Summary:

San Joaquin

Quad Summary:

Tracy (3712164)

Sources:

ELY02F0002 ELY, E. - FIELD SURVEY FORM FOR RANA DRAYTONII 2002-05-05



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 74472
Key Quad: Tracy (3712164)
Occurrence Number: 1053

EO Index: 75468
Element Code: AAABH01022
Occurrence Last Updated: 2009-04-09

Scientific Name: *Rana draytonii*

Common Name: California red-legged frog

Listing Status: **Federal:** Threatened
 State: None
CNDDDB Element Ranks: **Global:** G2G3
 State: S2S3

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern
 IUCN_VU-Vulnerable

General Habitat:

LOWLANDS & FOOTHILLS IN OR NEAR PERMANENT SOURCES OF DEEP WATER WITH DENSE, SHRUBBY OR EMERGENT RIPARIAN VEGETATION.

Micro Habitat:

REQUIRES 11-20 WEEKS OF PERMANENT WATER FOR LARVAL DEVELOPMENT. MUST HAVE ACCESS TO ESTIVATION HABITAT.

Last Date Observed: 1997-01-29
Last Survey Date: 1997-01-29
Owner/Manager: DOE-LAWRENCE LIVERMORE LAB
Presence: Presumed Extant

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

Location:
 0.33 AIR MI WSW OF CASTLE ROCK, JUST N OF CORRAL HOLLOW RD, LAWRENCE LIVERMORE NATIONAL LABORATORY SITE 300.

Detailed Location:
Ecological:
 OVERFLOW POND FOR SEWAGE POND. ALSO RECEIVES GROUNDWATER UPWELLING ON OCCASION.

Threats:
General:
 5 BREEDING ADULTS WERE OBSERVED ON 22 MAR 1994. 1 FEMALE WAS CAPTURED AND RELEASED ON 29 JAN 1997.

PLSS: T03S, R04E, Sec. 26 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4166403 E632724	Latitude/Longitude: 37.63518 / -121.49574	Elevation (feet): 540

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
 WOO95F0014 WOOLLETT, J. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - FIELD SURVEY FORM FOR RANA DRAYTONII 1995-03-22
 WOO97R0001 WOOLLETT, J. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - SCIENTIFIC COLLECTING REPORT OF SPECIMENS CAPTURED OR SALVAGED [SC-002407] NEAR LAWRENCE LIVERMORE NATIONAL LAB SITE 300, 1996-1997. 1997-11-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 75065
Key Quad: Tracy (3712164)
Occurrence Number: 786

EO Index: 76064
Element Code: AAABH01050
Occurrence Last Updated: 2009-06-19

Scientific Name: *Rana boylei*

Common Name: foothill yellow-legged frog

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

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_NT-Near Threatened
 USFS_S-Sensitive

General Habitat:
 PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.

Micro Habitat:
 NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Last Date Observed: 1971-05-29
Last Survey Date: 1971-05-29
Owner/Manager: DFG-CORRAL HOLLOW ER, OTHER
Presence: Presumed Extant

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

Location:
 ALONG CORRAL HOLLOW CREEK & CORRAL HOLLOW ROAD, FROM CASTLE ROCK TO BLACK BUTTE.

Detailed Location:
 MVZ STATED LOCALITY: "CORRAL HOLLOW CREEK, 4.0 MI E OF ALAMEDA COUNTY LINE; SAN JOAQUIN COUNTY." AND "CORRAL HOLLOW, 5.3 MI E ALAMEDA CO. LINE; SAN JOAQUIN CO."

Ecological:
Threats:

General:
 1 FROG COLLECTED ON 24 APR 1971 (MVZ 99240). 23 TADPOLES COLLECTED ON 15 MAY 1971 (MVZ 98194). 7 TADPOLES COLLECTED ON 29 MAY 1971 (MVZ 98191).

PLSS: T03S, R04E, Sec. 24 (M)	Accuracy: nonspecific area	Area (acres): 125
UTM: Zone-10 N4168077 E633318	Latitude/Longitude: 37.65018 / -121.48871	Elevation (feet): 390

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
 MVZ71S0021 MUSEUM OF VERTEBRATE ZOOLOGY (UNIVERSITY OF CALIFORNIA, BERKELEY) - PRINTOUT OF RANA BOYLII MUSEUM COLLECTION (MVZ 98191, 98194, 99240). 1971-05-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11557	EO Index: 27288	
Key Quad: Lathrop (3712173)	Element Code: ABNKC19070	
Occurrence Number: 17	Occurrence Last Updated: 2013-08-08	

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1994-07-28	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-07-28	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTHEAST QUARDANT OF I-5 AND KASSON ROAD, EAST OF BANTA.

Detailed Location:
MAPPED TO VICINITY OF TERRITORIES SJ007 & SJ078 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. FEATURE REPRESENTS 2 NEST SITES, BOTH ACTIVE 1994; 1 NEAR FRONT ENTRANCE TO DEUEL INSTITUTE, 2ND NEAR TOM PAINE SLOUGH.

Ecological:
NEST IN FRONT OF DEUEL INSTITUTE IN MATURE EUCALYPTUS. SURROUNDING HABITAT RIPARIAN, AGRICULTURE.

Threats:
General:
TWO ADULTS OBSERVED, BUT NO NEST FOUND IN 1979; NO BIRDS OR NESTS FOUND IN 1982. 2 NESTING PAIRS OBSERVED IN 1994, SUCCESS UNKNOWN.

PLSS: T02S, R06E, Sec. 20 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4179399 E646580	Latitude/Longitude: 37.75016 / -121.33615	Elevation (feet): 20

County Summary: San Joaquin	Quad Summary: Vernalis (3712163), Lathrop (3712173)
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Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11685	EO Index: 27140	
Key Quad: Vernalis (3712163)	Element Code: ABNKC19070	
Occurrence Number: 159	Occurrence Last Updated: 2013-08-08	

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1988-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
RED BRIDGE SLOUGH ABOUT 0.5 MI FROM THE SAN JOAQUIN R & 1.3 MI NW OF AIRPORT WY AT RIVER JUNCTION FARMS (MORTENSEN) RD.

Detailed Location:
TERRITORY SJ026 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE.

Ecological:
1984-1985 NEST 35' UP IN A COTTONWOOD. 1987-1988 NEST 36' UP IN AN OAK. SURROUNDINGS RIPARIAN, AGRICULTURAL.

Threats:
General:
3 ADULTS OBSERVED IN 1981. NESTING PAIR OBSERVED IN 1984. PAIR PRODUCED AT LEAST 1 YOUNG IN 1985. 2 ADULTS OBSERVED IN 1986, BUT NO ACTIVE NEST FOUND. NESTING PAIR PRODUCED 1 YOUNG IN 1987 AND 1988.

PLSS: T03S, R06E, Sec. 01 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4174839 E653308	Latitude/Longitude: 37.70798 / -121.26078	Elevation (feet): 20

County Summary: San Joaquin	Quad Summary: Vernalis (3712163)
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Sources:

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

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



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11668	EO Index: 27134
Key Quad: Vernalis (3712163)	Element Code: ABNKC19070
Occurrence Number: 163	Occurrence Last Updated: 2013-08-23

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1990-05-25	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1990-05-25	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST S OF AIRPORT WAY BRIDGE OVER THE SAN JOAQUIN RIVER, SE OF SAN JOAQUIN RIVER CLUB.

Detailed Location:
MAPPED TO VICINITY OF TERRITORIES SJ017 & SJ027 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE. FEATURE REPRESENTS MULTIPLE NEST SITES ON THE EAST SIDE OF KASSON RD, UP TO 0.25 MILES SOUTH OF AIRPORT WAY.

Ecological:
1983 & 1984 NEST TREES WERE OAKS. 1987 NESTS IN WILLOW NEAR RIVER & 80' VALLEY OAK NEAR KASSON RD. 1988 NEST IN WILLOW. 1990 NEST IN VALLEY OAK.

Threats:
POSSIBLY THREATENED BY CLEARING ACTIVITY; OWNER HAD INTENTIONS OF DEVELOPING A RECREATION AREA IN 1990.

General:
2 DEFENSIVE ADULTS IN TREE WITH 2 NESTS 14 MAY 1983. 2 ADULTS; FEMALE ON NEST 12 JUN 1984. NO ACTIVITY DETECTED 1985-86. 2 NESTS EACH PRODUCED 3 YOUNG IN 1987. NESTING PAIR IN 1988. INCUBATING ADULT IN 1990. ADULTS BUT NO NEST FOUND IN 1994.

PLSS: T03S, R06E, Sec. 13 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4170928 E652894	Latitude/Longitude: 37.67281 / -121.26629	Elevation (feet): 25

County Summary: San Joaquin	Quad Summary: Vernalis (3712163)
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Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
GIF87U0001	GIFFORD, D. - NOTE TO NDDDB GIVING LOCATION OF A SWAINSON'S HAWK NEST. 1987-07-03
GIF90F0001	GIFFORD, D. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1990-05-25



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



Map Index Number:	11679	EO Index:	27044
Key Quad:	Vernalis (3712163)	Element Code:	ABNKC19070
Occurrence Number:	264	Occurrence Last Updated:	2013-08-09

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

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

Last Date Observed:	1994-07-29	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1994-07-29	Occurrence Rank:	Unknown
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ABOUT 0.5 MILES SW OF KASSON ROAD AT GREENWOOD ROAD, NEAR THE STANISLAUS RIVER.

Detailed Location:
 TERRITORY ST002 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE, EXACT LOCATION UNKNOWN.

Ecological:
 1994 NEST 15' UP IN A WALNUT, IN SMALL GROUP OF WALNUT TREES AT THE EDGE OF AN ONION FIELD, WITH ALFALFA NEARBY.

Threats:
General:
 1 ADULT OBSERVED IN 1979, BUT NO NEST FOUND. NO BIRDS OR NESTS OBSERVED BETWEEN MAZE & GREENWOOD IN 1982, 1984, OR 1985. NESTING PAIR OBSERVED ON 2 MAY 1994 PRODUCED 3 YOUNG; 2 FLEDGLINGS OBSERVED ON 29 JUL.

PLSS:	T03S, R06E, Sec. 25 (M)	Accuracy:	2/5 mile	Area (acres):	0
UTM:	Zone-10 N4168299 E653214	Latitude/Longitude:	37.64907 / -121.26321	Elevation (feet):	50

County Summary:	Quad Summary:
San Joaquin, Stanislaus	Vernalis (3712163)

Sources:

DFG84U0003	CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11681

EO Index: 27042

Key Quad: Vernalis (3712163)

Element Code: ABNKC19070

Occurrence Number: 266

Occurrence Last Updated: 2013-08-23

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

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

CNDDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

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

Micro Habitat:

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

Last Date Observed: 2003-06-20

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2003-06-20

Occurrence Rank: Unknown

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

JUST EAST OF KASSON ROAD, ABOUT 0.8 MILES SOUTH OF AIRPORT WAY AND 9 MILES SW OF RIPON.

Detailed Location:

1982-1994 DETECTIONS AT TERRITORY SJ014 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE, "0.3 MI S OF [SAN JOAQUIN CITY] MONUMENT ON KASSON RD" OR "0.8 MI S OF AIRPORT WAY & KASSON RD." MAPPED TO COORDINATES FROM 2003 CDFW NEST RECORD.

Ecological:

1982 & 1994 NESTS IN OAKS IN RIPARIAN BAND. 2000 AND 2003 NEST TREES WERE VALLEY OAKS; SURROUNDING FORAGING HABITAT CONSISTED OF RIPARIAN TO THE EAST, AND ROW CROPS TO THE WEST.

Threats:

General:

ADULT OBSERVED ON NEST IN 1982. 3 ADULTS, NO NEST IN 1984. DEFENSIVE PAIR, NO ACTIVE NEST IN 1985. NESTING PAIR, 1987. NEST WITH ADULT & 2 YOUNG, 1994. ADULT TOOK FOOD TO NEST, 5 JUN 2000. ADULT TOOK FOOD TO 2 CHICKS IN NEST, 20 JUN 2003.

PLSS: T03S, R06E, Sec. 24 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4170157 E653566

Latitude/Longitude: 37.66576 / -121.25884

Elevation (feet): 30

County Summary:

San Joaquin

Quad Summary:

Vernalis (3712163)

Sources:

- DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX
- DFG84U0003 CALIFORNIA DEPARTMENT OF FISH & GAME - SWAINSON'S HAWK NEST RECORDS FROM DFG NONGAME BIRDS & MAMMALS SECTION (WILDLIFE BRANCH); MISSING. 1984-10-XX
- DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX
- GIF00F0005 GIFFORD, D. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE-REGION 2) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2000-06-05



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 36025	EO Index: 31023	
Key Quad: Vernalis (3712163)	Element Code: ABNKC19070	
Occurrence Number: 688	Occurrence Last Updated: 2013-09-06	

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1997-06-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-06-19	Occurrence Rank: Good
Owner/Manager: SJQ COUNTY	Trend: Unknown
Presence: Presumed Extant	

Location:
EAST SIDE OF THE SAN JOAQUIN RIVER, ON THE NORTH EDGE OF DURHAM FERRY SRA, AT THE END OF S AIRPORT WAY.

Detailed Location:
VICINITY OF TERRITORY SJ088 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE, "NEAR GROUP CAMPING AREA" IN DURHAM FERRY SRA. MAPPED TO LOCATIONS FOR 2 NESTS CONCURRENTLY ACTIVE IN 1997, FROM FIELD SURVEY FORMS.

Ecological:
1994 & 1997 NESTS IN COTTONWOODS. HABITAT CONSISTED OF RIPARIAN ADJACENT TO A SLOUGH; VEGETATED BY VALLEY OAK, COTTONWOOD, AND WILLOW. SURROUNDING AREA CONSISTED OF PARK LAND TO THE SOUTH AND AGRICULTURAL TO THE NORTH, EAST, AND WEST.

Threats:

General:
1 ADULT AT NEST OBSERVED ON 2 MAY 1994. 2 ADULTS (1 LIGHT MORPH, 1 DARK MORPH) OBSERVED PERCHED NEAR WEST NEST, AND 1 LIGHT-MORPH ADULT OBSERVED ON EAST NEST ON 19 JUN 1997.

PLSS: T03S, R06E, Sec. 12 (M)	Accuracy: nonspecific area	Area (acres): 35
UTM: Zone-10 N4173362 E652669	Latitude/Longitude: 37.69478 / -121.26833	Elevation (feet): 20

County Summary: San Joaquin	Quad Summary: Vernalis (3712163)
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Sources:

CRO97F0002	CROWE, R. (MOORE BIOLOGICAL CONSULTANTS) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1997-06-19
CRO97F0003	CROWE, R. (MOORE BIOLOGICAL CONSULTANTS) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 1997-06-19
DFG94U0003	DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



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



Map Index Number: 51714
Key Quad: Tracy (3712164)
Occurrence Number: 1215

EO Index: 51714
Element Code: ABNKC19070
Occurrence Last Updated: 2003-07-08

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

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

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

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

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

Last Date Observed: 2003-07-02
Last Survey Date: 2003-07-02
Owner/Manager: PVT
Presence: Presumed Extant

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

Location:
EAST SIDE OF LAMMERERS (FERRY) ROAD, 0.3 MILE NORTH OF SCHULTE ROAD, 2 MILES SW OF TRACY.

Detailed Location:
NEST IS LOCATED AT THE 95% HEIGHT OF THE NEST TREE, WITHIN A ROW OF PINES, ON THE EAST SIDE OF A WIDE, RUDERAL STRIP.

Ecological:
NEST TREE IS A PINE; SURROUNDED BY CULTIVATED LAND (ALFALFA EAST AND WEST) IN ALL DIRECTIONS, EXCEPT FOR A FARMSTEAD TO THE SE.

Threats:
THREATENED BY WESTWARD EXPANSION OF TRACY.

General:
2 ADULTS OBSERVED VIGOROUSLY DEFENDING THE NEST ON 2 JUL 2003.

PLSS: T02S, R05E, Sec. 31 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4176331 E634263	Latitude/Longitude: 37.72441 / -121.47648	Elevation (feet): 85

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
RES03F0024 RESSEGUIE, L. - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2003-07-02



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



Map Index Number:	51766	EO Index:	51766
Key Quad:	Union Island (3712174)	Element Code:	ABNKC19070
Occurrence Number:	1228	Occurrence Last Updated:	2003-07-15

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

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

Last Date Observed:	2003-04-26	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2003-04-26	Occurrence Rank:	Good
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
SOUTH SIDE OF VAN SOSTEN ROAD, 0.25 MILE EAST OF THE PEW ROAD INTERSECTION, 3 MILES WEST OF TRACY.

Detailed Location:
NEST TREE IS WITHIN A GROUP OF EUCALYPTUS TREES ASSOCIATED WITH A FARM COMPLEX; SURROUNDED BY AGRICULTURE.

Threats:
THREATENED BY AGRICULTURE & HOME DEVELOPMENT.

General:
2 ADULTS OBSERVED NESTING ON 26 APR 2003.

PLSS: T02S, R04E, Sec. 24 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4179176 E632635	Latitude/Longitude: 37.75028 / -121.49443	Elevation (feet): 50

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164), Union Island (3712174)

Sources:
YOR03F0001 YORK, R. & A. ERICHSEN (CALIFORNIA ENERGY COMMISSION) - FIELD SURVEY FORM FOR BUTEO SWAINSONI (NEST SITE) 2003-04-26



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64174
Key Quad: Tracy (3712164)
Occurrence Number: 1618

EO Index: 64269
Element Code: ABNKC19070
Occurrence Last Updated: 2006-03-08

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

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

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

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

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

Last Date Observed: 2002-07-17
Last Survey Date: 2002-07-17
Owner/Manager: PVT
Presence: Presumed Extant

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

Location:
 0.1 MILE EAST OF SOUTH BANTA ROAD AND 0.25 MILE NORTH OF WEST 11TH STREET, EAST OF TRACY.

Detailed Location:
Ecological:
 NEST TREE WAS A WILLOW; SURROUNDED BY ROW CROPS IN ALL DIRECTIONS.

Threats:
 THREATENED BY ADJACENT DEVELOPMENT (TO THE WEST).

General:
 PROBABLE NESTING OBSERVED ON 20 APR; INCUBATING ADULT OBSERVED ON 3 JUN; 3 HEADS WERE VISIBLE IN THE NEST ON 3 JUN; 2 ADULTS AND 2 JUVENILES OBSERVED IN THE FIELD ACROSS THE STREET ON 17 JUL 2002.

PLSS: T02S, R05E, Sec. 24 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4178609 E642910	Latitude/Longitude: 37.74362 / -121.37795	Elevation (feet): 42

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:
 DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 64669	EO Index: 64748
Key Quad: Vernalis (3712163)	Element Code: ABNKC19070
Occurrence Number: 1624	Occurrence Last Updated: 2006-05-11

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2002-07-17	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-07-17	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
1 MILE SW OF THE INTERSECTION OF KASSON ROAD AND I-5, EAST OF TRACY.

Detailed Location:
Ecological:
NEST TREE WAS A LARGE VALLEY OAK IN THE MIDDLE OF A FIELD; SURROUNDED BY ROW CROPS IN ALL DIRECTIONS.

Threats:
General:
2 ADULTS OBSERVED IN THE NEST TREE (1 ON NEST) ON 3 JUN; 2 CHICKS PERCHED IN THE FIELD ON 27 JUN, 1 FLEW TO NEST; 1 ADULT AND 1 JUVENILE OBSERVED ON 17 JUL 2002.

PLSS: T02S, R06E, Sec. 30 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4178139 E644770	Latitude/Longitude: 37.73910 / -121.35694	Elevation (feet): 35

County Summary: San Joaquin	Quad Summary: Vernalis (3712163)
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Sources:
DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 65497	EO Index: 65576
Key Quad: Vernalis (3712163)	Element Code: ABNKC19070
Occurrence Number: 1647	Occurrence Last Updated: 2006-07-31

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 2002-07-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2002-07-23	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
1.5 MILES SSW OF THE INTERSECTION OF I-5 AND KASSON ROAD, 2 MILES SSE OF BANTA.

Detailed Location:
Ecological:
NEST TREE WAS A VALLEY OAK; SURROUNDED BY ROW CROPS IN ALL DIRECTIONS.

Threats:
General:
SUSPECT NEST FIRST DETECTED ON 20 APR; NESTING ACTIVITY PRESENT ON 3 JUN, 27 JUN, AND 17 JUL 2002, BUT NO CHICKS EVER SEEN.

PLSS: T02S, R06E, Sec. 30 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4176986 E644941	Latitude/Longitude: 37.72869 / -121.35522	Elevation (feet): 50

County Summary: San Joaquin	Quad Summary: Vernalis (3712163)
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Sources:
DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 67094

EO Index: 67243

Key Quad: Vernalis (3712163)

Element Code: ABNKC19070

Occurrence Number: 1666

Occurrence Last Updated: 2006-11-16

Scientific Name: *Buteo swainsoni*

Common Name: Swainson's hawk

Listing Status: **Federal:** None

Rare Plant Rank:

State: Threatened

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

CNDDB Element Ranks: **Global:** G5

State: S3

General Habitat:

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

Micro Habitat:

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

Last Date Observed: 2003-06-30

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2003-06-30

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

SOUTH SIDE OF HIGHWAY 132, 0.5 MILE EAST OF KOSTER ROAD, 9 MILES SE OF TRACY.

Detailed Location:

Ecological:

NEST TREE WAS AN EXOTIC (POPLAR?); SURROUNDED BY ORCHARDS/VINEYARDS TO THE SE AND SW, AND ROW CROPS TO THE NE AND NW.

Threats:

General:

NEST DISCOVERED ON 20 JUN 2003; ADULTS OBSERVED COMING AND GOING FROM THE NEST TREE ON 30 JUN 2003.

PLSS: T03S, R06E, Sec. 33 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4166928 E648642

Latitude/Longitude: 37.63747 / -121.31530

Elevation (feet): 135

County Summary:

Quad Summary:

San Joaquin

Vernalis (3712163)

Sources:

DFG05U0001 CALIFORNIA DEPARTMENT OF FISH & GAME - REGION 2 - ACCESS DATABASE & EXCEL TABLE OF SWAINSON'S HAWK NEST RECORDS FROM 2000-2004. 2005-XX-XX



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



Map Index Number: 69988	EO Index: 70828
Key Quad: Vernalis (3712163)	Element Code: ABNKC19070
Occurrence Number: 1694	Occurrence Last Updated: 2007-09-20

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

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

Last Date Observed: 2006-04-14	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2006-04-14	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NORTH OF HIGHWAY 132, NEAR THE INTERSECTION OF VERNALIS ROAD AND KOSTER ROAD, ~9 MILES SE OF TRACY.

Detailed Location:
Ecological:
NEST TREE IS AN OLD WALNUT.

Threats:
General:
2 ADULTS OBSERVED NESTING.

PLSS: T03S, R06E, Sec. 29 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4167007 E647761	Latitude/Longitude: 37.63833 / -121.32527	Elevation (feet): 152

County Summary: San Joaquin	Quad Summary: Vernalis (3712163)
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Sources:
W0006F0001 WOOLLETT, J. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - FIELD SURVEY FORM FOR BUTEO SWAINSONI 2006-04-14



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 89972	EO Index: 90985
Key Quad: Vernalis (3712163)	Element Code: ABNKC19070
Occurrence Number: 2440	Occurrence Last Updated: 2013-08-08

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1994-05-02	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1994-05-02	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
RED BRIDGE SLOUGH, BETWEEN AIRPORT WAY AND RIVER JUNCTION FARMS (=MORTENSEN) ROAD.

Detailed Location:
TERRITORIES SJ032 AND SJ033 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE.

Ecological:
1986 NEST ON E SIDE SLOUGH, 50' UP IN OAK. 1987 NESTS IN OAKS. 1994 NEST IN MATURE COTTONWOOD ON THE SLOUGH.

Threats:
General:
2 ADULTS & 1 FLEDGLING OBS AT NEST ON 25 JUN 1986. 2 NESTING PAIRS OBSERVED IN 1987 & 1988. NESTING PAIR OBSERVED ON 2 MAY 1994.

PLSS: T03S, R06E, Sec. 12 (M)	Accuracy: nonspecific area	Area (acres): 178
UTM: Zone-10 N4173294 E654016	Latitude/Longitude: 37.69394 / -121.25307	Elevation (feet): 25

County Summary: San Joaquin	Quad Summary: Ripon (3712162), Vernalis (3712163)
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Sources:
DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 89973	EO Index: 90986
Key Quad: Vernalis (3712163)	Element Code: ABNKC19070
Occurrence Number: 2441	Occurrence Last Updated: 2013-08-09

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

General Habitat: BREEDS IN GRASSLANDS WITH SCATTERED TREES, JUNIPER-SAGE FLATS, RIPARIAN AREAS, SAVANNAHS, & AGRICULTURAL OR RANCH LANDS WITH GROVES OR LINES OF TREES.	Micro Habitat: REQUIRES ADJACENT SUITABLE FORAGING AREAS SUCH AS GRASSLANDS, OR ALFALFA OR GRAIN FIELDS SUPPORTING RODENT POPULATIONS.
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Last Date Observed: 1988-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1988-XX-XX	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ALONG AIRPORT WAY, E SIDE SAN JOAQUIN RIVER ABOUT 0.3 MILES SW OF THE DIVISION ROAD JUNCTION AND 7 MILES SW OF RIPON.

Detailed Location:
TERRITORY SJ034 FROM CDFW SWAINSON'S HAWK OBSERVATIONS DATABASE, MAPPED TO APPARENT HABITAT NEAREST GIVEN TRS, NE1/4 NE1/4 SEC 13, AND LOCATION DESCRIPTIONS "AIRPORT WAY/DIVISION" AND "1/4 MI S DURHAM FERRY CP ALONG AIRPORT WAY."

Ecological:
HABITAT DESCRIBED AS RIPARIAN, CROPLAND.

Threats:
General:
NEST WITH PAIR AND 2 YOUNG OBSERVED IN 1987. 2 ADULTS AT NEST OBSERVED IN 1988.

