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Query Criteria: Taxonomic Group IS (Ferns OR Gymnosperms OR Monocots OR Dicots OR Lichens OR Bryophytes)
 AND Quad IS (Chinese Camp (3712074) OR La Grange (3712064) OR Merced Falls (3712053) OR Moccasin (3712073) OR Penon Blanco Peak (3712063) OR Snelling (3712054) OR Turlock Lake (3712055))

<i>Eryngium pinnatisectum</i>		Element Code: PDAPI0Z0P0	
Tuolumne button-celery			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G2
	State: None		State: S2
	Other: Rare Plant Rank - 1B.2		
Habitat:	General: VERNAL POOLS, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.		
	Micro: VOLCANIC SOILS; VERNAL POOLS AND MESIC SITES WITHIN OTHER NATURAL COMMUNITIES. 70-915 M.		

Occurrence No.	1	Map Index: 57519	EO Index: 57535	Element Last Seen: 1937-08-24
Occ. Rank:	Unknown	Presence: Presumed Extant	Site Last Seen: 1937-08-24	
Occ. Type:	Natural/Native occurrence	Trend: Unknown	Record Last Updated: 2004-10-20	

Quad Summary: Groveland (3712072), Moccasin (3712073)
County Summary: Tuolumne

Lat/Long: 37.82287 / -120.25687 **Accuracy:** 3/5 mile
UTM: Zone-10 N4189708 E741440 **Elevation (ft):** 2900
PLSS: T01S, R16E, Sec. 30 (M) **Acres:** 0.0

Location: BIG OAK FLAT; ABOUT 1.7 MILES SW OF GROVELAND ON HIGHWAY 120.
Detailed Location:
Ecological:
General: HOOVER COLLECTION DESCRIBES LOCATION AS "TOUOLUMNE BIG OAK." NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Occurrence No.	2	Map Index: 57522	EO Index: 57538	Element Last Seen: 1983-04-06
Occ. Rank:	Unknown	Presence: Presumed Extant	Site Last Seen: 1983-04-06	
Occ. Type:	Natural/Native occurrence	Trend: Unknown	Record Last Updated: 2004-10-20	

Quad Summary: Chinese Camp (3712074)
County Summary: Tuolumne

Lat/Long: 37.87157 / -120.49530 **Accuracy:** specific area
UTM: Zone-10 N4194523 E720306 **Elevation (ft):** 1200
PLSS: T01S, R13E, Sec. 01, SW (M) **Acres:** 11.9

Location: SOUTH OF YOSEMITE JUNCTION; ABOUT 3.5 AIR MI WEST OF CHINESE CAMP, TUOLUMNE COUNTY.
Detailed Location: SOUTH 1 MILE OF INTERSECTION AT HIGHWAYS 120 AND 108. SW 1/4 OF SEC 1 AND NW 1/4 OF SEC 12.
Ecological: SERPENTINE VERNAL POOL. FOUND WITH RANUNCULUS MURICATUS AND DELPHINIUM SPP.
General: OWNER IS RED HILLS DEVELOPMENT. THIS SOURCE ALSO INCLUDES EO 6. ALSO ATTRIBUTED TO THIS SITE IS ANOTHER ROGERS SOURCE THAT GIVES T-R-S OF SW 1/4 OF SEC 1, T 1S, R 13E.
Owner/Manager: PVT



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Occurrence No.	8	Map Index: 57542	EO Index: 57558	Element Last Seen:	1983-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1983-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2004-10-21
Quad Summary:	Chinese Camp (3712074), Sonora (3712084)				
County Summary:	Tuolumne				
Lat/Long:	37.88004 / -120.44105		Accuracy:	nonspecific area	
UTM:	Zone-10 N4195592 E725052		Elevation (ft):	1250	
PLSS:	T01S, R14E, Sec. 04 (M)		Acres:	858.2	
Location:	REGION OF CHINESE CAMP; TUOLUMNE COUNTY.				
Detailed Location:	SOURCE GIVES ONLY SEC 4 OF T 1S, R 14E.				
Ecological:	SERPENTINE VERNAL POOL.				
General:	NEEDS FIELDWORK.				
Owner/Manager:	PVT?				

<i>Eryngium racemosum</i>	Element Code: PDAPI0Z0S0				
Delta button-celery					
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G1Q		
	State: Endangered		State: S1		
	Other: Rare Plant Rank - 1B.1				
Habitat:	General: RIPARIAN SCRUB.				
	Micro: SEASONALLY INUNDATED FLOODPLAIN ON CLAY. 3-75M.				

Occurrence No.	31	Map Index: 25012	EO Index: 6275	Element Last Seen:	1989-07-01
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2009-10-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-06-03
Quad Summary:	Turlock Lake (3712055)				
County Summary:	Stanislaus				
Lat/Long:	37.61372 / -120.53908		Accuracy:	1/10 mile	
UTM:	Zone-10 N4165806 E717207		Elevation (ft):	240	
PLSS:	T04S, R13E, Sec. 04, SE (M)		Acres:	0.0	
Location:	EASTERN SHORE OF TURLOCK LAKE, NORTH OF THE TURLOCK MAIN CANAL.				
Detailed Location:	FROM THE CANAL NORTHWARD FOR 200+ M, FROM THE LAKE MARGIN EASTWARD 200+ M; BETWEEN THE LAKE AND LAKE ROAD. ACCESSIBLE BY LA VERNE POTTS RD, AN UNSIGNED GRAVEL ROAD LEADING TO THE LAKE. POP IS PROBABLY INUNDATED WHEN RESERVOIR IS FULL.				
Ecological:	VALLEY GRASSLAND. FLOODLAND WITH GRADUAL SLOPE; FLOODING SCHEDULE IS IRREGULAR. GROWING ON SAND OR MUD WITH MARSILEA MUCRONATA, LIPPIA INCISA, POLYGONUM HYDROPIPER, SIBARA VIRGINICA, ASTER EXILIS, TRIFOLIUM, AND ELEOCHARIS.				
General:	MANY THOUSANDS OF PLANTS OVER APPROX. 10 ACRES WERE OBSERVED BY ALLEN IN 1989. E. RACEMOSUM NOT RELOCATED IN 2009, THOUGH E. CASTRENSE SEEN IN NEARBY POOLS; PRESTON BELIEVES ORIGINAL SIGHTING MAY BE BASED ON ATYPICAL E. CASTRENSE.				
Owner/Manager:	DPR-TURLOCK LAKE SRA, PVT				

<i>Eryngium spinosepalum</i>	Element Code: PDAPI0Z0Y0				
spiny-sepaled button-celery					
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G2		
	State: None		State: S2		
	Other: Rare Plant Rank - 1B.2				



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Habitat:	General: VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND.
	Micro: SOME SITES ON CLAY SOIL OF GRANITIC ORIGIN; VERNAL POOLS, WITHIN GRASSLAND. 80-255 M.

Occurrence No.	22	Map Index:	35114	EO Index:	28956	Element Last Seen:	1993-07-15
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:	1993-07-15	Record Last Updated:	1996-05-21
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary:	La Grange (3712064)
County Summary:	Tuolumne

Lat/Long:	37.69484 / -120.46426	Accuracy:	nonspecific area
UTM:	Zone-10 N4174983 E723569	Elevation (ft):	500
PLSS:	T03S, R14E, Sec. 07, NE (M)	Acres:	39.7

Location: ABOUT 2.2 MI N OF CEMETERY IN LA GRANGE, JUST E OF TUOLUMNE/STANISLAUS COUNTY LINE. E OF HWY LEADING S TO SNELLING.

Detailed Location: ALSO IN SW 1/4 OF SECTION 5, SE 1/4 OF SECTION 6, AND NW 1/4 OF SECTION 8.

Ecological: SMALL, CLAY-LINED VERNAL POOLS ALONG INTERMITTENT CREEKS WITH ERYNGIUM VASEYI.

General: FEWER THAN 50 PLANTS IN 1993.

Owner/Manager: PVT

Occurrence No.	56	Map Index:	47715	EO Index:	52393	Element Last Seen:	2001-06-26
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	2001-06-26	Record Last Updated:	2003-09-09
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary:	Merced Falls (3712053)
County Summary:	Merced

Lat/Long:	37.54685 / -120.36103	Accuracy:	80 meters
UTM:	Zone-10 N4158812 E733134	Elevation (ft):	375
PLSS:	T04S, R15E, Sec. 31, NE (M)	Acres:	0.0

Location: 0.2 MILE NW OF KELSEY RESERVOIR, 2.3 MILES NW OF MERCED FALLS.

Detailed Location: MAPPED WITHIN THE NW 1/4 OF THE NE 1/4 OF SECTION 31.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS DIGITAL DATA FROM VOLLMAR. UNKNOWN NUMBER OF PLANTS SEEN IN 2001.

Owner/Manager: PVT-KELSEY RANCH



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Occurrence No.	57	Map Index:	52394	EO Index:	52394	Element Last Seen:	2001-07-06
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2001-07-06	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2003-09-09	
Quad Summary:	Snelling (3712054)						
County Summary:	Merced						
Lat/Long:	37.56386 / -120.40719	Accuracy:	80 meters				
UTM:	Zone-10 N4160587 E729002	Elevation (ft):	330				
PLSS:	T04S, R14E, Sec. 26, NW (M)	Acres:	0.0				
Location:	JUST SOUTH OF FIELDS ROAD, 1.3 MILES EAST OF ROAD J-59, NNE OF SNELLING.						
Detailed Location:	MAPPED WITHIN THE NW 1/4 OF THE NW 1/4 OF SECTION 26.						
Ecological:							
General:	ONLY SOURCE OF INFORMATION FOR THIS SITE IS DIGITAL DATA FROM VOLLMAR. UNKNOWN NUMBER OF PLANTS SEEN IN 2001.						
Owner/Manager:	PVT-RICHARDSON RANCH						
Occurrence No.	58	Map Index:	52395	EO Index:	52395	Element Last Seen:	2001-07-06
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2001-07-06	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2003-09-09	
Quad Summary:	Snelling (3712054)						
County Summary:	Merced						
Lat/Long:	37.56335 / -120.39768	Accuracy:	80 meters				
UTM:	Zone-10 N4160553 E729844	Elevation (ft):	345				
PLSS:	T04S, R14E, Sec. 26, NE (M)	Acres:	0.0				
Location:	ALONG UNNAMED TRIBUTARY TO SOUTH FORK DRY CREEK, SOUTH OF FIELDS ROAD, APPROXIMATELY 3.8 MILES NORTHEAST OF SNELLING.						
Detailed Location:	MAPPED WITHIN THE NW 1/4 OF THE NE 1/4 OF SECTION 26.						
Ecological:							
General:	ONLY SOURCE OF INFORMATION FOR THIS SITE IS DIGITAL DATA FROM VOLLMAR. UNKNOWN NUMBER OF PLANTS SEEN IN 2001.						
Owner/Manager:	PVT-RICHARDSON RANCH						



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Occurrence No.	59	Map Index: 52396	EO Index: 52396	Element Last Seen:	2001-07-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2001-07-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2010-10-26

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.55361 / -120.40382	Accuracy:	specific area
UTM:	Zone-10 N4159457 E729331	Elevation (ft):	320
PLSS:	T04S, R14E, Sec. 26, SW (M)	Acres:	10.0

Location: FROM 1.2 TO 1.5 AIR MILES SOUTHEAST OF THE INTERSECTION OF FIELDS ROAD WITH SR 59, ABOUT 3 AIR MILES NE OF SNELLING.

Detailed Location: 2 COLONIES MAPPED IN THE SW 1/4 OF SECTION 26 ACCORDING TO 2001 DIGITAL DATA.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS DIGITAL DATA FROM VOLLMAR. UNKNOWN NUMBER OF PLANTS SEEN IN 2001.

Owner/Manager: PVT-RICHARDSON RANCH

Occurrence No.	60	Map Index: 52397	EO Index: 52397	Element Last Seen:	2001-06-26
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2001-06-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-09-09

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.55046 / -120.38800	Accuracy:	specific area
UTM:	Zone-10 N4159147 E730739	Elevation (ft):	360
PLSS:	T04S, R14E, Sec. 36, NW (M)	Acres:	17.4

Location: NORTH OF MERCED RIVER, ABOUT 2 MI EAST OF COUNTY ROAD J-59 AND 1.2 MI SOUTH OF ELBOW IN FIELDS ROAD, NE OF SNELLING.

Detailed Location: MAPPED WITHIN THE SW 1/4 OF THE SW 1/4 OF SECTION 25 AND THE NW 1/4 OF THE NW 1/4 OF SECTION 36.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS DIGITAL DATA FROM VOLLMAR. UNKNOWN NUMBER OF PLANTS SEEN IN 2001.

Owner/Manager: PVT-KELSEY RANCH



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Occurrence No.	61	Map Index: 52398	EO Index: 52398	Element Last Seen:	2001-07-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2001-07-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-09-09

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.53876 / -120.39526	Accuracy:	specific area
UTM:	Zone-10 N4157830 E730134	Elevation (ft):	410
PLSS:	T04S, R14E, Sec. 35, SE (M)	Acres:	16.2

Location: FROM 1.4 TO 1.8 MILES EAST OF COUNTY ROAD J-59 & FROM 1.5 TO 1.8 MILES SOUTH OF FIELDS ROAD, NNE OF SNELLING.

Detailed Location: 3 COLONIES MAPPED WITHIN THE S 1/2 OF SECTION 35 AND MOSTLY IN THE SE 1/4.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS DIGITAL DATA FROM VOLLMAR. UNKNOWN NUMBER OF PLANTS SEEN IN 2001.

Owner/Manager: PVT-RICHARDSON RANCH

Occurrence No.	62	Map Index: 51923	EO Index: 52399	Element Last Seen:	2001-06-29
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2001-06-29
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-09-09

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.53926 / -120.37800	Accuracy:	specific area
UTM:	Zone-10 N4157928 E731658	Elevation (ft):	470
PLSS:	T04S, R14E, Sec. 36, SE (M)	Acres:	7.2

Location: WEST OF KELSEY RESERVOIR, 0.5 MI NORTH OF NORTH SIDE FLUME, 2.7 MILES WEST OF GRANGE ROAD, NORTH OF THE MERCED RIVER.

Detailed Location: MAPPED WITHIN THE SW 1/4 OF THE SE 1/4 OF SECTION 36.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS DIGITAL DATA FROM VOLLMAR. UNKNOWN NUMBER OF PLANTS SEEN IN 2001.

Owner/Manager: PVT-KELSEY RANCH



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Occurrence No.:	69	Map Index:	80542	EO Index:	81525	Element Last Seen:	2001-07-06
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2001-07-06	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2010-10-28	

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.54837 / -120.39893	Accuracy:	specific area
UTM:	Zone-10 N4158888 E729780	Elevation (ft):	340
PLSS:	T04S, R14E, Sec. 35, N (M)	Acres:	10.0

Location: ABOUT 1.8 AIR MILES SOUTHEAST OF THE INTERSECTION OF FIELDS ROAD WITH SR 59, ABOUT 3 AIR MILES NE OF SNELLING.

Detailed Location: 2 COLONIES MAPPED IN THE CENTER OF THE N 1/2 OF THE N 1/2 OF SECTION 35 ACCORDING TO 2001 DIGITAL DATA.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS DIGITAL DATA FROM VOLLMAR. UNKNOWN NUMBER OF PLANTS SEEN IN 2001. FORMERLY PART OF OCCURRENCE #59.

Owner/Manager: PVT-RICHARDSON RANCH

Lomatium congdonii

Element Code: PDAPI1B0B0

Congdon's lomatium

Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G2
	State: None		State: S2

Other: Rare Plant Rank - 1B.2, BLM_S-Sensitive

Habitat: General: CISMONTANE WOODLAND, CHAPARRAL.

Micro: SERPENTINE SOILS WITH SERPENTINE CHAPARRAL PLANTS AND GREY PINES. 300-2100 M.

Occurrence No.:	1	Map Index:	13499	EO Index:	13982	Element Last Seen:	2005-04-20
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2005-04-20	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2010-05-27	

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82140 / -120.42221	Accuracy:	specific area
UTM:	Zone-10 N4189130 E726889	Elevation (ft):	1350
PLSS:	T01S, R14E, Sec. 27 (M)	Acres:	189.7

Location: ABOUT 1 AIR MILE S-SSW OF HUNGRY HILL, 3 AIR MILES SOUTH OF CHINESE CAMP.

Detailed Location: MAPPED USING A 1981 CHAMBERLAIN MAP. MAJORITY OF OCCURRENCE IS IN SEC 27 AND EXTENDS INTO SE1/4 OF SEC 22 & E1/2 OF SEC 28. A 1984 TAYLOR COLLECTION FROM "ALONG DIRT ROAD INTO SIX BIT GULCH" IN SECTION 22 ALSO ATTRIBUTED TO THIS SITE.

Ecological: SERPENTINE SOIL. DOMINATED BY EVENLY-SPACED CEANOTHUS CUNEATUS, WITH A DIVERSE FORB AND GRASS UNDERSTORY. EVIDENCE OF RELATIVELY RECENT FIRE, AS MANY CEANOTHUS CUNEATUS HAVE BEEN KILLED BY FIRE. ASSOC W/ PLANTAGO ERECTA, CALYCADENIA, ETC.

General: INFREQUENT IN 1984. UNKNOWN NUMBER OF PLANTS OBSERVED IN 2005.

Owner/Manager: BLM-FOLSOM RA



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Occurrence No.	2	Map Index:	78960	EO Index:	13983	Element Last Seen:	2005-04-20
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2005-04-20	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-06-15	
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.84835 / -120.44103			Accuracy:	specific area		
UTM:	Zone-10 N4192076 E725150			Elevation (ft):	1250		
PLSS:	T01S, R14E, Sec. 16 (M)			Acres:	172.0		
Location:	FROM 0 TO 0.85 AIR MILES SOUTH OF TAYLOR HILL, ABOUT 1.25 AIR MILES SSW OF CHINESE CAMP.						
Detailed Location:	3 POLYGONS: WESTERN AND SOUTHERN POLYGON BASED ON A 1981 CHAMBERLAIN MAP, EASTERN POLYGON BASED ON UTM COORDINATES GIVEN IN A 2005 FIELD SURVEY FORM.						
Ecological:	ON SERPENTINE SOIL. ASSOCIATED W/ CEANOTHUS CUNEATUS, PINUS SABINIANA, PLANTAGO ERECTA, RHAMNUS ILICIFOLIA, PENTAGRAMMA TRIANGULARIS, VULPIA MICROSTACHYS, ERIOPHYLLUM LANATUM, LASTHENIA CALIFORNICA, MADIA EXIGUA, MICROPUS CALIFORNICUS, ETC.						
General:	UNKNOWN NUMBER OF PLANTS OBSERVED IN 1981 AND 2005. A 1984 STONE COLLECTION IS ALSO ATTRIBUTED TO THIS SITE, "LOCALLY COMMON" IN 1984.						
Owner/Manager:	BLM-FOLSOM RA						
Occurrence No.	3	Map Index:	13400	EO Index:	19959	Element Last Seen:	2013-03-17
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2013-03-17	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-06-15	
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.84560 / -120.46273			Accuracy:	specific area		
UTM:	Zone-10 N4191718 E723249			Elevation (ft):	1100		
PLSS:	T01S, R14E, Sec. 17 (M)			Acres:	278.0		
Location:	ALONG RED HILLS ROAD, NE OF CRIMEA HOUSE.						
Detailed Location:	MAPPED AS 6 POLYGONS MOSTLY ACC TO 1981 CHAMBERLAIN MAP. SW-MOST POLY BASED ON 1975 POWELL COLL FROM "CENTER BOTTOM OF SEC 18." 1982 ROGERS REPORT MENTIONS 808 PLANTS OCCURRING NEAR "TAILING POND SITE"; CNDDDB IS UNSURE WHERE THIS IS.						
Ecological:	ON SERPENTINE SOIL. SOME AREAS ASSOCIATED WITH CHLOROGALUM GRANDIFLORUM, CEANOTHUS CUNEATUS, PINUS SABINIANA, AND STREPTANTHUS POLYGALOIDES.						
General:	1975 POWELL COLL SAYS PLANT "SEEMS TO BE SOMEWHAT COMMON & WIDELY DISTRIB IN THIS AREA." <10 PLANTS IN SMALL PORTION IN 1982. 1000S AROUND PERIMETER OF N-MOST POLY IN 1987. SEEN IN 2013. NEED BETTER MAP DETAIL. INCL EO #4, 5, 7, 8, 13, 17.						
Owner/Manager:	BLM-FOLSOM RA						



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Occurrence No.	6	Map Index: 13403	EO Index: 3046	Element Last Seen:	1981-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1981-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1995-06-14

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86599 / -120.46339	Accuracy:	specific area
UTM:	Zone-10 N4193979 E723130	Elevation (ft):	1400
PLSS:	T01S, R14E, Sec. 08, NW (M)	Acres:	51.1

Location: 1.5 MILES WSW OF CHINESE CAMP.

Detailed Location: MAPPED BY CNDDDB ACCORDING TO A 1981 MAP.

Ecological: ON SERPENTINE SOIL.

General: SITE BASED ON A 1981 CHAMBERLAIN MAP.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	9	Map Index: 13461	EO Index: 3044	Element Last Seen:	1982-05-23
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1982-05-23
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1996-01-02

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86602 / -120.43852	Accuracy:	nonspecific area
UTM:	Zone-10 N4194042 E725318	Elevation (ft):	1250
PLSS:	T01S, R14E, Sec. 09, NE (M)	Acres:	22.9

Location: APPROXIMATELY 0.5 MILE WEST OF CHINESE CAMP ON RED HILLS ROAD.

Detailed Location:

Ecological: ON SERPENTINE SOIL ALONG ROADSIDE.

General: FEWER THAN 50 PLANTS IN 1982.

Owner/Manager: PVT

Occurrence No.	10	Map Index: 13432	EO Index: 3045	Element Last Seen:	1982-XX-XX
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	1982-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2009-05-12

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86269 / -120.45324	Accuracy:	80 meters
UTM:	Zone-10 N4193637 E724033	Elevation (ft):	1100
PLSS:	T01S, R14E, Sec. 08, NE (M)	Acres:	0.0

Location: APPROXIMATELY 0.15 MILE NORTH OF THE JUNCTION OF SIMS ROAD AND RED HILLS ROAD, SW OF CHINESE CAMP.

Detailed Location: MAPPED ABOUT 600-700' NORTH OF RED HILLS ROAD AND 100-200' EAST OF SIMS ROAD. WITHIN THE SE 1/4 OF THE NE 1/4 OF SECTION 8.

Ecological: FORMERLY WITH A FOOTHILL PINE OVERSTORY AND PERENNIAL GRASSES.

General: 135 PLANTS IN 1982.

Owner/Manager: PVT



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Occurrence No.	12	Map Index: 13412	EO Index: 19954	Element Last Seen: 1982-06-09
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1982-06-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1989-08-11

Quad Summary: Chinese Camp (3712074), Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.87548 / -120.46047	Accuracy:	1/5 mile
UTM:	Zone-10 N4195039 E723358	Elevation (ft):	1200
PLSS:	T01S, R14E, Sec. 05, SW (M)	Acres:	0.0

Location: 1/3 MI SW OF CHINESE STATION.

Detailed Location:

Ecological: AMONG THE GRASSES ON THE DOWNHILL SIDE OF FOOTHILL PINES.

General: 57 PLANTS IN 1982.

Owner/Manager: PVT

Occurrence No.	15	Map Index: 13310	EO Index: 19951	Element Last Seen: 1975-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1975-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1989-08-11

Quad Summary: Chinese Camp (3712074), Keystone (3712075), Sonora (3712084), New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.87131 / -120.50743	Accuracy:	1 mile
UTM:	Zone-10 N4194465 E719239	Elevation (ft):	
PLSS:	T01S, R13E, Sec. 02, S (M)	Acres:	0.0

Location: 2.5 MILES NORTH OF KEYSTONE.

Detailed Location:

Ecological:

General: SCATTERED IN THE AREA.

Owner/Manager: BLM-FOLSOM RA, PVT

Occurrence No.	18	Map Index: 31309	EO Index: 3039	Element Last Seen: 1987-05-20
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen: 1987-05-20
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2009-05-12

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82593 / -120.46471	Accuracy:	specific area
UTM:	Zone-10 N4189530 E723135	Elevation (ft):	1150
PLSS:	T01S, R14E, Sec. 20, SW (M)	Acres:	31.6

Location: NORTHEAST SIDE OF OLD DON PEDRO ROAD, 1 MILE SOUTHEAST OF CRIMEA HOUSE.

Detailed Location: MAPPED IN DRAINAGES WITHIN THE S 1/2 OF THE SW 1/4 OF SECTION 20 AND THE NW 1/4 OF THE NW 1/4 OF SECTION 29.

Ecological: SERPENTINE SOILS AND DRY SLOPES. ASSOCIATED WITH CHLOROGALUM GRANDIFLORUM, CEANOTHUS CUNEATUS, PINUS SABINIANA, AND STREPTANTHUS POLYGALOIDES.

General: PLANTS SEEN IN 1987.

Owner/Manager: BLM-FOLSOM RA



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Occurrence No.	19	Map Index: 74930	EO Index: 75934	Element Last Seen:	2001-06-29
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2001-06-29
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2009-04-30

Quad Summary: Moccasin (3712073)

County Summary: Tuolumne

Lat/Long:	37.81169 / -120.37345	Accuracy:	80 meters
UTM:	Zone-10 N4188172 E731212	Elevation (ft):	1600
PLSS:	T01S, R15E, Sec. 31, NW (M)	Acres:	0.0

Location: ABOUT 3 AIR MILES SE OF HUNGRY HILL, EAST OF DON PEDRO RESERVOIR.

Detailed Location: CLOSEST ROAD ACCESS IS FROM MARSH'S FLAT RD OFF OF HWY 49 SOUTH OF MOCCASIN; PERMISSION OF LAND OWNERS IS NEEDED TO CONTINUE (THERE ARE LOCKED GATES).

Ecological: VEGETATION IS TYPICAL RED HILLS SERPENTINE, N-FACING SLOPES; CEANOETHUS CUNEATUS DOMINANT, WITH PINUS SABINIANA, HETEROMELES ARBUTIFOLIA, MELICA CALIFORNICA, SITANION JUBATUM.

General: ~15 PLANTS SEEN IN 2001 OVER 0.1 ACRE. ADDITIONAL EARLIER AND MORE EXTENSIVE SURVEYS IN AREA ARE WARRANTED.

Owner/Manager: BLM

Occurrence No.	20	Map Index: 74932	EO Index: 75935	Element Last Seen:	2000-06-16
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2000-06-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2009-04-30

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82066 / -120.38966	Accuracy:	specific area
UTM:	Zone-10 N4189128 E729757	Elevation (ft):	1250
PLSS:	T01S, R14E, Sec. 25, NW (M)	Acres:	7.0

Location: ABOUT 2 AIR MILES SE OF HUNGRY HILL, EAST OF DON PEDRO RESERVOIR.

Detailed Location: PLANTS OBSERVED WERE ON N-FACING SLOPE NEAR TOP OF HILL.

Ecological: VEGETATION IS TYPICAL OF THE RED HILLS; CEANOETHUS CUNEATUS CHAPARRAL WITH PINUS SABINIANA, CHLOROGALUM GRANDIFLORUM ALSO PRESENT.

General: ~20 PLANTS SEEN IN 2000 OVER <0.5 ACRE, FURTHER SURVEY WARRANTED.