PLSS: T03S, R06E, Sec. 12 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4171985 E653987	Latitude/Longitude: 37.68215 / -121.25367	Elevation (feet): 30

County Summary: San Joaquin	Quad Summary: Ripon (3712162), Vernalis (3712163)
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Sources:
DFG94U0003 DFG - NONGAME BIRDS & MAMMALS - TABLE OF SWAINSON'S HAWK NEST RECORDS THROUGH 1994. 1994-XX-XX



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



Map Index Number:	11753	EO Index:	72735
Key Quad:	Ripon (3712162)	Element Code:	ABNKD06030
Occurrence Number:	18	Occurrence Last Updated:	2008-07-31

Scientific Name:	<i>Falco columbarius</i>	Common Name:	merlin
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G5 State: S3S4	Other Lists:	CDFW_WL-Watch List IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
SEACOAST, TIDAL ESTUARIES, OPEN WOODLANDS, SAVANNAHS, EDGES OF GRASSLANDS & DESERTS, FARMS & RANCHES.	CLUMPS OF TREES OR WINDBREAKS ARE REQUIRED FOR ROOSTING IN OPEN COUNTRY.

Last Date Observed:	1991-12-29	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1991-12-29	Occurrence Rank:	Excellent
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
NEAR THE CONFLUENCE OF THE SAN JOAQUIN & STANISLAUS RIVERS.

Detailed Location:
LOCATION GIVEN AS "FAITH RANCH OWNED BY ROBERT GALLO" (OF E & J GALLO). ADDITIONAL INFORMATION GIVES FAITH RANCH AS "12 MI EAST OF MODESTO" AND "THE SOUTH BANK OF THE STANISLAUS RIVER FOR 2 MI UPSTREAM FROM THE SAN JOAQUIN RIVER."

Ecological:
Threats:

General:
1 ADULT MALE OVER-WINTERING ON 29 DEC 1991.

PLSS: T03S, R07E, Sec. 19 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4170153 E655585	Latitude/Longitude: 37.66538 / -121.23596	Elevation (feet): 25

County Summary:	Quad Summary:
San Joaquin, Stanislaus	Ripon (3712162), Vernalis (3712163)

Sources:
CAI91F0002 CAINE, E. - FIELD SURVEY FORM FOR FALCO COLUMBARIUS 1991-12-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11753
Key Quad: Ripon (3712162)
Occurrence Number: 141

EO Index: 25566
Element Code: ABNRB02022
Occurrence Last Updated: 1989-08-10

Scientific Name: *Coccyzus americanus occidentalis*

Common Name: western yellow-billed cuckoo

Listing Status: **Federal:** Threatened
 State: Endangered
CNDDB Element Ranks: **Global:** G5T2T3
 State: S1

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 NABCI_RWL-Red Watch List
 USFS_S-Sensitive
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

RIPARIAN FOREST NESTER, ALONG THE BROAD, LOWER FLOOD-BOTTOMS OF LARGER RIVER SYSTEMS.

Micro Habitat:

NESTS IN RIPARIAN JUNGLES OF WILLOW, OFTEN MIXED WITH COTTONWOODS, W/ LOWER STORY OF BLACKBERRY, NETTLES, OR WILD GRAPE.

Last Date Observed: 1973-06-24
Last Survey Date: 1977-06-30
Owner/Manager: PVT
Presence: Possibly Extirpated

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

Location:
 MOUTH OF STANISLAUS RIVER.

Detailed Location:

Ecological:

Threats:

General:

NUMEROUS CUCKOO OBSERVATIONS FROM 1962-73, REPORTED IN AFN AND AB; 5 INDIVIDUALS OBSERVED IN 1962; ONLY ONE OBSERVED IN 1973.

PLSS: T03S, R07E, Sec. 19 (M)
UTM: Zone-10 N4170153 E655585

Accuracy: 1 mile
Latitude/Longitude: 37.66538 / -121.23596

Area (acres): 0
Elevation (feet): 25

County Summary:

San Joaquin, Stanislaus

Quad Summary:

Ripon (3712162), Vernalis (3712163)

Sources:

GAI77R0001 GAINES, D. - CURRENT STATUS AND HABITAT REQUIREMENTS OF THE YELLOW-BILLED CUCKOO IN CALIFORNIA. ENDANGERED WILDLIFE PROJECT. E-1-1. CALIFORNIA DEPARTMENT OF FISH AND GAME. 1977-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23730
Key Quad: Solyo (3712153)
Occurrence Number: 167

EO Index: 16753
Element Code: ABNSB10010
Occurrence Last Updated: 1993-07-28

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

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

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

General Habitat:

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

Micro Habitat:

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

Last Date Observed: 1992-09-14
Last Survey Date: 1992-09-14
Owner/Manager: PVT-ELWORTHY RANCH
Presence: Presumed Extant

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

Location:

ALONG HOSPITAL CREEK (WASH), 2.7 MILES SW OF I-580 JUNCTION WITH I-5, 7 MILES SW OF VERNALIS.

Detailed Location:

BURROW LOCATED ALONG THE SIDE OF THE WASH.

Ecological:

SURROUNDING FORAGING HABITAT IS GRAZED GRASSLAND.

Threats:

General:

ONE OWL OBSERVED AT BURROW ENTRANCE.

PLSS: T04S, R05E, Sec. 24 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4159302 E643465

Latitude/Longitude: 37.56959 / -121.37545

Elevation (feet): 600

County Summary:

San Joaquin

Quad Summary:

Solyo (3712153), Lone Tree Creek (3712154)

Sources:

MUL92F0007 MULLEN, D.A. & G.A. BEEMAN - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 1992-09-14



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23897
Key Quad: Tracy (3712164)
Occurrence Number: 170

EO Index: 7343
Element Code: ABNSB10010
Occurrence Last Updated: 1993-09-20

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

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

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

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

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

Last Date Observed: 1991-08-11
Last Survey Date: 1991-08-11
Owner/Manager: PVT-LYON'S DEVEL CO
Presence: Presumed Extant

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

Location:
 0.4 MILE SE OF THE INTERSECTION OF JEFFERSON BLVD AND VALPICO ROAD, 2 MILES SOUTH OF TRACY.

Detailed Location:
Ecological:
 HABITAT IS A SMALL (<0.5 ACRE) PIECE OF LAND SURROUNDED BY DISKED FIELD.

Threats:
 THREATENED BY AGRICULTURE AND DEVELOPMENT.

General:
 SITE CONTAINED AN ACTIVE BURROW AND AT LEAST 2 RESIDENT OWLS.

PLSS: T03S, R05E, Sec. 04 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4174366 E638375	Latitude/Longitude: 37.70610 / -121.43022	Elevation (feet): 115

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
 MUL91F0014 MULLEN, D.A. & G.A. BEEMAN - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 1991-08-11



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



Map Index Number: 24674
Key Quad: Tracy (3712164)
Occurrence Number: 201

EO Index: 6557
Element Code: ABNSB10010
Occurrence Last Updated: 1993-11-18

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

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

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

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

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

Last Date Observed: 1992-09-28
Last Survey Date: 1992-09-28
Owner/Manager: UNKNOWN
Presence: Extirpated

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

Location:
BETWEEN DELTA-MENDOTA CANAL AND SCHULTE ROAD, 1.1 MILES WEST OF LAMMERS ROAD, 4 MILES SW OF TRACY.

Detailed Location:
BURROW LOCATED AT MILEPOST 325.3 ALONG AN EXISTING GAS PIPELINE.

Ecological:
HABITAT SURROUNDING THE BURROW CONSISTS OF NON-NATIVE GRASSLAND.

Threats:
General:
2 OWLS WERE FLUSHED FROM A BURROW SITE CONTAINING FEATHERS, PELLETS, AND PREY REMAINS AROUND THE BURROW ENTRANCE. BURROW WAS MONITORED, THEN EXCAVATED (WITH DFG APPROVAL).

PLSS: T02S, R04E, Sec. 35 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4175315 E632485	Latitude/Longitude: 37.71552 / -121.49684	Elevation (feet): 150

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
JEN92F0001 JENNINGS, J. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 1992-09-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 36446
Key Quad: Tracy (3712164)
Occurrence Number: 250

EO Index: 31443
Element Code: ABNSB10010
Occurrence Last Updated: 2014-02-13

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

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

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

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

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

Last Date Observed: 2006-05-29
Last Survey Date: 2006-05-29
Owner/Manager: PVT
Presence: Presumed Extant

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

Location:
 ALONG SOUTHERN PACIFIC RAILROAD, FROM AROUND CORRAL HOLLOW RD EAST TO CENTRAL AVE, TRACY.

Detailed Location:
 BURROWS LOCATED IN RAISED RAILROAD TRACK BERM, SURROUNDED BY A DISKED AGRICULTURAL FIELD. OTHER BURROWS FOUND ALONG THE CEMENT-LINED DITCH BETWEEN THE SCHOOL AND THE HOUSING AREA. MANY SITES OF THIS OCCURRENCE WERE EXTIRPATED BY 2003.

Ecological:
 HABITAT SURROUNDING BURROWS CONSISTED OF AGRICULTURAL FIELDS DOMINATED BY STAR THISTLE AND MUSTARD, WITH SOME AVENA SP. FALLOW FIELDS WERE DEVELOPED INTO RESIDENTIAL HOUSING BY 2003 (GOOGLEEARTH). GROUND SQUIRRELS DETECTED IN AREA IN 2006.

Threats:
 THREATENED BY ROUTINE DISKING BY RAILROAD, PREDATION BY CATS/DOGS, & HUMAN DISTURBANCE. DEVELOPMENT DESTROYED HABITAT.

General:
 5 PAIRS FOUND IN 1991. 1 PAIR IN 1992. 3 PAIRS IN 1993. 2 PAIRS & 9 YOUNG ON 24 JUL 1997. 18 ADULTS ON 4 MAY 1998. 41 ADULTS ON 27 AUG 1998. 5 ADULTS AT BURROWS 3 FEB 2001. 5 ADULTS (3 ESTIMATED PAIRS) ALONG RR 29 MAY 2006.

PLSS: T02S, R05E, Sec. 29 (M)	Accuracy: nonspecific area	Area (acres): 348
UTM: Zone-10 N4176641 E637263	Latitude/Longitude: 37.72676 / -121.44239	Elevation (feet): 70

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:

CRO97F0005 CROWE, R. (MOORE BIOLOGICAL CONSULTANTS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 1997-07-24

CRO98F0006 CROWE, R. (MOORE BIOLOGICAL CONSULTANTS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 1998-05-04

CRO98F0012 CROWE, R. (MOORE BIOLOGICAL CONSULTANTS) - FIELD SURVEY FORM FOR ATHENE (=SPEOTYTO) CUNICULARIA 1998-08-27

DES97U0001 DESANTE, D. ET AL. (THE INSTITUTE FOR BIRD POPULATIONS) - INSTITUTE FOR BIRD POPULATIONS 1991-1993 CENSUS OF BURROWING OWLS IN CALIFORNIA. 1997-10-13

KRA01F0001 KRATVILLE, D. - FIELD SURVEY FORM FOR ATHENE CUNICULARIA HYPUGEA 2001-02-03

WIL09D0003 WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 38274
Key Quad: Tracy (3712164)
Occurrence Number: 259

EO Index: 33281
Element Code: ABNSB10010
Occurrence Last Updated: 1998-03-03

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

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

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

General Habitat:

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

Micro Habitat:

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

Last Date Observed: 1997-10-10
Last Survey Date: 1997-10-10
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:

JUST EAST OF THE INTERSECTION OF I-205 AND THE 11TH STREET ON-RAMP (WHERE IT CROSSES I-205), 3 MILES WEST OF TRACY.

Detailed Location:

BIRDS ARE VISIBLE FROM THE ROAD AND NOT PROTECTED BY FENCING.

Ecological:

HABITAT IS OPEN AND HIGHLY-DISTURBED; LOOKS LIKE A RIGHT-OF-WAY.

Threats:

General:

AT LEAST ONE OWL OBSERVED AT BURROW SITE ON 10 OCT 1997.

PLSS: T02S, R04E, Sec. 24 (M)

Accuracy: 1/10 mile

Area (acres): 0

UTM: Zone-10 N4178183 E632782

Latitude/Longitude: 37.74132 / -121.49294

Elevation (feet): 75

County Summary:

San Joaquin

Quad Summary:

Tracy (3712164)

Sources:

FLA97F0002 FLANNERY, A. (IBIS ENVIRONMENTAL, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 1997-10-10



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 39726
Key Quad: Tracy (3712164)
Occurrence Number: 275

EO Index: 34728
Element Code: ABNSB10010
Occurrence Last Updated: 2014-01-27

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

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

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

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

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

Last Date Observed: 2006-05-29
Last Survey Date: 2006-05-29
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
 ALONG BYRON ROAD, 0.3 MI W AND E OF CORRAL HOLLOW ROAD, BETWEEN I-205 AND DOWNTOWN TRACY.

Detailed Location:
 MAPPED TO PROVIDED COORDINATES, MAPS, ALONG RAILROAD BANK, AND ON "CHURCH LAWN NEAR END OF QUIET PARKING AREA." 2006 BLOCK CODE 4175-635 - LOCATION CODES D, E, F, & G.

Ecological:
 HIGHLY DISTURBED/RUDERAL HABITAT; DOMINANT PLANT SPECIES WAS STAR THISTLE. SURROUNDED BY RECENT HOUSING DEVELOPMENT IN ALL DIRECTIONS. GROUND SQUIRRELS DETECTED WITHIN 100 M OF BURROWS IN 2006. RR RIGHT OF WAY LIKELY PROVIDES ONLY REFUGE.

Threats:
 THREATENED BY RESIDENTIAL DEVELOPMENT; PORTIONS OF SITE EXTIRPATED DUE TO DEVELOPMENT BETWEEN 2002-2003.

General:
 5 PAIRS ESTIMATED AT RR TRACKS 1991-1993. 1 ADULT AT BURROW S OF BYRON RD 3 AUG 1998. 2 BURROW SITES, WITH 2 ADULTS & 1 ADULT, ALONG RR TRACKS 1 MAR 2005. 3 BURROWS WITH 2 ADULTS EACH ALONG RR TRACKS & 2 ADULTS ON CHURCH LAWN 29 MAY 2006.

PLSS: T02S, R05E, Sec. 20 (M)	Accuracy: specific area	Area (acres): 55
UTM: Zone-10 N4178292 E636299	Latitude/Longitude: 37.74178 / -121.45301	Elevation (feet): 40

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:

CRO98F0011 CROWE, R. (MOORE BIOLOGICAL CONSULTANTS) - FIELD SURVEY FORM FOR ATHENE (=SPEOTYTO) CUNICULARIA (BURROW SITE) 1998-08-03

DES97U0001 DESANTE, D. ET AL. (THE INSTITUTE FOR BIRD POPULATIONS) - INSTITUTE FOR BIRD POPULATIONS 1991-1993 CENSUS OF BURROWING OWLS IN CALIFORNIA. 1997-10-13

HEN05F0002 HENKEL, L. (H.T. HARVEY AND ASSOCIATES) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2005-03-01

HEN05F0003 HENKEL, L. (H.T. HARVEY AND ASSOCIATES) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2005-03-01

WIL09D0003 WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 41707	EO Index: 41707
Key Quad: Tracy (3712164)	Element Code: ABNSB10010
Occurrence Number: 336	Occurrence Last Updated: 1999-10-05

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 1999-09-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1999-09-23	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST SOUTH OF I-205, 0.4 MILE EAST OF THE INTERSECTION OF BYRON ROAD AND LAMMERS FERRY ROAD, WEST OF TRACY.

Detailed Location:

Ecological:
HABITAT CONSISTS OF AN ABANDONED OAT (HAY) FIELD; SURROUNDED BY HOUSING DEVELOPMENT.

Threats:
THREATENED BY DISKING AROUND THE BURROW SITE.

General:
2 ADULTS OBSERVED AT THE BURROW SITE.

PLSS: T02S, R05E, Sec. 19 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4179142 E634913	Latitude/Longitude: 37.74965 / -121.46859	Elevation (feet): 30

County Summary: San Joaquin	Quad Summary: Tracy (3712164), Union Island (3712174)
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Sources:
HEN99F0002 HENKE, J. (MOORE BIOLOGICAL CONSULTANTS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 1999-09-23



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



Map Index Number: 51634
Key Quad: Tracy (3712164)
Occurrence Number: 611

EO Index: 51634
Element Code: ABNSB10010
Occurrence Last Updated: 2014-01-28

Scientific Name: *Athene cucularia*

Common Name: burrowing owl

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

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

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

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

Last Date Observed: 2006-05-29
Last Survey Date: 2006-05-29
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
 SOUTH SIDE OF LOWELL BOULEVARD, EAST OF CORRAL HOLLOW ROAD, ACROSS FROM MERRILL F. WEST HIGH SCHOOL, TRACY.

Detailed Location:
 2003 BURROW SITE WAS LOCATED IN A LARGE VACANT LOT ACROSS FROM THE HIGH SCHOOL.

Ecological:
 2006 LOCATION HAD DIRT WITH SOME WEEDS, FENCED ON THREE SIDES, AT A "POCKET LOCATION WITH HIGH SCHOOL FIELDS ACROSS THE ROAD." CONCENTRATION OF GROUND SQUIRRELS "AT THE BACK NORTH END."

Threats:
 THREATENED BY DEVELOPMENT.

General:
 13 BURROWING OWLS OCCUPIED THIS RATHER LARGE COLONY WHEN OBSERVED ON 13 JUN 2003 (EXTIRPATED & DEVELOPED BY 2007). 7 ADULTS AND 5 JUVENILES OBSERVED ON 29 MAY 2006.

PLSS: T02S, R05E, Sec. 20 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4178881 E636829	Latitude/Longitude: 37.74700 / -121.44689	Elevation (feet): 30

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
 OLI03U0001 OLIVER, F. - REPORT OF BURROWING OWL BURROW SITE ON THE CENTRAL VALLEY BIRD CLUB LISTSERV. 2003-06-13
 WIL09D0003 WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



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



Map Index Number: 60018
Key Quad: Tracy (3712164)
Occurrence Number: 731

EO Index: 60054
Element Code: ABNSB10010
Occurrence Last Updated: 2005-02-16

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

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

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

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

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

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

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

Location:
 0.6 MILE NE OF THE INTERSECTION OF LAMMERS FERRY ROAD AND SCHULTE ROAD, 2 MILES SW OF TRACY.

Detailed Location:
 AT LEAST 3 ACTIVE BURROWS, CONSISTING OF AT LEAST 2 PAIRS IN FEB 2005.

Ecological:
 HABITAT CONSISTS OF MOWED NON-NATIVE ANNUAL GRASSLAND; MANY GROUND SQUIRREL BURROWS PRESENT.

Threats:
 SITE PROPOSED FOR AQUATIC PARK.

General:
 3 ADULTS OBSERVED AT BURROWS ON 1 FEB 2005.

PLSS: T02S, R05E, Sec. 31 (M)

Accuracy: 80 meters

Area (acres): 0

UTM: Zone-10 N4175962 E634850

Latitude/Longitude: 37.72100 / -121.46990

Elevation (feet): 90

County Summary:

Quad Summary:

San Joaquin

Tracy (3712164)

Sources:
 HEN05F0001 HENKEL, L. (H.T. HARVEY AND ASSOCIATES) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2005-02-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 62003	EO Index: 62039
Key Quad: Vernalis (3712163)	Element Code: ABNSB10010
Occurrence Number: 741	Occurrence Last Updated: 2005-07-18

Scientific Name: <i>Athene cunicularia</i>	Common Name: burrowing owl
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G4	CDFW_SSC-Species of Special Concern
State: S3	IUCN_LC-Least Concern
	USFWS_BCC-Birds of Conservation Concern

General Habitat: OPEN, DRY ANNUAL OR PERENNIAL GRASSLANDS, DESERTS & SCRUBLANDS CHARACTERIZED BY LOW-GROWING VEGETATION.	Micro Habitat: SUBTERRANEAN NESTER, DEPENDENT UPON BURROWING MAMMALS, MOST NOTABLY, THE CALIFORNIA GROUND SQUIRREL.
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Last Date Observed: 2003-03-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2003-03-15	Occurrence Rank: Fair
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST EAST OF THE INTERSECTION OF KASSON ROAD AND MANCUSO ROAD, EAST OF BANTA.

Detailed Location:
BURROW IS LOCATED BETWEEN THE ROAD SHOULDER AND THE ADJACENT AGRICULTURAL FIELD.

Ecological:
HABITAT CONSISTS OF MIXED AGRICULTURE AND RANCHETTES.

Threats:

General:
1 ADULT OWL OBSERVED AT THE BURROW ENTRANCE ON 15 MAR 2003.

PLSS: T02S, R06E, Sec. 20 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4179261 E646024	Latitude/Longitude: 37.74901 / -121.34249	Elevation (feet): 20

County Summary: San Joaquin	Quad Summary: Vernalis (3712163)
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Sources:
ALV03F0001 ALVAREZ, J.L. (JONES AND STOKES ASSOCIATES) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2003-03-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 63620
Key Quad: Tracy (3712164)
Occurrence Number: 764

EO Index: 63715
Element Code: ABNSB10010
Occurrence Last Updated: 2014-02-28

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

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

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

General Habitat:

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

Micro Habitat:

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

Last Date Observed: 2005-10-18

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2005-10-18

Occurrence Rank: None

Owner/Manager: PVT

Trend: Unknown

Presence: Possibly Extirpated

Location:

EITHER SIDE OF TRACY BLVD (JEFFERSON RD), ABOUT 0.3 MI N OF VALPICO RD, ABOUT 1.8 MI SSW OF TRACY PO.

Detailed Location:

MAPPED TO PROVIDED COORDINATES.

Ecological:

HABITAT CONSISTED OF A WATER DETENTION BASIN AND A SUBURBAN INFILL LOT; 100% SURROUNDED BY HIGH-DENSITY HOUSING. AN ABUNDANCE OF CALIFORNIA GROUND SQUIRREL BURROWS WAS FOUND IN AREA. OPEN FIELDS WERE DEVELOPED BY 2006 (GOOGLEEARTH).

Threats:

THREATENED BY DEVELOPMENT.

General:

STATEWIDE SURVEY ESTIMATED 1 PAIR IN AREA IN 1991. 2 ADULTS OBSERVED AT A BURROW SITE ON 18 OCT 2005.

PLSS: T02S, R05E, Sec. 32 (M)

Accuracy: nonspecific area

Area (acres): 22

UTM: Zone-10 N4175404 E637581

Latitude/Longitude: 37.71557 / -121.43902

Elevation (feet): 90

County Summary:

San Joaquin

Quad Summary:

Tracy (3712164)

Sources:

DES97U0001 DESANTE, D. ET AL. (THE INSTITUTE FOR BIRD POPULATIONS) - INSTITUTE FOR BIRD POPULATIONS 1991-1993 CENSUS OF BURROWING OWLS IN CALIFORNIA. 1997-10-13

MON05F0001 MONK, G. (MONK AND ASSOCIATES, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA (BURROW SITE) 2005-10-18



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



Map Index Number:	71480	EO Index:	72379
Key Quad:	Union Island (3712174)	Element Code:	ABNSB10010
Occurrence Number:	1116	Occurrence Last Updated:	2008-06-11

Scientific Name:	<i>Athene cunicularia</i>	Common Name:	burrowing owl
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G4 State: S3	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

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

Last Date Observed:	2008-04-23	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2008-04-23	Occurrence Rank:	Poor
Owner/Manager:	PVT-PROLOGIS	Trend:	Unknown
Presence:	Presumed Extant		

Location:
0.56 MI SW OF THE JUNCTION OF E GRANT LINE RD & CHRISMAN RD, TRACY.

Detailed Location:
BURROWS LOCATED IN OLD GROUND SQUIRREL BURROWS ALONG FARM ROAD AND UNDER IRRIGATION DITCH BORDERING AGRICULTURAL FIELDS. AG FIELDS WERE HARVESTED RECENTLY.

Ecological:
SURROUNDED BY AGRICULTURAL FIELDS, COMMERCIAL LAND AND RAILROAD.

Threats:
THREATENED BY DEVELOPMENT AND AGRICULTURE.

General:
1 PAIR OF ADULTS AND 3 USED BURROWS OBSERVED ON 23 APR 2008. ASSUMED NATAL BURROWS WITH ASSOCIATE SATELLITE BURROWS.

PLSS: T02S, R05E, Sec. 22 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4179275 E640333	Latitude/Longitude: 37.75003 / -121.40706	Elevation (feet): 40

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164), Union Island (3712174)

Sources:
STA08F0003 STAGNARO, B. (WRA, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2008-04-23



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



Map Index Number: 71481
Key Quad: Tracy (3712164)
Occurrence Number: 1117

EO Index: 72380
Element Code: ABNSB10010
Occurrence Last Updated: 2008-06-11

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

Listing Status: **Federal:** None
 State: None
CNDDB Element Ranks: **Global:** G4
 State: S3

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

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

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

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

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

Location:
 WEST OF CHRISMAN RD, 0.30 MI S OF E GRANT LINE RD, TRACY.

Detailed Location:
 BURROWS LOCATED IN OLD GROUND SQUIRREL BURROWS ALONG FARM ROAD AND UNDER IRRIGATION DITCH BORDERING AGRICULTURAL FIELDS. AG FIELDS WERE HARVESTED RECENTLY.

Ecological:
 SURROUNDED BY AGRICULTURAL FIELDS, COMMERCIAL LAND AND RAILROAD.

Threats:
 THREATENED BY DEVELOPMENT AND AGRICULTURE.

General:
 1 ADULT OWL AND 2 USED BURROWS OBSERVED ON 23 APR 2008. ASSUMED NATAL BURROWS WITH ASSOCIATE SATELLITE BURROWS.

PLSS: T02S, R05E, Sec. 22 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4179268 E641056	Latitude/Longitude: 37.74985 / -121.39886	Elevation (feet): 40

County Summary: San Joaquin	Quad Summary: Tracy (3712164), Union Island (3712174)
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Sources:
 STA08F0003 STAGNARO, B. (WRA, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2008-04-23



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



Map Index Number: 71482
Key Quad: Tracy (3712164)
Occurrence Number: 1118

EO Index: 72381
Element Code: ABNSB10010
Occurrence Last Updated: 2008-06-11

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

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

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

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

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

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

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

Location:
 NORTH SIDE OF RR TRACKS, 0.36 MI SW OF CHRISMAN RD, TRACY.

Detailed Location:
 BURROW LOCATED IN OLD GROUND SQUIRREL BURROWS ALONG FARM ROAD AND UNDER IRRIGATION DITCH BORDERING AGRICULTURAL FIELDS. AG FIELDS WERE HARVESTED RECENTLY.

Ecological:
 SURROUNDED BY AGRICULTURAL FIELDS, COMMERCIAL LAND AND RAILROAD.