Owner/Manager: BLM



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Occurrence No.	23	Map Index: 78961	EO Index: 79920	Element Last Seen:	2005-04-21
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2005-04-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2010-05-27
Quad Summary:	Chinese Camp (3712074)				
County Summary:	Tuolumne				
Lat/Long:	37.82177 / -120.39808		Accuracy:	80 meters	
UTM:	Zone-10 N4189230 E729012		Elevation (ft):	1100	
PLSS:	T01S, R14E, Sec. 26, NE (M)		Acres:	0.0	
Location:	BETWEEN DON PEDRO RESERVOIR AND POOR MANS GULCH, ABOUT 1.5 AIR MILES SOUTHEAST OF HUNGRY HILL.				
Detailed Location:	MAPPED IN THE SE 1/4 OF THE NE 1/4 OF SECTION 26.				
Ecological:	ASSOCIATED WITH CEANOTHUS CUNEATUS, PLANTAGO ERECTA, MOSS, RHAMNUS ILICIFOLIA, PINUS SABINIANA, BRODIAEA, VULPIA BROMOIDES, HETEROMELES ARBUTIFOLIA, AIRA CARYOPHYLLEA, AVENA BARBATA, BRACHYPODIUM DISTACHYON, BROMUS HORDEACEUS, ETC.				
General:	UNKNOWN NUMBER OF PLANTS OBSERVED IN 2005.				
Owner/Manager:	BLM				
Occurrence No.	25	Map Index: A0609	EO Index: 102165	Element Last Seen:	2016-05-04
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2016-05-04
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-16
Quad Summary:	Moccasin (3712073)				
County Summary:	Tuolumne				
Lat/Long:	37.7718 / -120.26001		Accuracy:	nonspecific area	
UTM:	Zone-10 N4184032 E741331		Elevation (ft):	1500	
PLSS:	T02S, R15E, Sec. 12, SE (M)		Acres:	69.0	
Location:	4 MILES SOUTHEAST OF MOCCASIN CREEK POWER HOUSE.				
Detailed Location:	EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB ALONG HIGHWAY 49 AROUND 4 ROAD MILES SOUTHEAST OF MOCCASIN CREEK POWER HOUSE.				
Ecological:	SERPENTINE.				
General:	SITE IS BASED ON A 1954 HOWELL COLLECTION. 2012 AND 2016 PHOTOS BY THORSTED IN CALPHOTOS FROM "HWY 49 NEAR TUOLUMNE CO LINE, TUOLUMNE CO" ARE ALSO ATTRIBUTED TO THIS SITE.				
Owner/Manager:	BLM?				
Occurrence No.	26	Map Index: A0612	EO Index: 102168	Element Last Seen:	2011-05-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2011-05-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-06-16
Quad Summary:	Chinese Camp (3712074)				
County Summary:	Tuolumne				
Lat/Long:	37.86066 / -120.46977		Accuracy:	80 meters	
UTM:	Zone-10 N4193373 E722585		Elevation (ft):	1190	
PLSS:	T01S, R14E, Sec. 7, SE (M)		Acres:	5.0	
Location:	INTERPRETIVE POST 6 ON THE RED HILLS INTERPRETIVE NATURE TRAIL, SOUTH OF NORTH SERPENTINE LOOP ROAD.				
Detailed Location:	MAPPED IN THE NE 1/4 OF THE SE 1/4 OF SECTION 7.				
Ecological:	ASSOCIATED WITH CALYSTEGIA OCCIDENTALIS SSP. OCCIDENTALIS AND C. OCCIDENTALIS SSP. FULCRATA.				
General:	SEEN IN 2009, 2010, AND 2011.				
Owner/Manager:	BLM				



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<i>Calycadenia hooveri</i>		Element Code: PDAST1P040	
Hoover's calycadenia			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G3
	State: None		State: S3
	Other: Rare Plant Rank - 1B.3, BLM_S-Sensitive		
Habitat:	General: CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.		
	Micro: ON EXPOSED, ROCKY, BARREN SOIL. 65-300 M.		

Occurrence No.	2	Map Index: 13134	EO Index: 6015	Element Last Seen:	1988-09-16
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1988-09-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2006-10-23
Quad Summary:	Keystone (3712075)				
County Summary:	Stanislaus				
Lat/Long:	37.76626 / -120.61477		Accuracy:	specific area	
UTM:	Zone-10 N4182560 E710095		Elevation (ft):	350	
PLSS:	T02S, R12E, Sec. 14, NE (M)		Acres:	11.6	
Location:	5.5 MILES SOUTHEAST OF KNIGHTS FERRY ON WILLMS ROAD.				
Detailed Location:	FOUND UNDER, AND TO THE NORTH OF, THE FIRST TRANSMISSION TOWER WEST OF THE ROAD. THE POPULATION EXTENDS 100-400 METERS NORTHEAST OF THE ROAD.				
Ecological:	ANNUAL GRASSLAND ON BARE ROCKY HILLTOP OF IONE FORMATION.				
General:	TYPE LOCALITY. ABUNDANT IN (EARLY?) 1980'S. 10,000+ PLANTS OBSERVED BY STONE IN 1988. LAND USE AS DRY PASTURE CONSISTENT WITH CONTINUED EXISTENCE OF THIS PLANT.				
Owner/Manager:	PVT-HETCH HETCHY WATER & POWER				

Occurrence No.	4	Map Index: 13359	EO Index: 17174	Element Last Seen:	1975-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1975-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2006-10-31
Quad Summary:	La Grange (3712064)				
County Summary:	Stanislaus				
Lat/Long:	37.65351 / -120.47016		Accuracy:	1 mile	
UTM:	Zone-10 N4170384 E723172		Elevation (ft):		
PLSS:	T03S, R14E, Sec. 19 (M)		Acres:	0.0	
Location:	IN THE VICINITY OF LA GRANGE AND DAWSON LAKE.				
Detailed Location:	MAPPED AS BEST GUESS BY CNDDDB JUST SW OF LA GRANGE. THERE COULD BE MORE THAN ONE SITE IN THIS AREA; SEE GENERAL COMMENTS.				
Ecological:	ON ROCKY HILLTOP, IONE FORMATION (CARR); ON DRY, ROCKY SLOPE (ALLEN).				
General:	COLLECTIONS FROM "LA GRANGE" (ALLEN 1960), "DRY ROCKY SLOPE W OF DAWSON LAKE" (ALLEN 1962) AND "2 MI SW OF LA GRANGE DIRECTLY E OF DAWSON L" (CARR 1971) ATTRIBUTED TO THIS OCCURRENCE. INCL. FORMER OCCURRENCES #5 AND #33. NEEDS FIELDWORK.				
Owner/Manager:	UNKNOWN				



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Occurrence No.	15	Map Index: 13225	EO Index: 17162	Element Last Seen: 1977-06-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1977-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1989-08-11

Quad Summary: Cooperstown (3712065)
County Summary: Stanislaus

Lat/Long:	37.71159 / -120.56408	Accuracy:	1/5 mile
UTM:	Zone-10 N4176609 E714718	Elevation (ft):	280
PLSS:	T02S, R13E, Sec. 32, S (M)	Acres:	0.0

Location: 2.5 AIR MI SSW OF COOPERSTOWN.
Detailed Location:
Ecological: ON HORNITOS SANDSTONE IN VALLEY GRASSLAND ASSOCIATED WITH STIPA CERNUA, SILENE GALLICA, AND GILIA TRICOLOR.
General:
Owner/Manager: PVT

Occurrence No.	16	Map Index: 13266	EO Index: 17163	Element Last Seen: 1977-06-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1977-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2006-10-26

Quad Summary: Cooperstown (3712065)
County Summary: Stanislaus

Lat/Long:	37.71893 / -120.53842	Accuracy:	specific area
UTM:	Zone-10 N4177483 E716958	Elevation (ft):	280
PLSS:	T02S, R13E, Sec. 33, NE (M)	Acres:	1.0

Location: 1.75 AIR MILES SOUTH OF COOPERSTOWN ON SMALL KNOLL ON DRY CREEK FLOODPLAIN.
Detailed Location:
Ecological: ON HORNITOS SANDSTONE IN VALLEY GRASSLAND ASSOCIATED WITH STIPA CERNUA, SILENE GALLICA, GILIA TRICOLOR, AND PLAGIOBOTHRYIS SHASTENSIS.
General: 20 PLANTS SEEN.
Owner/Manager: PVT

Occurrence No.	17	Map Index: 13239	EO Index: 17161	Element Last Seen: 1977-06-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1977-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1989-08-11

Quad Summary: Cooperstown (3712065)
County Summary: Stanislaus

Lat/Long:	37.74020 / -120.55853	Accuracy:	1/5 mile
UTM:	Zone-10 N4179796 E715124	Elevation (ft):	270
PLSS:	T02S, R13E, Sec. 20, SE (M)	Acres:	0.0

Location: ON S SIDE OF COOPERSTOWN RD, 0.7 MI E OF N FK OF DRY CR.
Detailed Location:
Ecological: ON HORNITOS SANDSTONE IN VALLEY GRASSLAND WITH STIPA CERNUA, SILENE GALLICA, GILIA TRICOLOR, PLAGIOBOTHRYIS SHASTENSIS AND LOTUS PURSHIANUS.
General: PLANTS SMALL AND IMMATURE.
Owner/Manager: PVT



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Occurrence No.	18	Map Index: 13256	EO Index: 17159	Element Last Seen: 1977-06-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1977-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2006-10-30

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.71597 / -120.54865	Accuracy:	specific area
UTM:	Zone-10 N4177131 E716065	Elevation (ft):	275
PLSS:	T02S, R13E, Sec. 33, SW (M)	Acres:	11.0

Location: 2.0 AIR MI SSW OF COOPERSTOWN, S SIDE OF DRY CREEK.

Detailed Location:

Ecological: ON HORNITOS SANDSTONE IN VALLEY GRASSLAND ASSOCIATED WITH STIPA CERNUA, SILENE GALLICA, GILIA TRICOLOR, AND PLAGIOBOTHRYIS SHASTENSIS.

General:

Owner/Manager: PVT

Occurrence No.	19	Map Index: 13198	EO Index: 17160	Element Last Seen: 1977-06-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1977-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1989-08-11

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.71576 / -120.57464	Accuracy:	1/5 mile
UTM:	Zone-10 N4177047 E713775	Elevation (ft):	260
PLSS:	T02S, R13E, Sec. 31, SE (M)	Acres:	0.0

Location: 2.75 AIR MI SW OF COOPERSTOWN.

Detailed Location:

Ecological: ON HORNITOS SANDSTONE IN VALLEY GRASSLAND ASSOCIATED WITH STIPA CERNUA, SILENE GALLICA, AND GILIA TRICOLOR.

General:

Owner/Manager: PVT

Occurrence No.	35	Map Index: 44052	EO Index: 44052	Element Last Seen: 1999-07-25
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1999-07-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2000-10-18

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.54759 / -120.38835	Accuracy:	specific area
UTM:	Zone-10 N4158826 E730718	Elevation (ft):	350
PLSS:	T04S, R14E, Sec. 36, NW (M)	Acres:	10.4

Location: NORTH OF MERCED RIVER, ABOUT 2 MI EAST OF COUNTY ROAD J-59 AND 1.2 MI SOUTH OF ELBOW IN FIELDS ROAD, NE OF SNELLING.

Detailed Location: MAPPED MOSTLY WITHIN THE NW 1/4 NW 1/4 SECTION 36.

Ecological: ON HORNITOS SANDSTONE OUTSCROPS ON BLUFFS OVERLOOKING SEASONAL DRAINAGE FROM STOCK POND.

General: 100+ PLANTS OBSERVED IN 1999. LAND APPEARS WELL MANAGED.

Owner/Manager: PVT



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Occurrence No.	36	Map Index: 50316	EO Index: 50316	Element Last Seen:	2000-10-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2000-10-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-07-15

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.56112 / -120.38578	Accuracy:	specific area
UTM:	Zone-10 N4160334 E730903	Elevation (ft):	350
PLSS:	T04S, R14E, Sec. 25, NW (M)	Acres:	19.0

Location: HEADWATERS SOUTH FORK DRY CREEK, 1.2 MILES NORTHWEST OF KELSEY RESERVOIR, NORTH OF THE MERCED RIVER.

Detailed Location: MAPPED MOSTLY WITHIN THE SE 1/4 OF THE NW 1/4 OF SECTION 25.

Ecological: ROCK OUTCROPS WITHIN ANNUAL GRASSLAND/BLUE OAK WOODLAND. OTHER ASSOCIATES INCLUDE BROMUS SPP, VULPIA SPP, HYPOCHAERIS GLABRA. SUBSTRATE IS HORNITOS SANDSTONE.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2000.

Owner/Manager: PVT-RICHARDS RANCH

Occurrence No.	37	Map Index: 50317	EO Index: 50317	Element Last Seen:	2000-10-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2000-10-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-07-15

Quad Summary: Merced Falls (3712053)

County Summary: Merced

Lat/Long:	37.56298 / -120.34997	Accuracy:	80 meters
UTM:	Zone-10 N4160630 E734060	Elevation (ft):	380
PLSS:	T04S, R15E, Sec. 29, NW (M)	Acres:	0.0

Location: NORTH OF THE MERCED RIVER, APPROXIMATELY 1.3 MILES NORTH OF KELSEY RESERVOIR, WEST OF RANDI ACCESS ROAD.

Detailed Location: MAPPED WITHIN THE NW 1/4 OF THE NW 1/4 OF SECTION 29.

Ecological: ROCK OUTCROPS WITHIN ANNUAL GRASSLAND/BLUE OAK WOODLAND. ON HORNITOS SANDSTONE.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2000.

Owner/Manager: PVT-RICHARDS RANCH



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Occurrence No.	38	Map Index: 50318	EO Index: 50318	Element Last Seen:	2000-10-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2000-10-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2016-07-18
Quad Summary:	Merced Falls (3712053)				
County Summary:	Merced				
Lat/Long:	37.54840 / -120.36021		Accuracy:	specific area	
UTM:	Zone-10 N4158986 E733201		Elevation (ft):	350	
PLSS:	T04S, R15E, Sec. 31, NE (M)		Acres:	20.0	
Location:	0.4 AIR MILES NORTHWEST OF KELSEY RESERVOIR, 2.6 AIR MILES NORTHWEST OF MERCED FALLS.				
Detailed Location:	THREE COLONIES MAPPED WITHIN THE SE 1/4 OF THE SW 1/4 OF SECTION 30 AND THE NW 1/4 AND SW 1/4 OF THE NE 1/4 OF SECTION 31.				
Ecological:	ROCK OUTCROPS WITHIN ANNUAL GRASSLAND/BLUE OAK WOODLAND. ASSOCIATES INCLUDE BROMUS SSP, VULPIA SPP., AND HYPOCHAERIS GLABRA. ON HORNITOS SANDSTONE.				
General:	UNKNOWN NUMBER OF PLANTS OBSERVED IN 2000. INCLUDES FORMER OCCURRENCE #41.				
Owner/Manager:	PVT-RICHARDS RANCH				
Occurrence No.	39	Map Index: 50319	EO Index: 50319	Element Last Seen:	2000-10-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2000-10-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-07-15
Quad Summary:	Merced Falls (3712053)				
County Summary:	Merced				
Lat/Long:	37.54705 / -120.35031		Accuracy:	specific area	
UTM:	Zone-10 N4158861 E734080		Elevation (ft):	350	
PLSS:	T04S, R15E, Sec. 32, NW (M)		Acres:	16.1	
Location:	NORTH OF THE MERCED RIVER, APPROXIMATELY 0.2 MILE NORTHEAST OF KELSEY RESERVOIR, WEST OF RANCH ACCESS ROAD.				
Detailed Location:	MAPPED WITHIN THE W 1/2 OF THE NW 1/4 OF SECTION 32 AND JUST OVER THE LINE INTO SECTION 31.				
Ecological:	ROCK OUTCROPS WITHIN ANNUAL GRASSLAND/BLUE OAK WOODLAND. ASSOCIATES INCLUDE BROMUS AND VULPIA. ON HORNITOS SANDSTONE.				
General:	UNKNOWN NUMBER OF PLANTS OBSERVED IN 2000.				
Owner/Manager:	PVT-RICHARDS RANCH				



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Occurrence No.	40	Map Index: 50323	EO Index: 50323	Element Last Seen:	2000-10-XX
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2000-10-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-07-15

Quad Summary: Merced Falls (3712053)

County Summary: Merced

Lat/Long:	37.54358 / -120.36977	Accuracy:	specific area
UTM:	Zone-10 N4158427 E732372	Elevation (ft):	350
PLSS:	T04S, R15E, Sec. 31, NW (M)	Acres:	6.0

Location: WEST OF KELSEY RESERVOIR, 0.5 MILE NORTH OF SNELLING DIVERSION DAM ON THE MERCED RIVER.

Detailed Location: MAPPED WITHIN THE SW 1/4 OF THE NW 1/4 OF SECTION 31.

Ecological: ROCK OUTCROPS WITHIN ANNUAL GRASSLAND/BLUE OAK WOODLAND. ASSOCIATES INCLUDE BROMUS, VULPIA, & HYPOCHAERIS GLABRA. ON HORNITOS SANDSTONE.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2000.

Owner/Manager: PVT-KELSEY RANCH

Occurrence No.	42	Map Index: 66807	EO Index: 66961	Element Last Seen:	2006-05-12
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2006-05-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2006-10-26

Quad Summary: La Grange (3712064)

County Summary: Stanislaus

Lat/Long:	37.67414 / -120.49343	Accuracy:	specific area
UTM:	Zone-10 N4172617 E721058	Elevation (ft):	
PLSS:	T03S, R13E, Sec. 13 (M)	Acres:	19.0

Location: ALONG WESTERN FORKS OF UPPER DOMINICI CREEK, 1.7 MILES WNW OF LA GRANGE.

Detailed Location: OCCURRENCE CONSISTS OF 63 DETAILED POLYGONS. MAPPED ACCORDING TO MAP PROVIDED BY STEWMAN.

Ecological: THIN CLAY SOIL, ROCK OUTCROP TERRACES, DIVERSE ANNUAL GRASSLAND COMMUNITY. ASSOCIATED WITH HOLOCARPA VIRGATA, LOLIUM MULTIFLORUM, LASTHENIA CALIFORNICA. THE RARE PSEUDOBALIA BAHIIIFOLIA AND DOWNINGIA PUSILLA ALSO OCCUR HERE.

General: 10,000-20,000 PLANTS OBSERVED IN 2006 BETWEEN THIS OCCURRENCE AND OCCURRENCE #43, SPREAD OUT IN SEVERAL DISTINCT POPULATIONS. MAY BE INCLUDED IN CONSERVATION EASEMENTS.

Owner/Manager: PVT



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Occurrence No.	43	Map Index:	66810	EO Index:	66967	Element Last Seen:	2006-05-12
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		2006-05-12	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2006-10-26	

Quad Summary: La Grange (3712064)

County Summary: Stanislaus

Lat/Long:	37.68089 / -120.48131	Accuracy:	specific area
UTM:	Zone-10 N4173395 E722106	Elevation (ft):	400
PLSS:	T03S, R14E, Sec. 18, NW (M)	Acres:	0.0

Location: N OF THE EASTERN FORK OF UPPER DOMINICI CREEK, 0.3 MILE SW OF COOPERSTOWN ROAD, 1.5 MILES NW OF LA GRANGE.

Detailed Location:

Ecological: THIN CLAY SOIL, ROCK OUTCROP TERRACES, DIVERSE ANNUAL GRASSLAND COMMUNITY. ASSOCIATED WITH HOLOCARPA VIRGATA, LOLIUM MULTIFLORUM, LASTHENIA CALIFORNICA.

General: 10,000-20,000 PLANTS OBSERVED IN 2006 BETWEEN THIS OCCURRENCE AND OCCURRENCE #42, SPREAD OUT IN SEVERAL DISTINCT POPULATIONS. MAY BE INCLUDED IN CONSERVATION EASEMENTS.

Owner/Manager: PVT

Lagophylla dichotoma **Element Code:** PDAST5J070
 forked hare-leaf

Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G1
	State: None		State: S1
	Other: Rare Plant Rank - 1B.1		

Habitat: **General:** CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.
Micro: SOMETIMES CLAY. 45-335 M.

Occurrence No.	14	Map Index:	85755	EO Index:	86786	Element Last Seen:	1937-05-04
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1937-05-04	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2012-04-18	

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.73226 / -120.59675	Accuracy:	1 mile
UTM:	Zone-10 N4178829 E711778	Elevation (ft):	
PLSS:	T02S, R12E, Sec. 25 (M)	Acres:	0.0

Location: WARNERVILLE, 13.5 MILES EAST OF OAKDALE.

Detailed Location: EXACT LOATION UNKNOWN. MAPPED BY CNDDDB AROUND WARNERVILLE ACCORDING TO A 1937 HOOVER COLLECTION.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1937 HOOVER COLLECTION. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Pseudobahia bahiifolia **Element Code:** PDAST7P010
 Hartweg's golden sunburst

Listing Status:	Federal: Endangered	CNDDB Element Ranks:	Global: G2
	State: Endangered		State: S2
	Other: Rare Plant Rank - 1B.1, SB_RSABG-Rancho Santa Ana Botanic Garden		

Habitat: **General:** VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND.
Micro:



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CLAY SOILS, OFTEN ACIDIC. PREDOMINANTLY ON THE NORTHERN SLOPES OF KNOLLS, BUT ALSO ALONG SHADY CREEKS OR NEAR VERNAL POOLS. 60-170 M.

Occurrence No.	3	Map Index:	13183	EO Index:	7971	Element Last Seen:	1990-04-13
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2010-04-09	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2011-04-15	
Quad Summary:	Cooperstown (3712065)						
County Summary:	Stanislaus						
Lat/Long:	37.72168 / -120.58132			Accuracy:	specific area		
UTM:	Zone-10 N4177689 E713169			Elevation (ft):	240		
PLSS:	T02S, R13E, Sec. 31 (M)			Acres:	47.0		
Location:	APPROXIMATELY 1 AIR MILE SE OF WARNERVILLE, EAST OF DRY CREEK, SW OF COOPERSTOWN.						
Detailed Location:	MAPPED BY CNDDDB AS 4 POLYGONS TO ENCOMPASS DATA FROM MULTIPLE SOURCES.						
Ecological:	ON ACIDIC AMADOR LOAM SOIL IN NON-NATIVE GRASSLAND W/ BRIZA MINOR, CLARKIA PURPUREA, PLAGIOBOTHRYSP., ERODIUM BOTRYS, ERODIUM CICUTARIUM, LEPIDIUM NITIDUM, BROMUS RUBENS, B. MOLLIS, AGOSERIS HETEROPHYLLA, AND LASTHENIA FREMONTII.						
General:	5 COLONIES OBSERVED IN 1977. 196 PLANTS IN 3 POPULATIONS OBSERVED IN 1990. NOT OBSERVED IN 2010 BUT HABITAT REMAINS IN EXCELLENT CONDITION. RARE CLARKIA ROSTRATA FOUND NEARBY. THIS SITE INCLUDES FORMER OCCURRENCES 13 AND 14.						
Owner/Manager:	PVT						

Occurrence No.	5	Map Index:	13331	EO Index:	12604	Element Last Seen:	1975-03-09
Occ. Rank:	None	Presence:	Possibly Extirpated	Site Last Seen:		2010-XX-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Decreasing	Record Last Updated:		2011-04-15	
Quad Summary:	La Grange (3712064)						
County Summary:	Stanislaus						
Lat/Long:	37.69331 / -120.48984			Accuracy:	80 meters		
UTM:	Zone-10 N4174753 E721318			Elevation (ft):	320		
PLSS:	T03S, R13E, Sec. 12, NE (M)			Acres:	0.0		
Location:	2.5 MILES NORTHWEST OF LA GRANGE, BETWEEN COOPERSTOWN ROAD AND DRY CREEK.						
Detailed Location:	200 METERS SOUTH OF INTERSECTION WITH TRAIL TO DOMINICI CREEK. IN NW 1/4 OF THE NE 1/4 OF SECTION 12.						
Ecological:							
General:	51-100 PLANTS OBSERVED FROM AN AREA LESS THAN 100 SQ METERS IN 1975. NO PLANTS SEEN IN 1986, 1990, 1997, OR 2010. BY 1990 THIS AREA WAS ALTERED BY CONSTRUCTION RELATED TO HOUSING TRACTS ALONG COOPERSTOWN ROAD AND ALONG THE TRAIL.						
Owner/Manager:	PVT						



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Occurrence No.	6	Map Index:	13329	EO Index:	12152	Element Last Seen:	2010-04-08
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		2010-04-08	
Occ. Type:	Natural/Native occurrence	Trend:	Stable	Record Last Updated:		2011-04-15	

Quad Summary: La Grange (3712064)

County Summary: Stanislaus

Lat/Long:	37.66983 / -120.49207	Accuracy:	specific area
UTM:	Zone-10 N4172142 E721190	Elevation (ft):	300
PLSS:	T03S, R13E, Sec. 13, SW (M)	Acres:	3.0

Location: 0.5 MI NNE OF JUNCTION BETWEEN UPPER MAIN CANAL AND MODESTO MAIN CANAL, WEST OF LA GRANGE.

Detailed Location: MAPPED AS 9 POLYGONS ALONG WESTERN TRIBUTARY OF UPPER DOMINICI CREEK IN THE EAST HALF OF THE SW 1/4 OF SECTION 13.

Ecological: AMADOR LOAM. W & N-FACING ON TOP OF ROCKY, THIN-SOIL KNOLL IN THE NORTH; N, W, AND E-FACING SLOPES IN ANNUAL GRASSLAND ON SMALL HILL; ALONG CANYON, BANKS AND TERRACES OF CREEK; SCATTERED VALLEY OAK RIPARIAN WOODLAND AT S END OF OCCURRENCE.

General: OBSERVED BY ALLEN IN 1969, 46 PLANTS SEEN IN 1990. APPROXIMATELY 10,580 IN 2006. THOUSANDS OF PLANTS OBSERVED IN 2010 IN THE CENTRAL PORTION OF OCCURRENCE. TOTAL ACREAGE OF OCCURRENCES #6 AND #7 IS 4.85 ACRES.

Owner/Manager: PVT

Occurrence No.	7	Map Index:	13325	EO Index:	20008	Element Last Seen:	2010-04-08
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		2010-04-08	
Occ. Type:	Natural/Native occurrence	Trend:	Stable	Record Last Updated:		2011-04-15	

Quad Summary: La Grange (3712064)

County Summary: Stanislaus

Lat/Long:	37.67921 / -120.49257	Accuracy:	specific area
UTM:	Zone-10 N4173183 E721118	Elevation (ft):	300
PLSS:	T03S, R13E, Sec. 13, NW (M)	Acres:	3.0

Location: APPROXIMATELY 1.2 MILES NORTH OF JUNCTION OF UPPER MAIN CANAL AND MODESTO MAIN CANAL, 2 MILES WNW OF LA GRANGE.

Detailed Location: HEADWATERS OF FORK OF UPPER DOMINICI CREEK, EAST SIDE OF CREEK. LOCATED WITHIN THE NE 1/4 OF THE NW 1/4 OF SECTION 13.

Ecological: MOSTLY ON 5-10% NORTHERN SLOPES ALTHOUGH SOME PLANTS OCCURRED ON WESTERN SLOPES AND CLIFF FACES. ON AMADOR LOAM, THE POPULATIONS WERE ASSOCIATED WITH VULPIA MICROSTACHYS, MICROPUS CALIFORNICUS, HESPEREVAX SPARSIFLORA, CLAYTONIA, ETC.

General: OBSERVED IN 1969, 120 PLANTS OBSERVED IN 1990. APPROXIMATELY 3500 PLANTS OBSERVED IN 2006. TENS OF THOUSANDS OF PLANTS OBSERVED IN 2010.

Owner/Manager: PVT



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Occurrence No.	8	Map Index: 22194	EO Index: 17596	Element Last Seen: 1990-04-11
Occ. Rank:	Poor		Presence: Presumed Extant	Site Last Seen: 2010-04-08
Occ. Type:	Natural/Native occurrence		Trend: Decreasing	Record Last Updated: 2011-04-25

Quad Summary: Snelling (3712054)

County Summary: Stanislaus

Lat/Long:	37.61410 / -120.45852	Accuracy:	80 meters
UTM:	Zone-10 N4166037 E724318	Elevation (ft):	350
PLSS:	T04S, R14E, Sec. 05, SW (M)	Acres:	0.0

Location: APPROXIMATELY 0.6 AIR MILE NNW OF THE JUNCTION OF THE MERCED COUNTY LINE AND HWY J59, SOUTH OF DAWSON LAKE.

Detailed Location: MAPPED IN THE NW 1/4 OF THE SW 1/4 OF SECTION 5.

Ecological: ON N-FACING KNOLLS IN LOW ROLLING HILLS IN VALLEY GRASSLAND, IN PENTZ LOAM SOIL. ASSOCIATED WITH BROMUS MOLLIS, B. RUBENS, LEPIDIUM NITIDIM, LASTHENIA SP., AND ERODIUM CICUTARIUM.

General: SMALL COLONY OBSERVED IN 1962. 50 PLANTS IN 1986, 60 IN 1990. NONE FOUND BY B. BALDWIN IN 1997. NONE FOUND IN 2010; VERY MARGINAL HABITAT AT SITE, POSSIBLY BETTER QUALITY HABITAT TO THE NORTH.

Owner/Manager: PVT

Occurrence No.	15	Map Index: 13222	EO Index: 7974	Element Last Seen: 2010-04-09
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 2010-04-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2011-04-15

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.71863 / -120.55653	Accuracy:	specific area
UTM:	Zone-10 N4177407 E715363	Elevation (ft):	300
PLSS:	T02S, R13E, Sec. 32 (M)	Acres:	31.0

Location: WEST OF DRY CREEK, FROM 1.3 AIR MILES SSW TO 2 AIR MILES SOUTH OF COOPERSTOWN.

Detailed Location: MAPPED AS 11 POLYGONS TO ENCOMPASS MULTIPLE SOURCES OF INFORMATION.

Ecological: GROWING ON ACIDIC AMADOR LOAM SOILS IN NON-NATIVE GRASSLAND. ASSOCIATED WITH MICROPUS CALIFORNICUS, BROMUS MOLLIS, B. RUBENS, LUPINUS BICOLOR, PLAGIOBOTHRYUS TENELLUS, ERODIUM CICUTARIUM, E. BOTRYIS, LASTHENIA FREMONTII, AND TRITELEIA SP.

General: FEWER THAN 100 PLANTS SEEN IN PORTIONS OF OCCURRENCE IN 1977, 280 PLANTS SEEN IN 1990. THOUSANDS OF PLANTS OBSERVED IN 4 SUBPOPULATIONS IN 2010. INCLUDES FORMER OCCURRENCES 16, 19, AND 20.

Owner/Manager: PVT



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Occurrence No.	17	Map Index:	13240	EO Index:	7975	Element Last Seen:	1990-04-12
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:			2010-04-09
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:			2011-04-15

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.73438 / -120.55417	Accuracy:	specific area
UTM:	Zone-10 N4179161 E715525	Elevation (ft):	250
PLSS:	T02S, R13E, Sec. 28 (M)	Acres:	25.0

Location: APPROXIMATELY 0.5 TO 1.5 AIR MILES WSW OF COOPERSTOWN.

Detailed Location: MAPPED BY CNDDDB AS 4 POLYGONS BASED ON 1977 MAPS AND 1991 STEBBINS MAPS IN THE NW 1/4 OF SECTION 28 AND THE SE 1/4 OF SECTION 29. OFTEN OCCURS WITH LASTHENIA CHRYSOSTOMA; THE TWO ARE DIFFICULT TO SEPARATE.

Ecological: GROWING ON ACIDIC AMADOR LOAMS IN NON-NATIVE GRASSLAND. ASSOCIATED WITH MICROPUS CALIFORNICUS, LASTHENIA FREMONTII, MICROSTERIS GRACILIS, CALANDRINIA CILIATA, LEPIDIUM NITIDUM, ERODIUM CICUTARIUM, AND PLAGIOBOTHRYUS SCRIPTUS.

General: OBSERVED IN 2 SUBPOPULATIONS IN 1977. 16 PLANTS IN 1990 IN SEC 29. LARGE POPULATION IN SEC 28; OVER 15,000 PLANTS SEEN WITHIN 5 ACRE SITE IN 1990. NOT OBSERVED IN SEC 29 IN 2010 BUT EXCELLENT HABITAT WAS PRESENT. INCLUDES FORMER EO #18.

Owner/Manager: PVT

Occurrence No.	27	Map Index:	22193	EO Index:	7973	Element Last Seen:	2010-04-09
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:			2010-04-09
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:			2011-04-25

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.71999 / -120.56567	Accuracy:	specific area
UTM:	Zone-10 N4177537 E714554	Elevation (ft):	260
PLSS:	T02S, R13E, Sec. 32, NW (M)	Acres:	8.0

Location: APPROXIMATELY 1.2 AIR MILES SOUTH OF JUNCTION OF COOPERSTOWN ROAD AND NORTH FORK DRY CREEK, 2 MILES SE OF WARNERVILLE.

Detailed Location: MAPPED BY CNDDDB TO ENCOMPASS A 1977 ALLEN MAP AND 2010 VOLLMAR CONSULTING DATA.

Ecological: NORTH-FACING SLOPE ON AMADOR LOAM SOILS. ASSOCIATED WITH ERODIUM BOTRYS, HYPOCHAERIS GLABRA, AND TRIFOLIUM WILDENOVII.

General: SMALL POPULATION NOTED BY ALLEN IN 1977 DURING SURVEYS FOR PROPOSED NUCLEAR POWER PLANT SITE. APPROXIMATELY 200 PLANTS OBSERVED IN 2010.

Owner/Manager: PVT



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Occurrence No.	28	Map Index: 22191	EO Index: 7976	Element Last Seen:	1990-04-13
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-04-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-04-25

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.74030 / -120.57273	Accuracy:	80 meters
UTM:	Zone-10 N4179775 E713873	Elevation (ft):	250
PLSS:	T02S, R13E, Sec. 20, SW (M)	Acres:	0.0

Location: 1.5 MILES WEST OF COOPERSTOWN, 0.3 MILE NORTH OF COOPERSTOWN ROAD.

Detailed Location: GROWING ON BLUFFS IMMEDIATELY WEST OF NORTH FORK OF DRY CREEK. EXTREME SW CORNER OF SECTION 20.

Ecological: NORTH-FACING BLUFFS. ACIDIC AMADOR LOAM SOILS IN NON-NATIVE GRASSLAND. ASSOCIATED WITH BROMUS RUBENS, MICROPUS CALIFORNICUS, AND ERODIUM BOTRYS.

General: 26 PLANTS SEEN IN 1990. POPULATION MAY BE MORE EXTENSIVE DURING FAVORABLE YEARS. NO PLANTS OBSERVED IN 2010 THOUGH SUITABLE HABITAT WSS PRESENT.

Owner/Manager: PVT

Occurrence No.	29	Map Index: 44070	EO Index: 44070	Element Last Seen:	2010-04-07
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-04-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-04-15

Quad Summary: Merced Falls (3712053), Snelling (3712054)

County Summary: Merced

Lat/Long:	37.54540 / -120.37489	Accuracy:	specific area
UTM:	Zone-10 N4158617 E731913	Elevation (ft):	390
PLSS:	T04S, R14E, Sec. 36, NE (M)	Acres:	10.0

Location: NORTH OF MERCED RIVER, ABOUT 0.9 MILE EAST OF KELSEY RESERVOIR SPILLWAY, WNW OF MERCED FALLS AND EAST OF SNELLING.

Detailed Location: TWO COLONIES MAPPED WITHIN THE EAST HALF OF THE NE 1/4 OF SECTION 36.

Ecological: ANNUAL GRASSLAND ON NNE-FACING SLOPE (15-20%) OF SMALL, CLOSELY SPACED MIMA MOUNDS. NEARBY OUTCROPS OF SANDSTONE & VOLCANIC TUFF. SOILS ARE AMADOR/HORNITOS SERIES. PLANTS ARE FOUND ON UPPER PORTION OF MOUNDS.

General: 65 PLANTS OBSERVED IN 2 COLONIES IN 2000. ABOUT 25 PLANTS OBSERVED IN 2001. ONLY 4 PLANTS OBSERVED IN 2 COLONIES IN 2010.

Owner/Manager: PVT



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Occurrence No.	30	Map Index: 50401	EO Index: 50401	Element Last Seen:	2010-04-07
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-04-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-04-15
Quad Summary:	Snelling (3712054)				
County Summary:	Merced				
Lat/Long:	37.56276 / -120.38422		Accuracy:	specific area	
UTM:	Zone-10 N4160521 E731035		Elevation (ft):	325	
PLSS:	T04S, R14E, Sec. 25, NW (M)		Acres:	5.0	
Location:	SOUTH OF THE SOUTH FORK OF DRY CREEK, ABOUT 0.5 MILE SSE OF FIELDS ROAD CROSSING, 4.2 AIR MILES NORTHEAST OF SNELLING.				
Detailed Location:	MAPPED BY CNDDDB AS 2 POLYGONS WITHIN THE NORTH HALF OF THE NW 1/4 OF SECTION 25.				
Ecological:	SITE LOCATED PRIMARILY ON N-FACING SLOPES ON HORNITOS FINE SANDY LOAM AND SANDSTONE ROCK LAND SOILS. SOME ASSOCIATED SPECIES INCLUDE ERODIUM BOTRYS, ANAGALLIS ARVENSIS, MICROPUS CALIFORNICUS, AVENA BARBATA, HYPOCHAERIS GLABRA, GALIUM, ETC.				
General:	UNKNOWN NUMBER OF PLANTS OBSERVED IN 2001 AND 2002. APPROXIMATELY 700 PLANTS OBSERVED IN 2010.				
Owner/Manager:	PVT-RICHARDS RANCH				
Occurrence No.	31	Map Index: 50403	EO Index: 50403	Element Last Seen:	2001-04-16
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-04-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-04-14
Quad Summary:	Snelling (3712054)				
County Summary:	Merced				
Lat/Long:	37.56341 / -120.39539		Accuracy:	specific area	
UTM:	Zone-10 N4160565 E730047		Elevation (ft):	350	
PLSS:	T04S, R14E, Sec. 26, NE (M)		Acres:	0.6	
Location:	ALONG UNNAMED TRIBUTARY TO SOUTH FORK DRY CREEK, SOUTH OF FIELDS ROAD, APPROXIMATELY 3.8 MILES NORTHEAST OF SNELLING.				
Detailed Location:	MAPPED WITHIN THE NW 1/4 OF THE NE 1/4 OF SECTION 26.				
Ecological:	ANNUAL GRASSLAND ON ROCK OUTCROP SOUTH OF SEASONAL DRAINAGE, MID SLOPE. VALLEY SPRINGS FORMATION ALTHOUGH MAPPED AS IONE ON MARCHLAND MAPS. ASSOCIATES: BROMUS HORDEACEUS, ERODIUM BOTRYS, HYPOCHAERIS GLABRA, TRITELEIA HYACINTHINA, ET AL.				
General:	UNKNOWN NUMBER OF PLANTS SEEN IN 2001 AND 2002. OCCURRENCE NOT OBSERVED IN 2010; HABITAT IS ATYPICAL OF THE SPECIES (VERY COBBLY WITH ATYPICAL PLANT ASSOCIATES), POSSIBLY MIS-MAPPED ACCORDING TO VOLLMAR CONSULTING, 2010.				
Owner/Manager:	PVT-RICHARDS RANCH				



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Occurrence No.	32	Map Index: 50404	EO Index: 50404	Element Last Seen:	2010-04-07
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-04-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-04-15

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.55570 / -120.38871	Accuracy:	specific area
UTM:	Zone-10 N4159726 E730661	Elevation (ft):	360
PLSS:	T04S, R14E, Sec. 25, SW (M)	Acres:	2.0

Location: 1 MILE SSE OF FIELDS ROAD AT THE SOUTH FORK DRY CREEK, APPROX 3.3 MILES NE OF SNELLING AND 1.8 MILES NW OF KELSEY RANCH.

Detailed Location: MAPPED BY CNDDDB AS TWO POLYGONS WITHIN THE SW 1/4 OF SECTION 25.

Ecological: ANNUAL GRASSLAND DOMINATED BY NON-NATIVE ANNUAL GRASSES. PLANTS GROWING ON UPPER THIRD OF SLOPES OF NORTH AND WEST-FACING ASPECTS. AMADOR LOAM SOIL. ASSOCIATES INCLUDE ERODIUM BOTRYS, HYPOCHAERIS GLABRA, PLANTAGO ERECTA, BROMUS, ETC.

General: SE POLYGON: FEWER THAN 25 PLANTS OBSERVED IN 2001, NONE SEEN IN 2010. NW POLYGON: APPROXIMATELY 100 PLANTS OBSERVED IN 2010.

Owner/Manager: PVT-KELSEY RANCH

Occurrence No.	33	Map Index: 50419	EO Index: 50419	Element Last Seen:	2010-04-07
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-04-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-04-15

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.55093 / -120.38132	Accuracy:	specific area
UTM:	Zone-10 N4159215 E731328	Elevation (ft):	360
PLSS:	T04S, R14E, Sec. 25, S (M)	Acres:	4.0

Location: 1.3 MILES SSE OF FIELDS ROAD AT THE SOUTH FORK DRY CREEK, APPROXIMATELY 3.8 AIR MILES NE OF SNELLING.

Detailed Location: IN THE CENTRAL SOUTHERN PORTION OF SECTION 25 AND THE NE 1/4 OF THE NW 1/4 OF SECTION 36.

Ecological: ANNUAL GRASSLAND DOMINATED BY NON-NATIVE ANNUAL GRASSES. PLANTS GROWING ON UPPER THIRD OF SLOPES OF NORTH AND WEST-FACING ASPECTS. ASSOCIATES INCLUDE ERODIUM BOTRYS, HYPOCHAERIS GLABRA, PLANTAGO ERECTA, TRIPHYSARIA ERIANTHA, VULPIA, ETC.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2001. APPROXIMATELY 350 PLANTS OBSERVED IN 2010.

Owner/Manager: PVT-KELSEY RANCH



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Occurrence No.	39	Map Index: 82365	EO Index: 83288	Element Last Seen:	2010-04-21
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-04-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-04-25

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.58363 / -120.42688	Accuracy:	specific area
UTM:	Zone-10 N4162733 E727203	Elevation (ft):	300
PLSS:	T04S, R14E, Sec. 16, SE (M)	Acres:	1.0

Location: APPROXIMATELY 1.3 AIR MILES NORTH OF THE JUNCTION OF FIELDS ROAD AND LA GRANGE ROAD, ALONG A TRIBUTARY OF DRY CREEK.

Detailed Location: IN THE EAST HALF OF THE SE 1/4 OF SECTION 16.

Ecological: NORTH-FACING SLOPE ON CORNING GRAVELLY LOAM SOILS.

General: APPROXIMATELY 30 PLANTS OBSERVED IN 2010.

Owner/Manager: PVT

Occurrence No.	40	Map Index: 82366	EO Index: 83289	Element Last Seen:	2010-04-21
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-04-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-04-25

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.59222 / -120.42518	Accuracy:	specific area
UTM:	Zone-10 N4163690 E727327	Elevation (ft):	300
PLSS:	T04S, R14E, Sec. 15, NW (M)	Acres:	2.0

Location: APPROXIMATELY 2 AIR MILES NORTH OF THE JUNCTION OF FIELDS ROAD AND LA GRANGE ROAD, ALONG A TRIBUTARY OF DRY CREEK.

Detailed Location: MAPPED BY CNDDDB AS 3 POLYGONS BASED ON 2010 VOLLMAR CONSULTING DATA. IN THE WEST HALF OF THE NW 1/4 OF SECTION 15 AND THE SW 1/4 OF THE SW 1/4 OF SECTION 10.

Ecological: CLIFF TOP AND ALONG SMALL EPHEMERAL CREEK. ON REDDING GRAVELLY LOAM SOILS AND PENTZ LOAM SOILS. NORTH, WEST, AND NE-FACING SLOPES. SOME ASSOCIATED SPECIES INCLUDE PLANTAGO ERECTA, BROMUS MADRITENSIS, ERODIUM BOTRYS, AND MIMULUS FLORIBUNDUS.

General: IN 2010, NORTHERNMOST POLYGON HAD APPROXIMATELY 75 PLANTS, MIDDLE POLYGON HAD APPROXIMATELY 30 PLANTS, AND SOUTHERNMOST POLYGON HAD APPROXIMATELY 200 PLANTS.

Owner/Manager: PVT



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Occurrence No.	41	Map Index: 82367	EO Index: 83290	Element Last Seen:	2010-04-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-04-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-04-25
Quad Summary:	Snelling (3712054)				
County Summary:	Stanislaus				
Lat/Long:	37.61596 / -120.44394		Accuracy:	specific area	
UTM:	Zone-10 N4166280 E725599		Elevation (ft):	350	
PLSS:	T04S, R14E, Sec. 04, SW (M)		Acres:	2.0	
Location:	APPROXIMATELY 0.5 AIR MILE ENE OF THE JUNCTION OF LA GRANGE RD (CO ROAD J-59) AND THE STANISLAUS / MERCED COUNTY LINE.				
Detailed Location:	MAPPED BY CNDDDB AS 3 POLYGONS ACCORDING TO 2010 VOLLMAR CONSULTING DATA. NEAR THE MIDDLE OF THE SECTION LINE BETWEEN SECTIONS 4 AND 5.				
Ecological:	NORTH-FACING SLOPE ON HORNITOS GRAVELLY FINE SANDY LOAM SOILS. SOME ASSOCIATED SPECIES INCLUDE AIRA CARYOPHYLLEA, BROMUS DIANDRUS, HYPOCHAERIS GLABRA, ERODIUM BOTRYS, DICHELOSTEMMA CAPITATUM, VULPIA MICROSTACHYS, BRIZA MINOR, ETC.				
General:	IN 2010, NORTHERNMOST POLYGON HAD APPROXIMATELY 100 PLANTS, WESTERNMOST POLYGON HAD APPROXIMATELY 50 PLANTS, AND EASTERNMOST POLYGON HAD APPROXIMATELY 80 PLANTS.				
Owner/Manager:	PVT				

<i>Senecio clelandii</i> var. <i>heterophyllus</i>			Element Code: PDAST8H0R2		
Red Hills ragwort					
Listing Status:	Federal: None		CNDDDB Element Ranks:	Global: G4?T2Q	
	State: None			State: S2	
	Other: Rare Plant Rank - 1B,2, BLM_S-Sensitive				
Habitat:	General: CISMONTANE WOODLAND.				
	Micro: DRYING SERPENTINE SOILS; OFTEN ALONG STREAMS. 260-385 M.				

Occurrence No.	1	Map Index: 30884	EO Index: 3867	Element Last Seen:	1982-05-20
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1982-05-20
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2010-06-17
Quad Summary:	Chinese Camp (3712074)				
County Summary:	Tuolumne				
Lat/Long:	37.86236 / -120.45190		Accuracy:	specific area	
UTM:	Zone-10 N4193604 E724151		Elevation (ft):	1100	
PLSS:	T01S, R14E, Sec. 08, NE (M)		Acres:	2.0	
Location:	NORTHWEST OF SIMS ROAD/RED HILLS ROAD JUNCTION, ABOUT 1 MILE SOUTHWEST OF CHINESE CAMP, RED HILLS.				
Detailed Location:	ALONG NARROW MEADOWS OF THE STREAM COURSE JUST NORTHWEST OF THE JUNCTION. MAPPED IN THE SE 1/4 OF THE NE 1/4 OF SECTION 8 ACCORDING TO A 1982 MAP BY ROGERS.				
Ecological:	MEADOWS ALONG THE STREAM AND SPRINGS. SALIX AND RHAMNUS NEARBY.				
General:	214 PLANTS OBSERVED IN 1982, PLANTS APPEARED VIGOROUS.				
Owner/Manager:	PVT				



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Occurrence No.	2	Map Index: 30885	EO Index: 3865	Element Last Seen:	2006-06-13
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2006-06-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2010-06-17
Quad Summary:	Chinese Camp (3712074)				
County Summary:	Tuolumne				
Lat/Long:	37.85731 / -120.45547		Accuracy:	specific area	
UTM:	Zone-10 N4193035 E723852		Elevation (ft):	1100	
PLSS:	T01S, R14E, Sec. 08, S (M)		Acres:	15.0	
Location:	ALONG TRIBUTARY TO SIX-BIT GULCH, 0.5 TO 1.1 AIR MI WEST OF TAYLOR HILL AND ADJACENT TO RED HILLS ROAD, RED HILLS.				
Detailed Location:	4 COLONIES MAPPED BY CNDDDB AS 3 POLYGONS IN THE S 1/2 OF SECTION 8 ACCORDING TO A 1981 CHAMBERLAIN MAP AND A 1981 NACHLINGER MAP.				
Ecological:	SCATTERED ALONG STREAMCOURSE IN MOIST AND DRY SITES ON SERPENTINE ALLUVIUM. ASSOC W/ RHAMNUS CALIFORNICA, HELIANTHUS BOLANDERI, VERBENA CALIFORNICA, HORDEUM CALIFORNICUM, TRICHOSTEMA RUBISEPALUM, ET AL. IN FOOTHILL PINE WOODLAND COMMUNITY.				
General:	1981: 146 PLANTS OBSERVED IN WESTERN POLYGON, ~150 IN CENTER POLYGON, AND UNKNOWN # OBSERVED IN EASTERN POLYGON. 100S OF HEALTHY LOOKING PLANTS SEEN IN 2006. 1938 HOOVER COLLECTION FROM "1.5 MILES SW OF CHINESE CAMP" ATTRIBUTED HERE.				
Owner/Manager:	BLM				
Occurrence No.	3	Map Index: 79107	EO Index: 3864	Element Last Seen:	2006-06-13
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2006-06-13
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2010-06-17
Quad Summary:	Chinese Camp (3712074)				
County Summary:	Tuolumne				
Lat/Long:	37.84947 / -120.46192		Accuracy:	specific area	
UTM:	Zone-10 N4192150 E723309		Elevation (ft):	1100	
PLSS:	T01S, R14E, Sec. 17, N (M)		Acres:	10.0	
Location:	ALONG TRIBUTARY TO SIX-BIT GULCH ABOUT 1.5 AIR MILES NNE OF CRIMEA HOUSE, RED HILLS.				
Detailed Location:	3 WESTERN COLONIES ALONG DIRT ROAD WHICH BEGINS ABOUT 1 MILE SW OF JUNCTION WITH SIMS ROAD; PLANTS ARE 0.5-0.6 MILES UP THE DIRT ROAD. EASTERN COLONY ON PRIVATE LAND JUST SOUTH OF RED HILLS ROAD ALONG STREAM; PLANTS VISIBLE FROM THE ROAD.				
Ecological:	MOIST/SHADY AREAS ALONG STREAMBED ON SERPENTINE ALLUVIUM WITHIN PINUS SABINIANA WOODLAND. ASSOCIATED WITH VERBENA CALIFORNICA, MIMULUS FLORIBUNDUS, RHAMNUS CALIFORNICA, HORKELIA ELATA, JUNCUS, TRICHOSTEMA, CAREX, PANICUM, AGROSTIS, ETC.				
General:	1981: 55 PLANTS OBSERVED IN WESTERNMOST COLONY, 30 IN 2ND WESTERNMOST COLONY, AND UNKNOWN # OBSERVED IN CENTRAL COLONY. UNKNOWN NUMBER OF PLANTS OBSERVED IN EASTERN COLONY IN 2006. INCLUDES FORMER OCCURRENCE #4.				
Owner/Manager:	BLM, PVT				



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Occurrence No.	5	Map Index: 13472	EO Index: 3861	Element Last Seen: 1981-07-16
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen: 1981-07-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1995-03-22

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84440 / -120.43443	Accuracy:	80 meters
UTM:	Zone-10 N4191653 E725743	Elevation (ft):	1050
PLSS:	T01S, R14E, Sec. 16, SE (M)	Acres:	0.0

Location: ALONG TRIBUTARY TO MINNOW GULCH ABOUT 1.8 MILES SOUTH OF CHINESE CAMP, RED HILLS.

Detailed Location: ABOUT 0.4 MILE UPSTREAM FROM MINNOW GULCH ALONG STREAM THAT DRAINS THE SOUTHEAST SIDE OF TAYLOR HILL. MAPPED WITHIN THE NE 1/4 OF THE SE 1/4 OF SECTION 16.

Ecological: NEAR PONDS ALONG THE STREAM WITHIN PINUS SABINIANA WOODLAND. RHAMNUS CALIFORNICA, VERBENA CALIFORNICA, HORDEUM CALIFORNICUM, TRICHOSTEMA RUBISEPALUM, MIMULUS FLORIBUNDUS, AGROSTIS EXARATA, AND CAREX. SUBSTRATE IS SERPENTINE ALLUVIUM.

General: 40 PLANTS OBSERVED IN 1981.

Owner/Manager: BLM

Occurrence No.	6	Map Index: 30886	EO Index: 3859	Element Last Seen: 1981-07-17
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1981-07-17
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1995-03-22

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.83082 / -120.42024	Accuracy:	80 meters
UTM:	Zone-10 N4190180 E727034	Elevation (ft):	850
PLSS:	T01S, R14E, Sec. 22, SE (M)	Acres:	0.0

Location: SIX-BIT GULCH ABOUT 0.7 MILE SSW OF HUNGRY HILL, SOUTH OF CHINESE CAMP, RED HILLS.

Detailed Location: MAPPED JUST UPSTREAM FROM WHERE DIRT ROAD CROSSES GULCH. WITHIN THE NW 1/4 OF THE SE 1/4 OF SECTION 22.

Ecological: SCATTERED BETWEEN WILLOWS ALONG STREAM AND DRY ROADSIDE ON SERPENTINE ALLUVIUM. ASSOCIATED WITH SALIX, CALYCANTHUS, CYNODON, HELIANTHUS BOLANDERI, LOTUS PURSHIANUS, TRICHOSTEMA, AND LAGOPHYLLA GLANDULOSA. WITHIN PINUS SABINIANA WOODLAND.

General: 15 PLANTS OBSERVED IN 1981.

Owner/Manager: BLM



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Occurrence No.	7	Map Index:	30888	EO Index:	3857	Element Last Seen:	1981-07-16
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		Record Last Updated:	1995-03-22
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81757 / -120.44557	Accuracy:	80 meters
UTM:	Zone-10 N4188648 E724845	Elevation (ft):	1170
PLSS:	T01S, R14E, Sec. 28, SW (M)	Acres:	0.0

Location: ALONG TRIBUTARY TO BIG CREEK NORTH OF OLD DON PEDRO ROAD, ABOUT 2 AIR MILES SOUTHEAST OF CRIMEA HOUSE, RED HILLS.

Detailed Location: STREAM IS LOCATED ABOUT 2 MILES EAST OF LA GRANGE ROAD; PLANTS ARE ABOUT 0.5 MILE NORTH OF OLD DON PEDRO ROAD. WITHIN THE NW 1/4 OF THE SW 1/4 OF SECTION 28.

Ecological: ALONG STREAM ON SERPENTINE ALLUVIUM, WITHIN PINUS SABINIANA WOODLAND. ASSOCIATED WITH RHAMNUS CALIFORNICA, VERBENA CALIFORNICA, MIMULUS FLORIBUNDUS, CAREX SERRATODENS, AND CASTILLEJA.

General: 30 PLANTS OBSERVED IN AN AREA OF 50' X 20' IN 1981.