Threats:
 THREATENED BY DEVELOPMENT AND AGRICULTURE.

General:
 1 ADULT OWL AND 1 USED BURROW OBSERVED ON 23 APR 2008.

PLSS: T02S, R05E, Sec. 22 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4178393 E640577	Latitude/Longitude: 37.74204 / -121.40446	Elevation (feet): 40

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
 STA08F0003 STAGNARO, B. (WRA, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2008-04-23



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



Map Index Number: 91309
Key Quad: Tracy (3712164)
Occurrence Number: 1892

EO Index: 92370
Element Code: ABNSB10010
Occurrence Last Updated: 2014-01-28

Scientific Name: *Athene cucularia*

Common Name: burrowing owl

Listing Status: **Federal:** None
 State: None
CNDDB Element Ranks: **Global:** G4
 State: S3

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

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

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

Last Date Observed: 2013-12-05
Last Survey Date: 2013-12-05
Owner/Manager: PVT
Presence: Presumed Extant

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

Location:
 0.5 MI W OF N CORRAL HALLOW RD AT W SCHULTE RD, TRACY.

Detailed Location:
 BURROWS LOCATED ON "WEST SIDE OF MABEL JOSEPHINE [DRIVE] AND SOUTH SIDE OF W. SCHULTE ROAD IN TRACY, CA." CENTERED AT PROVIDED COORDINATES, WHICH IS LOCATED ON THE E SIDE OF MABEL JOSEPHINE DR.

Ecological:
 SEVERAL SQUIRRELS OBSERVED IN THE EMPTY LOTS.

Threats:
 THREATENED BY PROPOSED HOUSING DEVELOPMENT.

General:
 2 BURROWING OWLS, EACH FOUND AT A BURROW ON 5 DEC 2013; ONE BURROW WAS UNDER A UTILITY VAULT AND ANOTHER WAS OUT IN A LOT.

PLSS: T02S, R05E, Sec. 30 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4176757 E635588	Latitude/Longitude: 37.72805 / -121.46138	Elevation (feet): 60

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
 REY13U0001 REYNA-HIESTAND, S. - EMAIL REGARDING BURROWING OWLS OVER-WINTERING ON A LOT IN TRACY, CA 2013-12-05



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



Map Index Number:	91310	EO Index:	92380
Key Quad:	Union Island (3712174)	Element Code:	ABNSB10010
Occurrence Number:	1893	Occurrence Last Updated:	2014-01-28

Scientific Name:	<i>Athene cunicularia</i>	Common Name:	burrowing owl
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G4 State: S3	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern

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

Last Date Observed:	2011-08-25	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2011-08-25	Occurrence Rank:	Fair
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
S OF VON SOSTEN RD, 0.25 MI WNW OF BYRON RD AT I-205, W OF TRACY.

Detailed Location:
MAPPED TO PROVIDED MAP FOR BURROW IN UNDEVELOPED LOT LOCATED "SOUTHWEST OF THE INTERSECTION OF BYRON ROAD AND VON SOSTEN ROAD."

Ecological:
EARTHWORK AND GRADING CREATED THE SPOILS PILES; VEHICLE TRACKS THROUGH PARCEL VISIBLE ON AERIALS. VEGETATION ONSITE CONSISTED OF NON-NATIVE GRASSES AND FORBS WITH NO TREES OR SHRUBS.

Threats:
General:
ONE ADULT BURROWING OWL WAS OBSERVED ON THE SPOILS PILE OUTSIDE A BURROW DURING BURROWING OWL SURVEYS CONDUCTED FOR A NEARBY PROJECT.

PLSS:	T02S, R04E, Sec. 24 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4179166 E633926	Latitude/Longitude:	37.75000 / -121.47978	Elevation (feet):	30

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164), Union Island (3712174)

Sources:
ORS11F0003 ORSOLINI, J. (SYCAMORE ENVIRONMENTAL CONSULTANTS, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2011-08-25



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



Map Index Number: 91580
Key Quad: Tracy (3712164)
Occurrence Number: 1896

EO Index: 92643
Element Code: ABNSB10010
Occurrence Last Updated: 2014-02-13

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

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

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

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

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

Last Date Observed: 2011-07-21
Last Survey Date: 2011-07-21
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
W SIDE OF BANTA RD, ABOUT 0.4 MI S OF 11TH ST, 2.5 MI E OF TRACY PO.

Detailed Location:
MAPPED TO PROVIDED COORDINATES. BURROW ALONG BERM OF A CATCHMENT BASIN ALONG BANTA ROAD.

Ecological:
AGRICULTURAL LAND N OF TRACY DEPOT. LAND WAS FALLOW FOR SEVERAL YEARS BUT FIELDS WERE TILLED BEFORE EARLY JUN AND WERE FLOOD IRRIGATED AND PLANTED IN CORN DURING JUN AND JUL 2011.

Threats:
POSSIBLY THREATENED BY TILLING AND FLOOD IRRIGATION.

General:
1 PAIR AND 5 YOUNG FOUND ON THE BERM OF A CATCHMENT BASIN ON 21 JUL 2011; MILITARY STAFF REPORTED BURROWING OWLS AT SITE IN PREVIOUS YEARS.

PLSS: T02S, R05E, Sec. 26 (M)
UTM: Zone-10 N4177604 E642730

Accuracy: 80 meters
Latitude/Longitude: 37.73460 / -121.38018

Area (acres): 0
Elevation (feet): 50

County Summary:

Quad Summary:

San Joaquin

Tracy (3712164)

Sources:

MEN11F0004 MENZEL, S. (ALBION ENVIRONMENTAL, INC.) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2011-07-21



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



Map Index Number: 91590
Key Quad: Tracy (3712164)
Occurrence Number: 1897

EO Index: 92653
Element Code: ABNSB10010
Occurrence Last Updated: 2014-02-13

Scientific Name: *Athene cucularia*

Common Name: burrowing owl

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

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

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

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

Last Date Observed: 2006-05-29
Last Survey Date: 2006-05-29
Owner/Manager: PVT
Presence: Presumed Extant

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

Location:
 ALONG SOUTHERN PACIFIC RAILROAD, ABOUT 0.8 MI ENE OF LAMMERS RD, 2.5 MI SW OF TRACY POST OFFICE.

Detailed Location:
 BLOCK CODE 4175-635 - LOCATION CODE I. MAPPED TO PROVIDED COORDINATES.

Ecological:
 LOWLAND ELEVATION SUBREGION. RAILROAD BANK WITH A STRIP OF WEED/BRUSH. GROUND SQUIRRELS DETECTED WITHIN 100 M OF BREEDING LOCATION.

Threats:
 THREATENED BY DEVELOPMENT DESTROYING SUITABLE HABITAT.

General:
 2 ADULTS OBSERVED (1 ESTIMATED PAIR) ON 29 MAY 2006.

PLSS: T02S, R05E, Sec. 31 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4175796 E635480	Latitude/Longitude: 37.71941 / -121.46277	Elevation (feet): 80

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
 WIL09D0003 WILKERSON, R. & R. SIEGEL - DATABASE AND DATA DICTIONARY FOR IBP'S 2006-2007 STATEWIDE BURROWING OWL SURVEY. 2009-09-29



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 91591
Key Quad: Tracy (3712164)
Occurrence Number: 1899

EO Index: 92658
Element Code: ABNSB10010
Occurrence Last Updated: 2014-02-14

Scientific Name: *Athene cucularia*

Common Name: burrowing owl

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

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

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

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

Last Date Observed: 1993-XX-XX
Last Survey Date: 1993-XX-XX
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
 GENERAL AREA OF MACARTHUR DR AT SOUTHERN PACIFIC RR, 0.7 MI SE OF TRACY PO.

Detailed Location:
 BLOCK CODE 4175-635. MAPPED TO ENCOMPASS PROVIDED COORDINATES UNDER NAD27 AND NAD83 DATUM.

Ecological:

Threats:
 THREATENED BY DEVELOPMENT DESTROYING SUITABLE HABITAT.

General:
 STATEWIDE SURVEY ESTIMATED 1 PAIR IN AREA IN 1993.

PLSS: T02S, R05E, Sec. 28 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4177682 E639520	Latitude/Longitude: 37.73580 / -121.41659	Elevation (feet): 60

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
 DES97U0001 DESANTE, D. ET AL. (THE INSTITUTE FOR BIRD POPULATIONS) - INSTITUTE FOR BIRD POPULATIONS 1991-1993 CENSUS OF BURROWING OWLS IN CALIFORNIA. 1997-10-13



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



Map Index Number: 91592
Key Quad: Tracy (3712164)
Occurrence Number: 1900

EO Index: 92661
Element Code: ABNSB10010
Occurrence Last Updated: 2014-02-14

Scientific Name: *Athene cunicularia*

Common Name: burrowing owl

Listing Status: **Federal:** None
 State: None
CNDDB Element Ranks: **Global:** G4
 State: S3

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

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

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

Last Date Observed: 1993-XX-XX
Last Survey Date: 1993-XX-XX
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
 GENERAL AREA W OF MACARTHUR DR BETWEEN 11TH ST AND GRANT LINE RD, 0.75 MI NE OF TRACY PO.

Detailed Location:
 BLOCK CODE 4175-635. MAPPED TO GENERALLY ENCOMPASS PROVIDED COORDINATES UNDER NAD27 AND NAD83 DATUM.

Ecological:
 DEVELOPMENT HAS REDUCED THE AVAILABILITY OF SUITABLE HABITAT OVER TIME PER 1993-2012 AERIAL IMAGES (GOOGLEEARTH).

Threats:
 THREATENED BY DEVELOPMENT DESTROYING SUITABLE HABITAT.

General:
 STATEWIDE SURVEY ESTIMATED 1 PAIR IN AREA IN 1991 AND 3 PAIRS IN 1993.

PLSS: T02S, R05E, Sec. 22 (M)	Accuracy: nonspecific area	Area (acres): 117
UTM: Zone-10 N4178803 E639601	Latitude/Longitude: 37.74588 / -121.41545	Elevation (feet): 40

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
 DES97U0001 DESANTE, D. ET AL. (THE INSTITUTE FOR BIRD POPULATIONS) - INSTITUTE FOR BIRD POPULATIONS 1991-1993 CENSUS OF BURROWING OWLS IN CALIFORNIA. 1997-10-13



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



Map Index Number:	34871	EO Index:	18695
Key Quad:	Solyo (3712153)	Element Code:	ABPAT02011
Occurrence Number:	11	Occurrence Last Updated:	1996-09-05

Scientific Name:	<i>Eremophila alpestris actia</i>	Common Name:	California horned lark
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5T3Q State: S3	Other Lists:	CDFW_WL-Watch List IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
COASTAL REGIONS, CHIEFLY FROM SONOMA CO. TO SAN DIEGO CO. ALSO MAIN PART OF SAN JOAQUIN VALLEY & EAST TO FOOTHILLS.	SHORT-GRASS PRAIRIE, "BALD" HILLS, MOUNTAIN MEADOWS, OPEN COASTAL PLAINS, FALLOW GRAIN FIELDS, ALKALI FLATS.

Last Date Observed:	1993-04-19	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1993-04-19	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ADJACENT TO INTERSTATE 5; APPROX. 3.5 KM SOUTHEAST OF I-5/I-580 JUNCTION, NEAR MARTIN CREEK.

Detailed Location:
 DISTRIBUTED BETWEEN MILEPOSTS 340 AND 343 ALONG EXISTING GAS PIPELINE.

Ecological:
 UNGRAZED, NON-NATIVE GRASSLAND.

Threats:
 POSSIBLE THREAT: AGRICULTURAL ACTIVITIES.

General:
 10 ADULTS (5 PAIRS?) OBSERVED NESTING BY A. FLANNERY.

PLSS:	T04S, R06E, Sec. 21 (M)	Accuracy:	1/5 mile	Area (acres):	0
UTM:	Zone-10 N4159320 E649623	Latitude/Longitude:	37.56877 / -121.30575	Elevation (feet):	350

County Summary:	Quad Summary:
Stanislaus	Solyo (3712153)

Sources:
 FLA93F0008 FLANNERY, A. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR EREMOPHILA ALPESTRIS ACTIA 1993-04-19



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34872	EO Index: 18702	
Key Quad: Solyo (3712153)	Element Code: ABPAT02011	
Occurrence Number: 17	Occurrence Last Updated: 1996-07-31	

Scientific Name: <i>Eremophila alpestris actia</i>	Common Name: California horned lark
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_WL-Watch List
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5T3Q	
State: S3	

General Habitat: COASTAL REGIONS, CHIEFLY FROM SONOMA CO. TO SAN DIEGO CO. ALSO MAIN PART OF SAN JOAQUIN VALLEY & EAST TO FOOTHILLS.	Micro Habitat: SHORT-GRASS PRAIRIE, "BALD" HILLS, MOUNTAIN MEADOWS, OPEN COASTAL PLAINS, FALLOW GRAIN FIELDS, ALKALI FLATS.
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Last Date Observed: 1993-04-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-04-19	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ADJACENT TO INTERSTATE 5; 1.7 KM WSW OF HAMILTON ROAD X DELTA-MENDOTA CANAL.

Detailed Location:

Ecological:

Threats:

General:

SEVERAL SIGHTINGS OF LARKS, PRESUMED NESTING, IN NE 1/4 OF NW 1/4 AND SW 1/4 OF NE 1/4 OF SECTION 27.

PLSS: T04S, R06E, Sec. 27 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4158564 E650376	Latitude/Longitude: 37.56184 / -121.29738	Elevation (feet): 360

County Summary:

Stanislaus

Quad Summary:

Solyo (3712153)

Sources:

FLA93F0008 FLANNERY, A. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR EREMOPHILA ALPESTRIS ACTIA 1993-04-19



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34880	EO Index: 17347
Key Quad: Tracy (3712164)	Element Code: ABPAT02011
Occurrence Number: 22	Occurrence Last Updated: 1997-03-26

Scientific Name: <i>Eremophila alpestris actia</i>	Common Name: California horned lark
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_WL-Watch List IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5T3Q	
State: S3	

General Habitat: COASTAL REGIONS, CHIEFLY FROM SONOMA CO. TO SAN DIEGO CO. ALSO MAIN PART OF SAN JOAQUIN VALLEY & EAST TO FOOTHILLS.	Micro Habitat: SHORT-GRASS PRAIRIE, "BALD" HILLS, MOUNTAIN MEADOWS, OPEN COASTAL PLAINS, FALLOW GRAIN FIELDS, ALKALI FLATS.
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Last Date Observed: 1993-04-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-04-08	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
BETWEEN CA AQUEDUCT AND DELTA-MENDOTA CANAL; 2.1 KM NNW OF I-580/HWY 132 JUNCTION; SOUTH OF TRACY.

Detailed Location:
LOCATED ALONG EXISTING GAS PIPELINE AT MILEPOST 331.6.

Ecological:
HABITAT CONSISTS OF AGRICULTURAL LAND.

Threats:
POSSIBLE THREAT: AGRICULTURE.

General:
OBSERVED 1 ADULT STANDING ON BANK OF DELTA-MENDOTA CANAL.

PLSS: T03S, R05E, Sec. 22 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4168715 E640365	Latitude/Longitude: 37.65488 / -121.40874	Elevation (feet): 195

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:
LIN93F0012 LINCER, J. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR EREMOPHILA ALPESTRIS ACTIA 1993-04-08



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



Map Index Number:	34879	EO Index:	15661
Key Quad:	Tracy (3712164)	Element Code:	ABPAT02011
Occurrence Number:	23	Occurrence Last Updated:	1996-07-31

Scientific Name:	<i>Eremophila alpestris actia</i>	Common Name:	California horned lark
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5T3Q State: S3	Other Lists:	CDFW_WL-Watch List IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
COASTAL REGIONS, CHIEFLY FROM SONOMA CO. TO SAN DIEGO CO. ALSO MAIN PART OF SAN JOAQUIN VALLEY & EAST TO FOOTHILLS.	SHORT-GRASS PRAIRIE, "BALD" HILLS, MOUNTAIN MEADOWS, OPEN COASTAL PLAINS, FALLOW GRAIN FIELDS, ALKALI FLATS.

Last Date Observed:	1993-04-21	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1993-04-21	Occurrence Rank:	Fair
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
ON EAST BANK OF DELTA-MENDOTA CANAL; 0.6 KM SSW OF DURHAM FERRY ROAD X MACARTHUR DRIVE; SOUTH OF TRACY.

Detailed Location:
LOCATED ALONG EXISTING GAS PIPELINE AT MILEPOST 331.5.

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

Threats:
POSSIBLE THREAT: AGRICULTURE.

General:
APPROX. 50 ADULTS CALLING ALONG SCATTERED LOCATIONS ALONG PIPELINE CORRIDOR.

PLSS: T03S, R05E, Sec. 21 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4169474 E639521	Latitude/Longitude: 37.66185 / -121.41816	Elevation (feet): 180

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
VAN93F0009 VANHERWEG, B. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR EREMOPHILA ALPESTRIS ACTIA 1993-04-21



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34878	EO Index: 17348
Key Quad: Tracy (3712164)	Element Code: ABPAT02011
Occurrence Number: 24	Occurrence Last Updated: 1996-07-31

Scientific Name: <i>Eremophila alpestris actia</i>	Common Name: California horned lark
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_WL-Watch List IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5T3Q	
State: S3	

General Habitat: COASTAL REGIONS, CHIEFLY FROM SONOMA CO. TO SAN DIEGO CO. ALSO MAIN PART OF SAN JOAQUIN VALLEY & EAST TO FOOTHILLS.	Micro Habitat: SHORT-GRASS PRAIRIE, "BALD" HILLS, MOUNTAIN MEADOWS, OPEN COASTAL PLAINS, FALLOW GRAIN FIELDS, ALKALI FLATS.
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Last Date Observed: 1993-04-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-04-08	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ON WEST BANK OF DELTA-MENDOTA CANAL; IMMEDIATELY SOUTHWEST OF TRACY MUNICIPAL AIRPORT; SOUTH OF TRACY.

Detailed Location:
LOCATED ON EXISTING GAS PIPELINE CORRIDOR AT MILEPOST 328.8.

Ecological:
HABITAT CONSISTS OF AGRICULTURAL LAND.

Threats:
POSSIBLE THREAT: AGRICULTURE.

General:
OBSERVED 2 ADULTS ROOSTING ON GROUND APPROX. 600 FEET EAST OF PIPELINE.

PLSS: T03S, R05E, Sec. 08 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4171835 E637045	Latitude/Longitude: 37.68350 / -121.44578	Elevation (feet): 210

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:
LIN93F0011 LINCER, J. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR EREMOPHILA ALPESTRIS ACTIA 1993-04-08



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



Map Index Number:	34881	EO Index:	18731
Key Quad:	Vernalis (3712163)	Element Code:	ABPAT02011
Occurrence Number:	25	Occurrence Last Updated:	1996-08-01

Scientific Name:	<i>Eremophila alpestris actia</i>	Common Name:	California horned lark
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G5T3Q State: S3	Other Lists:	CDFW_WL-Watch List IUCN_LC-Least Concern

General Habitat:	Micro Habitat:
COASTAL REGIONS, CHIEFLY FROM SONOMA CO. TO SAN DIEGO CO. ALSO MAIN PART OF SAN JOAQUIN VALLEY & EAST TO FOOTHILLS.	SHORT-GRASS PRAIRIE, "BALD" HILLS, MOUNTAIN MEADOWS, OPEN COASTAL PLAINS, FALLOW GRAIN FIELDS, ALKALI FLATS.

Last Date Observed:	1993-04-20	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1993-04-20	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
WEST OF VERNALIS; 2.9 KM WSW OF I-5 X HWY 132; BETWEEN CA AQUEDUCT AND HETCH HETCHY AQUEDUCT.

Detailed Location:
LOCATED APPROX. 400 FEET FROM EXISTING GAS PIPELINE AT MILEPOST 334.25.

Ecological:
GRAZED, NON-NATIVE GRASSLAND.

Threats:
POSSIBLE THREAT: AGRICULTURAL ACTIVITIES.

General:
5 ADULTS OBSERVED WHEN ONE NEST AND SEVERAL INDIVIDUALS WERE FLUSHED WITHIN 500 FEET EAST AND WEST OF PIPELINE.

PLSS:	T03S, R05E, Sec. 36 (M)	Accuracy:	80 meters	Area (acres):	0
UTM:	Zone-10 N4165775 E643575	Latitude/Longitude:	37.62789 / -121.37293	Elevation (feet):	265

County Summary:	Quad Summary:
San Joaquin	Vernalis (3712163)

Sources:
FLA93F0011 FLANNERY, A. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR EREMOPHILA ALPESTRIS ACTIA 1993-04-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34884	EO Index: 14041	
Key Quad: Tracy (3712164)	Element Code: ABPAT02011	
Occurrence Number: 27	Occurrence Last Updated: 1996-08-01	

Scientific Name: <i>Eremophila alpestris actia</i>	Common Name: California horned lark
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_WL-Watch List
CNDDB Element Ranks:	IUCN_LC-Least Concern
Global: G5T3Q	
State: S3	

General Habitat: COASTAL REGIONS, CHIEFLY FROM SONOMA CO. TO SAN DIEGO CO. ALSO MAIN PART OF SAN JOAQUIN VALLEY & EAST TO FOOTHILLS.	Micro Habitat: SHORT-GRASS PRAIRIE, "BALD" HILLS, MOUNTAIN MEADOWS, OPEN COASTAL PLAINS, FALLOW GRAIN FIELDS, ALKALI FLATS.
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Last Date Observed: 1993-04-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-04-08	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH OF TRACY; 1.4 KM NNW OF HWY 132 X CHRISMAN ROAD; BETWEEN CA AQUEDUCT AND DELTA-MENDOTA CANAL.

Detailed Location:
LOCATED ALONG EXISTING GAS PIPELINE AT MILEPOST 332.5.

Ecological:
HABITAT CONSISTS OF AGRICULTURAL AND RUDERAL LAND.

Threats:
General:
1 ADULT OBSERVED ROOSTING ON FENCE NEXT TO PASTURE.

PLSS: T03S, R05E, Sec. 27 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4168240 E640863	Latitude/Longitude: 37.65052 / -121.40318	Elevation (feet): 215

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:
LIN93F0010 LINCER, J. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR EREMOPHILA ALPESTRIS ACTIA 1993-04-08



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34883	EO Index: 18670
Key Quad: Tracy (3712164)	Element Code: ABPAT02011
Occurrence Number: 28	Occurrence Last Updated: 1996-08-01

Scientific Name: <i>Eremophila alpestris actia</i>	Common Name: California horned lark
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_WL-Watch List IUCN_LC-Least Concern
CNDDB Element Ranks:	
Global: G5T3Q	
State: S3	

General Habitat: COASTAL REGIONS, CHIEFLY FROM SONOMA CO. TO SAN DIEGO CO. ALSO MAIN PART OF SAN JOAQUIN VALLEY & EAST TO FOOTHILLS.	Micro Habitat: SHORT-GRASS PRAIRIE, "BALD" HILLS, MOUNTAIN MEADOWS, OPEN COASTAL PLAINS, FALLOW GRAIN FIELDS, ALKALI FLATS.
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Last Date Observed: 1993-03-31	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1993-03-31	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SOUTH OF TRACY; NORTHEAST CORNER OF HWY 132 X CHRISMAN ROAD.

Detailed Location:
LOCATED ALONG EXISTING GAS PIPELINE AT MILEPOST 333.5.

Ecological:
HABITAT CONSISTS OF NON-NATIVE GRASSLAND.

Threats:

General:
4 ADULTS OBSERVED ROOSTING.

PLSS: T03S, R05E, Sec. 26 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4166972 E641414	Latitude/Longitude: 37.63901 / -121.39719	Elevation (feet): 270

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:
FLA93F0010 FLANNERY, A. (BIOSYSTEMS ANALYSIS, INC.) - FIELD SURVEY FORM FOR EREMOPHILA ALPESTRIS ACTIA 1993-03-31



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 91766	EO Index: 92863
Key Quad: Tracy (3712164)	Element Code: ABPBW01114
Occurrence Number: 531	Occurrence Last Updated: 2014-03-07

Scientific Name: <i>Vireo bellii pusillus</i>	Common Name: least Bell's vireo
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Endangered	Other Lists: IUCN_NT-Near Threatened NABCI_YWL-Yellow Watch List
CNDDB Element Ranks:	
Global: G5T2	
State: S2	

General Habitat: SUMMER RESIDENT OF SOUTHERN CALIFORNIA IN LOW RIPARIAN IN VICINITY OF WATER OR IN DRY RIVER BOTTOMS; BELOW 2000 FT.	Micro Habitat: NESTS PLACED ALONG MARGINS OF BUSHES OR ON TWIGS PROJECTING INTO PATHWAYS, USUALLY WILLOW, BACCHARIS, MESQUITE.
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Last Date Observed: 1932-06-13	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1932-06-13	Occurrence Rank: Unknown
Owner/Manager: PVT, DFG	Trend: Unknown
Presence: Presumed Extant	

Location:
VICINITY OF CASTLE ROCK AND BLACK BUTTE (ELK RAVINE) IN CORRAL HOLLOW, ABOUT 2 MI ENE OF CARNEGIE & 7.5 MI SSW OF TRACY.

Detailed Location:
BIRDS WERE DETECTED IN CORRAL HOLLOW THOUGH EXACT LOCATION IS UNKNOWN. NOTES STATED "...ON THE LARGE ROCK JUST ABOVE WHERE THE VIREOS WERE SEEN THE FOLLOWING BIRDS WERE OBSERVED: PRAIRIE FALCON..." MAPPED TO RIPARIAN AREA NEAR CASTLE ROCK.

Ecological:
OTHER BIRDS OBSERVED ABOVE THE LARGE ROCK WHERE THE VIREOS WERE DETECTED INCLUDED PRAIRIE FALCON, WHITE-THROATED SWIFT, CLIFF SWALLOW AND LARK SPARROW (ALL WITH YOUNG), 4 ROCK WRENS, AND RAVENS. "CORRAL HOLLOW IS A WONDERFUL BIRDING AREA."

Threats:
General:
AFTER BEING TIPPED-OFF BY BRYANT THAT LVBI WERE IN CORRAL HOLLOW IN MAY, BOLANDER LED THE OAKLAND ORNITHOLOGICAL CLUB IN JUN 1932 TO CORRAL HOLLOW AFTER BIRDING MANTECA & FOUND A FAMILY GROUP WITH BEGGING JUVENILES (1 COLLECTED FOR ID).