Owner/Manager: PVT

Occurrence No.	8	Map Index:	30887	EO Index:	3858	Element Last Seen:	1981-07-15
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		Record Last Updated:	1995-03-22
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81609 / -120.42849	Accuracy:	specific area
UTM:	Zone-10 N4188525 E726353	Elevation (ft):	1250
PLSS:	T01S, R14E, Sec. 02, SW (M)	Acres:	72.3

Location: UPPER REACHES OF TRIBUTARY TO DON PEDRO RES., NORTH OF OLD DON PEDRO ROAD AND ABOUT 3 MI ESE OF CRIMEA HOUSE, RED HILLS.

Detailed Location: MAPPED FROM WHERE THE STREAM FORKS NORTH ABOUT 0.5 MILE UP EACH BRANCH. STREAM IS LOCATED BETWEEN SIX-BIT GULCH AND BIG CREEK. WITHIN THE E 1/2 OF THE SE 1/4 OF SECTION 28 AND THE WEST HALF OF THE SW 1/4 OF SECTION 27.

Ecological: SCATTERED ALONG STREAM BED ON SERPENTINE ALLUVIUM WITHIN PINUS SABINIANA WOODLAND. ASSOCIATED WITH VERBENA CALIFORNICA, CEANOTHUS CUNEATUS, RHAMNUS CALIFORNICA, HORDEUM CALIFORNICUM, CAREX SERRATODENS, PANICUM PACIFICUM, AGROSTIS, MIMULUS.

General: 120 PLANTS OBSERVED IN 5 OF THE 6 COLONIES IN 1981.

Owner/Manager: BLM



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Occurrence No.	9	Map Index: 56110	EO Index: 56126	Element Last Seen:	2000-06-01
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2000-06-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2004-07-16

Quad Summary: Chinese Camp (3712074)
County Summary: Tuolumne

Lat/Long:	37.81528 / -120.38675	Accuracy:	specific area
UTM:	Zone-10 N4188538 E730030	Elevation (ft):	1180
PLSS:	T01S, R14E, Sec. 25, SW (M)	Acres:	5.8

Location: E OF DON PEDRO RESERVOIR, SW OF HWY 49/120, N OF HETCH HETCHY AQUEDUCT.
Detailed Location: ACCESS FROM MARSH'S FLAT RD (OFF HWY 49 SO OF MOCCASIN); THEN TAKE RD W THAT RUNS BETW/MOCCASIN PK AND DOMINGO PK, THEN NE ON RD IN SW1/4 SEC 32 TO SEC 30. THEN CLIMB RIDGE TO THE WEST (PEAK 1929') AND DRAINAGE IS ON OTHER SIDE.
Ecological: RIPARIAN ZONE WITH CALYCANTHUS OCCIDENTALIS, RHAMNUS TOMENTELLA AS DOMINANT SHRUBS. SURR BY CHAPARRAL WITH CEANOTHUS CUNEATUS AND PINUS SABINIANA. DUNITE AND/OR SERPENTINE; MUCH EXPOSED BEDROCK. DELPIEDRA SOIL SERIES. OPEN AREA, 40% SLOPE.
General: MORE THAN 200 PLANTS IN 2000; OCCURRENCE EXTENDS ABOUT 500 FT.
Owner/Manager: BLM

Occurrence No.	10	Map Index: 56111	EO Index: 56127	Element Last Seen:	2000-05-31
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2000-05-31
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2004-07-16

Quad Summary: Moccasin (3712073)
County Summary: Tuolumne

Lat/Long:	37.80086 / -120.36558	Accuracy:	specific area
UTM:	Zone-10 N4186990 E731939	Elevation (ft):	1200
PLSS:	T01S, R15E, Sec. 31, S (M)	Acres:	10.6

Location: 2 DRAINAGES E OF DON PEDRO RESERVOIR, SW OF HWY 49/120, N OF THE HETCH HETCHY AQUEDUCT.
Detailed Location: ACCESS VIA MARSH'S FLAT RD; THEN TAKE RD W THAT RUNS BET/MOCCASIN PK AND DOMINGO PK. FOLLOW MOST TRAVELLED ROUTE, WHICH GOES BASICALLY EAST. STAY LOW; DON'T FOLLOW POWER LINE. AFTER AT LEAST 2 GATES, ROAD DROPS INTO DRAINAGE (IN SEC 31).
Ecological: RIPARIAN ZONE WITH CALYCANTHUS OCCIDENTALIS, RHAMNUS TOMENTELLA, SALIX, HOITA MACROSTACHYA. SURR VEG INCLUDES ADENOSTOMA, CEANOTHUS WITH PINUS SABINIANA, ETC. DUNITE AND/OR SERPENTINE; DELPIEDRA & HENNEKE SOILS. NEARLY LEVEL; S ASPECT.
General: MORE THAN 400 PLANTS IN 2000; OCCURRENCE AT LONGEST EXTENT IS ABOUT 0.6 MI; IN TWO STREAM REACHES AT THIS SITE.
Owner/Manager: BLM

Packera layneae		Element Code: PDAST8H1V0
Layne's ragwort		
Listing Status:	Federal: Threatened	CNDDDB Element Ranks: Global: G2
	State: Rare	State: S2
	Other: Rare Plant Rank - 1B.2, SB_RSABG-Rancho Santa Ana Botanic Garden	
Habitat:	General: CHAPARRAL, CISMONTANE WOODLAND.	
	Micro: ULTRAMAFIC SOIL (SERPENTINE OR GABBRO); OCCASIONALLY ALONG STREAMS. 200-1085 M.	



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Occurrence No.	24	Map Index: 13566	EO Index: 16858	Element Last Seen: 1984-05-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1984-05-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2001-02-20

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82653 / -120.39068	Accuracy:	specific area
UTM:	Zone-10 N4189776 E729649	Elevation (ft):	850
PLSS:	T01S, R14E, Sec. 25, NW (M)	Acres:	2.3

Location: WEST EDGE OF DON PEDRO RESERVOIR NEAR 1030 ELEVATION MARKER, 1.6 AIR MILES SOUTHEAST OF HUNGRY HILL, RED HILLS.

Detailed Location: MAPPED WITHIN THE SW 1/4 SW 1/4 OF SECTION 24 AND THE NW 1/4 NW 1/4 OF SECTION 25.

Ecological: IN ROCKY DISTURBED AREA NEAR ROAD ON SERPENTINE.

General: SMALL POPULATION. SITE IS WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	25	Map Index: 13529	EO Index: 16856	Element Last Seen: 1984-05-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1984-05-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2001-02-20

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82764 / -120.40953	Accuracy:	specific area
UTM:	Zone-10 N4189853 E727987	Elevation (ft):	1100
PLSS:	T01S, R14E, Sec. 23, SW (M)	Acres:	2.1

Location: WEST EDGE OF POOR MANS GULCH, 0.85 AIR MILE SSE OF HUNGRY HILL, EASTERN RED HILLS.

Detailed Location: MAPPED WITHIN THE SW 1/4 OF THE SW 1/4 OF SECTION 23.

Ecological: ON SERPENTINE IN ROCKY DISTURBED AREA NEAR ROAD.

General: SMALL POPULATION. SITE IS WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA



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Occurrence No.	26	Map Index:	13505	EO Index:	16855	Element Last Seen:	2000-07-19
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2000-07-19	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2001-02-20	

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82769 / -120.41854	Accuracy:	specific area
UTM:	Zone-10 N4189837 E727193	Elevation (ft):	1000
PLSS:	T01S, R14E, Sec. 22, SE (M)	Acres:	7.3

Location: NORTH FACING SLOPE OF SIX-BIT GULCH, 0.8 AIR MILE SSW OF HUNGRY HILL, EASTERN RED HILLS.

Detailed Location: 3 COLONIES ON NORTH FACING CANYON WALLS ON SOUTH SIDE OF SIX-BIT GULCH. ACCESS VIA MITIGATION ROAD OFF OF OLD DON PEDRO ROAD OFF OF STATE ROUTE J59. MITIGATION ROAD IS LOCKED; EITHER ACCESS SITE ON FOOT OR OBTAIN KEY FROM BLM.

Ecological: IN ROCKY DISTURBED AREA ON SERPENTINE. VEGETATION IS TYPICAL OF RED HILLS SERPENTINE WITH CEANOTHUS CUNEATUS DOMINANT. ASSOCIATES: PINUS SABINIANA, HETEROMELES ARBUTIFOLIA, ELYMUS MULTISETUS, MELICA CALIFORNICA, AND ERIOPHYLLUM LANATUM.

General: SMALL POP AT E COLONY IN 1984; ABOUT 150 PLANTS AT 2 W COLONIES IN 2000. SITE IS WITHIN RED HILLS AREA OF CRITICAL ENVIRONMENTAL CONCERN. A 1984 COLLECTION BY TAYLOR FROM "RED HILLS, DIRT RD INTO SIX BIT GULCH" ATTRIBUTED TO THIS SITE.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	40	Map Index:	13416	EO Index:	7997	Element Last Seen:	1987-05-16
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		1987-05-16	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		1998-04-24	

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85834 / -120.46096	Accuracy:	specific area
UTM:	Zone-10 N4193136 E723367	Elevation (ft):	1050
PLSS:	T01S, R14E, Sec. 08, S (M)	Acres:	27.2

Location: 2.5 KM (1.5 MI) SOUTHWEST OF CHINESE CAMP, ALONG DIRT ROAD 0.8-2 KM (0.5-1.2 MI) ENE OF TAYLOR HILL.

Detailed Location: ROAD ALONG STREAM COURSE WHICH LEADS TO OLD SIERRA RAILROAD.

Ecological: STREAMSIDE PLANT COMMUNITY ASSOCIATION ON RED SERPENTINE SOILS. ASSOCIATES INCLUDE CEANOTHUS CUNEATUS, PINUS SABINIANA, AND VERBENA CALIFORNICA.

General: 100+ PLANTS IN 1987. ACC TO FRANKLIN (1997), PLANTS HERE MAY ACTUALLY BE S. CLEVELANDII VAR. HETEROPHYLLUS BASED ON PLANTS HE'S SEEN IN THIS DRAINAGE & ASSOCIATES/HABITAT LISTED BY YORK & MEDIEROS IN 1987. MORE INFO NEEDED.

Owner/Manager: BLM



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Occurrence No.	45	Map Index: 44946	EO Index: 44946	Element Last Seen:	2000-06-16
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2000-06-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2001-02-16

Quad Summary: Moccasin (3712073)
County Summary: Tuolumne

Lat/Long:	37.81104 / -120.37401	Accuracy:	specific area
UTM:	Zone-10 N4188098 E731165	Elevation (ft):	1650
PLSS:	T01S, R15E, Sec. 31, NW (M)	Acres:	2.7

Location: 4 AIR MILES WEST OF MOCCASIN, 2.9 AIR MILES NORTHWEST OF SUMMIT OF DOMINGO PEAK, HILLS EAST OF DON PEDRO RESERVOIR.
Detailed Location: AT TOP OF RIDGE ACROSS THE RESERVOIR FROM THE CONFLUENCE OF THE TUOLUMNE RIVER WITH SIX-BIT AND POOR MANS GULCH. MAPPED WITHIN THE NW 1/4 NW 1/4 OF SECTION 31.
Ecological: ON N-FACING SLOPE ON RED HILLS SERPENTINE, WITH CEANOTHUS CUNEATUS DOMINANT. ASSOCIATES: PINUS SABINIANA, RHAMNUS ILICIFOLIA, HETEROMELES ARBUTIFOLIA, ADENOSTEMA FASCICULATUM, ARCTOSTAPHYLOS MANZANITA, ERIODICTYON CALIFORNICUM, ET AL.
General: IN 2000, OVER 300 ROSETTES OBSERVED. AREA WILL BE CONSIDERED FOR ADDITION TO THE AREA OF CRITICAL ENVIRONMENTAL CONCERN FOR THE RED HILLS.
Owner/Manager: BLM

Occurrence No.	46	Map Index: 44947	EO Index: 44947	Element Last Seen:	2000-06-16
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2000-06-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2001-02-20

Quad Summary: Chinese Camp (3712074)
County Summary: Tuolumne

Lat/Long:	37.81822 / -120.38448	Accuracy:	specific area
UTM:	Zone-10 N4188869 E730221	Elevation (ft):	1400
PLSS:	T01S, R14E, Sec. 25, SE (M)	Acres:	11.6

Location: HILLS JUST EAST OF DON PEDRO RESERVOIR, 1.7 MILES JUST SSW OF HWY 49 CROSSING OF RESERVOIR, SOUTHEAST OF CHINESE CAMP.
Detailed Location: PLANTS FOUND IN 5 PATCHES ON NORTH AND WEST FACING SLOPE OF HILL JUST ABOVE RESERVOIR. MAPPED MOSTLY WITHIN THE NE 1/4 SW 1/4 AND THE W 1/2 SE 1/4 OF SECTION 25.
Ecological: ON N & W-FACING SLOPES ON RED HILLS SERPENTINE, WITH CEANOTHUS CUNEATUS DOMINANT. ASSOCIATES: PINUS SABINIANA, RHAMNUS ILICIFOLIA, HETEROMELES ARBUTIFOLIA, ADENOSTEMA FASCICULATUM, ARCTOSTAPHYLOS MANZANITA, ERIODICTYON CALIFORNICUM, ET AL.
General: IN 2000, OVER 1200 ROSETTES OBSERVED IN 5 PATCHES. AREA WILL BE CONSIDERED FOR ADDITION TO THE AREA OF CRITICAL ENVIRONMENTAL CONCERN FOR THE RED HILLS. ONLY PUBLIC ACCESS IS BY BOAT.
Owner/Manager: BLM



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Cryptantha hooveri

Element Code: PDBOR0A190

Hoover's cryptantha

Listing Status:	Federal: None	CNDDB Element Ranks:	Global: GH
	State: None		State: SH
	Other: Rare Plant Rank - 1A		
Habitat:	General: VALLEY AND FOOTHILL GRASSLAND, INLAND DUNES.		
	Micro: IN COARSE SAND. 9-150 M.		

Occurrence No.	2	Map Index:	13254	EO Index:	57194	Element Last Seen:	1937-05-16
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1937-05-16	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2004-10-02	

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.64020 / -120.54659	Accuracy:	1 mile
UTM:	Zone-10 N4168727 E716467	Elevation (ft):	250
PLSS:	T03S, R13E, Sec. 28 (M)	Acres:	0.0

Location: GOBIN RANCH, ABOUT 13.0 MILES E OF WATERFORD.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB, IN THE VICINITY OF HWY 132 AT RUSHING ROAD.

Ecological:

General: UNABLE TO LOCATE GOBIN RANCH. UNKNOWN NUMBER OF PLANTS SEEN BY HOOVER IN 1936 AND 1937. NEEDS FIELDWORK.

Owner/Manager: PVT



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<i>Cryptantha mariposae</i>		Element Code: PDBOR0A1Q0	
Mariposa cryptantha			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G3
	State: None		State: S3
	Other: Rare Plant Rank - 1B.3, BLM_S-Sensitive		
Habitat:	General: CHAPARRAL.		
	Micro: ON SERPENTINE OUTCROPS. 200-650 M.		

Occurrence No.	3	Map Index: 58619	EO Index: 58655	Element Last Seen:	1969-04-07
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1969-04-07
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2004-12-14

Quad Summary: La Grange (3712064)
County Summary: Stanislaus

Lat/Long:	37.68102 / -120.48735	Accuracy:	nonspecific area
UTM:	Zone-10 N4173395 E721573	Elevation (ft):	300
PLSS:	T03S, R13E, Sec. 13 (M)	Acres:	61.8

Location: 2 AIR MILES NORTHWEST OF LA GRANGE, ALONG MIDDLE TRIBUTARY OF UPPER DOMINICI CREEK.
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB ALONG MIDDLE TRIBUTARY OF UPPER DOMINICI CREEK.
Ecological: ON OUTCROPPING OF RHYOLITIC TUFF, STRONGLY ACIDIC SOIL.
General: 1969 COLLECTION IS ONLY SOURCE; NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Occurrence No.	7	Map Index: 58633	EO Index: 58669	Element Last Seen:	198X-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1998-05-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2010-06-07

Quad Summary: Chinese Camp (3712074), Keystone (3712075)
County Summary: Tuolumne

Lat/Long:	37.84065 / -120.44737	Accuracy:	nonspecific area
UTM:	Zone-10 N4191206 E724616	Elevation (ft):	1100
PLSS:	T01S, R14E, Sec. 16 (M)	Acres:	10689.7

Location: RED HILLS.
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS THE AREA OF RED HILLS. NEARLY UNMAPPABLE; MAPPED AS BEST GUESS TO INCLUDE ENTIRE SET OF HILLS.
Ecological:
General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS AN UNDATED COLLECTION BY CLIFTON. TAYLOR RECORDED IT AS PRESENT DURING 1980 INVENTORY WORK, BUT WAS UNABLE TO RELOCATE IN 1998; CONCLUDES THAT POPULATIONS, IF PRESENT, ARE SMALL. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN



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<i>Cryptantha spithamea</i>		Element Code: PDBOR0A2M2	
Red Hills cryptantha			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G2
	State: None		State: S2
	Other: Rare Plant Rank - 1B.3		
Habitat:	General: CHAPARRAL, CISMONTANE WOODLAND.		
	Micro: SERPENTINITE, SOMETIMES STREAMBEDS, SOMETIMES OPENINGS. 275-460 M.		

Occurrence No.	2	Map Index: 95436	EO Index: 96555	Element Last Seen:	1941-04-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1941-04-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-03-11

Quad Summary: Moccasin (3712073)
County Summary: Tuolumne

Lat/Long:	37.80983 / -120.29959	Accuracy:	3/5 mile
UTM:	Zone-10 N4188152 E737721	Elevation (ft):	
PLSS:	T01S, R15E, Sec. 34 (M)	Acres:	0.0

Location: NEAR MOCCASIN CREEK POWERHOUSE.
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS IN THE VICINITY OF THE MOCCASIN CREEK POWERHOUSE BASED ON A 1938 HOOVER COLLECTION.
Ecological: DRY ROCKY SOIL IN AREA OF SERPENTINE.
General: OCCURRENCE BASED ON A 1938 HOOVER COLLECTION. 1941 EASTWOOD COLLECTION FROM "MOCCASIN CREEK CANYON" ATTRIBUTED HERE. SITE MAY BE LOCATED ON SERPENTINE SLOPES NORTHWEST OF POWERHOUSE ALONG MOCCASIN CREEK. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Occurrence No.	3	Map Index: 95437	EO Index: 96556	Element Last Seen:	1998-04-22
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1998-04-22
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2015-03-11

Quad Summary: Chinese Camp (3712074)
County Summary: Tuolumne

Lat/Long:	37.84434 / -120.44689	Accuracy:	1/5 mile
UTM:	Zone-10 N4191616 E724647	Elevation (ft):	1200
PLSS:	T01S, R14E, Sec. 16, SW (M)	Acres:	0.0

Location: ABOUT 3 AIR MILES SW OF CHINESE CAMP, RED HILLS.
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AROUND COORDINATES GIVEN BY TAYLOR IN A 2014 EMAIL INTERPRETING THE LOCATION OF HIS 1998 COLLECTION; ACCURACY OF COORDINATES IS UNCERTAIN.
Ecological: SERPENTINE CHAPARRAL WITH PINUS SABINIANA AND CEANOTHUS CUNEATUS.
General: SITE BASED ON A 1998 TAYLOR COLLECTION. 1938 HOOVER COLLECTION FROM "3 MILES SOUTH OF CHINESE CAMP" ATTRIBUTED HERE.
Owner/Manager: UNKNOWN

<i>Downingia pusilla</i>		Element Code: PDCAM060C0	
dwarf downingia			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: GU
	State: None		State: S2
	Other: Rare Plant Rank - 2B.2		
Habitat:	General: VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.		



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Micro: VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-445 M.

Occurrence No.	8	Map Index:	13199	EO Index:	28165	Element Last Seen:	1977-06-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	1977-06-XX	Record Last Updated:	2008-02-08
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				
Quad Summary:	Cooperstown (3712065)						
County Summary:	Stanislaus						
Lat/Long:	37.72589 / -120.57640			Accuracy:	specific area		
UTM:	Zone-10 N4178168 E713591			Elevation (ft):	240		
PLSS:	T02S, R13E, Sec. 30 (M)			Acres:	8.2		
Location:	1.35 AIR MILES ESE OF WARNERVILLE.						
Detailed Location:	SEVEN COLONIES LOCATED IN THE SE 1/4 OF THE SE 1/4 OF SECTION 30, THE NE 1/4 OF SECTION 31 AND THE SW 1/4 OF THE SW 1/4 OF SECTION 29.						
Ecological:	VALLEY GRASSLAND IN AMADOR SOIL. SCATTERED IN DEEPEST AREAS OF DRIED VERNAL POOLS. ASSOCIATED WITH GRATIOLA EBRACTEATA, LASTHENIA FREMONTII, PLAGIOBOTHRYUS STIPITATUS, AND OTHER TYPICAL VERNAL POOL ANNUALS.						
General:	IN 1977: 3 POPULATIONS WITH FEWER THAN 10 PLANTS EACH OBSERVED IN SECTION 30. SPARSE POPULATIONS WERE FOUND IN SECTION 29. AN UNKNOWN NUMBER WAS OBSERVED IN SECTION 31. INCLUDES FORMER OCCURRENCE #24.						
Owner/Manager:	PVT						

Occurrence No.	9	Map Index:	13236	EO Index:	17412	Element Last Seen:	1977-06-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	1977-06-XX	Record Last Updated:	2008-02-08
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				
Quad Summary:	Cooperstown (3712065)						
County Summary:	Stanislaus						
Lat/Long:	37.72687 / -120.56159			Accuracy:	specific area		
UTM:	Zone-10 N4178311 E714893			Elevation (ft):	270		
PLSS:	T02S, R13E, Sec. 29, SE (M)			Acres:	8.0		
Location:	APPROXIMATELY 1.5 AIR MILES SW OF COOPERSTOWN.						
Detailed Location:	TWO POLYGONS MAPPED IN THE WESTERN HALF OF THE SE 1/4 OF SECTION 29.						
Ecological:	VALLEY GRASSLAND IN AMADOR SOIL. ASSOCIATED WITH GRATIOLA EBRACTEATA, LASTHENIA FREMONTII, PLAGIOBOTHRYUS STIPITATUS, AND OTHER TYPICAL VERNAL POOL ANNUALS.						
General:	FEWER THAN 10 PLANTS OBSERVED IN SE POLYGON IN 1977. UNKNOWN NUMBER OBSERVED IN NW POLYGON IN 1977.						
Owner/Manager:	PVT						



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Occurrence No.	10	Map Index: 13231	EO Index: 17415	Element Last Seen:	1977-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1977-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2004-03-17
Quad Summary:	Cooperstown (3712065)				
County Summary:	Stanislaus				
Lat/Long:	37.71804 / -120.56262		Accuracy:	specific area	
UTM:	Zone-10 N4177328 E714828		Elevation (ft):	250	
PLSS:	T02S, R13E, Sec. 32, NE (M)		Acres:	1.8	
Location:	2.25 AIR MILES SW OF COOPERSTOWN.				
Detailed Location:	SW 1/4 OF NE 1/4 OF SECTION 32.				
Ecological:	VALLEY GRASSLAND.				
General:	ONLY SOURCE OF INFORMATION IS 1977 REPORT BY ALLEN. BARNETT RANCH PREFERRED SITE FOR PG&E NUCLEAR POWER PLANT IN STANISLAUS COUNTY. NEEDS FIELDWORK.				
Owner/Manager:	PVT?				
Occurrence No.	11	Map Index: 13248	EO Index: 17414	Element Last Seen:	1977-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1977-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2004-03-17
Quad Summary:	Cooperstown (3712065)				
County Summary:	Stanislaus				
Lat/Long:	37.71484 / -120.55138		Accuracy:	specific area	
UTM:	Zone-10 N4176999 E715828		Elevation (ft):	260	
PLSS:	T02S, R13E, Sec. 33, SW (M)		Acres:	2.1	
Location:	APPROXIMATELY 2.0 AIR MILES SSW OF COOPERSTOWN.				
Detailed Location:	THREE COLONIES MAPPED IN THE NORTH HALF OF THE SW 1/4 OF SECTION 33.				
Ecological:	VALLEY GRASSLAND ASSOCIATED WITH CALYCADENIA HOOVERI.				
General:	ONLY SOURCE OF INFORMATION IS 1977 REPORT BY ALLEN. BARNETT RANCH PREFERRED SITE FOR PG&E NUCLEAR POWER PLANT IN STANISLAUS COUNTY. NEEDS FIELDWORK. FORMER OCCURRENCE #12 LUMPED HERE.				
Owner/Manager:	PVT?				
Occurrence No.	13	Map Index: 13109	EO Index: 17411	Element Last Seen:	1977-06-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1977-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-02-08
Quad Summary:	Cooperstown (3712065)				
County Summary:	Stanislaus				
Lat/Long:	37.71995 / -120.53789		Accuracy:	specific area	
UTM:	Zone-10 N4177598 E717002		Elevation (ft):	280	
PLSS:	T02S, R13E, Sec. 33, NE (M)		Acres:	13.0	
Location:	1.8 AIR MILES SOUTH OF COOPERSTOWN NEAR SMALL KNOLL ON DRY CREEK FLOODPLAIN.				
Detailed Location:	TWO COLONIES MAPPED IN THE SW 1/4 OF THE NW 1/4 OF SECTION 34 AND THE WESTERN HALF OF THE NE 1/4 OF SECTION 33.				
Ecological:	VALLEY GRASSLAND IN AMADOR SOIL. ASSOCIATED WITH GRATIOLA EBRACTEATA, LASTHENIA FREMONTII, PLAGIOBOTHRYIS STIPITATUS, AND OTHER TYPICAL VERNAL POOL ANNUALS.				
General:	FEWER THAN 10 PLANTS OBSERVED IN EACH COLONY IN 1977. INCLUDES FORMER OCCURRENCE #14.				
Owner/Manager:	PVT				



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Occurrence No.	15	Map Index:	13301	EO Index:	17408	Element Last Seen:	1977-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1977-XX-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2006-10-06	

Quad Summary: La Grange (3712064), Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.67599 / -120.50412	Accuracy:	nonspecific area
UTM:	Zone-10 N4172797 E720109	Elevation (ft):	280
PLSS:	T03S, R13E, Sec. 14, NE (M)	Acres:	80.0

Location: UPPER WATERSHED OF LOWER DOMINICI CREEK; VERNAL POOL ON TRIBUTARY.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB IN THE VICINITY OF LOWER DOMINICI CREEK. INCLUDES COLLECTION BY P. ALLEN (1969) FROM 2 MILES WEST OF LA GRANGE ALONG DOMINICI CREEK.

Ecological: VALLEY GRASSLAND; VERNAL POOL.

General: INCLUDES FORMER EO #116. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	16	Map Index:	13223	EO Index:	17410	Element Last Seen:	1977-06-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1977-06-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2008-02-08	

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.73812 / -120.56478	Accuracy:	80 meters
UTM:	Zone-10 N4179552 E714579	Elevation (ft):	250
PLSS:	T02S, R13E, Sec. 29, NW (M)	Acres:	0.0

Location: DITCH ALONG EDGE OF SIERRA RAILROAD, APPROXIMATELY 2.3 MILES ENE OF WARNERVILLE.

Detailed Location: ALONG DITCH IN THE NE 1/4 OF THE NW 1/4 OF SECTION 29.

Ecological: VALLEY GRASSLAND.

General: FEWER THAN 1000 PLANTS OBSERVED IN 1977 BETWEEN THIS OCCURRENCE AND OCCURRENCE #17 COMBINED.

Owner/Manager: PVT

Occurrence No.	17	Map Index:	13201	EO Index:	17407	Element Last Seen:	1977-06-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1977-06-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2008-02-13	

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.73611 / -120.57449	Accuracy:	specific area
UTM:	Zone-10 N4179307 E713729	Elevation (ft):	250
PLSS:	T02S, R13E, Sec. 30, NE (M)	Acres:	3.0

Location: DITCH ALONG EDGE OF SIERRA RAILROAD, 0.1 MILE EAST OF COOPERSTOWN CROSSING.