PLSS: T03S, R04E, Sec. 25 (M)	Accuracy: nonspecific area	Area (acres): 231
UTM: Zone-10 N4166727 E633086	Latitude/Longitude: 37.63805 / -121.49158	Elevation (feet): 450

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:

BOL32A0001	BOLANDER, G. - LEAST VIREOS [CORRAL HOLLOW]. THE GULL 14:2. 1932-07-01
BOL32S0001	BOLANDER, G. (MUSEUM OF VERTEBRATE ZOOLOGY) - MVZ #60897 COLLECTED "NEAR HEAD OF CORRAL HOLLOW" WHILE "FOLLOWING PARENTS TO BE FED." 1932-06-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 62568

EO Index: 90757

Key Quad: Lathrop (3712173)

Element Code: ABPBXA3010

Occurrence Number: 3

Occurrence Last Updated: 2013-07-23

Scientific Name: *Melospiza melodia*

Common Name: song sparrow ("Modesto" population)

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: **Global:** G5

State: S3?

General Habitat:

Micro Habitat:

Last Date Observed: 1896-05-24

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1896-05-24

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

BANTA.

Detailed Location:

MAPPED TO PROVIDED LOCALITY "BANTA," EXACT LOCATION UNKNOWN.

Ecological:

POSSIBLY SUITABLE NESTING HABITAT APPEAR TO THE N AND NE. GRINNELL (1923) DESCRIBED M. M. MAILLIARDI AS SLIGHTLY DIFFERENT FROM SSP. HEERMANNI; PATTEN (2009) STATED MAILLIARDI SPECIMENS WERE "INDISTINGUISHABLE FROM...HEERMANNII."

Threats:

General:

1 JUVENILE MALE (MVZ #77106) COLLECTED 24 MAY 1896 BY W.W. PRICE.

PLSS: T02S, R05E, Sec. 24 (M)

Accuracy: 1 mile

Area (acres): 0

UTM: Zone-10 N4179762 E643343

Latitude/Longitude: 37.75395 / -121.37281

Elevation (feet): 20

County Summary:

Quad Summary:

San Joaquin

Vernalis (3712163), Tracy (3712164), Lathrop (3712173), Union Island (3712174)

Sources:

GRI23A0001 GRINNELL, J. (MUSEUM OF VERTEBRATE ZOOLOGY) - NOTES ON SOME BIRDS OBSERVED IN THE VICINITY OF COLUSA, CALIFORNIA. CONDOR 25(5):172-176. 1923-05-12

PAT09A0001 PATTEN, M. & C. PRUETT - THE SONG SPARROW, MELOSPIZA MELODIA, AS A RING SPECIES: PATTERNS OF GEOGRAPHIC VARIATION, A REVISION OF SUBSPECIES, AND IMPLICATIONS FOR SPECIATION. SYST. AND BIODIV. 7(1)33-62. 2009-02-22

PRI96S0001 PRICE, W. (MUSEUM OF VERTEBRATE ZOOLOGY) - MVZ BIRDS #77106: MELOSPIZA MELODIA MAILLIARDI FROM BANTA, SAN JOAQUIN CO., CALIFORNIA 1896-05-24



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



Map Index Number: 11702	EO Index: 24745
Key Quad: Ripon (3712162)	Element Code: ABPBXB0020
Occurrence Number: 75	Occurrence Last Updated: 2015-07-24

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

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

Last Date Observed: 1974-06-05	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1974-06-05	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
VICINITY OF MAZE RD & RIVER RD INTERSECTION, 2.1 MI ENE OF VERNALIS, 5.2 MI E OF I-5 & HWY 132 INTERSECTION.

Detailed Location:
COLONY LOCATION DESCRIBED AS "JUNCTION OF MAIZE BOULEVARD AND RIVER ROAD." MAPPED TO GENERAL AREA AROUND MAZE BLVD & RIVER RD INTERSECTION. EXACT LOCATION UNKNOWN.

Ecological:

Threats:

General:
COLONY OF UNKNOWN SIZE OBSERVED ON 5 JUN 1974 IN THE POST-FLEDGLINGS STAGE (DEHAVEN); ADULTS AND FLEDGLINGS OBSERVED IN THE AREA BUT ACTUAL COLONY NOT LOCATED.

PLSS: T03S, R07E, Sec. 30 (M)	Accuracy: 4/5 mile	Area (acres): 0
UTM: Zone-10 N4167360 E654522	Latitude/Longitude: 37.64040 / -121.24860	Elevation (feet): 50

County Summary:	Quad Summary:
Stanislaus	Ripon (3712162), Vernalis (3712163)

Sources:

BEE91R0001	BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
HOS86U0002	HOSEA, R. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - COMPILATION, COUNTY BY COUNTY, OF TRICOLORED BLACKBIRD NESTING OBSERVATIONS 1986-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33419	EO Index: 12739
Key Quad: Solyo (3712153)	Element Code: ABPBXB0020
Occurrence Number: 320	Occurrence Last Updated: 2004-06-01

Scientific Name: <i>Agelaius tricolor</i>	Common Name: tricolored blackbird
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G2G3	CDFW_SSC-Species of Special Concern
State: S1S2	IUCN_EN-Endangered
	NABCI_RWL-Red Watch List
	USFWS_BCC-Birds of Conservation Concern

General Habitat: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.	Micro Habitat: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.
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Last Date Observed: 1997-04-26	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1997-04-26	Occurrence Rank: Good
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
JUST NORTH OF THE JUNCTION OF I-5 AND HWY 580, 23 MILES SOUTH OF STOCKTON.

Detailed Location:

Ecological:
HABITAT CONSISTS OF A SEDIMENT POND ASSOCIATED WITH AN AGGREGATE MINING OPERATION (GRAVEL PIT); SURROUNDING AREA CONSISTS OF ALMOND ORCHARDS AND WHEAT FIELDS. BIRDS NESTING IN CATTAILS IN 1997.

Threats:

General:
ESTIMATED 600+ ADULTS OBSERVED ON 14 MAY 1996 AND AGAIN ON 30 MAY 1996. 1500 OBSERVED 26 APR 1997 BY BOWN AND HAMILTON.

PLSS: T04S, R06E, Sec. 07 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4162808 E646310	Latitude/Longitude: 37.60073 / -121.34255	Elevation (feet): 275

County Summary:	Quad Summary:
San Joaquin	Solyo (3712153)

Sources:

DFG04U0002 CALIFORNIA DEPARTMENT OF FISH & GAME - TRICOLORED BLACKBIRD BREEDING OBSERVATIONS 1980-2000, BIOS DS20. 2004-XX-XX

HOS96F0001 HOSEA, R.C. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - FIELD SURVEY FORM FOR AGELAIUS TRICOLOR (NESTING COLONY) 1996-05-14



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



Map Index Number: 11363
Key Quad: Tracy (3712164)
Occurrence Number: 591

EO Index: 98189
Element Code: ABPBXB0020
Occurrence Last Updated: 2015-07-23

Scientific Name: *Agelaius tricolor*

Common Name: tricolored blackbird

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2G3
 State: S1S2

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_EN-Endangered
 NABCI_RWL-Red Watch List
 USFWS_BCC-Birds of Conservation Concern

General Habitat:

HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.

Micro Habitat:

REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Last Date Observed: 1936-06-03
Last Survey Date: 1936-06-03
Owner/Manager: UNKNOWN
Presence: Possibly Extirpated

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

Location:
VICINITY OF TRACY.

Detailed Location:

COLONY LOCATION DESCRIBED ONLY AS "NEAR TRACY." MAPPED GENERALLY TO THE AREA OF HISTORIC TRACY. EXACT LOCATION UNKNOWN. COLONY DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME "TRACY."

Ecological:

CATTAILS ALONG SLOUGH. COLONY PRESUMED EXTIRPATED BY BEEDY (1991).

Threats:

General:

A BREEDING COLONY COMPOSED OF ABOUT 750 NESTS OBSERVED ON 3 JUN 1936.

PLSS: T02S, R05E, Sec. 21 (M)

Accuracy: 1 mile

Area (acres): 0

UTM: Zone-10 N4178125 E638678

Latitude/Longitude: 37.73992 / -121.42606

Elevation (feet): 40

County Summary:

San Joaquin

Quad Summary:

Tracy (3712164), Union Island (3712174)

Sources:

- BEE91R0001 BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
- NEF37R0001 NEFF, J.A. - DISTRIBUTION OF THE TRICOLORED RED WING. THE CONDOR 39(2): 61-81. 1937-03-XX
- TRI14D0001 TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



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



Map Index Number:	96951	EO Index:	98191
Key Quad:	Tracy (3712164)	Element Code:	ABPBXB0020
Occurrence Number:	592	Occurrence Last Updated:	2015-08-13

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

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

Last Date Observed:	1936-06-03	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2014-04-19	Occurrence Rank:	None
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Possibly Extirpated		

Location:
JUST E OF TRACY, 2.4 MI W OF I-5 AND GRANT LINE RD INTERSECTION.

Detailed Location:
COLONY LOCATION DESCRIBED ONLY AS "EAST OF TRACY." MAPPED GENERALLY TO THE AREA EAST OF TRACY CITY PROPER, NEAR RAILWAYS. EXACT LOCATION UNKNOWN. COLONY DATA STORED IN UC DAVIS TRICOLORED BLACKBIRD PORTAL, SITE NAME "EAST TRACY."

Ecological:
CATTAILS AND WILLOWS ALONG RAILWAY SLOUGH IN 1936. NO APPROPRIATE HABITAT IN 2014. COLONY PRESUMED EXTIRPATED BY BEEDY (1991).

Threats:
General:
A BREEDING COLONY COMPOSED OF ABOUT 2,500 NESTS OBSERVED ON 3 JUN 1936 (NEFF 1937). 0 OBSERVED ON 19 APR 2014.

PLSS: T02S, R05E, Sec. 23 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4178948 E642160	Latitude/Longitude: 37.74680 / -121.38639	Elevation (feet): 40

County Summary:	Quad Summary:
San Joaquin	Vernalis (3712163), Tracy (3712164), Lathrop (3712173), Union Island (3712174)

Sources:

BEE91R0001	BEEDY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
NEF37R0001	NEFF, J.A. - DISTRIBUTION OF THE TRICOLORED RED WING. THE CONDOR 39(2): 61-81. 1937-03-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



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



Map Index Number:	96971	EO Index:	98207
Key Quad:	Vernalis (3712163)	Element Code:	ABPBXB0020
Occurrence Number:	596	Occurrence Last Updated:	2015-08-31

Scientific Name:	<i>Agelaius tricolor</i>	Common Name:	tricolored blackbird
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDDB Element Ranks:	Global: G2G3 State: S1S2	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern

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

Last Date Observed:	1966-05-16	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2011-04-17	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ~1.3 MI NW OF GREENWOOD RD & RIVER RD INTERSECTION, 2.5 MI ESE OF DURHAM FERRY RD & AHERN RD INTERSECTION, VERNALIS.

Detailed Location:
 COLONY DATA STORED IN UC DAVIS TRBL PORTAL; SITE "DURHAM FERRY RD." COLONY LOCATION DESCRIPTION WAS "DURHAM FERRY ROAD, ABOUT 1 MILE WEST OF SAN JOAQUIN RIVER." MAPPED AS BEST GUESS TO AREAS WITH WATER PRESENT ON S SIDE OF DURHAM FERRY RD.

Ecological:
 SMALL MARSH IN AN AGRICULTURAL DRAINWATER POND SOUTH OF ROAD (1965-66).

Threats:
General:
 SEVERAL HUNDRED BIRDS OBSERVED ON 19 MAY 1965; BEHAVIOR DESCRIBED AS FLYING TO AND FROM MARSH, APPARENTLY FEEDING YOUNG, SOME MALES SINGING. SEVERAL HUNDRED BIRDS OBS ON 16 MAY 1966; FLYING TO/FROM NESTING COLONY. 0 IN APR OF 1967 & 2011.

PLSS: T03S, R06E, Sec. 23 (M)	Accuracy: 4/5 mile	Area (acres): 0
UTM: Zone-10 N4169693 E651620	Latitude/Longitude: 37.66190 / -121.28099	Elevation (feet): 60

County Summary:	Quad Summary:
San Joaquin	Vernalis (3712163)

Sources:

BEE91R0001	BEEDEY, E.C., S.D. SANDERS & D. BLOOM - BREEDING STATUS, DISTRIBUTION, AND HABITAT ASSOCIATIONS OF THE TRICOLORED BLACKBIRD (AGELAIUS TRICOLOR), 1850-1989. 1991-06-XX
TRI14D0001	TRICOLORED BLACKBIRD PORTAL - ICE (UNIVERSITY OF CALIFORNIA, DAVIS) - 1907-2014 TRICOLORED BLACKBIRD RECORDS FROM UC DAVIS TRICOLORED BLACKBIRD PORTAL, INFORMATION CENTER FOR THE ENVIRONMENT (ICE) 2014-XX-XX



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



Map Index Number:	91542	EO Index:	92609
Key Quad:	Lathrop (3712173)	Element Code:	AFCHA0209K
Occurrence Number:	25	Occurrence Last Updated:	2014-02-27

Scientific Name:	<i>Oncorhynchus mykiss irideus</i>		
Common Name:	steelhead - Central Valley DPS		
Listing Status:	Federal:	Threatened	Rare Plant Rank:
	State:	None	Other Lists:
			AFS_TH-Threatened
CNDDB Element Ranks:	Global:	G5T2Q	
	State:	S2	

General Habitat:
 POPULATIONS IN THE SACRAMENTO AND SAN JOAQUIN RIVERS AND THEIR TRIBUTARIES.

Micro Habitat:

Last Date Observed:	2013-XX-XX	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2013-XX-XX	Occurrence Rank:	Poor
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 LOWER SAN JOAQUIN RIVER, FROM THE MOSSDALE TRAWL SITE (RM 54) TO SACK DAM (RM 182).

Detailed Location:
 SMOLTS CAUGHT AT MOSSDALE (MAIN POINT OF ENTRY INTO DELTA) SINCE 1968. BARRIER OPERATED AT HILLS FERRY (RM 118) SINCE 1992 DIVERTS MIGRATING FISH INTO MERCED R. SACK DAM, IMPASSABLE IN LOW-WATER YEARS, IS PRACTICAL U/S LIMIT TO MIGRATION.

Ecological:
 STEELHEAD (SH) WIDELY CONSIDERED EXTIRPATED S OF MERCED R; BUT 2012-13 INVENTORY FOUND O. MYKISS ABOVE HILLS FERRY BARRIER, WHICH MAY NOT BE FISH-TIGHT. DESPITE 2006 FLOW SETTLEMENT, "LOW VIABILITY" FOR SH DUE TO LACK OF REARING HABITAT.

Threats:
 UPSTREAM HABITAT CUT OFF BY SACK & FRIANT DAMS. WATER TEMPS REACH LETHAL LEVELS IN LOWER RIVER.

General:
 YEARLY CATCH AT MOSSDALE TRAWL 0-41 (AVG 8), 1994-2011; MOSLTY UNCLIPPED SMOLTS. NO SH DET ABOVE RM 118 DURING SH MONITORING BEGUN 2012 (BUT FISH ASSEMBLAGE INVENTORY FOUND TROUT). 2 OF 6 SMOLTS SAMPLED IN '08 OTOLITH STUDY WERE SH PROGENY.

PLSS:	T01S, R06E, Sec. 33 (M)	Accuracy:	nonspecific area	Area (acres):	14,775
UTM:	Zone-10 N4185547 E648244	Latitude/Longitude:	37.80528 / -121.31601	Elevation (feet):	

County Summary:
 Fresno, Madera, Merced, San Joaquin, Stanislaus

Quad Summary:
 Poso Farm (3612084), Oxalis (3612085), Santa Rita Bridge (3712015), Delta Ranch (3712016), Turner Ranch (3712026), San Luis Ranch (3712027), Stevinson (3712037), Gustine (3712038), Hatch (3712048), Crows Landing (3712141), Brush Lake (3712151), Westley (3712152), Ripon (3712162), Vernalis (3712163), Lathrop (3712173)



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



Sources:

BDA06D0001	BAY DELTA AND TRIBUTARIES PROJECT - BAY DELTA AND TRIBUTARIES PROJECT WEBSITE STEELHEAD DOWNLOAD [1/12/2006 BDAT WEBSITE] 2006-01-12
BOR14U0001	U.S. BUREAU OF RECLAMATION - FIELD ACTIVITY ADVISORY, CENTRAL VALLEY STEELHEAD MONIORING PLAN: JANUARY 6 - MARCH 15, 2014. 2014-XX-XX
NMF09R0001	NATIONAL MARINE FISHERIES SERVICE (NOAA) - CALIFORNIA CENTRAL VALLEY SALMON & STEELHEAD DRAFT RECOVERY PLAN, APPENDIX A: CENTRAL VALLEY WATERSHED PROFILES. 2009-10-XX
POR12R0001	PORTZ, D. ET AL. (U.S. BUREAU OF RECLAMATION) - CENTRAL VALLEY STEELHEAD MONITORING PLAN FOR THE SAN JOAQUIN RIVER RESTORATION AREA: 2012 MID-YEAR TECHNICAL REPORT. 2012-07-XX
POR13R0001	PORTZ, D. ET AL. (U.S. BUREAU OF RECLAMATION) - CENTRAL VALLEY STEELHEAD MONITORING PLAN FOR THE SAN JOAQUIN RIVER RESTORATION AREA: 2013 MONITORING RESULTS 2013-05-XX
STO11D0005	STOCKTON FISH AND WILDLIFE OFFICE - MOSSDALE TRAWLS CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 1994-2011 MONITORING DATA. 2011-XX-XX
STO13D0004	STOCKTON FISH AND WILDLIFE OFFICE - MOSSDALE TRAWLS CHINOOK & PELAGIC ORGANISM DECLINE SPECIES 2012-2013 MONITORING DATA. 2013-XX-XX
WOR13U0001	WORKMAN, M. & D. PORTZ - LONG TERM FISH ASSEMBLAGE INVENTORY AND MONITORING STUDY (PRELIMINARY DATA REPORT). 2013-08-XX
ZIM08R0001	ZIMMERMAN, C. ET AL. - MATERNAL ORIGIN AND MIGRATORY HISTORY OF ONCOHYNCHUS MYKISS CAPTURED IN RIVERS OF THE CENTRAL VALLEY, CALIFORNIA. 2008-03-06



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 92392	EO Index: 93515
Key Quad: Midway (3712165)	Element Code: AMACC08010
Occurrence Number: 421	Occurrence Last Updated: 2014-05-15

Scientific Name: <i>Corynorhinus townsendii</i>	Common Name: Townsend's big-eared bat
Listing Status:	Rare Plant Rank:
Federal: None	
State: Candidate Threatened	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G3G4	CDFW_SSC-Species of Special Concern
State: S2	IUCN_LC-Least Concern
	USFS_S-Sensitive
	WBWG_H-High Priority

General Habitat:
THROUGHOUT CALIFORNIA IN A WIDE VARIETY OF HABITATS. MOST COMMON IN MESIC SITES.

Micro Habitat:
ROOSTS IN THE OPEN, HANGING FROM WALLS & CEILINGS. ROOSTING SITES LIMITING. EXTREMELY SENSITIVE TO HUMAN DISTURBANCE.

Last Date Observed: 1956-07-29	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1956-07-29	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 4.3 M SW OF I-580 AT CORRAL HOLLOW ROAD AND ABOUT 3.5 MI N OF BALD MOUNTAIN.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED GENERALLY TO PROVIDED LOCALITY OF CORRAL HOLLOW, 2 MI E OF THE COUNTY LINE.

Ecological:

Threats:

General:

1 SPECIMEN COLLECTED ON 15 JUN AND ANOTHER ON 29 JUL 1956 BY A. ZIEGLER AND J. COOK (MVZ #120842, 120914).

PLSS: T03S, R04E, Sec. 34 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4165755 E631019	Latitude/Longitude: 37.62959 / -121.51518	Elevation (feet): 570

County Summary: San Joaquin	Quad Summary: Lone Tree Creek (3712154), Cedar Mtn. (3712155), Tracy (3712164), Midway (3712165)
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Sources:

COO56S0002	COOK, J. & A. ZIEGLER - MVZ #120842 1956-07-29
ZIE56S0001	ZIEGLER, A. - MVZ #120914 1956-06-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33090
Key Quad: Tracy (3712164)
Occurrence Number: 278

EO Index: 66751
Element Code: AMACC10010
Occurrence Last Updated: 2006-10-23

Scientific Name: *Antrozous pallidus*

Common Name: pallid bat

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

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_LC-Least Concern
 USFS_S-Sensitive
 WBWG_H-High Priority

General Habitat:

DESERTS, GRASSLANDS, SHRUBLANDS, WOODLANDS & FORESTS. MOST COMMON IN OPEN, DRY HABITATS WITH ROCKY AREAS FOR ROOSTING.

Micro Habitat:

ROOSTS MUST PROTECT BATS FROM HIGH TEMPERATURES. VERY SENSITIVE TO DISTURBANCE OF ROOSTING SITES.

Last Date Observed: 1941-10-12
Last Survey Date: 1941-10-12
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
 CORRAL HOLLOW, CASTLE ROCK.

Detailed Location:

Ecological:

Threats:

General:

1 MALE SPECIMEN COLLECTED BY CHARLES G. SIBLEY ON 12 OCT 1941, MVZ #109906.

PLSS: T03S, R04E, Sec. 25 (M)

Accuracy: 1/5 mile

Area (acres): 0

UTM: Zone-10 N4166536 E633165

Latitude/Longitude: 37.63632 / -121.49073

Elevation (feet):

County Summary:

San Joaquin

Quad Summary:

Tracy (3712164)

Sources:

MAN04S0028 MAMMAL NETWORKED INFORMATION SYSTEM (MANIS) - PRINTOUT OF ANTROZOUS PALLIDUS SPECIMEN RECORDS FROM MANIS. INCLUDES RECORDS FROM MVZ, CAS, KU, UWBM, UMNH, LACM, MSB, FMNH, TTU, MSU. 2004-12-09



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33090	EO Index: 19333	
Key Quad: Tracy (3712164)	Element Code: AMACD02011	
Occurrence Number: 17	Occurrence Last Updated: 1995-03-28	

Scientific Name: <i>Eumops perotis californicus</i>	Common Name: western mastiff bat
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDDB Element Ranks:	BLM_S-Sensitive
Global: G5T4	CDFW_SSC-Species of Special Concern
State: S3S4	WBWG_H-High Priority

General Habitat: MANY OPEN, SEMI-ARID TO ARID HABITATS, INCLUDING CONIFER & DECIDUOUS WOODLANDS, COASTAL SCRUB, GRASSLANDS, CHAPARRAL ETC	Micro Habitat: ROOSTS IN CREVICES IN CLIFF FACES, HIGH BUILDINGS, TREES & TUNNELS.
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Last Date Observed: 1991-07-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-07-18	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
CASTLE ROCK, ON THE EAST SIDE OF CORRAL HOLLOW ROAD, 7 MILES SSW OF TRACY.

Detailed Location:

Ecological:

Threats:

General:

2 INDIVIDUALS OBSERVED FLYING NEAR THE NORTH CLIFF FACE AT 11:40PM; IDENTIFIED BY LARGE SIZE AND LOUD, AUDIBLE SOUNDS.

PLSS: T03S, R04E, Sec. 25 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4166536 E633165	Latitude/Longitude: 37.63632 / -121.49073	Elevation (feet): 700

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:

MUL91F0015 MULLEN, D.A. (EIP ASSOCIATES) - FIELD SURVEY FORM FOR EUMOPS PEROTIS CALIFORNICUS 1991-07-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11683	EO Index: 62743
Key Quad: Vernalis (3712163)	Element Code: AMAEB01021
Occurrence Number: 1	Occurrence Last Updated: 2014-03-21

Scientific Name: <i>Sylvilagus bachmani riparius</i>	Common Name: riparian brush rabbit
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Endangered	Other Lists:
CNDDDB Element Ranks:	
Global: G5T1	
State: S1	

General Habitat: RIPARIAN AREAS ON THE SAN JOAQUIN RIVER IN NORTHERN STANISLAUS COUNTY.	Micro Habitat: DENSE THICKETS OF WILD ROSE, WILLOWS, AND BLACKBERRIES.
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Last Date Observed: 1932-11-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1932-11-04	Occurrence Rank: None
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Possibly Extirpated	

Location:
VICINITY OF KINCAIDS RANCH, ABOUT 2 MILES NORTHEAST OF VERNALIS ON THE WEST SIDE OF THE SAN JOAQUIN RIVER.

Detailed Location:
MAPPED TO INCLUDE LOCALITIES GIVEN FOR CAS SPECIMENS, "VERNALIS, 2 MILES NE" AND MVZ SPECIMENS, "KINCAID'S RANCH, 2 MI NE VERNALIS." EXACT COLLECTION LOCATIONS UNKNOWN.

Ecological:
SURVEYS 1971-85 & 1986 CONDUCTED JUST NE OF MAPPED AREA INDICATED LOCAL EXTIRPATION, BUT ARE INCONCLUSIVE DUE TO LIKELY LESS-THAN-EXHAUSTIVE METHODS.

Threats:
STREAM MODIFICATION, LAND USE CONVERSION, & VEGETATION REMOVAL REDUCED RIPARIAN HABITAT SINCE THE TIME OF COLLECTION.

General:
1 MALE & 1 FEMALE CAUGHT 5 MAR AND 3 SEP 1931 (CAS #8004 & 8005). 1 FEMALE CAUGHT 11 NOV 1931 (MVZ #57348, TYPE SPECIMEN). 1 MALE & 1 FEMALE CAUGHT 3 & 4 NOV 1932 (MVZ #55133 & 55134).

PLSS: T03S, R06E, Sec. 25 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4168159 E653548	Latitude/Longitude: 37.64776 / -121.25945	Elevation (feet): 50

County Summary: San Joaquin, Stanislaus	Quad Summary: Ripon (3712162), Vernalis (3712163)
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Sources:

MAN04S0023	MAMMAL NETWORKED INFORMATION SYSTEM (MANIS) - PRINTOUT OF SYLVILAGUS BACHMANI RIPARIUS SPECIMEN RECORDS FROM MANIS. THIS INCLUDES RECORDS FROM CAS & MVZ. 2004-12-10
WIL86R0002	WILLIAMS, D.F. & G.E. BASEY - RIPARIAN BRUSH RABBIT STUDY: POPULATION STATUS OF THE RIPARIAN BRUSH RABBIT. 1986-12-31



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



Map Index Number: 11232
Key Quad: Tracy (3712164)
Occurrence Number: 44

EO Index: 23923
Element Code: AMAFD01060
Occurrence Last Updated: 1989-08-10

Scientific Name: *Perognathus inornatus*

Common Name: San Joaquin Pocket Mouse

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2G3
 State: S2S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive

General Habitat:

GRASSLAND, OAK SAVANNA AND ARID SCRUBLAND IN THE SOUTHERN SACRAMENTO VALLEY, SALINAS VALLEY, SAN JOAQUIN VALLEY AND ADJACENT FOOTHILLS, SOUTH TO THE MOJAVE DESERT.

Micro Habitat:

ASSOCIATED WITH FINE-TEXTURED, SANDY, FRIABLE SOILS.

Last Date Observed: 1911-03-18
Last Survey Date: 1911-03-18
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
CORRAL HOLLOW, 8 MI SW TRACY.

Detailed Location:

Ecological:

Threats:

General:

MVZ #14484.

PLSS: T03S, R04E, Sec. 25 (M)
UTM: Zone-10 N4166750 E633133

Accuracy: 1 mile
Latitude/Longitude: 37.63825 / -121.49106

Area (acres): 0
Elevation (feet):

County Summary:

San Joaquin

Quad Summary:

Lone Tree Creek (3712154), Tracy (3712164), Midway (3712165)

Sources:
MVZ81S0001 MUSEUM OF VERTEBRATE ZOOLOGY (UNIVERSITY OF CALIFORNIA, BERKELEY) - LIST OF MUSEUM SPECIMENS (MAMMALS)
1981 1981-XX-XX



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



Map Index Number: 11535	EO Index: 23915
Key Quad: Solyo (3712153)	Element Code: AMAFD01060
Occurrence Number: 61	Occurrence Last Updated: 1989-08-10

Scientific Name: <i>Perognathus inornatus</i>	Common Name: San Joaquin Pocket Mouse
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat:	Micro Habitat:
GRASSLAND, OAK SAVANNA AND ARID SCRUBLAND IN THE SOUTHERN SACRAMENTO VALLEY, SALINAS VALLEY, SAN JOAQUIN VALLEY AND ADJACENT FOOTHILLS, SOUTH TO THE MOJAVE DESERT.	ASSOCIATED WITH FINE-TEXTURED, SANDY, FRIABLE SOILS.

Last Date Observed: 1987-06-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1987-06-15	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
HOSPITAL CREEK, 100 M E OF HWY 580, APPROX 8 MI SW OF SAN JOAQUIN RIVER CLUB.

Detailed Location:

Ecological:
HABITAT IS DIABLAN SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, AND SALVIA MELLIFERA, IN SHALLOW ROCKY SOILS.

Threats:
ACTIVE ROCK QUARRY IN THE AREA IS A POSSIBLE THREAT.

General:
SITE QUALITY POOR, ACCORDING TO SMITH. TWO ADULTS OBSERVED IN 1987.

PLSS: T04S, R06E, Sec. 07 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4163063 E645932	Latitude/Longitude: 37.60309 / -121.34678	Elevation (feet): 320

County Summary:	Quad Summary:
San Joaquin	Solyo (3712153)

Sources:
SMI87F0003 SMITH, J.R. - FIELD SURVEY FORM FOR PEROGNATHUS INORNATUS INORNATUS 1987-07-28



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



Map Index Number: 46059	EO Index: 46059
Key Quad: Tracy (3712164)	Element Code: AMAFD01060
Occurrence Number: 87	Occurrence Last Updated: 2001-10-05

Scientific Name: <i>Perognathus inornatus</i>	Common Name: San Joaquin Pocket Mouse
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks:	
Global: G2G3	
State: S2S3	

General Habitat:	Micro Habitat:
GRASSLAND, OAK SAVANNA AND ARID SCRUBLAND IN THE SOUTHERN SACRAMENTO VALLEY, SALINAS VALLEY, SAN JOAQUIN VALLEY AND ADJACENT FOOTHILLS, SOUTH TO THE MOJAVE DESERT.	ASSOCIATED WITH FINE-TEXTURED, SANDY, FRIABLE SOILS.

Last Date Observed: 2001-05-09	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2001-05-09	Occurrence Rank: Fair
Owner/Manager: PVT-GRANITE CONSTRUCTION CO	Trend: Unknown
Presence: Presumed Extant	

Location:
APPROXIMATELY 5 MILES SSW OF TRACY; BETWEEN INTERSTATE 580 AND THE CALIFORNIA AQUEDUCT.

Detailed Location:
APPROXIMATELY 0.3 MILES SOUTH OF THE INTERSECTION OF I-580 AND CORRAL HOLLOW ROAD, NE OF I-580.

Ecological:
HABITAT CONSISTS OF PREVIOUSLY MINED NON-NATIVE GRASSLAND. MINING WILL RESUME IN 2001 FOR A 20 YEAR PERIOD. OTHER SPECIES TRAPPED: PEROMYSCUS MANICULATUS, REITHRODONTOMYS MEGALOTUS AND DIPODOMYS HEERMANNI.

Threats:
AGGREGATE MINING. GRAZING TO SOUTH (SHEEP) AND NORTH (CATTLE) OF SITE.

General:
24 ADULT AND 4 JUVENILES TRAPPED AND AT THIS SITE BETWEEN 11 APR & 9 MAY 2001. ANIMALS RELOCATED TO PRIVATE PROPERTY IN THE AREA.

PLSS: T03S, R05E, Sec. 17 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4170424 E636788	Latitude/Longitude: 37.67082 / -121.44895	Elevation (feet): 275

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
LYN01F0001 LYNCH, S. (MONK AND ASSOCIATES, INC.) - FIELD SURVEY FORM FOR PEROGNATHUS INORNATUS INORNATUS 2001-05-09



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



Map Index Number:	11683	EO Index:	23796
Key Quad:	Vernalis (3712163)	Element Code:	AMAFF08081
Occurrence Number:	2	Occurrence Last Updated:	2005-09-26

Scientific Name:	<i>Neotoma fuscipes riparia</i>		Common Name:	riparian (=San Joaquin Valley) woodrat
Listing Status:	Federal:	Endangered	Rare Plant Rank:	
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDDB Element Ranks:	Global:	G5T1Q		
	State:	S1		

General Habitat:
 RIPARIAN AREAS ALONG THE SAN JOAQUIN, STANISLAUS & TUOLUMNE RIVERS.

Micro Habitat:
 NEED AREAS WITH MIX OF BRUSH & TREES. NEED SUITABLE NESTING SITES IN TREES, SNAGS OR LOGS.

Last Date Observed:	1932-11-04	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1932-11-04	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 KINCAID'S RANCH, 2 MI NE VERNALIS.

Detailed Location:
 LAT/LONG COORDINATES PROVIDED BY MANIS FALL IN THE SOUTHWESTERN PART OF THE OCCURRENCE AND HAVE AN UNCERTAINTY OF 0.5 MILES.

Ecological:
Threats:

General:
 1 MALE, MVZ #55130 (HOLOTYPE) AND 1 FEMALE, MVZ #55131 COLLECTED 4 NOV 1932 BY ROBERT T. ORR.

PLSS:	T03S, R06E, Sec. 25 (M)	Accuracy:	1 mile	Area (acres):	0
UTM:	Zone-10 N4168159 E653548	Latitude/Longitude:	37.64776 / -121.25945	Elevation (feet):	50

County Summary:	San Joaquin, Stanislaus	Quad Summary:	Ripon (3712162), Vernalis (3712163)
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Sources:

MAN05S0007	MAMMAL NETWORKED INFORMATION SYSTEM (MANIS) - PRINTOUT OF NEOTOMA FUSCIPES RIPARIA SPECIMEN RECORDS FROM MANIS. THIS INCLUDES RECORDS FROM MVZ. 2005-01-05
MVZ04S0008	MVZ SPECIMEN DATABASE QUERY (UNIVERSITY OF CALIFORNIA, BERKELEY) - PRINTOUT OF NEOTOMA FUSCIPES RIPARIA SPECIMENS FOR CALIFORNIA FROM THE MVZ DATABASE. 2004-XX-XX
MVZ81S0001	MUSEUM OF VERTEBRATE ZOOLOGY (UNIVERSITY OF CALIFORNIA, BERKELEY) - LIST OF MUSEUM SPECIMENS (MAMMALS) 1981 1981-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11692	EO Index: 23798	
Key Quad: Vernalis (3712163)	Element Code: AMAFF08081	
Occurrence Number: 4	Occurrence Last Updated: 2005-01-31	

Scientific Name: <i>Neotoma fuscipes riparia</i>	Common Name: riparian (=San Joaquin Valley) woodrat
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: None	Other Lists: CDFW_SSC-Species of Special Concern
CNDDDB Element Ranks:	
Global: G5T1Q	
State: S1	

General Habitat: RIPARIAN AREAS ALONG THE SAN JOAQUIN, STANISLAUS & TUOLUMNE RIVERS.	Micro Habitat: NEED AREAS WITH MIX OF BRUSH & TREES. NEED SUITABLE NESTING SITES IN TREES, SNAGS OR LOGS.
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Last Date Observed: 1935-10-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1935-10-19	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SAN JOAQUIN RIVER, 3 MI NE VERNALIS.

Detailed Location:
LAT/LONG COORDINATES PROVIDED BY MANIS FALL WITHIN THIS CIRCLE AND HAVE AN UNCERTAINTY OF 0.75 MILES.

Ecological:

Threats:

General:

MVZ #68794-68798. 3 MALES AND 2 FEMALES COLLECTED 18-19 OCT 1935 BY EMMETT T. HOOPER & DAVID H. JOHNSON.

PLSS: T03S, R06E, Sec. 13 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4170379 E653882	Latitude/Longitude: 37.66770 / -121.25521	Elevation (feet): 25

County Summary: San Joaquin, Stanislaus	Quad Summary: Ripon (3712162), Vernalis (3712163)
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Sources:

MAN05S0007	MAMMAL NETWORKED INFORMATION SYSTEM (MANIS) - PRINTOUT OF NEOTOMA FUSCIPES RIPARIA SPECIMEN RECORDS FROM MANIS. THIS INCLUDES RECORDS FROM MVZ. 2005-01-05
MVZ04S0008	MVZ SPECIMEN DATABASE QUERY (UNIVERSITY OF CALIFORNIA, BERKELEY) - PRINTOUT OF NEOTOMA FUSCIPES RIPARIA SPECIMENS FOR CALIFORNIA FROM THE MVZ DATABASE. 2004-XX-XX
MVZ81S0001	MUSEUM OF VERTEBRATE ZOOLOGY (UNIVERSITY OF CALIFORNIA, BERKELEY) - LIST OF MUSEUM SPECIMENS (MAMMALS) 1981 1981-XX-XX



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



Map Index Number: 48806	EO Index: 48806
Key Quad: Tracy (3712164)	Element Code: AMAJA03041
Occurrence Number: 37	Occurrence Last Updated: 2007-01-17

Scientific Name: <i>Vulpes macrotis mutica</i>	Common Name: San Joaquin kit fox
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.	Micro Habitat: NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.
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Last Date Observed: 1991-11-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-11-27	Occurrence Rank: Good
Owner/Manager: UNKNOWN, PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
5.5 MILES SSW OF TRACY; ALONG CORRAL HOLLOW ROAD APPROX 0.5 MILE WEST OF I-580.

Detailed Location:
1991 SOURCE GIVES LOCATION AS "CREEKBED NE LERRANDO RANCH HOUSE." 1/4 OF 1/4 OF SECTIONS MAPPED ACCORDING TO DATA GIVEN BY SOURCE. SIGHTING/ROAD KILL/DEN PRIOR TO 1972; 2 SIGHTINGS & DEN SOMETIME FROM 1972 TO JUL 1975 ACCORDING TO MORRELL.

Ecological:
ANNUAL GRASSES IN A HIGHLY DISTURBED CREEK CHANNEL (PREVIOUSLY DREDGED). SW 1/4 OF SE 1/4 OF SEC 19 & 20 HAVE GENTLE SLOPE, GRASSLAND, NO ROCK OR BRUSH COVER, AND GROUND SQUIRREL POPULATIONS. SITE QUALITY RANGES POOR TO GOOD.

Threats:
General:
1 SIGHTING IN VICINITY IN 1969, TRACKS, SCAT & 2 SIGHTINGS IN VICINITY IN 1973. TRACKS, SCATS, SIGHTING IN VICINITY 1983. 1 INDIVIDUAL OBS 10 MAY 1987. 1 ADULT & TRACKS OBS 19 JUN 1991. 2 INDIVIDUALS OBS AT ON 27 NOV 1991.

PLSS: T03S, R05E, Sec. 19 (M)	Accuracy: nonspecific area	Area (acres): 331
UTM: Zone-10 N4168537 E636401	Latitude/Longitude: 37.65387 / -121.45369	Elevation (feet): 320

County Summary:	Quad Summary:
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San Joaquin	Tracy (3712164)
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Sources:

BEL91F0002	BELL, H. & J. ALVAREZ - FIELD SURVEY FORM FOR VULPES MACROTIS MUTICA 1991-11-27
EIP91M0001	EIP ASSOCIATES - PREVIOUS VERIFIED KIT FOX SIGHTINGS (1973-1990?) - FROM AN UNIDENTIFIED ENVIRONMENTAL DOCUMENT - OBTAINED AT A SAN JOAQUIN KIT FOX MEETING ON MAY 7, 1993. 1991-XX-XX
MOR75M0001	MORRELL, S.H. - MAPS (6) SHOWING SAN JOAQUIN KIT FOX DISTRIBUTION AND ABUNDANCE IN 1975. 1975-XX-XX
MUL91F0010	MULLEN, D.A. & G. BEEMAN - FIELD SURVEY FORM FOR VULPES MACROTIS MUTICA 1991-06-19
SWI73R0001	SWICK, C.D. - DETERMINATION OF SAN JOAQUIN KIT FOX RANGE IN CCA, SJQ, ALA & TUL COUNTIES, CDFG 1973-XX-XX
WIL87F0011	WILLIAMS, D. (CALIFORNIA STATE UNIVERSITY, STANISLAUS) - FIELD SURVEY FORM FOR VULPES MACROTIS MUTICA 1987-05-10



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 67247
Key Quad: Tracy (3712164)
Occurrence Number: 547

EO Index: 67409
Element Code: AMAJA03041
Occurrence Last Updated: 2006-11-28

Scientific Name: *Vulpes macrotis mutica*

Common Name: San Joaquin kit fox

Listing Status: **Federal:** Endangered
 State: Threatened
CNDDDB Element Ranks: **Global:** G4T2
 State: S2

Rare Plant Rank:
Other Lists:

General Habitat:

ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.

Micro Habitat:

NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.

Last Date Observed: 1991-06-15
Last Survey Date: 1991-06-15
Owner/Manager: PVT
Presence: Presumed Extant

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

Location:
 TRACY MUNICIPAL AIRPORT.

Detailed Location:
 SIGHTED AT THE ENTRANCE GATE TO THE PARKING LOT.

Ecological:
 PAVED PARKING LOT.

Threats:
 FURTHER DEVELOPMENT IN THE AREA COULD PREVENT FORAGING.

General:
 1 INDIVIDUAL OBSERVED ON 15 JUN 1991.

PLSS: T03S, R05E, Sec. 08 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4172459 E638020	Latitude/Longitude: 37.68897 / -121.43460	Elevation (feet): 175

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
 MUL91F0006 MULLEN, D.A. & G. BEEMAN (EIP ASSOCIATES) - FIELD SURVEY FORM FOR VULPES MACROTIS MUTICA 1991-06-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 67249	EO Index: 67411
Key Quad: Tracy (3712164)	Element Code: AMAJA03041
Occurrence Number: 549	Occurrence Last Updated: 2006-12-05

Scientific Name: <i>Vulpes macrotis mutica</i>	Common Name: San Joaquin kit fox
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.	Micro Habitat: NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.
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Last Date Observed: 1991-09-17	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-09-17	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
VCB RANCH, ABOUT 0.8 MI SE OF THE JUNCTION OF HWY 132 WITH INTERSTATE 580.

Detailed Location:

Ecological:
NARROW OPENING THROUGH GRASSLANDS.

Threats:

General:

BREEDING, FORAGING AND DENNING SITE. 2 SIGHTINGS DURING CARNEGIE "NEW TOWN" SURVEY IN 1983. 1 ADULT OBSERVED ON 17 SEP 1991.

PLSS: T03S, R05E, Sec. 35 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4165918 E641673	Latitude/Longitude: 37.62948 / -121.39445	Elevation (feet): 340

County Summary:	Quad Summary:
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San Joaquin	Tracy (3712164)
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Sources:

EIP91M001	EIP ASSOCIATES - PREVIOUS VERIFIED KIT FOX SIGHTINGS (1973-1990?) - FROM AN UNIDENTIFIED ENVIRONMENTAL DOCUMENT - OBTAINED AT A SAN JOAQUIN KIT FOX MEETING ON MAY 7, 1993. 1991-XX-XX
MUL91F0003	MULLEN, D.A. & G. BEEMAN (EIP ASSOCIATES) - FIELD SURVEY FORM FOR VULPES MACROTIS MUTICA 1991-09-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 67266	EO Index: 67426
Key Quad: Tracy (3712164)	Element Code: AMAJA03041
Occurrence Number: 562	Occurrence Last Updated: 2006-11-29

Scientific Name: <i>Vulpes macrotis mutica</i>	Common Name: San Joaquin kit fox
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.	Micro Habitat: NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.
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Last Date Observed: 1991-08-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-08-15	Occurrence Rank: Poor
Owner/Manager: PVT-LYON'S DEVEL CO	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 2.4 MI S OF TRACY, 0.2 MI SE OF INTERSECTION OF VALPICO RD AND JEFFERSON RD.

Detailed Location:

Ecological:
OPEN, RECENTLY DISKED GRASSLAND AND NOW CROP LAND.

Threats:
DEVELOPMENT.

General:
TRACKS RECOVERED FROM BAITED SCENT STATIONS 13-15 AUG 1991.

PLSS: T03S, R05E, Sec. 04 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4174607 E638208	Latitude/Longitude: 37.70829 / -121.43206	Elevation (feet): 130

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:
MUL91F0008 MULLEN, D.A. & G. BEEMAN - FIELD SURVEY FORM FOR VULPES MACROTIS MUTICA 1991-08-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 67267	EO Index: 67427
Key Quad: Tracy (3712164)	Element Code: AMAJA03041
Occurrence Number: 563	Occurrence Last Updated: 2006-11-29

Scientific Name: <i>Vulpes macrotis mutica</i>	Common Name: San Joaquin kit fox
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.	Micro Habitat: NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.
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Last Date Observed: 1991-08-15	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-08-15	Occurrence Rank: Poor
Owner/Manager: PVT-LYON'S DEVEL CO	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 3.2 MI S OF TRACY, 0.8 MI W OF CARBONA, JUST N OF RAILROAD TRACKS.

Detailed Location:

Ecological:
OPEN, RECENTLY DISKED GRASSLAND AND NOW CROP LAND.

Threats:
DEVELOPMENT.

General:
TRACKS RECOVERED FROM BAITED SCENT STATIONS 13-15 AUG 1991.

PLSS: T03S, R05E, Sec. 04 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4173345 E638692	Latitude/Longitude: 37.69684 / -121.42681	Elevation (feet): 130

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:
MUL91F0008 MULLEN, D.A. & G. BEEMAN - FIELD SURVEY FORM FOR VULPES MACROTIS MUTICA 1991-08-15



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



Map Index Number: 67268	EO Index: 67428
Key Quad: Tracy (3712164)	Element Code: AMAJA03041
Occurrence Number: 564	Occurrence Last Updated: 2006-12-05

Scientific Name: <i>Vulpes macrotis mutica</i>	Common Name: San Joaquin kit fox
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.	Micro Habitat: NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.
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Last Date Observed: 1991-06-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-06-19	Occurrence Rank: Poor
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 1.2 MI SSW OF INTERSECTION OF I-580 AND JEFFERSON RD.

Detailed Location:
SIGHTING AND DEN IN VICINITY SOMETIME FROM 1972 THROUGH JUL 1975 AS REPORTED BY MORRELL. POSSIBLY THE SAME SIGHTINGS AS BY SWICK IN 1973.

Ecological:
GRAZED GRASSLANDS UNDER PG&E POWERLINES.

Threats:
CATTLE/SHEEP GRAZING.

General:
1 INDIVIDUAL & ACTIVEN DEN SIGHTED IN VICINITY IN 1973. SCAT & SIGHTINGS IN VICINITY IN CARNEGIE "NEW TOWN" SURVEYS IN 1983. 1 ADULT & TRACKS OBSERVED AT SCENT STATION ON 19 JUN 1991.

PLSS: T03S, R05E, Sec. 29 (M)	Accuracy: 80 meters	Area (acres): 0
UTM: Zone-10 N4167299 E637263	Latitude/Longitude: 37.64259 / -121.44415	Elevation (feet): 520

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:

EIP91M0001	EIP ASSOCIATES - PREVIOUS VERIFIED KIT FOX SIGHTINGS (1973-1990?) - FROM AN UNIDENTIFIED ENVIRONMENTAL DOCUMENT - OBTAINED AT A SAN JOAQUIN KIT FOX MEETING ON MAY 7, 1993. 1991-XX-XX
MUL91F0009	MULLEN, D.A. & G. BEEMAN (EIP ASSOCIATES) - FIELD SURVEY FORM FOR VULPES MACROTIS MUTICA 1991-06-19
SWI73R0001	SWICK, C.D. - DETERMINATION OF SAN JOAQUIN KIT FOX RANGE IN CCA, SJQ, ALA & TUL COUNTIES, CDFG 1973-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 67270	EO Index: 67430
Key Quad: Solyo (3712153)	Element Code: AMAJA03041
Occurrence Number: 566	Occurrence Last Updated: 2007-01-17

Scientific Name: <i>Vulpes macrotis mutica</i>	Common Name: San Joaquin kit fox
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.	Micro Habitat: NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.
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Last Date Observed: 1973-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1973-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 1 MI WSW OF INTERSECTION OF I-5 AND I-580.

Detailed Location:

Ecological:

Threats:

General:
SCAT OBSERVED AT UNKNOWN DATE IN VICINITY. 1 FOX AND 1 ACTIVE DEN SIGHTED IN 1973. 2 SIGHTINGS AND DEN SOMETIME FROM 1972 THROUGH JUL 1975.

PLSS: T04S, R06E, Sec. 07 (M)	Accuracy: nonspecific area	Area (acres): 883
UTM: Zone-10 N4162418 E645123	Latitude/Longitude: 37.59740 / -121.35606	Elevation (feet): 420

County Summary: San Joaquin	Quad Summary: Solyo (3712153)
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Sources:

EIP91M0001	EIP ASSOCIATES - PREVIOUS VERIFIED KIT FOX SIGHTINGS (1973-1990?) - FROM AN UNIDENTIFIED ENVIRONMENTAL DOCUMENT - OBTAINED AT A SAN JOAQUIN KIT FOX MEETING ON MAY 7, 1993. 1991-XX-XX
MOR75M0001	MORRELL, S.H. - MAPS (6) SHOWING SAN JOAQUIN KIT FOX DISTRIBUTION AND ABUNDANCE IN 1975. 1975-XX-XX
SWI73R0001	SWICK, C.D. - DETERMINATION OF SAN JOAQUIN KIT FOX RANGE IN CCA, SJQ, ALA & TUL COUNTIES, CDFG 1973-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 67271	EO Index: 67431
Key Quad: Tracy (3712164)	Element Code: AMAJA03041
Occurrence Number: 567	Occurrence Last Updated: 2007-01-17

Scientific Name: <i>Vulpes macrotis mutica</i>	Common Name: San Joaquin kit fox
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.	Micro Habitat: NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.
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Last Date Observed: 1991-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SW OF TRACY MUNICIPAL AIRPORT, E OF I-580.

Detailed Location:

Ecological:

Threats:

General:
ROAD KILLED INDIVIDUAL OBSERVED IN 1971. SIGHTING, ROAD KILL OR DEN PRIOR TO 1972. ANOTHER ROAD KILL REPORTED TO US FISH & WILDLIFE SERVICE IN 1991.

PLSS: T03S, R05E, Sec. 17 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4170630 E636759	Latitude/Longitude: 37.67268 / -121.44923	Elevation (feet): 240

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:

EIP91M0001	EIP ASSOCIATES - PREVIOUS VERIFIED KIT FOX SIGHTINGS (1973-1990?) - FROM AN UNIDENTIFIED ENVIRONMENTAL DOCUMENT - OBTAINED AT A SAN JOAQUIN KIT FOX MEETING ON MAY 7, 1993. 1991-XX-XX
MOR75M0001	MORRELL, S.H. - MAPS (6) SHOWING SAN JOAQUIN KIT FOX DISTRIBUTION AND ABUNDANCE IN 1975. 1975-XX-XX
SWI73R0001	SWICK, C.D. - DETERMINATION OF SAN JOAQUIN KIT FOX RANGE IN CCA, SJQ, ALA & TUL COUNTIES, CDFG 1973-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 67272	EO Index: 67432
Key Quad: Midway (3712165)	Element Code: AMAJA03041
Occurrence Number: 568	Occurrence Last Updated: 2007-01-17

Scientific Name: <i>Vulpes macrotis mutica</i>	Common Name: San Joaquin kit fox
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.	Micro Habitat: NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.
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Last Date Observed: 1973-XX-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1973-XX-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 6 MI SW OF TRACY, WHERE WESTERN PACIFIC RAILROAD INTERSECTS I-580.

Detailed Location:
SIGHTING, ROAD KILL OR DEN PRIOR TO 1972; SIGHTING AND DEN SOMETIME FROM 1972 THROUGH JUL 1975 REPORTED BY MORRELL.

Ecological:
Threats:

General:
1 ACTIVE DEN OBSERVED IN 1970, 1 SIGHTING & 2 ACTIVE DENS OBS IN 1973. OBSERVATIONS IN VICINITY REPORTED TO LLNL IN 1986, ALAMEDA CO. PLANNING DEPT IN 1989. DENS & SCAT OBS IN VICINITY, REPORTED TO US FISH & WILDLIFE SERVICE IN 1991.