Detailed Location: ALONG DITCH IN THE NE 1/4 OF THE NE 1/4 OF SECTION 30.

Ecological: VALLEY GRASSLAND. ASSOCIATED WITH ISOETES ORCUTTII AND PILULARIA AMERICANA.

General: SEVERAL HUNDRED PLANTS OBSERVED IN 1977.

Owner/Manager: PVT



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Occurrence No.	18	Map Index:	13193	EO Index:	17406	Element Last Seen:	1977-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1977-XX-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2008-02-08	

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.69232 / -120.57514	Accuracy:	80 meters
UTM:	Zone-10 N4174446 E713798	Elevation (ft):	250
PLSS:	T03S, R13E, Sec. 07, NE (M)	Acres:	0.0

Location: 2.9 AIR MILES SSE OF WARNERVILLE AND 0.1 MILE SOUTH OF BARNETT ROAD.

Detailed Location: NEAR THE CENTER OF THE EASTERN HALF OF THE NE 1/4 OF SECTION 7.

Ecological: VALLEY GRASSLAND, DRY BED OF VERNAL POOL.

General: 1975 COLLECTION BY RUBTZOFF AND ALLEN FROM "CA 1.5 MILE EAST OF BARNETT ROAD JUNCTION WITH CRABTREE ROAD, ON SOUTH SIDE OF BARNETT ROAD, REGION WEST OF LA GRANGE" ATTRIBUTED TO SITE.

Owner/Manager: UNKNOWN

Occurrence No.	19	Map Index:	70798	EO Index:	17405	Element Last Seen:	1977-06-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1977-06-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2008-02-08	

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.70499 / -120.58075	Accuracy:	80 meters
UTM:	Zone-10 N4175839 E713267	Elevation (ft):	230
PLSS:	T03S, R13E, Sec. 06, NE (M)	Acres:	0.0

Location: 2.0 AIR MILES SSE OF WARNERVILLE.

Detailed Location: MAPPED IN SW1/4 OF NE1/4 SECTION 6.

Ecological: VALLEY GRASSLAND IN AMADOR SOIL. ASSOCIATED WITH GRATIOLA EBRACTEATA, LASTHENIA FREMONTII, PLAGIOBOTHRYIS STIPITATUS, AND OTHER TYPICAL VERNAL POOL ANNUALS.

General: OBSERVED POPULATION COVERED LESS THAN 10 SQUARE METERS IN 1977.

Owner/Manager: PVT

Occurrence No.	21	Map Index:	90194	EO Index:	43378	Element Last Seen:	2008-04-23
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2008-04-23	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-22	

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.58695 / -120.43854	Accuracy:	specific area
UTM:	Zone-10 N4163073 E726163	Elevation (ft):	320
PLSS:	T04S, R14E, Sec. 16, W (M)	Acres:	1.0

Location: WEST SIDE OF HIGHWAY 59, APPROXIMATELY 0.8 AIR MILE NORTHWEST OF DRY CREEK CROSSING, NORTH OF SNELLING.

Detailed Location: MAPPED ACCORDING TO 2008 COORDINATES FROM VOLLMAR CONSULTING.

Ecological: PENTZ LOAM SOIL, 0-8% SLOPES.

General: 50-100 PLANTS OBSERVED IN 2008. A 1937 HOOVER COLLECTION FROM "5 MILES NORTH OF SNELLING" IS ALSO ATTRIBUTED TO THIS OCCURRENCE.

Owner/Manager: PVT



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Occurrence No.	22	Map Index: 13404	EO Index: 4319	Element Last Seen:	1989-03-29
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1989-03-29
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1995-02-01

Quad Summary: Snelling (3712054)
County Summary: Stanislaus

Lat/Long:	37.61447 / -120.45902	Accuracy:	80 meters
UTM:	Zone-10 N4166077 E724272	Elevation (ft):	350
PLSS:	T04S, R14E, Sec. 05, SW (M)	Acres:	0.0

Location: WEST OF HIGHWAY 59 ABOUT 3 MILES SOUTH OF LA GRANGE.
Detailed Location: LONG VERNAL POOL IN HEADWATERS OF SMALL ANNUAL CREEK, ABOUT 900' SOUTH OF NORTHERN PROPERTY LINE OF RODDEN PARCEL. WITHIN THE NW 1/4 OF THE SW 1/4 OF SECTION 5.
Ecological: VERNAL POOL WITHIN TREELESS VALLEY GRASSLAND. UNDULATING RELIEF, GENTLE SLOPES. ON MUD (NOT IN WATER) OF MEDIUM-LARGE POOL. DENSE GROWTH OF LIMNANTHES DOUGLASII VAR. ROSEA. PENTZ SOIL SERIES.
General: PLENTIFUL IN 1960. 200-400 PLANTS SEEN IN 1989. SITE COULD BE PROTECTED BY ROUTING THE TRACK TO ONE SIDE IF NECESSARY, BY AVOIDING IRRIGATION WITHIN 100 YARDS OF THE POOL, AND BY AVOIDING FOOT OR AUTO TRAFFIC ON THE SITE.
Owner/Manager: PVT

Occurrence No.	23	Map Index: 13375	EO Index: 17404	Element Last Seen:	1960-04-03
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1960-04-03
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1989-08-11

Quad Summary: La Grange (3712064)
County Summary: Stanislaus

Lat/Long:	37.68076 / -120.46964	Accuracy:	1/5 mile
UTM:	Zone-10 N4173408 E723136	Elevation (ft):	406
PLSS:	T03S, R14E, Sec. 18, NE (M)	Acres:	0.0

Location: 1.7 MILES NORTH OF LA GRANGE ALONG LA GRANGE-SONORA ROAD, BM 406.
Detailed Location: PASTURE.
Ecological: ABUNDANT IN SMALL VERNAL POOLS. ASSOCIATED WITH PLAGIOBOTHRYIS STIPITATUS.
General:
Owner/Manager: UNKNOWN



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Occurrence No.	50	Map Index: 26021	EO Index: 4318	Element Last Seen:	1989-03-29
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	1989-03-29
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1995-02-01
Quad Summary:	Snelling (3712054)				
County Summary:	Stanislaus				
Lat/Long:	37.61103 / -120.46561		Accuracy:	specific area	
UTM:	Zone-10 N4165680 E723701		Elevation (ft):	300	
PLSS:	T04S, R14E, Sec. 06, SE (M)		Acres:	7.1	
Location:	0.5 MILE NORTH OF THE STANISLAUS/MERCED COUNTY LINE AND 0.75 MILE WEST OF COUNTY RD J-59, ABOUT 6 AIR MI N OF SNELLING.				
Detailed Location:	TWO POOLS; 350' EAST OF THE NORTH-SOUTH FENCE ON THE QUARTER SECTION LINE, NW OF CONSPICUOUS HILL OF ANDESITIC TUFF. WITHIN THE SE 1/4 OF THE SE 1/4 SECTION 6.				
Ecological:	VERNAL POOLS WITHIN TREELESS VALLEY GRASSLAND. UNDULATING RELIEF, GENTLE SLOPES. GROWING ON MUD OF POOL BEDS. ASSOCIATED WITH ISOETES ORCUTTII, JUNCUS, LIMNANTHES DOUGLASII VAR. ROSEA. PENTZ SOILS.				
General:	50-60 PLANTS OBSERVED IN 1989. SITE COULD BE PROTECTED BY ROUTING THE TRACK TO ONE SIDE IF NECESSARY, BY AVOIDANCE OF IRRIGATION WITHIN 100 YARDS OF THE POOLS, AND BY AVOIDANCE OF FOOT AND AUTO TRAFFIC.				
Owner/Manager:	PVT				
Occurrence No.	103	Map Index: 44061	EO Index: 44061	Element Last Seen:	2001-06-26
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2001-06-26
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-09-15
Quad Summary:	Merced Falls (3712053)				
County Summary:	Merced				
Lat/Long:	37.54143 / -120.36946		Accuracy:	specific area	
UTM:	Zone-10 N4158190 E732406		Elevation (ft):	380	
PLSS:	T04S, R15E, Sec. 31, SW (M)		Acres:	10.4	
Location:	ABOUT 0.7 MILE WEST OF KELSEY RESERVOIR, WNW OF MERCED FALLS AND EAST OF SNELLING.				
Detailed Location:	MAPPED IN THREE COLONIES; TWO ALONG ROAD WITHIN THE WEST HALF OF THE SW 1/4 OF SECTION 31, ONE WITHIN NE 1/4 SE 1/4 SECTION 36.				
Ecological:	IN VERNAL POOLS AND SWALES. POOLS SCATTERED, SMALL TO MEDIUM IN SIZE, AND FAIRLY SHALLOW. SWALE IS IN DISKED FIELD WITH LOW SPECIES DIVERSITY (LYTHRUM HYSSOPIFOLIA AND PLAGIOBOTHRYIS STIPITATUS MICRANTHUS).				
General:	UNKNOWN NUMBER OF PLANTS OBSERVED IN NORTH AND WEST COLONIES IN 1999, 5000+ PLANTS OBSERVED IN SE COLONY IN 2000. 500+ PLANTS OBSERVED AT SE COLONY IN 2001.				
Owner/Manager:	PVT-KELSEY RANCH				



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Occurrence No.	104	Map Index: 44062	EO Index: 44062	Element Last Seen: 1999-05-01
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1999-05-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2000-10-18

Quad Summary: Merced Falls (3712053)
County Summary: Merced

Lat/Long:	37.54254 / -120.36373	Accuracy:	specific area
UTM:	Zone-10 N4158327 E732909	Elevation (ft):	390
PLSS:	T04S, R15E, Sec. 31, SW (M)	Acres:	2.6

Location: ABOUT 0.25 MILE WEST OF KELSEY RESERVOIR SPILLWAY, NORTHWEST OF MERCED FALLS AND EAST OF SNELLING.
Detailed Location: MAPPED ALONG SOUTH SIDE OF CREEK THAT DRAINS RESERVOIR. WITHIN THE NE 1/4 SW 1/4 SECTION 31.
Ecological: FOUND IN A FEW SMALL VERNAL POOLS.
General: 50+ PLANTS OBSERVED IN 1999. LAND APPEARS TO BE WELL MANAGED.
Owner/Manager: PVT

Occurrence No.	105	Map Index: 44064	EO Index: 44064	Element Last Seen: 1999-05-01
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1999-05-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2000-10-18

Quad Summary: Snelling (3712054)
County Summary: Merced

Lat/Long:	37.53081 / -120.38776	Accuracy:	specific area
UTM:	Zone-10 N4156966 E730822	Elevation (ft):	340
PLSS:	T05S, R14E, Sec. 01, NW (M)	Acres:	2.3

Location: ABOUT 0.2 MILE NORTH OF NORTH SIDE CANAL AND 2.3 MILE EAST OF COUNTY ROAD J-59, EAST OF SNELLING.
Detailed Location: MAPPED AS SINGLE COLONY WITHIN THE SE 1/4 NW 1/4 SECTION 1.
Ecological: GROWING IN A FEW VERNAL POOLS ON UPPER EDGE OF FLOODPLAIN TERRACE OF MERCED RIVER. POOLS ARE 20 TO 30 FEET IN DIAMETER AND MODERATE IN DEPTH.
General: 200+ PLANTS OBSERVED IN 1999. LAND APPEARS TO BE WELL MANAGED.
Owner/Manager: PVT

Occurrence No.	106	Map Index: 44065	EO Index: 44065	Element Last Seen: 1999-05-01
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1999-05-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2000-10-18

Quad Summary: Snelling (3712054)
County Summary: Merced

Lat/Long:	37.53996 / -120.38298	Accuracy:	specific area
UTM:	Zone-10 N4157993 E731216	Elevation (ft):	440
PLSS:	T04S, R14E, Sec. 36, SW (M)	Acres:	2.1

Location: ABOUT 0.8 MILE NORTH OF NORTH SIDE CANAL AND 2.4 MILE EAST OF COUNTY ROAD J-59, EAST OF SNELLING.
Detailed Location: MAPPED AS SINGLE COLONY NEAR THE CENTER OF THE EAST HALF OF THE SW 1/4 OF SECTION 36.
Ecological: GROWING IN LARGE VERNAL POOLS TOP OF RIDGE. POOLS ARE MODERATELY DEEP AND WELL FORMED. SURROUNDING HABITAT IS ANNUAL GRASSLAND WITH SCATTERED VERNAL POOLS.
General: 500+ PLANTS OBSERVED IN 1999. LAND APPEARS TO BE WELL MANAGED.
Owner/Manager: PVT



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Occurrence No.	107	Map Index: 44066	EO Index: 44066	Element Last Seen:	1999-05-01
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	1999-05-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2000-10-18

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.54524 / -120.38197	Accuracy:	specific area
UTM:	Zone-10 N4158581 E731288	Elevation (ft):	360
PLSS:	T04S, R14E, Sec. 36, NW (M)	Acres:	9.1

Location: ABOUT 2.4 MILE EAST OF COUNTY ROAD J-59 AND 1.4 MILE SSE OF ELBOW IN FIELDS ROAD, NORTHEAST OF SNELLING.

Detailed Location: MAPPED AS SINGLE COLONY WITHIN THE SE 1/4 NW 1/4 SECTION 36.

Ecological: GROWING IN IN SEVERAL VERNAL POOLS AND PONDED AREAS WITHIN VERNAL SWALES ALONG DRAINAGEWAY SE OF MANMADE STOCKPOND. POOLS ARE GENERALLY LESS THAN 30 FEET IN DIAMETER AND FAIRLY SHALLOW.

General: 1000+ PLANTS OBSERVED IN 1999. LAND APPEARS TO BE WELL MANAGED.

Owner/Manager: PVT

Occurrence No.	115	Map Index: 54729	EO Index: 54729	Element Last Seen:	2006-05-12
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2006-05-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2006-10-10

Quad Summary: La Grange (3712064)

County Summary: Stanislaus

Lat/Long:	37.67060 / -120.49237	Accuracy:	specific area
UTM:	Zone-10 N4172228 E721162	Elevation (ft):	275
PLSS:	T03S, R13E, Sec. 13, SW (M)	Acres:	0.0

Location: LOWER WEST FORK OF UPPER DOMINICI CREEK, 1.5 MILES WEST OF LA GRANGE.

Detailed Location: MAPPED ACCORDING TO MAP PROVIDED BY STEWMAN.

Ecological: GROWING IN VERNAL POOLS AND POOLS OF INTERMITTENT STREAMS ASSOCIATED WITH UPPER DOMINICI CREEK. ASSOCIATED WITH GRATIOLA EBRACTEATA AND ERYNGIUM CASTRENSE. THE RARE CALYCADENIA HOOVERI ALSO OCCURS HERE.

General: 1 CLUSTER OF PLANTS OBSERVED IN 2006. ABOUT 400 TOTAL INDIVIDUALS "SPREAD OUT IN 24 DISTINCT OCCURRENCES" INCLUDING OCCURRENCES #122, 123, AND 124. PLANT MAY BE INCLUDED IN PROPOSED CONSERVATION EASEMENTS.

Owner/Manager: PVT



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Occurrence No.	122	Map Index: 66648	EO Index: 66794	Element Last Seen:	2006-05-12
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2006-05-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-09-14

Quad Summary: La Grange (3712064)

County Summary: Stanislaus

Lat/Long:	37.67859 / -120.49339	Accuracy:	specific area
UTM:	Zone-10 N4173111 E721048	Elevation (ft):	300
PLSS:	T03S, R13E, Sec. 13, NW (M)	Acres:	3.0

Location: NEAR HEADWATERS OF UPPER DOMINICI CREEK, ABOUT 1.9 AIR MILES NORTHWEST OF LA GRANGE.

Detailed Location: 2 POLYGONS MAPPED ACCORDING TO MAP PROVIDED BY STEWMAN; 9 CLUSTERS OF PLANTS IN NORTHERN POLYGON AND 7 CLUSTERS IN SOUTHERN POLYGON. WITHIN THE SW 1/4 OF THE SE 1/4 OF SECTION 12 AND THE NE 1/4 OF THE NW 1/4 OF SECTION 13.

Ecological: GROWING IN VERNAL POOLS AND POOLS OF INTERMITTENT STREAMS ASSOCIATED WITH UPPER DOMINICI CREEK. ASSOCIATED WITH GRATIOLA EBRACTEATA AND ERYNGIUM CASTRENSE. THE RARE CALYCADENIA HOOVERI ALSO OCCURS HERE.

General: ABOUT 400 TOTAL INDIVIDUALS OBSERVED IN 2006 BETWEEN THIS OCCURRENCE AND OCCURRENCES #115 AND 124 COMBINED. PLANT MAY BE INCLUDED IN PROPOSED CONSERVATION EASEMENTS. INCLUDES FORMER OCCURRENCE #123.

Owner/Manager: PVT

Occurrence No.	124	Map Index: 66650	EO Index: 66796	Element Last Seen:	2006-05-12
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2006-05-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2006-10-10

Quad Summary: La Grange (3712064)

County Summary: Stanislaus

Lat/Long:	37.66605 / -120.49105	Accuracy:	specific area
UTM:	Zone-10 N4171725 E721291	Elevation (ft):	260
PLSS:	T03S, R13E, Sec. 24, NW (M)	Acres:	1.0

Location: 0.11 MILE WEST OF MODESTO MAIN CANAL NEAR UPPER DOMINICI CREEK.

Detailed Location: MAPPED ACCORDING TO MAP PROVIDED BY STEWMAN IN THE FAR NE 1/4 OF THE NW 1/4 OF SECTION 24.

Ecological: GROWING IN VERNAL POOLS AND POOLS OF INTERMITTENT STREAMS ASSOCIATED WITH UPPER DOMINICI CREEK. ASSOCIATED WITH GRATIOLA EBRACTEATA AND ERYNGIUM CASTRENSE. THE RARE CALYCADENIA HOOVERI ALSO OCCURS HERE.

General: ONE CLUSTER OF PLANTS OBSERVED IN 2006. ABOUT 400 TOTAL INDIVIDUALS "SPREAD OUT IN 24 DISTINCT OCCURRENCES" INCLUDING OCCURRENCES #115, 122, AND 123. PLANT MAY BE INCLUDED IN PROPOSED CONSERVATION EASEMENTS.

Owner/Manager: PVT



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Occurrence No.	134	Map Index:	90195	EO Index:	91205	Element Last Seen:	2008-04-23
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2008-04-23	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-22	

Quad Summary: Snelling (3712054)

County Summary: Stanislaus

Lat/Long:	37.60690 / -120.46090	Accuracy:	specific area
UTM:	Zone-10 N4165233 E724129	Elevation (ft):	350
PLSS:	T04S, R14E, Sec. 08, NW (M)	Acres:	3.0

Location: JUST WEST OF WHERE STATE ROUTE 59 CROSSES THE STANISLAUS/MERCED COUNTY LINE, ABOUT 2.7 AIR MILES SOUTH OF CARDOZA LAKE.

Detailed Location: 3 POLYGONS MAPPED IN THE NW 1/4 OF THE NW 1/4 OF SECTION 8 ACCORDING TO 2008 DIGITAL DATA FROM VOLLMAR CONSULTING.

Ecological: ANDERSON GRAVELLY FINE SANDY LOAM AND PENTZ GRAVELLY LOAM. 0-8% SLOPES.

General: 125-250 PLANTS OBSERVED IN 2008.

Owner/Manager: PVT

Occurrence No.	135	Map Index:	90197	EO Index:	91206	Element Last Seen:	2008-04-09
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2008-04-09	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-22	

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.60559 / -120.43411	Accuracy:	specific area
UTM:	Zone-10 N4165152 E726498	Elevation (ft):	350
PLSS:	T04S, R14E, Sec. 09, NE (M)	Acres:	1.0

Location: APPROXIMATELY 1.8 AIR MILES NNW OF STATE ROUTE 59 CROSSING OF DRY CREEK AND 3 AIR MILES SSE OF CARDOZA LAKE.

Detailed Location: MAPPED IN THE NW 1/4 OF THE NE 1/4 OF SECTION 9 ACCORDING TO 2008 COORDINATES FROM VOLLMAR CONSULTING.

Ecological: VERNAL POOL. AMADOR LOAM SOIL WITH 0-8% SLOPES.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2008.

Owner/Manager: PVT



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Occurrence No.	136	Map Index:	90200	EO Index:	91209	Element Last Seen:	2008-04-09
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2008-04-09	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-23	

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.59175 / -120.42163	Accuracy:	specific area
UTM:	Zone-10 N4163647 E727642	Elevation (ft):	300
PLSS:	T04S, R14E, Sec. 15, NW (M)	Acres:	1.0

Location: APPROXIMATELY 0.8 AIR MILE NNE OF STATE ROUTE 59 CROSSING OF DRY CREEK AND 4.1 AIR MILES SSE OF CARDOZA LAKE.

Detailed Location: MAPPED IN THE NW 1/4 OF THE NW 1/4 OF SECTION 15 ACCORDING TO 2008 COORDINATES FROM VOLLMAR CONSULTING.

Ecological: REDDING GRAVELLY LOAM, 0-8% SLOPES.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2008.

Owner/Manager: PVT

Githopsis tenella **Element Code:** PDCAM07070

delicate bluecup

Listing Status: **Federal:** None **CNDDB Element Ranks:** **Global:** G2

State: None **State:** S2

Other: Rare Plant Rank - 1B.3

Habitat: **General:** CHAPARRAL, CISMONTANE WOODLAND.

Micro: MESIC SITES. 1100-1900 M.

Occurrence No.	5	Map Index:	79028	EO Index:	79985	Element Last Seen:	2005-04-21
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2005-04-21	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2010-06-08	

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85899 / -120.49883	Accuracy:	80 meters
UTM:	Zone-10 N4193118 E720032	Elevation (ft):	1500
PLSS:	T01S, R13E, Sec. 12, SW (M)	Acres:	0.0

Location: NORTH SIDE OF WESTERNMOST PORTION OF RED HILLS, ABOUT 0.9 AIR MILE ESE OF BURGESSON RANCH.

Detailed Location: MAPPED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 12 ACCORDING TO 2005 UTM COORDINATES.

Ecological: SERPENTINE SOIL. ASSOCIATED WITH HETEROMELES ARBUTIFOLIA, MOSS, ERIODICTYON CALIFORNICUM, VULPIA MICROSTACHYS, CEANOTHUS CUNEATUS, MIMULUS AURANTIACUS, ARCTOSTAPHYLOS MANZANITA, ADENOSTOMA FASCICULATUM, MADIA EXIGUA, RIBES MALVACEUM, ETC.

General: 0.2% COVER OF THIS PLANT IN 2005.

Owner/Manager: BLM



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<i>Cuscuta obtusiflora var. glandulosa</i>		Element Code: PDCUS01111	
Peruvian dodder			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G5T4T5
	State: None		State: SH
	Other: Rare Plant Rank - 2B.2		
Habitat:	General: MARSHES AND SWAMPS (FRESHWATER).		
	Micro: FRESHWATER MARSH. 15-280 M.		
Occurrence No.	3	Map Index: 83835	EO Index: 84865
Occ. Rank:	Unknown	Presence: Presumed Extant	Element Last Seen: 1948-08-19
Occ. Type:	Natural/Native occurrence	Trend: Unknown	Site Last Seen: 1948-08-19
			Record Last Updated: 2011-10-05
Quad Summary:	Snelling (3712054)		
County Summary:	Merced		
Lat/Long:	37.51467 / -120.45688	Accuracy:	2/5 mile
UTM:	Zone-10 N4155008 E724761	Elevation (ft):	
PLSS:	T05S, R14E, Sec. 08 (M)	Acres:	0.0
Location:	1 MILE WEST OF SNELLING.		
Detailed Location:	EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN VICINITY OF MARSH HABITAT AROUND 1 MILE WEST OF SNELLING.		
Ecological:	MARSH.		
General:	ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1948 COLLECTION BY MASON & SMITH. NEEDS FIELDWORK.		
Owner/Manager:	UNKNOWN		



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<i>Euphorbia hooveri</i>		Element Code: PDEUP0D150	
Hoover's spurge			
Listing Status:	Federal: Threatened	CNDDB Element Ranks:	Global: G2
	State: None		State: S2
	Other: Rare Plant Rank - 1B.2		
Habitat:	General: VERNAL POOLS.		
	Micro: VERNAL POOLS ON VOLCANIC MUDFLOW OR CLAY SUBSTRATE. 25-250 M.		

Occurrence No.	9	Map Index: 31446	EO Index: 2411	Element Last Seen: 1986-08-30
Occ. Rank:	None		Presence: Possibly Extirpated	Site Last Seen: 2011-10-16
Occ. Type:	Natural/Native occurrence		Trend: Decreasing	Record Last Updated: 2013-05-24

Quad Summary: Turlock Lake (3712055), Montpelier (3712056)
County Summary: Stanislaus

Lat/Long:	37.60206 / -120.62764	Accuracy:	specific area
UTM:	Zone-10 N4164310 E709422	Elevation (ft):	190
PLSS:	T04S, R12E, Sec. 10 (M)	Acres:	692.0

Location: HICKMAN VERNAL POOLS.
Detailed Location: ENTIRE COMPLEX OF VERNAL POOLS MAPPED BUT C. HOOVERI ONLY REPORTED FROM THE MIDDLE OF THE STRING OF NORTH POOLS AND THE LARGE MIDDLE AND SOUTHERN POOLS.
Ecological: LARGE VERNAL POOLS. ASSOCIATED WITH NEOSTAPFIA COLUSANA, ORCUTTIA PILOSA, SIDA HEDERACEA, AND LIPPIA NODIFLORA.
General: POP SIZE IN N POOL RANGES FROM EXTENSIVE STAND (1974) TO ENTIRELY ABSENT (1986). MIDDLE AND S POOLS RANGE FROM FEW PLANTS TO EXTENSIVE BUT SPARSE STANDS. NO PLANTS SEEN IN 2011 WINDSHIELD SURVEY; POSSIBLY EXTRIPATED. INCL FRMR EOS #10 & 15.
Owner/Manager: PVT

Occurrence No.	11	Map Index: 13276	EO Index: 2790	Element Last Seen: 1986-08-31
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1986-08-31
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2008-06-27

Quad Summary: Cooperstown (3712065)
County Summary: Stanislaus

Lat/Long:	37.65085 / -120.52638	Accuracy:	80 meters
UTM:	Zone-10 N4169955 E718220	Elevation (ft):	250
PLSS:	T03S, R13E, Sec. 27, NE (M)	Acres:	0.0

Location: VERNAL POOL 1.6 MILES NORTH OF TUOLUMNE RIVER AND 0.4 MILE EAST OF RAIRDEN GULCH, JUST SOUTH OF MODESTO MAIN CANAL.
Detailed Location: POOL MAPPED SOUTHWEST OF DIRT ROAD WITHIN THE NW 1/4 OF THE NE 1/4 OF SECTION 27. IN 1986, THE POOL BED APPEARED BARREN FROM A DISTANCE DUE TO SEVERE GRAZING AND TRAMPLING.
Ecological: VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND AND OPEN QUERCUS DOUGLASII WOODLAND. ASSOCIATED WITH NEOSTAPFIA COLUSANA, MARSILEA VESTITA, AND EREMOCARPUS SETIGERUS. SOIL MAPPED AS WHITNEY SANDY LOAM.
General: SITE FIRST DOCUMENTED BY P. ALLEN IN 1962. SITE VISITED IN 1983. ABOUT 50-100 PLANTS SEEN IN 1986. OTHER POOLS NEARBY HAVE BEEN PLANTED WITH CLOVER AND CONVERTED TO CATTLE WATERING PONDS.
Owner/Manager: PVT

<i>Lupinus spectabilis</i>		Element Code: PDFAB2B3P0	
shaggyhair lupine			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G2
	State: None		State: S2



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Habitat:	Other: Rare Plant Rank - 1B.2, BLM_S-Sensitive
	General: CHAPARRAL, CISMONTANE WOODLAND.
	Micro: OPEN ROCKY SLOPES OF SERPENTINE. MOSTLY ON SERPENTINE CHAPARRAL SURROUNDED BY GREY PINE WOODLAND. 260-825 M.