PLSS: T03S, R04E, Sec. 03 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4173297 E630865	Latitude/Longitude: 37.69756 / -121.51557	Elevation (feet):

County Summary: San Joaquin	Quad Summary: Tracy (3712164), Midway (3712165)
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Sources:

EIP91M0001	EIP ASSOCIATES - PREVIOUS VERIFIED KIT FOX SIGHTINGS (1973-1990?) - FROM AN UNIDENTIFIED ENVIRONMENTAL DOCUMENT - OBTAINED AT A SAN JOAQUIN KIT FOX MEETING ON MAY 7, 1993. 1991-XX-XX
MOR75M0001	MORRELL, S.H. - MAPS (6) SHOWING SAN JOAQUIN KIT FOX DISTRIBUTION AND ABUNDANCE IN 1975. 1975-XX-XX
SWI73R0001	SWICK, C.D. - DETERMINATION OF SAN JOAQUIN KIT FOX RANGE IN CCA, SJQ, ALA & TUL COUNTIES, CDFG 1973-XX-XX



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



Map Index Number: 67823	EO Index: 67973
Key Quad: Tracy (3712164)	Element Code: AMAJA03041
Occurrence Number: 938	Occurrence Last Updated: 2007-01-17

Scientific Name: <i>Vulpes macrotis mutica</i>	Common Name: San Joaquin kit fox
Listing Status:	Rare Plant Rank:
Federal: Endangered	
State: Threatened	Other Lists:
CNDDDB Element Ranks:	
Global: G4T2	
State: S2	

General Habitat: ANNUAL GRASSLANDS OR GRASSY OPEN STAGES WITH SCATTERED SHRUBBY VEGETATION.	Micro Habitat: NEED LOOSE-TEXTURED SANDY SOILS FOR BURROWING, AND SUITABLE PREY BASE.
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Last Date Observed: 1975-07-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1975-07-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
ABOUT 6.9 MI S OF TRACY, 1.1 MI ENE OF INTERSECTION OF HWY 132 AND I-580.

Detailed Location:

Ecological:

Threats:

General:
SIGHTING SOMETIME FROM 1972 THROUGH JUL 1975.

PLSS: T03S, R05E, Sec. 28 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4167193 E639281	Latitude/Longitude: 37.64133 / -121.42130	Elevation (feet): 340

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:
MOR75M0001 MORRELL, S.H. - MAPS (6) SHOWING SAN JOAQUIN KIT FOX DISTRIBUTION AND ABUNDANCE IN 1975. 1975-XX-XX



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 56593
Key Quad: Tracy (3712164)
Occurrence Number: 75

EO Index: 56609
Element Code: AMAJF04010
Occurrence Last Updated: 2004-09-01

Scientific Name: *Taxidea taxus*

Common Name: American badger

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

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern
 IUCN_LC-Least Concern

General Habitat:

MOST ABUNDANT IN DRIER OPEN STAGES OF MOST SHRUB, FOREST, AND HERBACEOUS HABITATS, WITH FRIABLE SOILS.

Micro Habitat:

NEEDS SUFFICIENT FOOD, FRIABLE SOILS & OPEN, UNCULTIVATED GROUND. PREYS ON BURROWING RODENTS. DIGS BURROWS.

Last Date Observed: 1991-07-16
Last Survey Date: 1991-07-16
Owner/Manager: PVT
Presence: Presumed Extant

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

Location:

EAST OF CORRAL HOLLOW ROAD, 1.8 MILES DIRECTLY SOUTH OF BLACK BUTTE.

Detailed Location:

NW 1/4 OF SE 1/4 SECTION 36.

Ecological:

HABITAT CONSISTS OF GRAZED GRASSLAND. LAND CURRENTLY USED FOR CATTLE RANCHING.

Threats:

General:

ACTIVE BURROW OBSERVED ON 16 JUL 1991.

PLSS: T03S, R04E, Sec. 36 (M)

Accuracy: 1/10 mile

Area (acres): 0

UTM: Zone-10 N4165620 E634206

Latitude/Longitude: 37.62791 / -121.47910

Elevation (feet): 650

County Summary:

San Joaquin

Quad Summary:

Tracy (3712164)

Sources:

MUL91F0017 MULLEN, D.A. & G.A. BEEMAN (EIP ASSOCIATES) - FIELD SURVEY FORM FOR TAXIDEA TAXUS 1991-07-16



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 56595
Key Quad: Tracy (3712164)
Occurrence Number: 76

EO Index: 56611
Element Code: AMAJF04010
Occurrence Last Updated: 2004-09-01

Scientific Name: *Taxidea taxus*

Common Name: American badger

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

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern
 IUCN_LC-Least Concern

General Habitat:

MOST ABUNDANT IN DRIER OPEN STAGES OF MOST SHRUB, FOREST, AND HERBACEOUS HABITATS, WITH FRIABLE SOILS.

Micro Habitat:

NEEDS SUFFICIENT FOOD, FRIABLE SOILS & OPEN, UNCULTIVATED GROUND. PREYS ON BURROWING RODENTS. DIGS BURROWS.

Last Date Observed: 1991-07-15

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1991-07-15

Occurrence Rank: Poor

Owner/Manager: PVT

Trend: Unknown

Presence: Presumed Extant

Location:

SOUTH OF CORRAL HOLLOW ROAD, 1 MILE NORTHEAST OF BLACK BUTTE.

Detailed Location:

OBSERVED AT CREEK BED; SE 1/4 OF NW 1/4 SECTION 19. MAPPED ACCORDING TO LOCATION SHOWN ON MAP.

Ecological:

LOCATION CONSISTS OF DISTURBED AREAS OF OPEN GRASSLAND AND TAILINGS FROM MINING. LAND CURRENTLY USED FOR CATTLE RANCHING AND SHEEP.

Threats:

General:

AN ADULT BADGER WAS OBSERVED DURING NIGHT SPOTLIGHTING SURVEY ON 15 JUL 1991. THIS AREA IS USED FOR DENNING, BREEDING AND FORAGING.

PLSS: T03S, R05E, Sec. 19 (M)

Accuracy: 1/10 mile

Area (acres): 0

UTM: Zone-10 N4169597 E635380

Latitude/Longitude: 37.66357 / -121.46507

Elevation (feet): 300

County Summary:

San Joaquin

Quad Summary:

Tracy (3712164)

Sources:

MUL91F0018 MULLEN, D.A. & G.A. BEEMAN (EIP ASSOCIATES) - FIELD SURVEY FORM FOR TAXIDEA TAXUS 1991-07-15



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 56597
Key Quad: Solyo (3712153)
Occurrence Number: 77

EO Index: 56613
Element Code: AMAJF04010
Occurrence Last Updated: 2004-09-01

Scientific Name: *Taxidea taxus*

Common Name: American badger

Listing Status: **Federal:** None
 State: None
CNDDB Element Ranks: **Global:** G5
 State: S3

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern
 IUCN_LC-Least Concern

General Habitat:

MOST ABUNDANT IN DRIER OPEN STAGES OF MOST SHRUB, FOREST, AND HERBACEOUS HABITATS, WITH FRIABLE SOILS.

Micro Habitat:

NEEDS SUFFICIENT FOOD, FRIABLE SOILS & OPEN, UNCULTIVATED GROUND. PREYS ON BURROWING RODENTS. DIGS BURROWS.

Last Date Observed: 1992-09-14
Last Survey Date: 1992-09-14
Owner/Manager: PVT
Presence: Presumed Extant

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

Location:

EAST OF HOSPITAL CREEK, 2 MILES SW OF THE INTERSECTION OF I-580 AND I-5.

Detailed Location:

MAPPED ACCORDING TO LOCATION GIVEN ON MAP.

Ecological:

HABITAT CONSISTS OF WASHED SIDES ALONG CREEK IN ROLLING GRASSLAND. LAND CURRENTLY USED FOR CATTLE RANCHING.

Threats:

General:

ACTIVE BURROW SITE OBSERVED ON 14 SEP 1992.

PLSS: T04S, R05E, Sec. 13 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4160589 E643649	Latitude/Longitude: 37.58115 / -121.37311	Elevation (feet): 600

County Summary:

San Joaquin

Quad Summary:

Solyo (3712153)

Sources:

MUL92F0010 MULLEN, D.A. & G.A. BEEMAN - FIELD SURVEY FORM FOR TAXIDEA TAXUS 1992-09-14



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



Map Index Number: 56780	EO Index: 56796
Key Quad: Tracy (3712164)	Element Code: AMAJF04010
Occurrence Number: 132	Occurrence Last Updated: 2004-09-14

Scientific Name: <i>Taxidea taxus</i>	Common Name: American badger
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern
CNDDDB Element Ranks:	
Global: G5	
State: S3	

General Habitat:	Micro Habitat:
MOST ABUNDANT IN DRIER OPEN STAGES OF MOST SHRUB, FOREST, AND HERBACEOUS HABITATS, WITH FRIABLE SOILS.	NEEDS SUFFICIENT FOOD, FRIABLE SOILS & OPEN, UNCULTIVATED GROUND. PREYS ON BURROWING RODENTS. DIGS BURROWS.

Last Date Observed: 1989-05-23	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1989-05-23	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
3.8 MILES WEST OF HIGHWAY 580, CORRAL HOLLOW ROAD, 8.5 MILES SOUTHWEST OF TRACY.

Detailed Location:
MVZ LOCATION: CORRAL HOLLOW, T3S R4E. CAS LOCATION: 3.8 MILES WEST OF HIGHWAY 580, CORRAL HOLLOW ROAD (MAPPED SW OF CASTLE ROCK).

Ecological:
Threats:

General:
MALE (MVZ #124325) COLLECTED BY DANIEL C. WILHOFT AND ALAN C. ZIEGLER ON 29 APR 1959. FEMALE ROAD KILL (CAS #23104) COLLECTED BY J. V. VINDUM AND J. P. O'BRIEN ON 23 MAY 1989.

PLSS: T03S, R04E, Sec. 35 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4166281 E632593	Latitude/Longitude: 37.63411 / -121.49725	Elevation (feet): 520

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164), Midway (3712165)

Sources:

CAS04S0004	CALIFORNIA ACADEMY OF SCIENCES - CAS MAMMALOGY HOLDINGS FOR TAXIDEA TAXUS IN CALIFORNIA 2004-09-13
DFG86R0004	CALIFORNIA DEPARTMENT OF FISH & GAME - MAMMALIAN SPECIES OF SPECIAL CONCERN IN CALIFORNIA, AMERICAN BADGER ACCOUNT. 1986-XX-XX
MVZ04S0005	MVZ SPECIMEN DATABASE QUERY (UNIVERSITY OF CALIFORNIA, BERKELEY) - PRINTOUT OF TAXIDEA TAXUS SPECIMENS FOR CALIFORNIA FROM THE MVZ DATABASE. 2004-09-13



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



Map Index Number: 11363
Key Quad: Tracy (3712164)
Occurrence Number: 215

EO Index: 57028
Element Code: AMAJF04010
Occurrence Last Updated: 2004-10-25

Scientific Name: *Taxidea taxus*

Common Name: American badger

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

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern
 IUCN_LC-Least Concern

General Habitat:
 MOST ABUNDANT IN DRIER OPEN STAGES OF MOST SHRUB, FOREST, AND HERBACEOUS HABITATS, WITH FRIABLE SOILS.

Micro Habitat:
 NEEDS SUFFICIENT FOOD, FRIABLE SOILS & OPEN, UNCULTIVATED GROUND. PREYS ON BURROWING RODENTS. DIGS BURROWS.

Last Date Observed: 1938-XX-XX
Last Survey Date: 1938-XX-XX
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
 NEAR TRACY; TRACY.

Detailed Location:
 MAPPED NEAR LAT/LONG GIVEN BY MVZ WHICH IS AT TRACY; MAX ERROR DISTANCE FOR MVZ RECORD: 1 MILE. ELEVATION GIVEN AS 200 FT.

Ecological:

Threats:

General:

MVZ #87965; COLLECTED (NEAR TRACY) BY J. E. SIMPSON AND J. HOPTRY DURING 1938. 14 COLLECTED (LOCATION GIVEN AS TRACY), USNM.

PLSS: T02S, R05E, Sec. 21 (M)

Accuracy: 1 mile

Area (acres): 0

UTM: Zone-10 N4178125 E638678

Latitude/Longitude: 37.73992 / -121.42606

Elevation (feet): 50

County Summary:

Quad Summary:

San Joaquin

Tracy (3712164), Union Island (3712174)

Sources:

DFG86R0004 CALIFORNIA DEPARTMENT OF FISH & GAME - MAMMALIAN SPECIES OF SPECIAL CONCERN IN CALIFORNIA, AMERICAN BADGER ACCOUNT. 1986-XX-XX

MVZ04S0005 MVZ SPECIMEN DATABASE QUERY (UNIVERSITY OF CALIFORNIA, BERKELEY) - PRINTOUT OF TAXIDEA TAXUS SPECIMENS FOR CALIFORNIA FROM THE MVZ DATABASE. 2004-09-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 34683
Key Quad: Tracy (3712164)
Occurrence Number: 113

EO Index: 29199
Element Code: ARAAD02030
Occurrence Last Updated: 1996-02-28

Scientific Name: *Emys marmorata*

Common Name: western pond turtle

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G3G4
 State: S3

Rare Plant Rank:
Other Lists: BLM_S-Sensitive
 CDFW_SSC-Species of Special Concern
 IUCN_VU-Vulnerable
 USFS_S-Sensitive

General Habitat:

A THOROUGHLY AQUATIC TURTLE OF PONDS, MARSHES, RIVERS, STREAMS & IRRIGATION DITCHES, USUALLY WITH AQUATIC VEGETATION, BELOW 6000 FT ELEVATION.

Micro Habitat:

NEED BASKING SITES AND SUITABLE (SANDY BANKS OR GRASSY OPEN FIELDS) UPLAND HABITAT UP TO 0.5 KM FROM WATER FOR EGG-LAYING.

Last Date Observed: 1993-05-10
Last Survey Date: 1993-05-10
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:

CORRAL HOLLOW CREEK; 2.0 ROAD MILES WEST OF INTERSTATE 580 ON CORRAL HOLLOW ROAD.

Detailed Location:

2 SITES: ONE AT 1.8 ROAD MILES WEST OF I-580 ON CORRAL HOLLOW ROAD, OTHER SITE UNDER THIRD BRIDGE CROSSING CORRAL HOLLOW CREEK ALONG CORRAL HOLLOW ROAD WEST OF I-580.

Ecological:

RIPARIAN WITH DENSE WILLOW.

Threats:

CATTLE AND SHEEP GRAZING IN UPLAND HABITAT.

General:

2 JUVENILES OBSERVED BASKING (1 AT EACH SITE) BY E. ELY; 3 RANA AURORA DRAYTONI PRESENT.

PLSS: T03S, R04E, Sec. 24 (M)	Accuracy: specific area	Area (acres): 13
UTM: Zone-10 N4168784 E633802	Latitude/Longitude: 37.65648 / -121.48310	Elevation (feet): 330

County Summary:

San Joaquin

Quad Summary:

Tracy (3712164)

Sources:

ELY93F0052 ELY, E. - FIELD SURVEY FORM FOR CLEMMYS MARMORATA (2 SITES) & RANA DRAYTONII 1993-05-10



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23072	EO Index: 7953	
Key Quad: Tracy (3712164)	Element Code: ARACF12100	
Occurrence Number: 576	Occurrence Last Updated: 1993-06-03	

Scientific Name: <i>Phrynosoma blainvillii</i>	Common Name: coast horned lizard
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G3G4	CDFW_SSC-Species of Special Concern
State: S3S4	IUCN_LC-Least Concern

General Habitat: FREQUENTS A WIDE VARIETY OF HABITATS, MOST COMMON IN LOWLANDS ALONG SANDY WASHES WITH SCATTERED LOW BUSHES.	Micro Habitat: OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF LOOSE SOIL FOR BURIAL, & ABUNDANT SUPPLY OF ANTS & OTHER INSECTS.
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Last Date Observed: 1991-06-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1991-06-22	Occurrence Rank: Poor
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
1.25 MILES SW OF I-580, 2.7 MILES SOUTH OF THE TRACY AIRPORT.

Detailed Location:
Ecological:
HABITAT CONSISTS OF SPARSE, GRAZED GRASSLAND.

Threats:
General:
3 JUVENILES OBSERVED.

PLSS: T03S, R05E, Sec. 29 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4167435 E636889	Latitude/Longitude: 37.64387 / -121.44837	Elevation (feet): 450

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:
MUL91F0002 MULLEN, D.A. & G.A. BEEMAN - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM (FRONTALE POPULATION) 1991-06-22



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 39895	EO Index: 34897	
Key Quad: Midway (3712165)	Element Code: ARACF12100	
Occurrence Number: 601	Occurrence Last Updated: 1998-10-05	

Scientific Name: <i>Phrynosoma blainvillii</i>	Common Name: coast horned lizard
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists:
CNDDB Element Ranks:	BLM_S-Sensitive
Global: G3G4	CDFW_SSC-Species of Special Concern
State: S3S4	IUCN_LC-Least Concern

General Habitat: FREQUENTS A WIDE VARIETY OF HABITATS, MOST COMMON IN LOWLANDS ALONG SANDY WASHES WITH SCATTERED LOW BUSHES.	Micro Habitat: OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF LOOSE SOIL FOR BURIAL, & ABUNDANT SUPPLY OF ANTS & OTHER INSECTS.
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Last Date Observed: 1990-06-07	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1990-06-07	Occurrence Rank: Unknown
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
~2.5 MILES WEST OF I-580 & CORRAL HOLLOW ROAD JUNCTION, 2.3 MILES SOUTH OF CROSSING OF WESTERN PACIFIC RAILWAY & I-580.

Detailed Location:
AREA SEVERAL MILES SOUTHWEST OF TRACY.

Ecological:
HEAVILY GRAZED, INTRODUCED ANNUAL GRASSLAND, IN LOW HILLS.

Threats:
GRAZING, PLANNED FOR DEVELOPMENT, LOCATION WHERE THE LIZARD WAS FOUND IS PLANNED FOR DEVELOPMENT OF AN ARTIFICIAL LAKE.

General:
1 FOUND 7 JUNE 1990. MEASUREMENTS: TOTAL LENGTH 5"; NOSE TO BASE OF TAIL 3.5"; WIDTH AT WIDEST POINT, 2".

PLSS: T03S, R04E, Sec. 14 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4170239 E632163	Latitude/Longitude: 37.66983 / -121.50141	Elevation (feet): 700

County Summary: San Joaquin	Quad Summary: Tracy (3712164), Midway (3712165)
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Sources:
SCH90F0017 SCHMOLDT, D.E. - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM (FRONTALE POPULATION, CALIFORNIA HORNED LIZARD) 1990-07-06



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 66068
Key Quad: Tracy (3712164)
Occurrence Number: 654

EO Index: 66147
Element Code: ARACF12100
Occurrence Last Updated: 2009-08-26

Scientific Name: *Phrynosoma blainvillii*

Common Name: coast horned lizard

Listing Status:
Federal: None
State: None
CNDDDB Element Ranks:
Global: G3G4
State: S3S4

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

General Habitat:

FREQUENTS A WIDE VARIETY OF HABITATS, MOST COMMON IN LOWLANDS ALONG SANDY WASHES WITH SCATTERED LOW BUSHES.

Micro Habitat:

OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF LOOSE SOIL FOR BURIAL, & ABUNDANT SUPPLY OF ANTS & OTHER INSECTS.

Last Date Observed: 2003-05-30
Last Survey Date: 2003-05-30
Owner/Manager: DOE-LAWRENCE LIVERMORE LAB
Presence: Presumed Extant

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

Location:
 LAWRENCE LIVERMORE NATIONAL LABORATORY, ~0.4 MI NW OF CASTLE ROCK.

Detailed Location:
 MAPPED ACCORDING TO COORDINATES GIVEN IN SOURCE, IN E1/2 OF E1/2 SEC 26.

Ecological:
 GRASSLANDS, SAGE SCRUB.

Threats:
 SURROUNDING LAND USE IS AN EXPLOSIVES TEST SITE.

General:
 1 OBSERVED 04 MAY 1995. 1 INDIVIDUAL CAPTURED & RELEASED ON 14 APR 1999. 2 INDIVIDUALS OBSERVED BETWEEN 30 FEB AND 10 MAR 2002. 3 MALES, 8 FEMALES & 2 JUVENILES OBSERVED ON 8 APR 2003. 1 FEMALE, 1 MALE OBSERVED ON 30 MAY 2003.

PLSS: T03S, R04E, Sec. 26 (M)	Accuracy: specific area	Area (acres): 41
UTM: Zone-10 N4167247 E632658	Latitude/Longitude: 37.64280 / -121.49634	Elevation (feet): 830

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

- Sources:**
- VAN02F0035 VAN HATTEM, M. - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM (FRONTALE POPULATION) 2002-02-30
 - VAN03F0008 VAN HATTEM, M. - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM (FRONTALE POPULATION) 2003-04-08
 - VAN03U0001 VAN HATTEM, M.G. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - 2002-2003 SCIENTIFIC COLLECTING PERMIT REPORT 2003-08-21
 - WOO04U0001 WOOLLETT, J.S. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - SCIENTIFIC COLLECTING REPORT OF SPECIMENS CAPTURED OR SALVAGED [SC-002987] 2004-03-23
 - WOO95F0025 WOOLLETT, J. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - FIELD SURVEY FORM FOR PHRYNOSOMA CORONATUM (FRONTALE POPULATION) 1995-05-04



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 33715
Key Quad: Tracy (3712164)
Occurrence Number: 2

EO Index: 30702
Element Code: ARADB21021
Occurrence Last Updated: 2006-08-29

Scientific Name: *Masticophis flagellum ruddocki*

Common Name: San Joaquin whipsnake

Listing Status:
Federal: None
State: None

Rare Plant Rank:
Other Lists: CDFW_SSC-Species of Special Concern

CNDDDB Element Ranks:
Global: G5T2T3
State: S2?

General Habitat:

OPEN, DRY HABITATS WITH LITTLE OR NO TREE COVER. FOUND IN VALLEY GRASSLAND & SALTBUSH SCRUB IN THE SAN JOAQUIN VALLEY.

Micro Habitat:

NEEDS MAMMAL BURROWS FOR REFUGE AND OVIPOSITION SITES.

Last Date Observed: 1991-05-19

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1991-05-19

Occurrence Rank: Good

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

CORRAL HOLLOW ROAD, NEAR THE MOUTH OF CORRAL HOLLOW, 6 MILES SSW OF TRACY.

Detailed Location:

SPECIFIC LOCATION FOUND AT LAT/LONG 373921/1212859 ON 19 MAY 1991. COLLECTIONS AT "CORRAL HOLLOW, 2 MI W OF HWY 580" & "CORRAL HOLLOW RD, 3 MI W OF HWY 580" IN 1981 & 1989, INCLUDED HERE.

Ecological:

HABITAT ADJACENT TO CORRAL HOLLOW ROAD CONSISTS OF RIPARIAN.

Threats:

POSSIBLY THREATENED BY CATTLE GRAZING.

General:

1 MALE SPECIMEN COLLECTED BY F.E. ELY 29 MAY 1981, CAS #153489. 1 MALE SPECIMEN COLLECTED BY J.P. O'BRIEN 6 APR 1989, CAS #173198. 1 DOR SPECIMEN COLLECTED (FOR ID ONLY, THEN DISCARDED) 19 MAY 1991.

PLSS: T03S, R04E, Sec. 24 (M)

Accuracy: nonspecific area

Area (acres): 64

UTM: Zone-10 N4168690 E634028

Latitude/Longitude: 37.65560 / -121.48055

Elevation (feet): 500

County Summary:

San Joaquin

Quad Summary:

Tracy (3712164)

Sources:

CAS02S0004 CALIFORNIA ACADEMY OF SCIENCES - CAS HERPETOLOGY HOLDINGS (INCLUDES STANFORD UNIVERSITY COLLECTIONS) FOR MASTICOPHIS FLAGELLUM RUDDOCKI 2002-07-30

MUL91F0016 MULLEN, D.A. & G.A. BEEMAN - FIELD SURVEY FORM FOR MASTICOPHIS FLAGELLUM RUDDOCKI 1991-05-19



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 40665

EO Index: 35672

Key Quad: Midway (3712165)

Element Code: ARADB21021

Occurrence Number: 20

Occurrence Last Updated: 2010-07-07

Scientific Name: *Masticophis flagellum ruddocki*

Common Name: San Joaquin whipsnake

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: CDFW_SSC-Species of Special Concern

CNDDB Element Ranks: **Global:** G5T2T3

State: S2?

General Habitat:

OPEN, DRY HABITATS WITH LITTLE OR NO TREE COVER. FOUND IN VALLEY GRASSLAND & SALTBUSH SCRUB IN THE SAN JOAQUIN VALLEY.

Micro Habitat:

NEEDS MAMMAL BURROWS FOR REFUGE AND OVIPOSITION SITES.

Last Date Observed: 2004-09-15

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2004-09-15

Occurrence Rank: Excellent

Owner/Manager: UC-BERKELEY, DOE-LLNL

Trend: Unknown

Presence: Presumed Extant

Location:

NORTH OF CORRAL HOLLOW RD, LAWRENCE LIVERMORE NATIONAL LABORATORY SITE 300, BETWEEN LIVERMORE AND TRACY.

Detailed Location:

MAPPED TO INCLUDE MANY SECTIONS BASED ON SWA03R01. GENERAL LOCATION "CORRAL HOLLOW, NEAR CASTLE ROCK" & SPECIFIC LOCATIONS IN SWA02F08, SWA02R01, SWA98R0003 & VAN02F0019 ALSO INC HERE. T3S R4E SECTIONS 15-17, 20-22, 26-29, PARTS 25, 33-36.

Ecological:

HABITAT CONSISTS OF GRASSLAND & OPEN-CANOPY SCRUB, DOMINATED BY BLACK SAGE (SALVIA MELLIFERA) WITH A FEW SCATTERED OAKS. FRESHWATER EMERGENT WETLANDS & SEEPS. SURROUNDING AREA USED AS EXPLOSIVES TEST SITE.

Threats:

General:

1 MALE COLLECTED BY F.E. ELY ON 29 MAY 1981, CAS #153490. 1 ADULT OBS MAY 1993. 1 ADULT OBS MAY 1998. 9 ADULTS CAPTURED 17 APR-8 JUL 1998. 14 CAPTURED 21 APR-7 OCT & 4 OBS MAY 2002. 2 CAPTURED IN 2003. 8 OBSERVED 25 APR-15 SEP 2004.

PLSS: T03S, R04E, Sec. 27 (M)

Accuracy: nonspecific area

Area (acres): 7,202

UTM: Zone-10 N4167327 E629693

Latitude/Longitude: 37.64394 / -121.52992

Elevation (feet): 1,300

County Summary:

Alameda, San Joaquin

Quad Summary:

Tracy (3712164), Midway (3712165)



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



Sources:

CAS02S0004	CALIFORNIA ACADEMY OF SCIENCES - CAS HERPETOLOGY HOLDINGS (INCLUDES STANFORD UNIVERSITY COLLECTIONS) FOR MASTICOPHIS FLAGELLUM RUDDOCKI 2002-07-30
SWA02F0008	SWAIM, K. (SWAIM BIOLOGICAL, INC.) - FIELD SURVEY FORM FOR MASTICOPHIS FLAGELLUM RUDDOCKI 2002-10-07
SWA02R0001	SWAIM, K. (SWAIM BIOLOGICAL, INC.) - 2002 ANNUAL REPORT - SCIENTIFIC COLLECTING PERMITS 2002-XX-XX
SWA03R0001	SWAIM, K. (SWAIM BIOLOGICAL, INC.) - 2003 ANNUAL REPORT OF SPECIMENS 2003-XX-XX
SWA04F0015	SWAIM, K. (SWAIM BIOLOGICAL, INC.) - FIELD SURVEY FORM FOR MASTICOPHIS FLAGELLUM RUDDOCKI 2004-09-15
SWA98F0001	SWAIM, K. (SWAIM BIOLOGICAL, INC.) - FIELD SURVEY FORM FOR MASTICOPHIS FLAGELLUM RUDDOCKI 1998-07-08
SWA98R0002	SWAIM, K. (SWAIM BIOLOGICAL, INC.) - RESULTS OF A LIVE-TRAPPING SURVEY FOR THE ALAMEDA WHIPSNAKE AT THE SITE 300 FACILITIES OF LAWRENCE LIVERMORE NATIONAL LABORATORY. INCLUDES LOCATION INFO FOR SAN JOAQUIN WHIPSNAKE. 1998-12-14
SWA98R0003	SWAIM, K.E. (SWAIM BIOLOGICAL, INC.) - 1998 ANNUAL REPORT, SCIENTIFIC COLLECTING PERMIT #80159-01 1998-XX-XX
VAN02F0019	VAN HATTEM, M. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - FIELD SURVEY FORM FOR MASTICOPHIS FLAGELLUM RUDDOCKI 2002-05-26
WOO93F0006	WOOLLETT, J. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - FIELD SURVEY FORM FOR MASTICOPHIS FLAGELLUM RUDDOCKI 1993-05-07
WOO98F0008	WOOLLETT, J. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - FIELD SURVEY FORM FOR MASTICOPHIS FLAGELLUM RUDDOCKI 1998-05-01



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



Map Index Number:	11669	EO Index:	15678
Key Quad:	Vernalis (3712163)	Element Code:	CTT61410CA
Occurrence Number:	19	Occurrence Last Updated:	1998-09-02

Scientific Name:	<i>Great Valley Cottonwood Riparian Forest</i>	Common Name:	Great Valley Cottonwood Riparian Forest
Listing Status:	Federal: None State: None	Rare Plant Rank:	
CNDDB Element Ranks:	Global: G2 State: S2.1	Other Lists:	

General Habitat: **Micro Habitat:**

Last Date Observed:	1985-10-28	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1985-10-28	Occurrence Rank:	Fair
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
SAN JOAQUIN RIVER UPSTREAM AND DOWNSTREAM OF DURHAM FERRY SRA 3-4 MILES.

Detailed Location:

Ecological:
VERY OPEN POPULUS FREMONTII FOREST THROUGH THICKETS OF WILLOW SCRUB. SEVERAL OXBOWS AND RIVERINE GRASSLANDS WITHIN MAPPED AREA.

Threats:
RECEIVES HEAVY RECREATIONAL USE.

General:
AREA WITHIN DESIGNATED FLOODWAY IN FAIR CONDITION, 1985. SEE
WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

PLSS: T03S, R06E, Sec. 12 (M)	Accuracy: specific area	Area (acres): 1,472
UTM: Zone-10 N4172565 E653494	Latitude/Longitude: 37.68747 / -121.25915	Elevation (feet): 25

County Summary:	Quad Summary:
San Joaquin, Stanislaus	Ripon (3712162), Vernalis (3712163)

Sources:
BUR80U0005 BURKE, M.T. - ELEMENT PRESERVATION PLAN RIPARIAN FORESTS, THE NATURE CONSERVANCY. 1980-07-XX
HOL85F0096 HOLLAND, R.F. - FIELD SURVEY FORM FOR GREAT VALLEY COTTONWOOD RIPARIAN FOREST (NC62142) 1985-10-28



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



Map Index Number:	95292	EO Index:	96429
Key Quad:	Tracy (3712164)	Element Code:	IICOL48011
Occurrence Number:	297	Occurrence Last Updated:	2015-02-24

Scientific Name:	<i>Desmocerus californicus dimorphus</i>	Common Name:	valley elderberry longhorn beetle
Listing Status:	Federal: Threatened	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3T2		
	State: S2		

General Habitat:	Micro Habitat:
OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Last Date Observed:	2002-05-30	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-05-30	Occurrence Rank:	Unknown
Owner/Manager:	DOE-LAWRENCE LIVERMORE LAB	Trend:	Unknown
Presence:	Presumed Extant		

Location:
 ABOUT 0.2 MI NNW OF CASTLE ROCK, 1.1 MI SW OF BLACK BUTTE, W SIDE OF CORRAL HOLLOW RD, 2.9 MI SW OF I-580 INTERSECTION.

Detailed Location:
 MAPPED ACCORDING TO PROVIDED MAP FOR ELDERBERRY SHURB LOCATIONS. SITE PART OF THE LAWRENCE LIVERMORE NATIONAL LABORATORY EXPERIMENTAL TEST SITE 300 - AREA F.

Ecological:
Threats:

General:
 SIX EXIT HOLES OBSERVED DURING 4 SURVEYS CONDUCTED BETWEEN 8 APR-30 MAY 2002.

PLSS: T03S, R04E, Sec. 25 (M)	Accuracy: specific area	Area (acres): 9
UTM: Zone-10 N4166970 E633025	Latitude/Longitude: 37.64025 / -121.49223	Elevation (feet): 190

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
 ARN04R0003 ARNOLD, R. & J. WOOLLETT (LAWRENCE LIVERMORE NATIONAL LABORATORY) - REPORT ON THE THREATENED VALLEY ELDERBERRY LONGHORN BEETLE AND ITS ELDERBERRY FOOD PLANT AT THE LAWRENCE LIVERMORE NATIONAL LABORATORY - SITE 300 2004-11-16



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 57316

EO Index: 57332

Key Quad: Vernalis (3712163)

Element Code: IICOL49010

Occurrence Number: 10

Occurrence Last Updated: 2004-11-02

Scientific Name: *Anthicus sacramento*

Common Name: Sacramento anthicid beetle

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: IUCN_EN-Endangered

CNDDDB Element Ranks: **Global:** G1

State: S1

General Habitat:

RESTRICTED TO SAND DUNE AREAS.

Micro Habitat:

INHABIT SAND SLIPFACES AMONG BAMBOO AND WILLOW BUT MAY NOT DEPEND ON PRESENCE OF THESE PLANT SPECIES.

Last Date Observed: 1990-09-22

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1990-09-22

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

DREDGED MATERIAL DISPOSAL SITE AT MOUTH OF BANTA CARBONA CANAL.

Detailed Location:

Ecological:

UNKNOWN.

Threats:

General:

1 ADULT COLLECTED IN PITFALL TRAP.

PLSS: T02S, R06E, Sec. 34 (M)

Accuracy: nonspecific area

Area (acres): 12

UTM: Zone-10 N4176558 E650022

Latitude/Longitude: 37.72401 / -121.29769

Elevation (feet): 10

County Summary:

San Joaquin

Quad Summary:

Vernalis (3712163)

Sources:

DAV91R0001 DAVIS, M. (HUMBOLDT STATE UNIVERSITY) - ASPECTS OF THE ECOLOGY OF ANTHICUS SACRAMENTO CHANDLER & ANTHICUS ANTIOCHENSIS WERNER (COLEOPTERA: ANTHICIDAE) 1991-08-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 57330

EO Index: 57346

Key Quad: Vernalis (3712163)

Element Code: IICOL49010

Occurrence Number: 11

Occurrence Last Updated: 2004-10-12

Scientific Name: *Anthicus sacramento*

Common Name: Sacramento anthicid beetle

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: IUCN_EN-Endangered

CNDDDB Element Ranks: **Global:** G1

State: S1

General Habitat:

RESTRICTED TO SAND DUNE AREAS.

Micro Habitat:

INHABIT SAND SLIPFACES AMONG BAMBOO AND WILLOW BUT MAY NOT DEPEND ON PRESENCE OF THESE PLANT SPECIES.

Last Date Observed: 1990-09-08

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1990-09-08

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

LARGE POINT BAR ON NORTH BANK AT BEND OF SAN JOAQUIN RIVER AT RIVER MILE 65.2R.

Detailed Location:

Ecological:

SAND BAR.

Threats:

General:

1 ADULT COLLECTED IN 6 PITFALL TRAPS BETWEEN 2-8 SEP 1990.

PLSS: T03S, R06E, Sec. 02 (M)

Accuracy: nonspecific area

Area (acres): 5

UTM: Zone-10 N4174996 E651833

Latitude/Longitude: 37.70964 / -121.27747

Elevation (feet): 10

County Summary:

San Joaquin

Quad Summary:

Vernalis (3712163)

Sources:

DAV91R0001 DAVIS, M. (HUMBOLDT STATE UNIVERSITY) - ASPECTS OF THE ECOLOGY OF ANTHICUS SACRAMENTO CHANDLER & ANTHICUS ANTIOCHENSIS WERNER (COLEOPTERA: ANTHICIDAE) 1991-08-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 57332

EO Index: 57348

Key Quad: Vernalis (3712163)

Element Code: IICOL49010

Occurrence Number: 12

Occurrence Last Updated: 2004-10-12

Scientific Name: *Anthicus sacramento*

Common Name: Sacramento anthicid beetle

Listing Status: **Federal:** None

Rare Plant Rank:

State: None

Other Lists: IUCN_EN-Endangered

CNDDDB Element Ranks: **Global:** G1

State: S1

General Habitat:

RESTRICTED TO SAND DUNE AREAS.

Micro Habitat:

INHABIT SAND SLIPFACES AMONG BAMBOO AND WILLOW BUT MAY NOT DEPEND ON PRESENCE OF THESE PLANT SPECIES.

Last Date Observed: 1990-09-08

Occurrence Type: Natural/Native occurrence

Last Survey Date: 1990-09-08

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

POINT BAR ON EAST BANK OF BEND AT RIVER MILE 69.0R ON SAN JOAQUIN RIVER.

Detailed Location:

Ecological:

SAND BAR - SMALL BEACH AREA.

Threats:

General:

2 ADULTS COLLECTED IN 4 PITFALL TRAPS BETWEEN 2 - 8 SEP 1990.

PLSS: T03S, R06E, Sec. 02 (M)

Accuracy: nonspecific area

Area (acres): 5

UTM: Zone-10 N4173974 E652108

Latitude/Longitude: 37.70038 / -121.27457

Elevation (feet): 10

County Summary:

San Joaquin

Quad Summary:

Vernalis (3712163)

Sources:

DAV91R0001 DAVIS, M. (HUMBOLDT STATE UNIVERSITY) - ASPECTS OF THE ECOLOGY OF ANTHICUS SACRAMENTO CHANDLER & ANTHICUS ANTIOCHENSIS WERNER (COLEOPTERA: ANTHICIDAE) 1991-08-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 57334	EO Index: 57350
Key Quad: Vernalis (3712163)	Element Code: IICOL49010
Occurrence Number: 13	Occurrence Last Updated: 2004-10-12

Scientific Name: <i>Anthicus sacramento</i>	Common Name: Sacramento anthicid beetle
Listing Status:	Rare Plant Rank:
Federal: None	
State: None	Other Lists: IUCN_EN-Endangered
CNDDDB Element Ranks:	
Global: G1	
State: S1	

General Habitat: RESTRICTED TO SAND DUNE AREAS.	Micro Habitat: INHABIT SAND SLIPFACES AMONG BAMBOO AND WILLOW BUT MAY NOT DEPEND ON PRESENCE OF THESE PLANT SPECIES.
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Last Date Observed: 1990-09-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1990-09-08	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
SANDY BANK ON RIVER BEND AT RIVER MILE 70.8R ON THE SAN JOAQUIN RIVER.

Detailed Location:

Ecological:
ERODING SANDY BANK.

Threats:

General:
1 ADULT COLLECTED IN 4 PITFALL TRAPS SET BETWEEN 2 & 8 SEP 1990.

PLSS: T03S, R06E, Sec. 12 (M)	Accuracy: nonspecific area	Area (acres): 3
UTM: Zone-10 N4172071 E652585	Latitude/Longitude: 37.68316 / -121.26955	Elevation (feet): 0

County Summary: San Joaquin	Quad Summary: Vernalis (3712163)
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Sources:
DAV91R0001 DAVIS, M. (HUMBOLDT STATE UNIVERSITY) - ASPECTS OF THE ECOLOGY OF ANTHICUS SACRAMENTO CHANDLER & ANTHICUS ANTIOCHENSIS WERNER (COLEOPTERA: ANTHICIDAE) 1991-08-01



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



Map Index Number:	11363	EO Index:	98560
Key Quad:	Tracy (3712164)	Element Code:	IIHYM24480
Occurrence Number:	19	Occurrence Last Updated:	2015-08-21

Scientific Name:	<i>Bombus crotchii</i>	Common Name:	Crotch bumble bee
Listing Status:	Federal: None	Rare Plant Rank:	
	State: None	Other Lists:	
CNDDDB Element Ranks:	Global: G3G4		
	State: S1S2		

General Habitat:	Micro Habitat:
COASTAL CALIFORNIA EAST TO THE SIERRA-CASCADE CREST AND SOUTH INTO MEXICO.	FOOD PLANT GENERA INCLUDE ANTIRRHINUM, PHACELIA, CLARKIA, DENDROMECON, ESCHSCHOLZIA, AND ERIOGONUM.

Last Date Observed:	1959-05-01	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1959-05-01	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
TRACY.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB IN THE GENERAL VICINITY OF TRACY.

Ecological:
Threats:

General:
COLLECTED 1 MAY 1959.

PLSS: T02S, R05E, Sec. 21 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4178125 E638678	Latitude/Longitude: 37.73992 / -121.42606	Elevation (feet): 50

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164), Union Island (3712174)

Sources:
STE59S0003 STEFFAN, W. - EMEC #554274 COLLECTED FROM TRACY 1959-05-01



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11665	EO Index: 20067
Key Quad: Vernalis (3712163)	Element Code: PDAPI0Z0S0
Occurrence Number: 8	Occurrence Last Updated: 2003-06-09

Scientific Name: <i>Eryngium racemosum</i>	Common Name: Delta button-celery
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists:
State: Endangered	
CNDDDB Element Ranks:	
Global: G1Q	
State: S1	

General Habitat: RIPARIAN SCRUB.	Micro Habitat: SEASONALLY INUNDATED FLOODPLAIN ON CLAY. 3-75M.
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Last Date Observed: 1923-10-22	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1985-XX-XX	Occurrence Rank: None
Owner/Manager: PVT	Trend: Unknown
Presence: Possibly Extirpated	

Location:
SITE OF OLD SAN JOAQUIN CITY, ABOUT 2.5 MI NE OF VERNALIS, SE OF SAN JOAQUIN RIV CLUB.

Detailed Location:

Ecological:

Threats:
AREA WEEDY & DISTURBED BY VEHICLES & GRAZING.

General:
1923 COLLECTION BY JEPSON (#10287 JEPS) FROM SAN JOAQUIN CITY ATTRIBUTED TO THIS SITE. AREA DISTURBED; LIKELY EXTIRPATED.

PLSS: T03S, R06E, Sec. 13 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4170606 E652873	Latitude/Longitude: 37.66992 / -121.26660	Elevation (feet): 50

County Summary: San Joaquin	Quad Summary: Vernalis (3712163)
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Sources:

ALL74U0023	ALLEN, P. - CNPS CARD 1974-10-17
GOO85U0001	GOODROW, V. - MATERIALS ON FIELD CHECKS OF HISTORIC LOCATIONS. 1985-07-22
JEP23S0005	JEPSON, W. - JEPSON #10287 JEPS #14006 1923-10-22
MOR84F0015	MOREY, S. - FIELD SURVEY FORM FOR ERYNGIUM RACEMOSUM 1984-08-28
MOR84F0016	MOREY, S. - FIELD SURVEY FORM FOR ERYNGIUM RACEMOSUM 1984-08-28



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11363
Key Quad: Tracy (3712164)
Occurrence Number: 4

EO Index: 2438
Element Code: PDAST1C011
Occurrence Last Updated: 1995-06-22

Scientific Name: *Blepharizonia plumosa*
Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G2
 State: S2

Common Name: big tarplant
Rare Plant Rank: 1B.1
Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden

General Habitat:
 VALLEY AND FOOTHILL GRASSLAND.

Micro Habitat:
 DRY HILLS & PLAINS IN ANNUAL GRASSLAND. CLAY TO CLAY-LOAM SOILS; USUALLY ON SLOPES AND OFTEN IN BURNED AREAS. 30-505 M.

Last Date Observed: 1935-09-07
Last Survey Date: 1935-09-07
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
 TRACY.
Detailed Location:
 EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS CENTERED ON TOWN OF TRACY.

Ecological:
Threats:
General:
 ONLY SOURCE OF INFORMATION IS A 1935 COLLECTION BY HOOVER. NEEDS FIELDWORK.

PLSS: T02S, R05E, Sec. 21 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4178125 E638678	Latitude/Longitude: 37.73992 / -121.42606	Elevation (feet):

County Summary: San Joaquin	Quad Summary: Tracy (3712164), Union Island (3712174)
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Sources:
 HOO35S0014 HOOVER, R. - HOOVER #716 JEPS #18827, UC #761854, DS #671210 1935-09-07



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 37336
Key Quad: Tracy (3712164)
Occurrence Number: 13

EO Index: 32338
Element Code: PDAST1C011
Occurrence Last Updated: 2013-07-15

Scientific Name: *Blepharizonia plumosa*
Listing Status: **Federal:** None
 State: None
CNDDB Element Ranks: **Global:** G2
 State: S2

Common Name: big tarplant
Rare Plant Rank: 1B.1
Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden

General Habitat:
 VALLEY AND FOOTHILL GRASSLAND.

Micro Habitat:
 DRY HILLS & PLAINS IN ANNUAL GRASSLAND. CLAY TO CLAY-LOAM SOILS; USUALLY ON SLOPES AND OFTEN IN BURNED AREAS. 30-505 M.

Last Date Observed: 1996-10-04
Last Survey Date: 1996-10-04
Owner/Manager: PVT
Presence: Presumed Extant

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

Location:
 NORTHWEST SLOPE OF BLACK BUTTE, SOUTH OF CORRAL HOLLOW ROAD, ABOUT 2 MILES WEST OF I-5.

Detailed Location:
 MAPPED IN THE NE 1/4 OF THE SW1/4 OF SECTION 24.

Ecological:
 ANNUAL GRASSLAND WITH AVENA FATUA, BROMUS DIANDRUS, B. HORDEACEUS, EPILOBIUM PANICULATUM, GRINDELIA CAMPORUM, AND HOLOCARPHA OBCONICA. NE-FACING SLOPE. SOIL MAPPED AS WISFLAT-ARBURUA-SAN TIMOTEO COMPLEX.

Threats:
 GRAZING THREATENS.

General:
 500 PLANTS OBSERVED IN 1996. INCLUDES FORMER OCCURRENCE #43.

PLSS: T03S, R04E, Sec. 24 (M)	Accuracy: specific area	Area (acres): 3
UTM: Zone-10 N4168659 E633520	Latitude/Longitude: 37.65540 / -121.48632	Elevation (feet): 500

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:
 PRE96F0004 PRESTON, R. - FIELD SURVEY FORM FOR BLEPHARIZONIA PLUMOSA 1996-10-04
 PRE96S0007 PRESTON, R. - PRESTON #1005 DAV #129613 1996-10-04



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 11657	EO Index: 17117
Key Quad: Vernalis (3712163)	Element Code: PDAST2E0U0
Occurrence Number: 1	Occurrence Last Updated: 2014-04-25

Scientific Name: <i>Cirsium crassicaule</i>	Common Name: slough thistle
Listing Status:	Rare Plant Rank: 1B.1
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: CHENOPOD SCRUB, MARSHES AND SWAMPS, RIPARIAN SCRUB.	Micro Habitat: SLOUGHS, RIVERBANKS, AND MARSHY AREAS. 3-100 M.
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Last Date Observed: 1974-05-27	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1974-05-27	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
APPROXIMATELY 1 MILE NORTH OF SAN JOAQUIN RIVER CLUB ON SAN JOAQUIN RIVER.

Detailed Location:
MAPPED AS BEST GUESS BY CNDDDB BASED ON THE LOCATION DESCRIPTION OF A COLLECTION MADE BY STOCKING IN MAY 1974, "NEAR 2ND 'R' OF 'RIVER' IN 'SAN JOAQUIN RIVER' (ON QUAD)". STOCKING ALSO NOTED A COLLECTION FROM T3S R6E SEC 11 IN SPRING 1974.

Ecological:
RIPARIAN/RUDERAL.

Threats:
IN AREAS OF INTENSIVE AGRICULTURE. SITE IS ON PUBLIC LAND AND IS THREATENED.

General:
FEWER THAN 10 PLANTS OBSERVED IN 1974. THE AREA HAS BURNED SINCE COLLECTION WAS MADE.

PLSS: T03S, R06E, Sec. 02 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4173528 E652475	Latitude/Longitude: 37.69631 / -121.27050	Elevation (feet): 35

County Summary:	Quad Summary:
San Joaquin	Vernalis (3712163)

Sources:

STO74F0001	STOCKINGS, S. - FIELD SURVEY FORM FOR CIRSIUM CRASSICAULE 1974-05-27
STO74U0002	STOCKING, S. - CNPS OBSERVATION CARD FOR CIRSIUM CRASSICAULE 1974-XX-XX



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



Map Index Number: 11452	EO Index: 12555
Key Quad: Solyo (3712153)	Element Code: PDAST2L0C0
Occurrence Number: 1	Occurrence Last Updated: 1989-08-11

Scientific Name: <i>Leptosyne hamiltonii</i>	Common Name: Mt. Hamilton coreopsis
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: CISMONTANE WOODLAND.	Micro Habitat: ON STEEP SHALE TALUS WITH OPEN SOUTHWESTERN EXPOSURE. 530-1300 M.
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Last Date Observed: 1957-05-19	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1957-05-19	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
NEAR LOOKOUT STATION, SUMMIT OF MT. OSO, MT. HAMILTON RANGE.

Detailed Location:

Ecological:
ON ROCKY SOIL, 3250-3355 FT ELEVATION.

Threats:

General:
SEEN IN 1949 AND 1957.

PLSS: T05S, R05E, Sec. 13 (M)	Accuracy: 1/5 mile	Area (acres): 0
UTM: Zone-10 N4152406 E643727	Latitude/Longitude: 37.50742 / -121.37383	Elevation (feet): 3,250

County Summary: Stanislaus	Quad Summary: Solyo (3712153), Lone Tree Creek (3712154)
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Sources:

FER57S0001	FERRIS, R. ET AL. - FERRIS #13091 DS, RSA 1957-05-19
ROD49S0001	RODIN, R. - RODIN #4928 UC #1250189, DS, OBI 1949-05-07
ROS49S0003	ROSE, L. - ROSE #49130 RSA 1949-05-08



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 42199	EO Index: 42199
Key Quad: Solyo (3712153)	Element Code: PDAST2L0C0
Occurrence Number: 13	Occurrence Last Updated: 2005-11-04

Scientific Name: <i>Leptosyne hamiltonii</i>	Common Name: Mt. Hamilton coreopsis
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G2	
State: S2	

General Habitat: CISMONTANE WOODLAND.	Micro Habitat: ON STEEP SHALE TALUS WITH OPEN SOUTHWESTERN EXPOSURE. 530-1300 M.
---	---

Last Date Observed: 1995-05-04	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1995-05-04	Occurrence Rank: Excellent
Owner/Manager: PVT	Trend: Unknown
Presence: Presumed Extant	

Location:
SLOPES ON EAST FACE OF MT. OSO, ABOUT 0.7 MILE NORTHEAST OF MT. OSO SUMMIT, SOUTHWEST OF SOLYO.

Detailed Location:
MAPPED WITHIN THE NW 1/4 SE 1/4 OF SECTION 12.

Ecological:
STEEP SOUTH-FACING SLOPES WITH SELAGINELLA DOMINANT. PLANTS FOUND MID-SLOPE. SUBSTRATE: FRANCISCAN FORMATION.

Threats:
GRAZING PRESSURE ON SITE IS LOW. FERAL PIG DISTURBANCE IS HIGH.

General:
250 PLANTS OBSERVED IN 1995.

PLSS: T05S, R05E, Sec. 12 (M)	Accuracy: specific area	Area (acres): 2
UTM: Zone-10 N4153170 E644559	Latitude/Longitude: 37.51417 / -121.36428	Elevation (feet): 2,000

County Summary: Stanislaus	Quad Summary: Solyo (3712153)
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Sources:

TAY95F0026	TAYLOR, D. - FIELD SURVEY FORM FOR COREOPSIS HAMILTONII 1995-05-04
TAY95S0035	TAYLOR, D. - TAYLOR #14868 JEPS #105217 1995-05-04



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



Map Index Number: 83363	EO Index: 6756
Key Quad: Solyo (3712153)	Element Code: PDAST650E0
Occurrence Number: 23	Occurrence Last Updated: 2011-07-12

Scientific Name: <i>Madia radiata</i>	Common Name: showy golden madia
Listing Status: Federal: None	Rare Plant Rank: 1B.1
State: None	Other Lists: BLM_S-Sensitive
CNDDDB Element Ranks: Global: G2	SB_RSABG-Rancho Santa Ana Botanic Garden
State: S2	

General Habitat: VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, CHENOPOD SCRUB.	Micro Habitat: MOSTLY ON ADOBE CLAY IN GRASSLAND OR AMONG SHRUBS. 25-1125 M.
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Last Date Observed: 1938-04-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 2010-04-12	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
LOWER HOSPITAL CANYON.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED GENERALLY BY CNDDDB TO ENCOMPASS STEEPER, NW-FACING SLOPES IN THE SOUTH HALF OF SECTION 13 AND W-FACING SLOPES IN SECTION 24 AS PER PRESTON'S SUGGESTION.