Occurrence No.	9	Map Index:	13835	EO Index:	13861	Element Last Seen:	1987-04-16
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:	1987-04-16	Record Last Updated:	1989-08-11
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary: Moccasin (3712073)
County Summary: Tuolumne

Lat/Long:	37.76653 / -120.25827	Accuracy:	specific area
UTM:	Zone-10 N4183451 E741500	Elevation (ft):	1800
PLSS:	T02S, R16E, Sec. 18, NE (M)	Acres:	77.6

Location: 4 MI SE OF MOCCASIN CREEK POWERHOUSE (UPPER MOCCASIN CR BASIN), W OF THE MCALPINE MINE.
Detailed Location:
Ecological: ON SERPENTINE OUTCROPS WITHIN ADENOSTOMA/ERIODICTYON CHAPARRAL. ASSOCIATED WITH SELAGINELLA HANSENII AND DUDLEYA CYMOSA.
General: EXCELLENT SITE QUALITY. MORE THAN 2000 PLANTS IN SEVERAL SUB-POPULATIONS.
Owner/Manager: BLM-FOLSOM RA

Occurrence No.	10	Map Index:	78655	EO Index:	79585	Element Last Seen:	1937-04-24
Occ. Rank:	None	Presence:	Possibly Extirpated	Site Last Seen:	1987-04-16	Record Last Updated:	2010-05-12
Occ. Type:	Natural/Native occurrence	Trend:	Unknown				

Quad Summary: Moccasin (3712073), Chinese Camp (3712074)
County Summary: Tuolumne

Lat/Long:	37.84585 / -120.37638	Accuracy:	1 mile
UTM:	Zone-10 N4191956 E730847	Elevation (ft):	
PLSS:	T01S, R15E, Sec. 18 (M)	Acres:	0.0

Location: JACKSONVILLE.
Detailed Location: MAPPED BY CNDDDB IN VICINITY OF HISTORIC LOCATION OF JACKSONVILLE, NOW COVERED BY DON PEDRO RESERVOIR. MARTZ (1987) SAYS THAT MOST SUITABLE HABITAT WAS NOT FLOODED WHEN THE RESERVOIR WAS FILLED, THEREFORE HE'S NOT CONVINCED IT'S EXTRIPATED.
Ecological:
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1937 HOOVER COLLECTION. JACKSONVILLE FLOODED BY DON PEDRO RESERVOIR; SUITABLE HABITAT ABOVE LAKE LEVEL SEARCHED IN 1983, 1985, 1986, & 1987, BUT NO L. SPECTABILIS FOUND.
Owner/Manager: UNKNOWN



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Occurrence No.	27	Map Index:	78659	EO Index:	79607	Element Last Seen:	2005-06-21
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2005-06-21	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2010-04-26	

Quad Summary: Moccasin (3712073)

County Summary: Tuolumne

Lat/Long: 37.76825 / -120.26655 **Accuracy:** 80 meters

UTM: Zone-10 N4183621 E740765 **Elevation (ft):** 1501

PLSS: T02S, R15E, Sec. 13, NE (M) **Acres:** 0.0

Location: WEST SIDE OF MOCCASIN CREEK, ABOUT 0.7 AIR MILE WEST OF MCALPINE MINE AND 2.2 AIR MILES SOUTH OF PRIEST RESERVOIR.

Detailed Location: MAPPED IN THE NW 1/4 OF THE NE 1/4 OF SECTION 13.

Ecological: BLUE WOODLAND STAND OVER SCATTERED SHRUBS (MOSTLY POISON OAK) WITH EMERGENT GRAY PINE AND A CALIFORNIA ANNUAL GRASSLAND UNDERSTORY. ASSOCIATED WITH QUERCUS DOUGLASII, AVENA BARBATA, TOXICODENDRON DIVERSILOBUM, HETEROMELES ARBUTIFOLIA, ETC.

General: 2005: 0.2% COVER OF L. SPECTABILIS AT THIS SITE, UNKNOWN NUMBER OF PLANTS SEEN.

Owner/Manager: BLM



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<i>Monardella leucocephala</i>		Element Code: PDLAM180C0	
Merced monardella			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: GH
	State: None		State: SH
	Other: Rare Plant Rank - 1A		
Habitat:	General: VALLEY AND FOOTHILL GRASSLAND.		
	Micro: KNOWN FROM RIVERBEDS, MOIST SANDY DEPRESSIONS; REQUIRES MOIST SUBALKALINE SANDS ASSOC W/LOW ELEV GRASSLAND. 35-100 M.		

Occurrence No.	1	Map Index: 17383	EO Index: 11942	Element Last Seen:	1896-07-15
Occ. Rank:	None		Presence: Extirpated	Site Last Seen:	1997-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2005-06-15
Quad Summary:	La Grange (3712064), Cooperstown (3712065)				
County Summary:	Stanislaus				
Lat/Long:	37.64725 / -120.49729		Accuracy:	1 mile	
UTM:	Zone-10 N4169624 E720797		Elevation (ft):	200	
PLSS:	T03S, R13E, Sec. 25, NW (M)		Acres:	0.0	
Location:	NEAR BASSO BRIDGE BELOW LA GRANGE, TUOLUMNE RIVER.				
Detailed Location:					
Ecological:	INFO FROM HERBARIUM LABEL SAYS PLANTS "ABUNDANT IN SANDY GRAIN FIELDS IN ROLLING COUNTRY."				
General:	NOT FOUND IN 1990, '91, '92, OR '97. JEPSON'S 1896 COLLECTIONS ARE ONLY KNOWN OBSERVATIONS AT THIS SITE. ALLEN, 1975, SAYS "CERTAINLY EXTINCT AT THIS SITE." THIS SITE WAS FORMERLY REFERRED TO AS OCCURRENCE #3.				
Owner/Manager:	UNKNOWN				

Occurrence No.	3	Map Index: 17399	EO Index: 11936	Element Last Seen:	1936-05-27
Occ. Rank:	None		Presence: Extirpated	Site Last Seen:	1997-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-02-01
Quad Summary:	Cooperstown (3712065)				
County Summary:	Stanislaus				
Lat/Long:	37.64406 / -120.59226		Accuracy:	1 mile	
UTM:	Zone-10 N4169050 E712426		Elevation (ft):	180	
PLSS:	T03S, R12E, Sec. 25, SE (M)		Acres:	0.0	
Location:	9 MILES EAST OF WATERFORD. 1 MILE NORTH OF TURLOCK LAKE STATE PARK.				
Detailed Location:	OTHER NEARBY COLLECTIONS INCLUDE "10-12 MI E OF WATERFORD, NEAR OIL WELL." ALLEN REPORTS THAT THE OIL WELL EXISTED ABOUT 10.5 MILES EAST OF WATERFORD NEAR CREE RANCH RESORT.				
Ecological:					
General:	NO PLANTS FOUND IN 1990, '91, '92, OR '97. HOOVER COLLECTIONS (#693, 1107, 2594, & 3627) ATTRIBUTED HERE. NO SUITABLE HABITAT REMAINS. INCLUDES FORMER OCCURRENCE #4 (9 MI E OF WATERFORD) AND #5 (10-12 MI E OF WATERFORD NEAR OIL WELL).				
Owner/Manager:	UNKNOWN				

<i>Clarkia biloba ssp. australis</i>		Element Code: PDONA05051	
Mariposa clarkia			
Listing Status:	Federal: None	CNDDB Element Ranks:	Global: G4G5T2T3
	State: None		State: S2S3
	Other: Rare Plant Rank - 1B.2, BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive		
Habitat:	General: CHAPARRAL, CISMONTANE WOODLAND.		



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Micro: ON SERPENTINE. SEVERAL OCCURRENCES OCCUR IN THE FOOTHILL WOODLAND/RIPARIAN ECOTONE. 300-1460 M.

Occurrence No.	46	Map Index:	90063	EO Index:	91076	Element Last Seen:	2010-05-17
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-05-17	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-15	

Quad Summary: Merced Falls (3712053)
County Summary: Mariposa

Lat/Long:	37.59382 / -120.27959	Accuracy:	specific area
UTM:	Zone-10 N4164230 E740179	Elevation (ft):	700
PLSS:	T04S, R15E, Sec. 11, SE (M)	Acres:	1.0

Location: ALONG UNNAMED ROAD BETWEEN LAKE MCCLURE RD AND WESTERN SIDE OF LAKE MCCLURE, ABOUT 0.7 AIR MI NW OF NEW EXCHEQUER DAM.
Detailed Location: MAPPED IN THE SE 1/4 OF THE SE 1/4 OF SECTION 11 ACCORDING TO 2010 COORDINATES FROM HDR INC.
Ecological: NE-FACING ROCK OUTCROP ALONG ROAD IN BLUE OAK WOOLAND/ANNUAL GRASSLAND. ASSOCIATED WITH PHACELIA, RIPGUT, BLOW WIVES, AVENA, HORSETAIL, AND DAUCUS.
General: 100 PLANTS OBSERVED IN 2010.
Owner/Manager: MERCED IRRIGATION DISTRICT

Occurrence No.	47	Map Index:	90065	EO Index:	91077	Element Last Seen:	2010-06-24
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-06-24	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-15	

Quad Summary: Merced Falls (3712053)
County Summary: Mariposa

Lat/Long:	37.58107 / -120.27950	Accuracy:	specific area
UTM:	Zone-10 N4162816 E740227	Elevation (ft):	400
PLSS:	T04S, R15E, Sec. 13, SW (M)	Acres:	1.0

Location: SOUTH SIDE OF MERCED RIVER, APPROXIMATELY 0.5 AIR MILE WSW OF NEW EXCHEQUER DAM.
Detailed Location: MAPPED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 13 ACCORDING TO 2010 COORDINATES FROM HDR INC.
Ecological: NW ASPECT, 5-15 DEGREE SLOPE. ASSOCIATED WITH QUERCUS DOUGLASII, AVENA FATUA, A. BARBATA, PHACELIA, TOXICODENDRON DIVERSILOBUM, HYPOCHAERIS GLABRA, MELICA CALIFORNICA, AND AESCULUS CALIFORNICA.
General: 200 PLANTS OBSERVED IN 2010.
Owner/Manager: MERCED IRRIGATION DISTRICT



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Occurrence No.	48	Map Index: 90066	EO Index: 91078	Element Last Seen:	2010-06-24
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-06-24
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-15

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.58294 / -120.27322	Accuracy:	specific area
UTM:	Zone-10 N4163039 E740776	Elevation (ft):	700
PLSS:	T04S, R15E, Sec. 13, SW (M)	Acres:	2.0

Location: SLOPES JUST SOUTH OF NEW EXCHEQUER DAM, APPROXIMATELY 1.5 AIR MILES NORTHWEST OF BLUE MOON MINE.

Detailed Location: 3 POLYGONS MAPPED ACCORDING TO 2010 COORDINATES FROM HRC INC.

Ecological: ROADSIDE, ROCKY CLIFFS. NW-FACING SLOPES, 0-35 DEGREE SLOPES. ASSOC W/ TRIFOLIUM WILLDENOVII, KECKIELLA BREVIFLORA, ERIOPHYLLUM LANATUM, PINUS SABINIANA, AVENA FATUA, A. BARBATA, BROMUS DIANDRUS, VULPIA MYUROS, PHACELIA CICUTARIA, ETC.

General: 100 PLANTS SEEN IN WESTERN POLYGON, 50 PLANTS SEEN IN MIDDLE POLYGON, AND 100 PLANTS SEEN IN EASTERN POLYGON IN 2010.

Owner/Manager: MERCED IRRIGATION DIST, BLM

Occurrence No.	63	Map Index: 90090	EO Index: 91102	Element Last Seen:	2010-06-04
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-06-04
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-16

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.69167 / -120.31887	Accuracy:	specific area
UTM:	Zone-10 N4174990 E736399	Elevation (ft):	900
PLSS:	T03S, R15E, Sec. 09, E (M)	Acres:	9.0

Location: EITHER SIDE OF PINEY CREEK NEAR CONFLUENCE WITH LAKE MCCLURE, ABOUT 1.4 AIR MILES SOUTHWEST OF GRANITE SPRINGS.

Detailed Location: SEVERAL POLYGONS MAPPED THROUGH SECTIONS 4, 9, AND 10 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: EDGES OF OLD QUARRY, ROADSIDES, AND SLOPES ABOVE HIGH WATER LINE. ROCKY LOAM SOILS. ASSOCIATED WITH QUERCUS WISLIZENI, HETEROMELES ARBUTIFOLIA, TOXICODENDRON DIVERSILOBUM, CHLOROGALUM POMERIDIANUM, MADIA, BRASSICA, CYNODON DACTYLON, ETC.

General: POPULATION NUMBERS FOR POLYGONS FROM NORTH TO SOUTH: 45, 10,000, 1000, 2000, 100, 1200, 2000, 150, 800, 5000, 825, AND 50 PLANTS OBSERVED IN 2010.

Owner/Manager: MERCED IRR DIST, BLM, PVT



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Occurrence No.	64	Map Index:	90091	EO Index:	91103	Element Last Seen:	2010-06-04
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-06-04	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-16	

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.68171 / -120.31289	Accuracy:	specific area
UTM:	Zone-10 N4173900 E736959	Elevation (ft):	900
PLSS:	T03S, R15E, Sec. 10, SW (M)	Acres:	1.0

Location: WEST SIDE OF PINEY CREEK NEAR CONFLUENCE WITH LAKE MCCLURE, ABOUT 1.6 AIR MILES SOUTHWEST OF GRANITE SPRINGS.

Detailed Location: MAPPED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 10 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: NE-FACING ASPECT, 75-100% SLOPE, ROCKY LOAMY SOIL, MIXED INTERIOR LIVE OAK SCRUB. ASSOCIATED WITH QUERCUS WISLIZENI, PINUS SABINIANA, TOXICODENDRON DIVERSILOBUM, HETEROMELES ARBUTIFOLIA, MADIA, CALOCHORTUS ALBUS, TORILIS ARVENSIS, ETC.

General: 5000 PLANTS OBSERVED IN 2010.

Owner/Manager: MERCED IRR DIST, BLM, PVT

Occurrence No.	65	Map Index:	90092	EO Index:	91104	Element Last Seen:	2010-06-04
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-06-04	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-16	

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.67789 / -120.30594	Accuracy:	specific area
UTM:	Zone-10 N4173493 E737583	Elevation (ft):	900
PLSS:	T03S, R15E, Sec. 15, N (M)	Acres:	2.0

Location: EITHER SIDE OF PINEY CREEK NEAR CONFLUENCE WITH LAKE MCCLURE, ABOUT 1.7 AIR MILES SSW OF GRANITE SPRINGS.

Detailed Location: 3 POLYGONS MAPPED NEAR THE CENTER OF THE NORTH 1/2 OF SECTION 15 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: W AND NE-FACING ASPECT, 75-100% SLOPE. ROCKY LOAM SOILS. ASSOCIATED WITH PINUS SABINIANA, QUERCUS WISLIZENI, AVENA FATUA, CHORIZANTHE MEMBRANACEA, ADENOSTOMA FASCICULATUM, TOXICODENDRON DIVERSILOBUM, HETEROMELES ARBUTIFOLIA, ETC.

General: 525 PLANTS SEEN IN WESTERN POLYGON, 25 PLANTS SEEN IN MIDDLE POLYGON, AND 10 PLANTS SEEN IN EASTERN POLYGON IN 2010.

Owner/Manager: BLM



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Occurrence No.	66	Map Index:	90093	EO Index:	91106	Element Last Seen:	2010-06-02
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-06-02	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-16	
Quad Summary:	Penon Blanco Peak (3712063)						
County Summary:	Mariposa						
Lat/Long:	37.67395 / -120.30210			Accuracy:	specific area		
UTM:	Zone-10 N4173066 E737934			Elevation (ft):	900		
PLSS:	T03S, R15E, Sec. 15, E (M)			Acres:	2.0		
Location:	EITHER SIDE OF PINEY CREEK NEAR CONFLUENCE WITH LAKE MCCLURE, ABOUT 1 AND 1.2 AIR MILES NORTHEAST OF DIAMOND MINE.						
Detailed Location:	3 POLYGONS MAPPED NEAR THE CENTER OF THE EAST 1/2 OF SECTION 15 ACCORDING TO 2010 COORDINATES FROM HDR INC.						
Ecological:	NE AND W-FACING ASPECT, 75-100% SLOPES. ROCKY LOAM SOILS, BARE ROCKY AREAS, MIXED INTERIOR LIVE OAK SCRUB. ASSOC W/ QUERCUS WISLIZENI, PINUS SABINIANA, ADENOSTOMA FASCICULATUM, HETEROMELES ARBUTIFOLIA, TOXICODENDRON DIVERSILOBUM, ETC.						
General:	50 PLANTS SEEN IN NORTHERN POLYGON, 500 PLANTS SEEN IN MIDDLE POLYGON, AND 15,000 PLANTS SEEN IN SOUTHERN POLYGON IN 2010.						
Owner/Manager:	MERCED IRR DIST, BLM, PVT						

Occurrence No.	67	Map Index:	90095	EO Index:	91107	Element Last Seen:	2010-06-02
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-06-02	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-16	
Quad Summary:	Penon Blanco Peak (3712063)						
County Summary:	Mariposa						
Lat/Long:	37.66591 / -120.30054			Accuracy:	specific area		
UTM:	Zone-10 N4172177 E738098			Elevation (ft):	900		
PLSS:	T03S, R15E, Sec. 22, NE (M)			Acres:	6.0		
Location:	EITHER SIDE OF PINEY CREEK NEAR CONFLUENCE WITH LAKE MCCLURE, FROM 2.1 TO 2.6 AIR MILES SOUTH OF GRANITE SPRINGS.						
Detailed Location:	SEVERAL POLYGONS MAPPED IN THE SW 1/4 OF SECTION 14, THE SE 1/4 OF SECTION 15, THE NE 1/4 OF SECTION 22, AND THE NW 1/4 OF SECTION 23 ACCORDING TO 2010 COORDINATES FROM HDR INC.						
Ecological:	ROCKY LOAM SOILS, MIXED INTERIOR LIVE OAK WOODLAND. ASSOCIATED WITH QUERCUS DOUGLASII, Q. WISLIZENI, PINUS SABINIANA, HETEROMELES ARBUTIFOLIA, TOXICODENDRON DIVERSILOBUM, NON-NATIVE ANNUAL GRASSES, ADENOSTOMA FASCICULATUM, ETC.						
General:	225 PLANTS OBSERVED ON EASTERN SIDE OF RIVER AND 435 PLANTS OBSERVED ON WESTERN SIDE OF RIVER IN 2010.						
Owner/Manager:	MERCED IRR DIST, BLM, PVT						



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Occurrence No.	68	Map Index: 90096	EO Index: 91108	Element Last Seen:	2010-06-01
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-06-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-16

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.66360 / -120.29101	Accuracy:	specific area
UTM:	Zone-10 N4171945 E738946	Elevation (ft):	950
PLSS:	T03S, R15E, Sec. 23, NW (M)	Acres:	1.0

Location: NORTH SIDE OF LAKE MCCLURE, APPROXIMATELY 0.55 AIR MILE WEST OF BRUSCHI MINE.

Detailed Location: MAPPED IN THE NE 1/4 OF THE NW 1/4 OF SECTION 23 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: W-FACING ASPECT, 100% SLOPE, ROCKY LOAM SOIL, BLUE OAK/DIGGER PINE WOODLAND. ASSOCIATED WITH QUERCUS DOUGLASII, PINUS SABINIANA, TOXICODENDRON DIVERSILOBUM, HETEROMELES ARBUTIFOLIA, ADENOSTOMA FASCICULATUM, AND NON-NATIVE ANNUAL GRASSES.

General: 1 PLANT OBSERVED IN 2010.

Owner/Manager: BLM

Occurrence No.	69	Map Index: 90097	EO Index: 91109	Element Last Seen:	2010-06-04
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-06-04
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-16

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.65640 / -120.29632	Accuracy:	specific area
UTM:	Zone-10 N4171132 E738501	Elevation (ft):	850
PLSS:	T03S, R15E, Sec. 23, SW (M)	Acres:	1.0

Location: WEST SIDE OF LAKE MCCLURE, APPROXIMATELY 0.9 AIR MILE EAST OF OAK MESA MINE.

Detailed Location: MAPPED IN THE NW 1/4 OF THE SW 1/4 OF SECTION 23 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: E-FACING ASPECT, 75-100% SLOPE, ROCKY LOAM SOILS, MIXED INTERIOR LIVE OAK SCRUB. ASSOCIATED WITH QUERCUS WISLIZENI, Q. DOUGLASII, PINUS SABINIANA, HETEROMELES ARBUTIFOLIA, TOXICODENDRON DIVERSILOBUM, ADENOSTOMA FASCICULATUM, ETC.

General: 1 PLANT OBSERVED IN 2010.

Owner/Manager: MERCED IRRIGATION DISTRICT



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Occurrence No.	70	Map Index: 90098	EO Index: 91110	Element Last Seen:	2010-06-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-06-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-16

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.65530 / -120.28255	Accuracy:	specific area
UTM:	Zone-10 N4171045 E739719	Elevation (ft):	950
PLSS:	T03S, R15E, Sec. 23, SE (M)	Acres:	1.0

Location: SOUTH SIDE OF LAKE MCCLURE, APPROXIMATELY 0.6 AIR MILE SOUTH OF BRUSCHI MINE.

Detailed Location: MAPPED NEAR THE CENTER OF THE SE 1/4 OF SECTION 23 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: OPENINGS IN N-FACING GREY PINE/INTERIOR LIVE OAK STAND WITH HIGH COVER OF POISON OAK, TOYON, CEANOTHUS CUNEATUS, AND ANNUAL GRASSLAND UNDERSTORY.

General: 250 PLANTS OBSERVED IN 2010.

Owner/Manager: MERCED IRRIGATION DIST, PVT

Occurrence No.	71	Map Index: 90099	EO Index: 91111	Element Last Seen:	2010-06-15
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-06-15
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-16

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.66293 / -120.27870	Accuracy:	specific area
UTM:	Zone-10 N4171902 E740034	Elevation (ft):	900
PLSS:	T03S, R15E, Sec. 24, NW (M)	Acres:	1.0

Location: NORTH SIDE OF LAKE MCCLURE, JUST SOUTHEAST OF BRUSCHI MINE, ABOUT 1.4 AIR MILES WNW OF JASPER POINT.

Detailed Location: MAPPED ON THE WESTERN EDGE OF THE NW 1/4 OF SECTION 24 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: NW-FACING ASPECT, 100% SLOPE, ROCKY LOAM SOIL, ROCKY BARE SUBSTRATE. NON-NATIVE ANNUAL GRASSLAND, CHAMISE CHAPARRAL, BLUE OAK/DIGGER PINE WOODLAND. ASSOC W/ QUERCUS DOUGLASII, Q. WISLIZENI, PINUS SABINIANA, ADENOSTOMA FASCICULATUM, ETC.

General: 1000 PLANTS OBSERVED IN 2010.

Owner/Manager: MERCED IRR DIST, BLM, PVT



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Occurrence No.	72	Map Index: 90100	EO Index: 91112	Element Last Seen:	2010-06-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-06-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-16

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.65414 / -120.27402	Accuracy:	specific area
UTM:	Zone-10 N4170938 E740476	Elevation (ft):	850
PLSS:	T03S, R15E, Sec. 24, S (M)	Acres:	3.0

Location: SOUTH SIDE OF LAKE MCCLURE, FROM 0.9 TO 1.4 AIR MILES WSW OF JASPER POINT.

Detailed Location: 4 POLYGONS MAPPED ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: ROCKY, N-FACING SLOPES NEAR HIGH WATER MARK. CISMONTANE WOODLAND WITH CHAPARRAL IN OPENINGS. ASSOCIATED WITH BUCKEYE, TOYON, POISON OAK, INTERIOR LIVE OAK, CHAMISE, AND ANNUAL GRASSES.

General: 5000 PLANTS OBSERVED IN EASTERN POLYGON AND 500 PLANTS OBSERVED IN 3 WESTERN POLYGONS COMBINED IN 2010.

Owner/Manager: MERCED IRRIGATION DIST, BLM

Occurrence No.	73	Map Index: 90101	EO Index: 91114	Element Last Seen:	2010-06-25
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-06-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-16

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.65777 / -120.25671	Accuracy:	specific area
UTM:	Zone-10 N4171386 E741991	Elevation (ft):	900
PLSS:	T03S, R16E, Sec. 19, SW (M)	Acres:	4.0

Location: SOUTH SIDE OF LAKE MCCLURE IN VICINITY OF JASPER POINT, FROM 1.7 TO 2.2 AIR MILES NORTHEAST OF BARRETT.

Detailed Location: 6 POLYGONS MAPPED IN THE SW 1/4 OF SECTION 19 AND THE EASTERN BORDER OF THE SE 1/4 OF SECTION 24 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: ROCKY OPENINGS, ADJACENT TO SMALL RIPARIAN AREA, GRASSLAND OPENINGS. CISMONTANE WOODLAND/CHAPARRAL, UNDER GREY PINE/CHAMISE UPLANDS AND ANNUAL GRASS UNDERSTORY. ASSOCIATED WITH ADENOSTOMA FASCICULATUM, AVENA BARBATA, AND PINUS SABINIANA.

General: 3010 PLANTS OBSERVED IN 2010.

Owner/Manager: MERCED IRR DIST, BLM, PVT



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Occurrence No.	74	Map Index: 90103	EO Index: 91116	Element Last Seen:	2010-06-16
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-06-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-16

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.66325 / -120.25709	Accuracy:	specific area
UTM:	Zone-10 N4171993 E741940	Elevation (ft):	900
PLSS:	T03S, R16E, Sec. 19, NW (M)	Acres:	1.0

Location: NORTH SIDE OF LAKE MCCLURE, OPPOSITE OF JASPER POINT, APPROXIMATELY 1.3 AIR MILES EAST OF BRUSCHI MINE.

Detailed Location: MAPPED IN THE SW 1/4 OF THE NW 1/4 OF SECTION 19 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: STEEP W ASPECT IN NON-NATIVE GRASSLAND AND OPENINGS IN ADENOSTOMA FASCICULATUM DOMINATED CHAPARRAL WITH NON-NATIVE GRASSES/FORBS SUCH AS AVENA FATUA, BROMUS DIANDRUS, AND CENTAUREA MELITENSIS.

General: 200 PLANTS OBSERVED IN 2010.

Owner/Manager: BLM

Occurrence No.	75	Map Index: 90104	EO Index: 91117	Element Last Seen:	2010-06-16
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-06-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-16

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.66657 / -120.25338	Accuracy:	specific area
UTM:	Zone-10 N4172371 E742256	Elevation (ft):	900
PLSS:	T03S, R16E, Sec. 19, NW (M)	Acres:	1.0

Location: NORTH SIDE OF LAKE MCCLURE, OPPOSITE OF JASPER POINT, APPROXIMATELY 2.5 AIR MILES SOUTH OF BULL PINE MINE.

Detailed Location: MAPPED IN THE NE 1/4 OF THE NW 1/4 OF SECTION 19 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: NE-FACING ASPECT, 100% SLOPE, ROCKY LOAM SOILS. MIXED INTERIOR LIVE OAK SCRUB, CHAMISE CHAPARRAL. ASSOCIATED WITH QUERCUS WISLIZENI, PINUS SABINIANA, ADENOSTOMA FASCICULATUM, TOXICODENDRON DIVERSILOBUM, CEANOTHUS CUNEATUS, ETC.

General: 1000 PLANTS OBSERVED IN 2010.

Owner/Manager: BLM, PVT



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Occurrence No.	76	Map Index:	90106	EO Index:	91118	Element Last Seen:	2010-06-17
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-06-17	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-16	

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.67265 / -120.25214	Accuracy:	specific area
UTM:	Zone-10 N4173049 E742346	Elevation (ft):	900
PLSS:	T03S, R16E, Sec. 18, SW (M)	Acres:	1.0

Location: RANCHO DEL ORO GULCH, JUST WEST OF CONFLUENCE WITH LAKE MCCLURE, ABOUT 1.7 AIR MILES ENE OF BRUSCHI MINE.

Detailed Location: 2 POLYGONS MAPPED IN THE NE 1/4 OF THE SW 1/4 OF SECTION 18 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: N-FACING ASPECT, 75-100% SLOPE, ROCKY LOAM SOILS WITH EXPOSED ROCK, CHAMISE CHAPARRAL, RUDERAL HERBACEOUS. ASSOCIATED WITH ADENOSTOMA FASCICULATUM, LOTUS SCOPARIUS, CARDUUS PYCNOCEPHALUS, HELIANTHEMUM SUFFRUTESCENS, TRIFOLIUM HIRTUM, ETC.

General: 600 PLANTS OBSERVED IN WESTERN POLYGON AND 300 PLANTS OBSERVED IN EASTERN POLYGON IN 2010.

Owner/Manager: BLM

Occurrence No.	77	Map Index:	90108	EO Index:	91120	Element Last Seen:	2013-03-18
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2013-03-18	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-16	

Quad Summary: Chinese Camp (3712074), Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.86350 / -120.46885	Accuracy:	nonspecific area
UTM:	Zone-10 N4193691 E722656	Elevation (ft):	1200
PLSS:	T01S, R14E, Sec. 07, NE (M)	Acres:	137.0

Location: NORTH SERPENTINE LOOP, SOUTHWEST OF CHINESE CAMP, RED HILLS ENVIRONMENTAL AREA.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB ALONG N SERPENTINE LOOP RD.

Ecological: NEAR STREAM IN OPEN CHAPARRAL, SERPENTINE. DIGGER PINE.

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS A 2013 PAWEK PHOTO. A 2006 COLLECTION BY NELSON FROM "0.5 MI FROM RED HILLS RD, CHINESE CAMP, SEC 7" AND A 2012 PAWEK PHOTO FROM "SERPENTINE LOOP DIRT ROAD, 1270 FT" ARE ALSO ATTRIBUTED HERE.

Owner/Manager: BLM



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Occurrence No.	78	Map Index:	90110	EO Index:	91122	Element Last Seen:	2012-05-25
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2012-05-25	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-16	

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.83745 / -120.46083	Accuracy:	nonspecific area
UTM:	Zone-10 N4190819 E723441	Elevation (ft):	1200
PLSS:	T01S, R14E, Sec. 20, N (M)	Acres:	126.0

Location: OVERLOOK TRAIL, RED HILLS ENDANGERED ENVIRONMENTAL AREA.
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB ALONG THE OVERLOOK LOOP TRAIL.
Ecological: OPEN CHAPARRAL.
General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 2012 PHOTO BY PAWEK IN CALPHOTOS.
Owner/Manager: BLM

Clarkia rostrata **Element Code:** PDONA050Y0
 beaked clarkia

Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G2G3
	State: None		State: S2S3
Habitat:	Other: Rare Plant Rank - 1B.3, BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden		
	General: CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.		
	Micro: NORTH-FACING SLOPES; SOMETIMES ON SANDSTONE. 60-500 M.		

Occurrence No.	6	Map Index:	43378	EO Index:	50480	Element Last Seen:	1937-05-04
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1937-05-04	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2003-03-06	

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.59165 / -120.43838	Accuracy:	1 mile
UTM:	Zone-10 N4163594 E726164	Elevation (ft):	320
PLSS:	T04S, R14E, Sec. 16 (M)	Acres:	0.0

Location: 5 MILES NORTH OF SNELLING.
Detailed Location: EXACT LOCATION NOT KNOWN; MAPPED TO INCLUDE AREA ALONG COUNTY ROAD I-59, BETWEEN DRY CREEK AND STAMER COUNTY LINE.
Ecological:
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1937 COLLECTION BY HOOVER, NEEDS FIELDWORK.
Owner/Manager: UNKNOWN



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Occurrence No.	9	Map Index: 13206	EO Index: 13832	Element Last Seen: 1977-06-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1977-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2010-07-08
Quad Summary:	Cooperstown (3712065)			
County Summary:	Stanislaus			
Lat/Long:	37.65356 / -120.57022		Accuracy: specific area	
UTM:	Zone-10 N4170155 E714344		Elevation (ft): 250	
PLSS:	T03S, R13E, Sec. 20, SW (M)		Acres: 38.9	
Location:	SALTER GULCH, ABOUT 1.6 AIR MILES NORTH OF NORTH BOUNDARY OF TURLOCK LAKE STATE PARK.			
Detailed Location:	MAPPED IN THE SW 1/4 OF SECTION 20, THE NW 1/4 OF THE NW 1/4 OF SECTION 29, AND THE NE 1/4 OF THE NE 1/4 OF SECTION 30.			
Ecological:	BLUFFS ALONG GULCH IN VALLEY GRASSLAND-FOOTHILL WOODLAND ON LIGHT, SANDY SOIL. ASSOCIATED WITH CLARKIA UNGUICULATA, COLLINSIA HETEROPHYLLA, THYSANOCARPUS CURVIPES, AND LAYIA PENTACHAETA.			
General:	SEVERAL SMALL COLONIES SEEN IN 1977.			
Owner/Manager:	PVT			
Occurrence No.	10	Map Index: 13249	EO Index: 17786	Element Last Seen: 1977-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1977-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2010-07-07
Quad Summary:	Cooperstown (3712065)			
County Summary:	Stanislaus			
Lat/Long:	37.73567 / -120.55215		Accuracy: specific area	
UTM:	Zone-10 N4179308 E715700		Elevation (ft): 250	
PLSS:	T02S, R13E, Sec. 28, NW (M)		Acres: 10.0	
Location:	ABOUT 0.6 AIR MILE SOUTHWEST OF COOPERSTOWN ON NORTHERN TRIBUTARY TO DRY CREEK.			
Detailed Location:	MAPPED ALONG BENDS OF UNNAMED TRIBUTARY TO DRY CREEK. 2 COLONIES WITHIN THE W 1/2 OF THE NW 1/4 OF SECTION 28.			
Ecological:				
General:	UNKNOWN NUMBER OF PLANTS OBSERVED IN 1977. MAP DETAIL IS THE ONLY SOURCE OF INFORMATION FOR THIS SITE, NEEDS FIELDWORK. INCLUDES FORMER OCCURRENCE #12.			
Owner/Manager:	PVT			
Occurrence No.	11	Map Index: 13160	EO Index: 13833	Element Last Seen: 1977-XX-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1977-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1995-02-23
Quad Summary:	Cooperstown (3712065)			
County Summary:	Stanislaus			
Lat/Long:	37.70862 / -120.59772		Accuracy: specific area	
UTM:	Zone-10 N4176202 E711761		Elevation (ft): 200	
PLSS:	T03S, R12E, Sec. 01, NE (M)		Acres: 62.0	
Location:	ABOUT 1.7 AIR MILES N-NNE OF JCT CRABTREE RD AND BARNETT RD, ALONG TRIBUTARY TO DRY CREEK.			
Detailed Location:				
Ecological:	ON TUFFACEOUS OUTCROPS ALONG STREAM.			
General:	SEVERAL COLONIES SEEN IN 1977.			
Owner/Manager:	PVT			



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Occurrence No.	13	Map Index:	13220	EO Index:	13179	Element Last Seen:	1988-04-08
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		1988-04-08	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2010-07-07	

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.73262 / -120.56779	Accuracy:	specific area
UTM:	Zone-10 N4178935 E714330	Elevation (ft):	250
PLSS:	T02S, R13E, Sec. 29, W (M)	Acres:	17.0

Location: DRY CREEK EAST OF CONFLUENCE WITH NORTH FORK DRY CREEK, ABOUT 1.4 AIR MILES SOUTHWEST OF COOPERSTOWN.

Detailed Location: 5 COLONIES ALONG DRY CREEK 0.2-0.6 MILES EAST OF JUNCTION WITH NORTH FORK DRY CREEK, MAPPED BY CNDDDB AS 2 POLYGONS. ADDITIONAL COLONY ABOUT 0.1 MILE NORTHWEST ON NORTH FORK DRY CREEK; STEEP NORTH-FACING SLOPE AT CONFLUENCE WITH TRIBUTARY.

Ecological: VALLEY GRASSLAND/FOOTHILL WOODLAND ON ROCKY AND LIGHT SANDY SOIL. ASSOCIATED WITH CLARKIA UNGUICULATA, COLLINSIA HETEROPHYLLA, LAYIA PENTACHAETA, PLECTRITIS SPP., AND THYSANOCARPUS CURVIPES.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN EASTERN AND CENTRAL POLYGONS IN 1977. 100 PLANTS OBSERVED IN NORTHWESTERN POLYGON IN 1988.

Owner/Manager: PVT

Occurrence No.	14	Map Index:	13187	EO Index:	13831	Element Last Seen:	1977-06-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1977-06-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2010-07-08	

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.72396 / -120.58032	Accuracy:	specific area
UTM:	Zone-10 N4177944 E713251	Elevation (ft):	200
PLSS:	T02S, R13E, Sec. 31, N (M)	Acres:	102.3

Location: ALONG DRY CREEK 1.1 AIR MILES SE OF WARNERVILLE.

Detailed Location: SEVERAL COLONIES MAPPED BY CNDDDB AS ONE POLYGON IN THE SW 1/4 OF THE SE 1/4 OF SECTION 30 AND THE N 1/2 OF SECTION 31.

Ecological: VALLEY GRASSLAND/FOOTHILL WOODLAND ON ROCKY AND LIGHT SOILS AND SANDY NORTH SLOPES IN OPEN AREAS.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 1977. NEEDS POPULATION INFORMATION.

Owner/Manager: PVT



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Occurrence No.	15	Map Index: 13207	EO Index: 6004	Element Last Seen:	1977-06-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1977-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2010-07-07

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.72707 / -120.57062	Accuracy:	80 meters
UTM:	Zone-10 N4178312 E714096	Elevation (ft):	250
PLSS:	T02S, R13E, Sec. 29, SW (M)	Acres:	0.0

Location: ALONG AN UNNAMED TRIBUTARY TO DRY CREEK, ABOUT 1.8 AIR MILES SOUTHWEST OF COOPERSTOWN.

Detailed Location: ALONG INTERMITTENT CREEK 700 METERS SOUTH OF CONFLUENCE OF DRY CREEK AND NORTH FORK DRY CREEK. MAPPED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 29.

Ecological: VALLEY GRASSLAND/FOOTHILL WOODLAND ON LIGHT SANDY OR ROCKY SOILS ON NORTH SLOPES IN OPEN AREAS. ASSOCIATED WITH CLARKIA UNGUICULATA, COLLINSIA HETEROPHYLLA, LAYIA PENTACHAETA, PLECTRITIS SPP., AND THYSANOCARPUS CURVIPES.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 1977. NEEDS POPULATION INFO.

Owner/Manager: PVT

Occurrence No.	18	Map Index: 25509	EO Index: 11803	Element Last Seen:	1988-04-08
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	1988-04-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1994-02-22

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.74246 / -120.56697	Accuracy:	specific area
UTM:	Zone-10 N4180028 E714374	Elevation (ft):	240
PLSS:	T02S, R13E, Sec. 20, SW (M)	Acres:	9.8

Location: ALONG THE NORTH FORK OF DRY CREEK ABOUT 0.2 MILE NORTH TO 0.4 MILE NORTHEAST OF THE WARNERVILLE ROAD BRIDGE.

Detailed Location:

Ecological: UPPERMOST PORTION OF STEEP, NORTH-FACING BANK IN ANNUAL GRASSLAND. ASSOCIATED WITH AMSINCKIA MENZIESII, ERIOGONUM NUDUM, TRITELLIA LAXA, T. HYACINTHINA, POA SCABRELLA, LAYIA FREMONTII, ALLIUM HYALINUM, AND CLARKIA PURPUREA.

General: MORE THAN 200 PLANTS OBSERVED IN THREE COLONIES IN 1988. STONE SPECULATES THAT POPULATION MIGHT EXPAND BEYOND STEEP BANKS IF SEASONALITY OF GRAZING IS ADJUSTED.

Owner/Manager: PVT



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Occurrence No.	21	Map Index: 50436	EO Index: 50436	Element Last Seen:	2010-06-17
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-06-17
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-19

Quad Summary: Merced Falls (3712053), Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.62387 / -120.28246	Accuracy:	specific area
UTM:	Zone-10 N4167558 E739828	Elevation (ft):	1000
PLSS:	T03S, R15E, Sec. 35, E (M)	Acres:	34.0

Location: CEMETERY RIDGE, BETWEEN 1.7 AND 2.4 AIR MILES NORTHEAST OF WEBB STATION, WEST SIDE OF LAKE MCCLURE.

Detailed Location: PLANTS ALSO FOUND ON SLOPES NORTHWEST OF CEMETERY RIDGE AND ON AN ISLAND WITHIN LAKE MCCLURE. 8 POLYGONS MAPPED ACCORDING TO AN UNDATED MAP BY FRANKLIN AND 2010 COORDINATES FROM HDR INC.

Ecological: BLUE OAK SAVANNAH DOMINATED BY NON-NATIVE ANNUAL GRASSES. SHALLOW SOILS INDICATED BY EXPOSED BEDROCK. ASSOCIATED WITH QUERCUS DOUGLASII, CEANOTHUS CUNEATUS, TOXICODENDRON DIVERSILOBUM, AVENA BARBATA, BROMUS HORDEACEUS, B. DIANDRUS, ETC.

General: >1000 PLANTS SEEN IN 2 WESTERN POLYGONS, OBSERVATION DATE UNKNOWN. 4850 PLANTS IN REMAINING POLYGONS IN 2010. SURVEYS CONDUCTED AFTER PEAK BLOOMING PERIOD; SPECIES IS LIKELY MORE WIDESPREAD IN THIS AREA.

Owner/Manager: MERCED IRR DIST, BLM, PVT

Occurrence No.	22	Map Index: 50437	EO Index: 50437	Element Last Seen:	2010-05-12
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-05-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-19

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.57444 / -120.28409	Accuracy:	specific area
UTM:	Zone-10 N4162068 E739844	Elevation (ft):	400
PLSS:	T04S, R15E, Sec. 23, E (M)	Acres:	12.0

Location: EITHER SIDE OF MERCED RIVER, FROM 0.6 TO 1.5 AIR MILES SOUTHWEST OF NEW EXCHEQUER DAM, WEST OF JONES FLAT.

Detailed Location: 9 POLYGONS MAPPED IN THE SE 1/4 OF THE SE 1/4 OF SECTION 14 THROUGH THE EAST 1/2 OF SECTION 23 ACCORDING TO UNDATED MAPS BY FRANKLIN AND 2010 COORDINATES FROM HDR INC.

Ecological: BLUE OAK SAVANNAH, ANNUAL GRASSLAND. EXPOSED BEDROCK INDICATING SHALLOW SOILS. ASSOCIATED WITH VICIA SATIVA SSP. NIGRA, AVENA BARBATA, BROMUS DIANDRUS, CARDUUS PYCNOCEPHALUS, PHACELIA CICUTARIA VAR. CICUTARIA, BRASSICA RAPA, ETC.

General: ~310 PLANTS OBSERVED DURING UNDATED FRANKLIN SURVEYS. 152,590 PLANTS OBSERVED IN 2010. INCLUDES FORMER OCCURRENCE #23.

Owner/Manager: MERCED IRR DIST, BLM, PVT



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Occurrence No.	24	Map Index: 50456	EO Index: 50456	Element Last Seen:	2010-05-25
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-05-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-19

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.52886 / -120.28161	Accuracy:	specific area
UTM:	Zone-10 N4157016 E740209	Elevation (ft):	600
PLSS:	T05S, R15E, Sec. 01, W (M)	Acres:	63.0

Location: EITHER SIDE OF MERCED RIVER, BETWEEN 2.8 AND 4.6 AIR MILES SSW OF NEW EXCHEQUER DAM.

Detailed Location: SEVERAL POLYGONS MAPPED THROUGH SECTIONS 35, 36, 1, 2, AND 11 ACCORDING TO MAPS BY FRANKLIN AND 2010 COORDINATES FROM HDR INC.

Ecological: ANNUAL GRASSLAND, OAK WOODLAND, ON SLOPE NEAR DRAINAGE. ASSOC W/ AVENA FATUA, A. BARBATA, BROMUS HORDEACEUS, B. DIANDRUS, CALOCHORTUS LUTEUS, AESCULUS CALIFORNICA, QUERCUS DOUGLASII, PENTAGRAMMA TRIANGULARIS, ESCHSCHOLZIA CAESPITOSA, ETC.

General: POPULATION NUMBERS ARE FOR PARTS OF OCCURRENCE: 75 PLANTS OBSERVED ON AN UNKNOWN DATE, >10,000 PLANTS OBSERVED BETWEEN THIS OCCURRENCE AND EO #34 IN 1997, AND 171,667 PLANTS OBSERVED IN 2010. INCLUDES FORMER EO #S 32 & 33.

Owner/Manager: MERCED IRR DIST, BLM, PVT

Occurrence No.	30	Map Index: 50785	EO Index: 50785	Element Last Seen:	2001-05-03
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2001-05-03
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-03-27

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.56768 / -120.25715	Accuracy:	specific area
UTM:	Zone-10 N4161386 E742245	Elevation (ft):	1200
PLSS:	T04S, R16E, Sec. 19, SW (M)	Acres:	11.5

Location: BLUE MOON MINE, WEST SLOPE OF BULLION HILL, SOUTH OF THE COTTON ARM LAKE MCCLURE.

Detailed Location: ABOUT 1 MI NORTH OF HORNITOS ON THE BEAR VALLEY-HORNITOS RD, TURN LEFT TO CONTINUE NORTH ON DIRT ROAD. TRAVEL ABOUT 1.5 MI TO WHERE ROAD V'S AND TAKE THE WESTERLY UPHILL ALTERNATIVE. MINE IS ABOUT 2.1 MILES NORTH.

Ecological: SAVANNAH WITH QUERCUS DOUGLASII DOMINANT AND CEANOTHUS CUNEATUS AND QUERCUS WISLIZENI THE OTHER TWO PRIMARY WOODY SPECIES.

General: OVER 10,000 PLANTS OBSERVED BY FRANKLIN IN 2001 BETWEEN THIS OCCURRENCE AND OCCURRENCE #31. MOSTLY ON PRIVATE LAND.

Owner/Manager: BLM, PVT



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Occurrence No.	31	Map Index: 50786	EO Index: 50786	Element Last Seen:	2001-05-03
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2001-05-03
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-03-27

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.55713 / -120.25565	Accuracy:	specific area
UTM:	Zone-10 N4160219 E742412	Elevation (ft):	1200
PLSS:	T04S, R16E, Sec. 30, NW (M)	Acres:	11.3

Location: SOUTH OF BULLION HILL, 0.6 MILE SOUTH OF BLUE MOON MINE, SOUTH OF THE COTTON ARM OF LAKE MCCLURE.

Detailed Location: ABOUT 1 MI NORTH OF HORNITOS ON THE BEAR VALLEY-HORNITOS RD, TURN LEFT TO CONTINUE NORTH ON DIRT ROAD. TRAVEL ABOUT 1.5 MI TO WHERE ROAD V'S AND TAKE THE WESTERLY UPHILL ALTERNATIVE. PLANTS ARE FOUND ABOUT 1.5 MI NORTH. 2 COLONIES IN NW1/4.

Ecological: SAVANNAH WITH QUERCUS DOUGLASII DOMINANT AND CEANOTHUS CUNEATUS AND QUERCUS WISLIZENI THE OTHER TWO PRIMARY WOODY SPECIES.

General: OVER 10,000 PLANTS OBSERVED BY FRANKLIN IN 2001 BETWEEN THIS OCCURRENCE AND OCCURRENCE #30. MOSTLY ON PRIVATE LAND.

Owner/Manager: BLM, PVT

Occurrence No.	34	Map Index: 50791	EO Index: 50791	Element Last Seen:	2010-05-12
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2010-05-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-19

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.51703 / -120.30428	Accuracy:	specific area
UTM:	Zone-10 N4155645 E738243	Elevation (ft):	500
PLSS:	T05S, R15E, Sec. 10, N (M)	Acres:	39.0

Location: SOUTH SIDE OF LAKE MCSWAIN, VICINITY OF CEMETERY HILL AND MCSWAIN DAM, 1 TO 2.2 AIR MI ESE OF MERCED FALLS.

Detailed Location: 8 POLYGONS MAPPED ACCORDING TO A 1997 MAP BY FRANKLIN AND 2010 COORDINATES FROM HDR INC.

Ecological: ANNUAL GRASSLAND/OAK WOODLAND. SOILS ARE MOSTLY AUBURN VERY ROCKY LOAMS. ASSOCIATED WITH AVENA FATUA, A. BARBATA, TRIFOLIUM PRATENSE, BROMUS DIANDRUS, HYPOCHAERIS GLABRA, DAUCUS PUSILLUS, QUERCUS DOUGLASII, BROMUS HORDEACEUS, ETC.

General: >10,000 PLANTS OBSERVED IN 1997 BETWEEN THIS OCCURRENCE AND OCCURRENCE #24. 104,706 PLANTS OBSERVED IN 2010. SITE QUALITY WITHIN OCCURRENCE RANGES FROM FAIR TO GOOD.

Owner/Manager: MERCED IRRIGATION DIST, PVT



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Occurrence No.	37	Map Index:	79337	EO Index:	80319	Element Last Seen:	2010-05-24
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-05-24	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-19	

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.63783 / -120.29295	Accuracy:	specific area
UTM:	Zone-10 N4169080 E738858	Elevation (ft):	900
PLSS:	T03S, R15E, Sec. 26 (M)	Acres:	26.0

Location: WEST SIDE OF LAKE MCCLURE, VICINITY OF BARRETT COVE RECREATION AREA, EAST OF KASSABAUM FLATS.

Detailed Location: MANY POLYGONS MAPPED THROUGHOUT SECTION 25 AND THE NORTH 1/2 OF SECTION 35 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: BLUE OAK WOODLAND, GRASSLAND UNDERSTORY OF PRIMARILY NON-NATIVE GRASSES AND FORBS. ASSOCIATED WITH CARDUUS PYCNOCEPHALUS, CENTAUREA MELITENSIS, AND TAENIATHERUM CAPUT-MEDUSAE.

General: 172,505 PLANTS OBSERVED IN 2010.

Owner/Manager: MERCED IRRIGATION DIST, PVT

Occurrence No.	57	Map Index:	90150	EO Index:	91161	Element Last Seen:	2010-06-03
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-06-03	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-20	

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.62028 / -120.26236	Accuracy:	specific area
UTM:	Zone-10 N4167211 E741614	Elevation (ft):	900
PLSS:	T04S, R15E, Sec. 01, NE (M)	Acres:	2.0

Location: EAST SIDE OF LAKE MCCLURE, APPROXIMATELY 2.4 AIR MILES WEST OF IRON DUKE MINE.

Detailed Location: 3 POLYGONS MAPPED IN THE NE 1/4 OF THE NE 1/4 OF SECTION 1 AND THE NW 1/4 OF THE NW 1/4 OF SECTION 6 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: ASSOCIATED WITH BLUE OAK, ANNUAL GRASSES, TOXICODENDRON DIVERSILOBUM, CLARKIA PURPUREA, PINUS SABINIANA, AND GREY PINE.

General: 25 PLANTS OBSERVED IN NORTHERN POLYGON, 10,000 PLANTS OBSERVED IN MIDDLE POLYGON, AND 10 PLANTS OBSERVED IN SOUTHERN POLYGON IN 2010.

Owner/Manager: MERCED IRRIGATION DIST, PVT



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Occurrence No.	58	Map Index:	90151	EO Index:	91162	Element Last Seen:	2010-06-03
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-06-03	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-20	

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.61342 / -120.25669	Accuracy:	specific area
UTM:	Zone-10 N4166464 E742137	Elevation (ft):	900
PLSS:	T04S, R16E, Sec. 06, SW (M)	Acres:	1.0

Location: EAST SIDE OF LAKE MCCLURE, APPROXIMATELY 2.2 AIR MILES WSW OF IRON DUKE MINE.

Detailed Location: MAPPED IN THE NORTH 1/2 OF THE SW 1/4 OF SECTION 6 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: ANNUAL GRASSLAND/BLUE OAK WOODLAND, 30-35 DEGREE SLOPE, NORTHWEST ASPECT. ASSOC W/ AVENA FATUA, A. BARBATA, PINUS SABINIANA, BROMUS DIANDRUS, CLARKIA UNGUICULATA, ASCLEPIAS CALIFORNICA, CENTAUREA MELITENSIS, CARDUUS PYCNOCEPHALUS, ETC.

General: 2000 PLANTS OBSERVED IN 2010.

Owner/Manager: MERCED IRRIGATION DISTRICT

Occurrence No.	59	Map Index:	90152	EO Index:	91164	Element Last Seen:	2010-05-19
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-05-19	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-20	

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.61549 / -120.28077	Accuracy:	specific area
UTM:	Zone-10 N4166632 E740005	Elevation (ft):	900
PLSS:	T04S, R15E, Sec. 02, E (M)	Acres:	1.0

Location: WEST SIDE OF LAKE MCCLURE, BETWEEN CEMETERY RIDGE AND MCCLURE POINT RECREATION AREA, ~1.7 AIR MI ESE OF FORTYNINE GAP.

Detailed Location: 2 POLYGONS MAPPED ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: SLOPES JUST ABOVE HIGH WATER MARK, ASPECT VARIES FROM GENERALLY NORTH TO FLAT, SOUTH TRENDING DRAINAGES. ASSOCIATED WITH LUPINUS MICROCARPUS, GALIUM APARINE, CLARKIA PURPUREA, RIPGUT, & AVENA SP. ITALIAN THISTLE AND TOCALOTE INTERSPERSED.

General: 1000 PLANTS OBSERVED IN 2010.

Owner/Manager: MERCED IRRIGATION DIST, PVT



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California Natural Diversity Database



Occurrence No.	60	Map Index:	90154	EO Index:	91166	Element Last Seen:	2010-05-18
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-05-18	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-28	

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.60893 / -120.27563	Accuracy:	specific area
UTM:	Zone-10 N4165917 E740480	Elevation (ft):	900
PLSS:	T04S, R15E, Sec. 01, SW (M)	Acres:	1.0

Location: MCCLURE POINT RECREATION AREA, ABOUT 0.9 AIR MILE ESE OF VABM WEBB, WEST SIDE OF LAKE MCCLURE.

Detailed Location: THROUGHOUT CAMPGROUND AREAS GENERALLY ON NORTH-FACING SITES BUT ALSO WITHIN DISTURBED CAMPING AREAS. MAPPED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 1 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: AREAS WITH NORTHERLY MICROASPECT, BLUE OAK WOODLAND/ANNUAL GRASSLAND, OPEN TO ~30% CANOPY COVER, 5-20 DEGREE SLOPE, DENSE VEG COVER. ASSOCIATED WITH TUMBLE MUSTARD, AVENA SP., TOCALOTE, ITALIAN THISTLE, AND RIPGUT.

General: 1000 PLANTS OBSERVED IN 2010.

Owner/Manager: MERCED IRRIGATION DIST, BLM

Occurrence No.	61	Map Index:	90155	EO Index:	91167	Element Last Seen:	2010-06-03
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-06-03	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-20	

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.60583 / -120.25986	Accuracy:	specific area
UTM:	Zone-10 N4165613 E741882	Elevation (ft):	850
PLSS:	T04S, R16E, Sec. 07, NW (M)	Acres:	1.0

Location: ISLAND WITHIN LAKE MCCLURE ON NORTH SIDE OF TEMPERANCE ARM, ABOUT 2.6 AIR MILES WSW OF IRON DUKE MINE.