Ecological:
NW OPEN SLOPES, MOIST HEAVY CLAY.

Threats:
General:
SITE BASED ON A 1937 WOLF COLLECTION AND TWO 1938 COLLECTIONS BY HOOVER AND ROSE. PRESTON SURVEYED VICINITY OF ELECTRIC TRANSMISSION LINES IN 2010; SPECIES NOT FOUND.

PLSS: T04S, R05E, Sec. 24 (M)	Accuracy: 4/5 mile	Area (acres): 0
UTM: Zone-10 N4160147 E643916	Latitude/Longitude: 37.57713 / -121.37018	Elevation (feet): 500

County Summary: San Joaquin, Stanislaus	Quad Summary: Solyo (3712153), Lone Tree Creek (3712154)
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Sources:

HOO38S0023	HOOVER, R. - HOOVER #3065 UC #761805, JEPS #7399 1938-04-10
PRE10F0013	PRESTON, R. (ICF INTERNATIONAL, INC.) - FIELD SURVEY FORM FOR MADIA RADIATA 2010-04-12
ROS38S0006	ROSE, L. - ROSE #38147 UC #830899 1938-04-18
WOL37S0025	WOLF, C. - WOLF #8403 RSA #21469 UCR #47742 1937-03-31



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



Map Index Number: 11232
Key Quad: Tracy (3712164)
Occurrence Number: 24

EO Index: 6755
Element Code: PDAST650E0
Occurrence Last Updated: 2011-07-12

Scientific Name: *Madia radiata*

Common Name: showy golden madia

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

Rare Plant Rank: 1B.1
Other Lists: BLM_S-Sensitive
 SB_RSABG-Rancho Santa Ana Botanic Garden

General Habitat:

VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, CHENOPOD SCRUB.

Micro Habitat:

MOSTLY ON ADOBE CLAY IN GRASSLAND OR AMONG SHRUBS. 25-1125 M.

Last Date Observed: 1922-04-02

Occurrence Type: Natural/Native occurrence

Last Survey Date: 2010-04-12

Occurrence Rank: Unknown

Owner/Manager: UNKNOWN

Trend: Unknown

Presence: Presumed Extant

Location:

CORRAL HOLLOW, MT. HAMILTON RANGE.

Detailed Location:

EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB IN GENERAL VICINITY OF CASTLE ROCK AS PER PRESTON'S SUGGESTION, PREVIOUSLY MAPPED IN HOLLOW IN VICINITY OF CARNEGIE (SITE).

Ecological:

GROWING ON A CLAY HILLTOP.

Threats:

General:

SITE IS BASED ON A 1922 COLLECTION BY JEPSON. PRESTON SURVEYED VICINITY OF CARNEGIE (SITE) IN 2010, BUT NO SUITABLE HABITAT WAS PRESENT.

PLSS: T03S, R04E, Sec. 25 (M)

Accuracy: 1 mile

Area (acres): 0

UTM: Zone-10 N4166750 E633133

Latitude/Longitude: 37.63825 / -121.49106

Elevation (feet): 600

County Summary:

San Joaquin

Quad Summary:

Lone Tree Creek (3712154), Tracy (3712164), Midway (3712165)

Sources:

JEP22S0003 JEPSON, W. - JEPSON #9562 JEPS #15776 1922-04-02

PRE10F0012 PRESTON, R. (ICF INTERNATIONAL, INC.) - FIELD SURVEY FORM FOR MADIA RADIATA 2010-04-12



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 23733
Key Quad: Tracy (3712164)
Occurrence Number: 8

EO Index: 17775
Element Code: PDBOR01050
Occurrence Last Updated: 2013-07-30

Scientific Name: *Amsinckia grandiflora*

Common Name: large-flowered fiddleneck

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

Rare Plant Rank: 1B.1
Other Lists: SB_UCBBG-UC Berkeley Botanical Garden

General Habitat:

CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.

Micro Habitat:

ANNUAL GRASSLAND IN VARIOUS SOILS. 275-550 M.

Last Date Observed: 2011-04-01
Last Survey Date: 2011-04-01
Owner/Manager: PVT, UNKNOWN
Presence: Presumed Extant

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

Location:

EAST OF CORRAL HOLLOW ROAD, 1.6 MILES SSE OF SUMMIT OF BLACK BUTTE MOUNTAIN, CONOLLY RANCH.

Detailed Location:

2 POLYGONS: NORTHERN POLYGON IS PAVLIK SITE KNOWN AS "NEW POPULATION - CARNEGIE CANYON," MAPPED ACCORDING TO A 1991 MULLEN MAP. SOUTHERN POLYGON MAPPED ACCORDING TO 2011 MCBRIDE COORDINATES, PROPERTY PLACED UNDER CONSERVATION EASEMENT.

Ecological:

NORTHERN POLYGON: STEEP N-FACING CANYON WALL WITH SCATTERED SAGE IN ANNUAL GRASSLAND. SOUTHERN POLYGON: VERY STEEP SLOPE, ASSOCIATED WITH SILVERBUSH LUPINE AND INDIAN PAINTBRUSH.

Threats:

HEAVILY OVERGRAZED AND TRAMPLED BY CATTLE. ALSO THREATENED BY FERAL PIGS.

General:

N POLYGON: 3200 PLANTS IN 1991, 3000-4000 SEEN IN 1993, 2000-3500 IN 1994, 2000-3500 IN 1995, 1500-2500 IN 1996, 0 IN 2003. S POLYGON: ORIGINALLY IDENTIFIED WITH 200-300 PLANTS SEEN IN 2010, >600 PLANTS SEEN IN 2011.

PLSS: T03S, R05E, Sec. 31 (M)	Accuracy: specific area	Area (acres): 10
UTM: Zone-10 N4165816 E634812	Latitude/Longitude: 37.62959 / -121.47220	Elevation (feet): 900

County Summary:

San Joaquin

Quad Summary:

Tracy (3712164)

Sources:

- CAR08U0001 CARLSON, T. (LAWRENCE LIVERMORE NATIONAL LABORATORY) - EMAIL TO ANN HOWALD, FORWARDED TO R. BITTMAN, RE: EO 8 SENSITIVITY OR NOT 2008-09-04
- FWS09R0005 U.S. FISH & WILDLIFE SERVICE - SACRAMENTO - AMSINCKIA GRANDIFLORA (LARGE-FLOWERED FIDDLENECK) 5-YEAR REVIEW; SUMMARY AND EVALUATION 2009-01-XX
- MCB11F0005 MCBRIDE, E. (U.S. FISH AND WILDLIFE SERVICE) - FIELD SURVEY FORM FOR AMSINCKIA GRANDIFLORA 2011-04-01
- MUL91F0011 MULLANY, D. & G. BEEMAN - FIELD SURVEY FORM FOR AMSINCKIA GRANDIFLORA 1991-04-18
- MUL91S0001 MULLEN, A. & G. BEEMAN - MULLEN SN RSA #584743, CAS #893182, GH #424751 1991-04-18
- PAV93R0001 PAVLIK, B. - CURRENT STATUS OF NATURAL AND REINTRODUCED POPULATIONS OF AMSINCKIA GRANDIFLORA UNDER DIFFERENT MANAGEMENT REGIMES 1993-11-XX
- PAV94R0001 PAVLIK, B. - TALES OF SUCCESS AND FAILURE: TRENDS IN NATURAL AND REINTRODUCED POPULATIONS OF AMSINCKIA GRANDIFLORA UNDER DIFFERENT MANAGEMENT REGIMES. 1994-12-XX
- PAV95R0001 PAVLIK, B. - AND THE BEAT GOES ON: POPULATIONS OF AMSINCKIA GRANDIFLORA UNDER DIFFERENT MANAGEMENT REGIMES 1995-10-XX
- PAV96R0001 PAVLIK, B. - POPULATIONS OF AMSINCKIA GRANDIFLORA: GROWTH AND DECLINE UNDER DIFFERENT MANAGEMENT REGIMES. 1996-12-XX



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



Map Index Number: 24802	EO Index: 60709
Key Quad: Solyo (3712153)	Element Code: PDBRA0M0E0
Occurrence Number: 41	Occurrence Last Updated: 2015-09-22

Scientific Name: <i>Caulanthus lemmonii</i>	Common Name: Lemmon's jewelflower
Listing Status: Federal: None	Rare Plant Rank: 1B.2
State: None	Other Lists: BLM_S-Sensitive
CNDDB Element Ranks: Global: G3	SB_SBBG-Santa Barbara Botanic Garden
State: S3	USFS_S-Sensitive

General Habitat:	Micro Habitat:
PINYON-JUNIPER WOODLAND, VALLEY AND FOOTHILL GRASSLAND.	80-1220 M.

Last Date Observed: 1938-04-18	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1938-04-18	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
HOSPITAL CANYON, AROUND 500 FOOT ELEVATION.

Detailed Location:
MAPPED AS BEST GUESS NON-SPECIFICALLY ALONG THE MAIN ROAD THROUGH HOSPITAL CANYON BETWEEN 400 AND 600 FEET IN ELEVATION.

Ecological:
OPEN SLOPES.

Threats:

General:
SITE BASED ON A 1938 ROSE COLLECTION. 1938 HOOVER COLLECTION FROM "HOSPITAL CANYON AT THE BEND" AND A 1938 HOWELL COLLECTION FROM "HOSPITAL CANYON" ARE ALSO ATTRIBUTED TO THIS SITE. NEEDS FIELDWORK.

PLSS: T04S, R05E, Sec. 24 (M)	Accuracy: nonspecific area	Area (acres): 179
UTM: Zone-10 N4159748 E643462	Latitude/Longitude: 37.57361 / -121.37539	Elevation (feet): 500

County Summary:	Quad Summary:
San Joaquin, Stanislaus	Solyo (3712153), Lone Tree Creek (3712154)

Sources:

HOO38S0057	HOOVER, R. - HOOVER #3076 UC #765131, GH #379091 1938-04-10
HOW38S0031	HOWELL, J. - HOWELL #13764 CAS #256704, GH #379081 1938-04-10
ROS38S0020	ROSE, L. - ROSE #38152 UC #855876, GH #379086, LA #51326 1938-04-18



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



Map Index Number: 11363
Key Quad: Tracy (3712164)
Occurrence Number: 2

EO Index: 2437
Element Code: PDBRA2R010
Occurrence Last Updated: 1996-01-11

Scientific Name: *Tropidocarpum capparideum*

Common Name: caper-fruited tropidocarpum

Listing Status: **Federal:** None
 State: None
CNDDB Element Ranks: **Global:** G1
 State: S1

Rare Plant Rank: 1B.1
Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden
 USFS_S-Sensitive

General Habitat:
 VALLEY AND FOOTHILL GRASSLAND.

Micro Habitat:
 ALKALINE CLAY. 1-455 M.

Last Date Observed: 1937-04-03
Last Survey Date: 1987-03-XX
Owner/Manager: UNKNOWN
Presence: Extirpated

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

Location:
 TRACY.

Detailed Location:

Ecological:

Threats:

General:
 SITE VISITED BY DR. DEAN TAYLOR IN 1987, AND NO HABITAT REMAINS.

PLSS: T02S, R05E, Sec. 21 (M)

Accuracy: 1 mile

Area (acres): 0

UTM: Zone-10 N4178125 E638678

Latitude/Longitude: 37.73992 / -121.42606

Elevation (feet): 50

County Summary:

Quad Summary:

San Joaquin

Tracy (3712164), Union Island (3712174)

Sources:

- COB00S0001 COBB, B. - COBB SN JEPS #54251 1900-04-01
- HOO037S0022 HOOVER, R. - HOOVER #1733 UC #762956, DS 1937-04-03
- MIC92S0008 MICHENER & BIOLETTI - MICHENER SN UC #117240 1892-XX-XX
- TAY87U0008 TAYLOR, D. - PHONE CONVERSATION BETWEEN DEAN TAYLOR AND RICK YORK REGARDING SEARCHES FOR TROPIDOCARPUM CAPPARIDEUM. 1987-07-20



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 55515
Key Quad: Tracy (3712164)
Occurrence Number: 20

EO Index: 55515
Element Code: PDBRA2R010
Occurrence Last Updated: 2011-04-28

Scientific Name: *Tropidocarpum capparideum*

Common Name: caper-fruited tropidocarpum

Listing Status: **Federal:** None
 State: None
CNDDB Element Ranks: **Global:** G1
 State: S1

Rare Plant Rank: 1B.1
Other Lists: SB_RSABG-Rancho Santa Ana Botanic Garden
 USFS_S-Sensitive

General Habitat:
 VALLEY AND FOOTHILL GRASSLAND.

Micro Habitat:
 ALKALINE CLAY. 1-455 M.

Last Date Observed: 1962-04-20
Last Survey Date: 1998-XX-XX
Owner/Manager: UNKNOWN
Presence: Possibly Extirpated

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

Location:
 2 MILES SOUTHWEST OF TRACY, SOUTH FACING DITCH BANK BETWEEN SHULTE ROAD AND RR TRACKS.

Detailed Location:
 MAPPED ALONG SHULTE ROAD WHERE IT RUNS PARALLEL TO THE RR TRACKS SOUTHWEST OF TRACY.

Ecological:
 SOUTH-FACING DITCH BANK.

Threats:
 WEEDY INVASIVES.

General:
 COLLECTED HERE BY FULLER IN 1962. THIS WAS THE LAST TIME THIS PLANT WAS SEEN IN THE TRACY REGION. HRUSA VISITED THE SITE IN 1998 AND FOUND IT DOMINATED BY BROMUS DIANDRUS AND CENTAUREA SOLSTITIALIS; NO TROPIDOCARPUM SEEN.

PLSS: T02S, R05E, Sec. 31 (M)	Accuracy: nonspecific area	Area (acres): 97
UTM: Zone-10 N4175724 E635310	Latitude/Longitude: 37.71879 / -121.46472	Elevation (feet): 80

County Summary:	Quad Summary:
San Joaquin	Tracy (3712164)

Sources:

FUL62S0002	FULLER, T. - FULLER #8197 CDA #20787 1962-04-20
HRU03U0001	HRUSA, G. - EMAIL TO D. TIBOR REGARDING PLANT STATUS REVIEW: TROPIDOCARPUM LIST 1A TO 1B. 2003-05-13



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 66908	EO Index: 45787
Key Quad: Tracy (3712164)	Element Code: PDGER01070
Occurrence Number: 38	Occurrence Last Updated: 2009-06-03

Scientific Name: <i>California macrophylla</i>	Common Name: round-leaved filaree
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	SB_RSABG-Rancho Santa Ana Botanic Garden
CNDDDB Element Ranks:	SB_SBBG-Santa Barbara Botanic Garden
Global: G3?	
State: S3?	

General Habitat: CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat: CLAY SOILS. 15-1200 M.
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Last Date Observed: 1938-04-XX	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1938-04-XX	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
THOMAS HANAN RANCH, 2 MILES SOUTHEAST OF TRACY.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS AT TWO AIR MILES SOUTHEAST OF DOWNTOWN TRACY.

Ecological:

Threats:

General:
MAPPED ACCORDING TO 1938 COLLECTION BY BELLUE. 1892 COLLECTION BY BIOLETTI AND 1938 TUGEL COLLECTION WITH LOCATIONS GIVEN ONLY AS "TRACY" ALSO ATTRIBUTED HERE. INCLUDES FORMER OCCURRENCE #39. NEEDS FIELDWORK.

PLSS: T02S, R05E, Sec. 35 (M)	Accuracy: 1 mile	Area (acres): 0
UTM: Zone-10 N4176392 E641211	Latitude/Longitude: 37.72391 / -121.39765	Elevation (feet):

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:

BEL38S0001	BELLUE, M. - BELLUE SN CAS #257805 1938-04-XX
BIO92S0005	BIOLETTI, F. - BIOLETTI SN UC #17069 1892-XX-XX
TUG38S0001	TUGEL, A. - TUGEL SN CDA #1, 55, & 57 1938-04-XX



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



Map Index Number:	86205	EO Index:	87240
Key Quad:	Lone Tree Creek (3712154)	Element Code:	PDGER01070
Occurrence Number:	160	Occurrence Last Updated:	2012-06-27

Scientific Name:	<i>California macrophylla</i>	Common Name:	round-leaved filaree
Listing Status:	Federal: None State: None	Rare Plant Rank:	1B.2
CNDDDB Element Ranks:	Global: G3? State: S3?	Other Lists:	BLM_S-Sensitive SB_RSABG-Rancho Santa Ana Botanic Garden SB_SBBG-Santa Barbara Botanic Garden

General Habitat:	CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.	Micro Habitat:	CLAY SOILS. 15-1200 M.
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Last Date Observed:	1938-04-18	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1938-04-18	Occurrence Rank:	Unknown
Owner/Manager:	UNKNOWN	Trend:	Unknown
Presence:	Presumed Extant		

Location:
HOSPITAL CANYON, SAN JOAQUIN COUNTY.

Detailed Location:
EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB ALONG PORTION OF HOSPITAL CANYON WITHIN SAN JOAQUIN COUNTY.

Ecological:

Threats:
General:
ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1938 COLLECTION BY EASTWOOD. NEEDS FIELDWORK.

PLSS:	T04S, R05E, Sec. 25 (M)	Accuracy:	nonspecific area	Area (acres):	497
UTM:	Zone-10 N4158029 E643264	Latitude/Longitude:	37.55815 / -121.37797	Elevation (feet):	

County Summary:	San Joaquin, Stanislaus	Quad Summary:	Solyo (3712153), Lone Tree Creek (3712154)
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Sources:
EAS38S0041 EASTWOOD, A. & J. HOWELL - EASTWOOD #5089 CAS #257416 1938-04-18



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 20372	EO Index: 9499
Key Quad: Solyo (3712153)	Element Code: PDHYD0C3Q0
Occurrence Number: 7	Occurrence Last Updated: 1992-03-05

Scientific Name: <i>Phacelia phacelioides</i>	Common Name: Mt. Diablo phacelia
Listing Status:	Rare Plant Rank: 1B.2
Federal: None	Other Lists: BLM_S-Sensitive
State: None	
CNDDB Element Ranks:	
Global: G1	
State: S1	

General Habitat: CHAPARRAL, CISMONTANE WOODLAND.	Micro Habitat: ADJACENT TO TRAILS, ON ROCK OUTCROPS AND TALUS SLOPES; SOMETIMES ON SERPENTINE. 500-1370 M.
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Last Date Observed: 1949-05-08	Occurrence Type: Natural/Native occurrence
Last Survey Date: 1949-05-08	Occurrence Rank: Unknown
Owner/Manager: UNKNOWN	Trend: Unknown
Presence: Presumed Extant	

Location:
MT OSO, ABOUT 0.25 AIR MILE SSE OF SUMMIT ALONG TRAIL.

Detailed Location:

Ecological:

ROCKY SOIL DERIVED FROM SERPENTINIZED FRANCISCAN CHERT. ASSOCIATES: CRYPTANTHA SP., EMMENANTHE SP., ADENOSTOMA FASCICULATUM, PINUS SABINIANA, AND QUERCUS DOUGLASII.

Threats:

General:

ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1949 COLLECTION BY CONSTANCE. NEEDS FIELDWORK.

PLSS: T05S, R05E, Sec. 13 (M)	Accuracy: 2/5 mile	Area (acres): 0
UTM: Zone-10 N4152117 E643763	Latitude/Longitude: 37.50481 / -121.37348	Elevation (feet): 3,500

County Summary:

Stanislaus

Quad Summary:

Copper Mtn. (3712143), Mt. Boardman (3712144), Solyo (3712153), Lone Tree Creek (3712154)

Sources:

CON49S0001 CONSTANCE, L. - CONSTANCE #3285 UC #794395, CAS 1949-05-08



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



Map Index Number:	28969	EO Index:	30511
Key Quad:	Solyo (3712153)	Element Code:	PDMALOQ0F0
Occurrence Number:	10	Occurrence Last Updated:	2010-10-13

Scientific Name:	<i>Malacothamnus hallii</i>	Common Name:	Hall's bush-mallow
Listing Status:	Federal: None	Rare Plant Rank:	1B.2
	State: None	Other Lists:	BLM_S-Sensitive
CNDDDB Element Ranks:	Global: G2		
	State: S2		

General Habitat:	Micro Habitat:
CHAPARRAL, COASTAL SCRUB.	SOME POPULATIONS ON SERPENTINE. 10-730 M.

Last Date Observed:	1995-05-04	Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1995-05-04	Occurrence Rank:	Excellent
Owner/Manager:	PVT	Trend:	Unknown
Presence:	Presumed Extant		

Location:
SLOPES ON EAST FACE OF MOUNT OSO, ABOUT 0.7 MILE FROM SUMMIT.

Detailed Location:
MAPPED MOSTLY WITHIN THE EAST HALF OF THE SE 1/4 OF SECTION 12 AND THE NE 1/4 OF THE NE 1/4 OF SECTION 13.

Ecological:
RECENTLY BURNED CHAPARRAL SLOPES. OTHER RARE PLANTS IN THIS AREA INCLUDE COREOPSIS HAMILTONII, ACANTHOMINTHA LANCEOLATA, AND CLARKIA BREWERI.

Threats:
FERAL PIG ROOTING IS HIGH AT THIS SITE. LIGHT GRAZING ALSO OCCURS.

General:
100,000 PLANTS OBSERVED BY TAYLOR IN 1995.

PLSS:	T05S, R05E, Sec. 12 (M)	Accuracy:	specific area	Area (acres):	82
UTM:	Zone-10 N4152725 E644836	Latitude/Longitude:	37.51012 / -121.36123	Elevation (feet):	1,800

County Summary:	Quad Summary:
Stanislaus	Solyo (3712153)

Sources:

TAY10U0003	TAYLOR, D. - EMAIL FROM D. TAYLOR TO R. BITTMAN RE: POPULATION NUMBERS FOR EO 10 2010-10-13
TAY95F0018	TAYLOR, D. - FIELD SURVEY FORM FOR MALACOTHAMNUS HALLII 1995-05-04



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 61549
Key Quad: Tracy (3712164)
Occurrence Number: 10

EO Index: 61585
Element Code: PDPAP0A0D0
Occurrence Last Updated: 2015-03-24

Scientific Name: *Eschscholzia rhombipetala*

Common Name: diamond-petaled California poppy

Listing Status: **Federal:** None
 State: None
CNDDDB Element Ranks: **Global:** G1
 State: S1

Rare Plant Rank: 1B.1
Other Lists: BLM_S-Sensitive
 SB_RSABG-Rancho Santa Ana Botanic Garden

General Habitat:
 VALLEY AND FOOTHILL GRASSLAND.

Micro Habitat:
 ALKALINE, CLAY SLOPES AND FLATS. 0-975 M.

Last Date Observed: 1950-03-26
Last Survey Date: 1950-03-26
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
 CORRAL HOLLOW, ABOUT 0.125 MILE SOUTHEAST OF CASTLE ROCK.

Detailed Location:
 EXACT LOCATION UNKNOWN, MAPPED ABOUT 0.125 MILE SOUTHEAST OF CASTLE ROCK ALONG ROAD. COLLECTIONS FROM "CORRAL HOLLOW; ON HILL AT LOWER END" AND "TESLA HILLS AT MOUTH OF CORRAL HOLLOW" ARE ALSO ATTRIBUTED TO THIS SITE.

Ecological:
 ON DEEP ADOBE SOIL WITH PHACELIA AND MONOLOPIA.

Threats:
General:

MAIN SOURCE OF INFO FOR THIS SITE IS A 1940 COLLECTION BY MORRISON, PLANTS NOTED AS LOCALLY ABUNDANT. 1937 HOOVER COLLECTION AND 1950 MCCLINTOCK COLLECTION ARE ALSO ATTRIBUTED TO THIS SITE. NEEDS FIELDWORK.

PLSS: T03S, R04E, Sec. 25 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4166538 E633390	Latitude/Longitude: 37.63630 / -121.48818	Elevation (feet): 600

County Summary: San Joaquin	Quad Summary: Tracy (3712164)
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Sources:
 HOO37S0062 HOOVER, R. - HOOVER #1737 UC #765993 1937-04-03
 MCC50S0002 MCCLINTOCK, E. - MCCLINTOCK SN RSA #97194 1950-03-26
 MOR40S0003 MORRISON, J. - MORRISON #3122 JEPS #104687 & #104688 1940-03-17



Occurrence Report

California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 74258
Key Quad: Solyo (3712153)
Occurrence Number: 24

EO Index: 75246
Element Code: PDPLM030C0
Occurrence Last Updated: 2009-03-30

Scientific Name: *Eriastrum tracyi*

Common Name: Tracy's eriastrum

Listing Status: **Federal:** None
 State: Rare
CNDDDB Element Ranks: **Global:** G3Q
 State: S3

Rare Plant Rank: 3.2
Other Lists: USFS_S-Sensitive

General Habitat:

CHAPARRAL, CISMONTANE WOODLAND.

Micro Habitat:

GRAVELLY SHALE OR CLAY; OFTEN IN OPEN AREAS. 315-760 M.

Last Date Observed: 1957-05-19
Last Survey Date: 1957-05-19
Owner/Manager: UNKNOWN
Presence: Presumed Extant

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

Location:
 MT. OSO, SADDLE AT SOUTHERN BASE OF PEAK.

Detailed Location:

Ecological:
 LOWER SLOPES OF MOUNTAIN.

Threats:

General:
 ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS 1957 BACIGALUPI COLLECTION.

PLSS: T05S, R05E, Sec. 13 (M)	Accuracy: 1/10 mile	Area (acres): 0
UTM: Zone-10 N4152098 E643767	Latitude/Longitude: 37.50463 / -121.37344	Elevation (feet): 3,200

County Summary:

Stanislaus

Quad Summary:

Solyo (3712153)

Sources:

BAC57S0008 BACIGALUPI, R. - BACIGALUPI #5884 JEPS #18482 1957-05-19