Detailed Location: MAPPED IN THE NW 1/4 OF THE NW 1/4 OF SECTION 7 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: ASSOCIATED WITH BLUE OAK, ANNUAL GRASSES, AND CLARKIA PURPUREA.

General: 50 PLANTS OBSERVED IN 2010.

Owner/Manager: BLM



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Occurrence No.	62	Map Index: 90157	EO Index: 91168	Element Last Seen:	2010-05-18
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-05-18
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-20

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.60362 / -120.28029	Accuracy:	specific area
UTM:	Zone-10 N4165315 E740086	Elevation (ft):	950
PLSS:	T04S, R15E, Sec. 11, NE (M)	Acres:	1.0

Location: WEST SIDE OF LAKE MCCLURE, SOUTH OF MCCLURE POINT RECREATION AREA, ABOUT 1.5 AIR MILES EAST OF WEBB STATION.

Detailed Location: MAPPED IN THE EAST 1/2 OF THE NE 1/4 OF SECTION 11 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: N-FACING ROAD GRADE, FROM TOP OF GRADE TO HIGH WATER LINE, ANNUAL GRASSLAND. OPEN, ~20-30 DEGREE SLOPE, 95% VEG COVER, GENERALLY NORTHERLY SLOPES. ASSOCIATED WITH VICIA, SOFT CHESS, HORSE TAIL, AVENA, DAUCUS, AND BISCUITROOT.

General: 1000 PLANTS OBSERVED IN 2010.

Owner/Manager: MERCED IRRIGATION DISTRICT

Occurrence No.	63	Map Index: 90158	EO Index: 91169	Element Last Seen:	2010-05-17
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-05-17
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-20

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.59678 / -120.28053	Accuracy:	specific area
UTM:	Zone-10 N4164556 E740086	Elevation (ft):	850
PLSS:	T04S, R15E, Sec. 11, SE (M)	Acres:	2.0

Location: WEST SIDE OF LAKE MCCLURE, BETWEEN 0.8 AND 1.1 AIR MILES NNW OF NEW EXCHEQUER DAM.

Detailed Location: 3 POLYGONS MAPPED IN THE EAST 1/2 OF THE SE 1/4 OF SECTION 11 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: E-FACING CUTBANK ABOVE CULVERT DRAINING DOWN TO SPILLWAY. OAK WOODLAND/ANNUAL GRASSLAND, N-FACING SLOPES ALONG STEEP BANKS. ASSOC W/ SAMBUCUS MEXICANA, BLUE OAK, ANNUAL GRASSES, AVENA FATUA, RIPGUT, GITHOPSIS, HORESTAIL, SOFT CHESS, ETC.

General: 100 PLANTS OBSERVED IN NORTHERN POLYGON, 5000 PLANTS OBSERVED IN EASTERN POLYGON, AND 500 PLANTS OBSERVED IN SOUTHERN POLYGON IN 2010.

Owner/Manager: MERCED IRRIGATION DISTRICT



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Occurrence No.	64	Map Index:	90159	EO Index:	91171	Element Last Seen:	2010-06-01
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-06-01	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-20	

Quad Summary: Hornitos (3712052), Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.59191 / -120.25425	Accuracy:	specific area
UTM:	Zone-10 N4164084 E742423	Elevation (ft):	900
PLSS:	T04S, R16E, Sec. 18, NW (M)	Acres:	1.0

Location: BETWEEN TEMPERANCE ARM AND COTTON ARM OF LAKE MCCLURE, APPROXIMATELY 1 AND 1.2 AIR MILES ENE OF NEW EXCHEQUER DAM.

Detailed Location: 2 POLYGONS MAPPED IN THE SW 1/4 OF THE SE 1/4 OF SECTION 7 AND THE NE 1/4 OF THE NW 1/4 OF SECTION 18 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: ALL ASPECTS, BLUE OAK ANNUAL GRASSLAND, 1-15% SLOPE. ASSOCIATED WITH AVENA BARBATA, TRIFOLIUM SP., ANNUAL GRASSES, CALOCHORTUS, BRODIAEA, AND GALIUM SP.

General: 10,000 PLANTS OBSERVED BETWEEN THIS OCCURRENCE AND OCCURRENCE #47 IN 2010.

Owner/Manager: MERCED IRRIGATION DISTRICT

Occurrence No.	65	Map Index:	90160	EO Index:	91172	Element Last Seen:	2010-05-13
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-05-13	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-20	

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.58711 / -120.28149	Accuracy:	specific area
UTM:	Zone-10 N4163480 E740032	Elevation (ft):	600
PLSS:	T04S, R15E, Sec. 14, NE (M)	Acres:	1.0

Location: APPROXIMATELY 0.5 AIR MILE WEST OF NEW EXCHEQUER DAM AND 1.9 AIR MILES SOUTHEAST OF WEBB STATION.

Detailed Location: MAPPED IN THE SE 1/4 OF THE NE 1/4 OF SECTION 14 ACCORDING TO 2010 COORDINATES PROVIDED BY HDR INC. POPULATION EXTENDS BEYOND AREA SURVEYED IN 2010.

Ecological: OPEN BLUE OAK STANDS SLOPING DOWN TO DRAW AND SPILLWAY, DENSER CLARKIA ROSTRATA PATCHES ON NORTH ASPECTS BUT SCATTERED THROUGHOUT. HERBACEOUS LAYER DOMINATED BY EXOTIC ANNUAL GRASSES. ASSOC W/ CARDUUS PYCNOCEPHALUS & CENTAUREA MELITENSIS.

General: 10,000 PLANTS OBSERVED IN 2010.

Owner/Manager: MERCED IRRIGATION DISTRICT



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Occurrence No.	66	Map Index:	90161	EO Index:	91173	Element Last Seen:	2010-05-08
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-05-08	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-20	

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.58135 / -120.27300	Accuracy:	specific area
UTM:	Zone-10 N4162863 E740800	Elevation (ft):	900
PLSS:	T04S, R15E, Sec. 13, SW (M)	Acres:	1.0

Location: SLOPES SOUTH OF NEW EXCHEQUER DAM AND NORTH OF JONES FLAT, ABOUT 1.4 AIR MILES NORTHWEST OF BLUE MOON MINE.

Detailed Location: MAPPED IN THE SE 1/4 OF THE SW 1/4 OF SECTION 13 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: BLUE OAK WOODLAND AND CISMONTANE HARDWOODS MOSAIC. CLARKIA SCATTERED THROUGHOUT OPENINGS AND UNDER LIGHT CANOPY, MOST DENSE WITHIN 100 FT OF HIGH WATER MARK AND ON N-FACING ASPECTS. ASSOC W/ CENTAUREA SOLSTITIALIS, CYNODON DACTYLON, ETC.

General: 10,000 PLANTS OBSERVED BETWEEN THIS OCCURRENCE AND OCCURRENCE #S 67 AND 68 IN 2010.

Owner/Manager: MERCED IRR DIST, BLM, PVT

Occurrence No.	67	Map Index:	90165	EO Index:	91176	Element Last Seen:	2010-05-08
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-05-08	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-20	

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.58040 / -120.25898	Accuracy:	specific area
UTM:	Zone-10 N4162793 E742042	Elevation (ft):	900
PLSS:	T04S, R16E, Sec. 18, SW (M)	Acres:	1.0

Location: SOUTH SIDE OF COTTON ARM OF LAKE MCCLURE, APPROXIMATELY 0.6 AIR MILE ESE OF NEW EXCHEQUER DAM.

Detailed Location: MAPPED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 18 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: BLUE OAK WOODLAND AND CISMONTANE HARDWOODS MOSAIC. CLARKIA SCATTERED THROUGHOUT OPENINGS AND UNDER LIGHT CANOPY, MOST DENSE WITHIN 100 FT OF HIGH WATER MARK AND ON N-FACING ASPECTS. ASSOC W/ CENTAUREA SOLSTITIALIS, CYNODON DACTYLON, ETC.

General: 10,000 PLANTS OBSERVED BETWEEN THIS OCCURRENCE AND OCCURRENCE #S 66 AND 68 IN 2010.

Owner/Manager: MERCED IRRIGATION DISTRICT



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Occurrence No.	68	Map Index:	90166	EO Index:	91177	Element Last Seen:	2010-05-08
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-05-08	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-20	

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.57458 / -120.25154	Accuracy:	specific area
UTM:	Zone-10 N4162167 E742718	Elevation (ft):	850
PLSS:	T04S, R16E, Sec. 19, NE (M)	Acres:	1.0

Location: SOUTH SIDE OF COTTON ARM OF LAKE MCCLURE, APPROXIMATELY 0.3 AIR MILE NORTHEAST OF SUMMIT OF BULLION HILL.

Detailed Location: MAPPED IN THE SW 1/4 OF THE NE 1/4 OF SECTION 19 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: BLUE OAK WOODLAND AND CISMONTANE HARDWOODS MOSAIC. CLARKIA SCATTERED THROUGHOUT OPENINGS AND UNDER LIGHT CANOPY, MOST DENSE WITHIN 100 FT OF HIGH WATER MARK AND ON N-FACING ASPECTS. ASSOC W/ CENTAUREA SOLSTITIALIS, CYNODON DACTYLON, ETC.

General: 10,000 PLANTS OBSERVED BETWEEN THIS OCCURRENCE AND OCCURRENCE #S 66 AND 67 IN 2010.

Owner/Manager: MERCED IRRIGATION DIST, PVT

Occurrence No.	69	Map Index:	90168	EO Index:	91179	Element Last Seen:	2010-05-12
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-05-12	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-20	

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.55730 / -120.28079	Accuracy:	specific area
UTM:	Zone-10 N4160174 E740190	Elevation (ft):	500
PLSS:	T04S, R15E, Sec. 26, NE (M)	Acres:	2.0

Location: WEST SIDE OF MERCED RIVER NEAR MILE 60, APPROXIMATELY 1.5 AIR MILES WSW OF BLUE MOON MINE.

Detailed Location: 3 POLYGONS MAPPED IN THE SE 1/4 OF THE NE 1/4 OF SECTION 26 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: ANNUAL GRASSLAND, BLUE OAK WOODLAND-SAVANNAH, ROCKY OUTCROP. ASSOC W/ AVENA FATUA, A. BARBATA, BROMUS DIANDRUS, B. HORDEACEUS, HYPOCHAERIS GLABRA, ASTER EATONII, CALOCHORTUS VENUSTUS, AESCULUS CALIFORNICA, TOXICODENDRON DIVERSILOBUM, ETC.

General: 1000 PLANTS OBSERVED IN NORTHERN POLYGON, 100 PLANTS OBSERVED IN MIDDLE POLYGON, AND 10,000 PLANTS OBSERVED IN SOUTHERN POLYGON IN 2010.

Owner/Manager: MERCED IRRIGATION DIST, PVT



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Occurrence No.	70	Map Index:	90169	EO Index:	91180	Element Last Seen:	2010-05-05
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-05-05	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-20	

Quad Summary: Merced Falls (3712053)

County Summary: Mariposa

Lat/Long:	37.54808 / -120.28209	Accuracy:	specific area
UTM:	Zone-10 N4159148 E740104	Elevation (ft):	500
PLSS:	T04S, R15E, Sec. 35, NE (M)	Acres:	1.0

Location: WEST SIDE OF MERCED RIVER, APPROXIMATELY 1.9 AIR MILES SOUTHWEST OF BLUE MOON MINE.

Detailed Location: 2 POLYGONS MAPPED IN THE SE 1/4 OF THE SE 1/4 OF SECTION 26 AND THE NE 1/4 OF THE NE 1/4 OF SECTION 35 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: ANNUAL GRASSLAND, OCCUPIED LARGE HILLSIDE AND ENDED AT DRAINAGE. ASSOC W/ AVENA FATUA, A. BARBATA, BROMUS DIANDRUS, TRITELEIA IXIODES, PENTAGRAMMA TRIANGULARIS, VICIA VILLOSA, HYPOCHAERIS GLABRA, BLUE OAK, GREY PINE, CLARKIA PURPUREA, ETC.

General: 75 PLANTS OBSERVED IN NORTHERN POLYGON AND 10,000 PLANTS OBSERVED IN SOUTHERN POLYGON IN 2010.

Owner/Manager: MERCED IRRIGATION DIST, PVT

Occurrence No.	75	Map Index:	90176	EO Index:	91190	Element Last Seen:	2010-06-04
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-06-04	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-21	

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.66357 / -120.29953	Accuracy:	specific area
UTM:	Zone-10 N4171920 E738195	Elevation (ft):	900
PLSS:	T03S, R15E, Sec. 22, NE (M)	Acres:	2.0

Location: WEST SIDE OF LAKE MCCLURE AT SOUTHEAST END OF PINEY RIDGE, APPROXIMATELY 0.9 AIR MILE EAST OF DIAMOND MINE.

Detailed Location: 3 POLYGONS MAPPED IN THE EAST 1/2 OF THE NE 1/4 OF SECTION 22 ACCORDING TO 2010 COORDINATES FROM HDR INC.

Ecological: E AND N-FACING ASPECTS, 75-100% SLOPE. ROCKY LOAM SOIL. ASSOCIATED WITH QUERCUS WISLIZENI, PINUS SABINIANA, ADENOSTOMA FASCICULATUM, CERCOCARPUS BETULOIDES, CEANOTHUS CUNEATUS, HETEROMELES ARBUTIFOLIA, TOXICODENDRON DIVERSILOBUM, ETC.

General: 10 PLANTS OBSERVED IN NORTHERN POLYGON, 50 PLANTS IN MIDDLE POLYGON, AND 25 PLANTS IN SOUTHERN POLYGON IN 2010.

Owner/Manager: MERCED IRRIGATION DISTRICT



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Occurrence No.	76	Map Index: 90177	EO Index: 91191	Element Last Seen:	2010-05-10
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-05-10
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-21

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.65460 / -120.29599	Accuracy:	specific area
UTM:	Zone-10 N4170933 E738536	Elevation (ft):	950
PLSS:	T03S, R15E, Sec. 23, SW (M)	Acres:	1.0

Location: WEST SIDE OF LAKE MCCLURE, APPROXIMATELY 0.9 AIR MILE EAST OF OAK MESA MINE.
Detailed Location: MAPPED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 23 ACCORDING TO 2010 DIGITAL DATA FROM HDR INC.
Ecological: BLUE OAK WOODLAND. CENTAUREA MELITENSIS AND CARDUUS PYCNOCEPHALUS IN THE AREA.
General: 30,000 PLANTS OBSERVED IN 2010.
Owner/Manager: MERCED IRRIGATION DIST, PVT

Occurrence No.	77	Map Index: 90179	EO Index: 91192	Element Last Seen:	2010-06-06
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2010-06-06
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-08-21

Quad Summary: Penon Blanco Peak (3712063)

County Summary: Mariposa

Lat/Long:	37.65276 / -120.27545	Accuracy:	specific area
UTM:	Zone-10 N4170782 E740354	Elevation (ft):	950
PLSS:	T03S, R15E, Sec. 24, SW (M)	Acres:	1.0

Location: SOUTH SIDE OF LAKE MCCLURE, APPROXIMATELY 1.3 AIR MILES WSW OF JASPER POINT.
Detailed Location: MAPPED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 24 ACCORDING TO 2010 COORDINATES FROM HDR INC.
Ecological: GRASSY OPENINGS IN ECOTONES BETWEEN BLUE OAK WOODLAND AND CHAPARRAL/CISMONTANE WOODLAND. ASSOCIATED WITH CEANOETHUS CUNEATUS, BUCKEYE, INTERIOR LIVE OAK, POISON OAK, TOYON, CARDUUS PYCNOCEPHALUS, CENTAUREA SOLSTITIALIS, AND C. MELITENSIS.
General: 250 PLANTS OBSERVED IN 2010.
Owner/Manager: PVT



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Occurrence No.	78	Map Index:	90180	EO Index:	91193	Element Last Seen:	2010-06-04
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2010-06-04	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-08-21	
Quad Summary:	Penon Blanco Peak (3712063)						
County Summary:	Mariposa						
Lat/Long:	37.64190 / -120.27749			Accuracy:	specific area		
UTM:	Zone-10 N4169572 E740209			Elevation (ft):	900		
PLSS:	T03S, R15E, Sec. 25, SW (M)			Acres:	1.0		
Location:	EAST SIDE OF LAKE MCCLURE, OPPOSITE OF BARRETT COVE RECREATION AREA, ABOUT 1.8 AIR MILES SOUTHWEST OF JASPER POINT.						
Detailed Location:	MAPPED IN THE NW 1/4 OF THE SW 1/4 OF SECTION 25 ACCORDING TO 2010 COORDINATES FROM HDR INC.						
Ecological:	BLUE OAK WOODLAND, ANNUAL GRASSLAND, 30 DEGREE SLOPE, NORTHWEST ASPECT. ASSOC W/ AVENA BARBATA, BROMUS DIANDRUS, B. HORDEACEUS, CARDUUS PYCNOCEPHALUS, CLARKIA PURPUREA, ESCHSCHOLZIA CAESPITOSA, TORILIS ARVENSIS, & CENTAUREA MELITENSIS.						
General:	500 PLANTS OBSERVED IN 2010.						
Owner/Manager:	MERCED IRRIGATION DISTRICT						

<i>Castilleja campestris var. succulenta</i>	Element Code:	PDSCR0D3Z1
succulent owl's-clover		
Listing Status:	Federal:	Threatened
	State:	Endangered
	Other:	Rare Plant Rank - 1B,2
Habitat:	General:	VERNAL POOLS.
	Micro:	MOIST PLACES, OFTEN IN ACIDIC SOILS, 50-750 M.
	CNDDB Element Ranks:	Global: G4?T2
		State: S2

Occurrence No.	2	Map Index:	13188	EO Index:	17664	Element Last Seen:	1977-04-16
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1977-04-16	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2010-11-08	
Quad Summary:	Cooperstown (3712065)						
County Summary:	Stanislaus						
Lat/Long:	37.70380 / -120.58137			Accuracy:	1/5 mile		
UTM:	Zone-10 N4175705 E713215			Elevation (ft):	230		
PLSS:	T03S, R13E, Sec. 06, NE (M)			Acres:	0.0		
Location:	NORTH SIDE OF BARNETT ROAD ABOUT 2 MILES NORTHEAST OF JUNCTION WITH CRABTREE ROAD, NORTHWEST OF LA GRANGE.						
Detailed Location:	ROBASCO RANCH, NEAR NE CORNER OF BARNETT RANCH. PLANTS FOUND ABOUT 0.5 MI NW OF RANCH BUILDINGS OFF N SIDE OF BARNETT ROAD. MAPPED ACCORDING TO A VAGUE MAP FROM 1981.						
Ecological:	DRY BED OF VERNAL POOL.						
General:	MAIN SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE A 1975 RUBTZOFF COLLECTION AND A 1977 ALLEN COLLECTION. NEEDS FIELDWORK.						
Owner/Manager:	UNKNOWN						



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Occurrence No.	3	Map Index: 25508	EO Index: 17661	Element Last Seen: 1977-06-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1977-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2008-06-27

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.71948 / -120.53762	Accuracy:	80 meters
UTM:	Zone-10 N4177545 E717028	Elevation (ft):	250
PLSS:	T02S, R13E, Sec. 33, NE (M)	Acres:	0.0

Location: BARNETT RANCH, 1.7 AIR MILES SOUTH OF COOPERSTOWN BETWEEN DRY CREEK AND RYDBERG CREEK.

Detailed Location: NEAR SANDSTONE KNOLL. TWO ADJACENT COLONIES MAPPED JUST EAST OF 289' KNOLL WITHIN THE SE 1/4 NE 1/4 SECTION 33 ACCORDING TO A 1977 BOWIE MAP.

Ecological: VERNAL POOLS ON AMADOR AND REDDING ACID SOILS WITHIN VALLEY GRASSLAND. ASSOCIATED WITH DOWNINGIA SPP, GRATIOLA EBRACTEATA, LASTHENIA FREMONTII, PLAGIOBOTHRYUS STIPITATUS, AND OTHER TYPICAL VERNAL POOL ANNUALS.

General: <50 PLANTS SEEN IN 1977. INCLUDES FORMER EO #20.

Owner/Manager: PVT

Occurrence No.	19	Map Index: 13228	EO Index: 17790	Element Last Seen: 1977-06-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1977-06-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1994-02-21

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.72970 / -120.56285	Accuracy:	80 meters
UTM:	Zone-10 N4178621 E714774	Elevation (ft):	250
PLSS:	T02S, R13E, Sec. 29, SE (M)	Acres:	0.0

Location: BARNETT RANCH, ABOUT 1.6 AIR MILES SOUTHWEST OF COOPERSTOWN, SOUTH OF DRY CREEK.

Detailed Location:

Ecological: AMADOR AND REDDING ACID SOILS IN VERNAL POOL WITHIN VALLEY GRASSLAND. ASSOCIATED WITH DOWNINGIA SPP, GRATIOLA EBRACTEATA, LASTHENIA FREMONTII, PLAGIOBOTHRYUS STIPITATUS, AND OTHER TYPICAL VERNAL POOL ANNUALS.

General: FEWER THAN 100 PLANTS OBSERVED IN 1977.

Owner/Manager: PVT



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California Natural Diversity Database



Occurrence No.	38	Map Index: 25507	EO Index: 5754	Element Last Seen:	1978-04-19
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1978-04-19
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1998-12-11

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.71075 / -120.51156	Accuracy:	2/5 mile
UTM:	Zone-10 N4176637 E719351	Elevation (ft):	300
PLSS:	T02S, R13E, Sec. 35, SW (M)	Acres:	0.0

Location: 2.8 MILES SSE OF COOPERSTOWN.

Detailed Location: COLLECTION LABEL SAYS COLLECTION WAS MADE "2.8 MI SSE OF COOPERSTOWN AT RR JCT". NO RR JCT EXISTS IN THIS VICINITY. DIRECTIONS WERE INTERPRETED TO MEAN 2.8 MILES FROM THE COOPERSTOWN RR JUNCTION ALONG COOPERSTOWN ROAD.

Ecological:

General: ONLY SOURCE OF INFORMATION IS 1978 COLLECTION BY HECKARD. AREA NEEDS TO BE FIELD CHECKED TO DETERMINE ACTUAL SITE OF HECKARD COLLECTION.

Owner/Manager: UNKNOWN

Occurrence No.	61	Map Index: 44058	EO Index: 44058	Element Last Seen:	2000-04-05
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2000-04-05
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2000-10-18

Quad Summary: Merced Falls (3712053)

County Summary: Merced

Lat/Long:	37.54251 / -120.37181	Accuracy:	specific area
UTM:	Zone-10 N4158304 E732195	Elevation (ft):	390
PLSS:	T04S, R14E, Sec. 36, SE (M)	Acres:	5.4

Location: ABOUT 0.7 MILE WEST OF KELSEY RESERVOIR, WNW OF MERCED FALLS AND EAST OF SNELLING.

Detailed Location: TWO COLONIES MAPPED ALONG EITHER SIDE OF DIRT ROAD WITHIN THE NW 1/4 SW 1/4 SECTION 31 AND NE 1/4 SE 1/4 SECTION 36.

Ecological: GROWING IN MODERATELY DEEP VERNAL POOLS WITHIN ANNUAL GRASSLAND. VERNAL POOLS SCATTERED IN THIS VICINITY.

General: 400+ PLANTS OBSERVED IN 5 POOLS IN 2000. LAND APPEARS WELL MANAGED.

Owner/Manager: PVT



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Occurrence No.	91	Map Index: 51921	EO Index: 51921	Element Last Seen:	2001-04-27
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2001-04-27
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-08-01

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.53722 / -120.40075	Accuracy:	specific area
UTM:	Zone-10 N4157646 E729654	Elevation (ft):	400
PLSS:	T04S, R14E, Sec. 35, S (M)	Acres:	19.5

Location: NORTH OF HENDERSON PARK, 0.5-0.6 MI NORTH OF NORTH SIDE FLUME, 1.4-2 MI WEST OF GRANGE ROAD, NORTH OF THE MERCED RIVER.

Detailed Location: MAPPED WITHIN THE S 1/2 OF SECTION 35.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS DIGITAL DATA FROM VOLLMAR. UNKNOWN NUMBER OF PLANTS SEEN IN 2001.

Owner/Manager: PVT-RICHARDSON RANCH

Occurrence No.	92	Map Index: 51923	EO Index: 51923	Element Last Seen:	2001-05-03
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2001-05-03
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-08-01

Quad Summary: Snelling (3712054)

County Summary: Merced

Lat/Long:	37.53926 / -120.37800	Accuracy:	specific area
UTM:	Zone-10 N4157928 E731658	Elevation (ft):	470
PLSS:	T04S, R14E, Sec. 36, SE (M)	Acres:	7.2

Location: WEST OF KELSEY RESERVOIR, 0.5 MI NORTH OF NORTH SIDE FLUME, 2.7 MILES WEST OF GRANGE ROAD, NORTH OF THE MERCED RIVER.

Detailed Location: MAPPED WITHIN THE SW 1/4 OF THE SE 1/4 OF SECTION 36.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS DIGITAL DATA FROM VOLLMAR. UNKNOWN NUMBER OF PLANTS SEEN IN 2001.

Owner/Manager: PVT-KELSEY RANCH



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Occurrence No.	100	Map Index:	89267	EO Index:	90263	Element Last Seen:	2008-04-09
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2008-04-09	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-05-23	
Quad Summary:	Snelling (3712054)						
County Summary:	Merced						
Lat/Long:	37.60435 / -120.43182			Accuracy:	specific area		
UTM:	Zone-10 N4165019 E726704			Elevation (ft):	325		
PLSS:	T04S, R14E, Sec. 09, NE (M)			Acres:	1.0		
Location:	EAST OF COUNTY ROAD J59, ABOUT 2.8 AIR MILES NORTH OF THE INTERSECTION WITH FIELDS ROAD, SOUTH OF LA GRANGE.						
Detailed Location:	2 POLYGONS MAPPED IN THE NW 1/4 OF THE NE 1/4 OF SECTION 9 ACCORDING TO 2008 DIGITAL DATA FROM VOLLMAR CONSULTING.						
Ecological:	VERNAL POOLS. AMADOR LOAM AND HORNITOS GRAVELLY FINE SANDY LOAM.						
General:	5-10 PLANTS OBSERVED IN NORTHERN POLYGON AND AN UNKNOWN NUMBER OF PLANTS OBSERVED IN SOUTHERN POLYGON IN 2008.						
Owner/Manager:	PVT						

Occurrence No.	101	Map Index:	13301	EO Index:	90264	Element Last Seen:	1969-05-03
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1969-05-03	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-05-23	
Quad Summary:	La Grange (3712064), Cooperstown (3712065)						
County Summary:	Stanislaus						
Lat/Long:	37.67599 / -120.50412			Accuracy:	nonspecific area		
UTM:	Zone-10 N4172797 E720109			Elevation (ft):			
PLSS:	T03S, R13E, Sec. 14 (M)			Acres:	80.0		
Location:	LOWER DOMINICI CREEK, 2 MILES WEST OF LA GRANGE.						
Detailed Location:	EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB ALONG PORTION OF LOWER DOMINICI CREEK THAT OCCURS IN A BROAD VALLEY WITH POTENTIAL VERNAL POOL HABITAT.						
Ecological:	BED OF DRIED VERNAL POOL IN VALLEY.						
General:	ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1969 COLLECTION BY ALLEN. NEEDS FIELDWORK.						
Owner/Manager:	UNKNOWN						

Verbena californica		Element Code: PDVER0N050	
Red Hills vervain			
Listing Status:	Federal:	Threatened	CNDDDB Element Ranks:
	State:	Threatened	Global: G2
	Other:	Rare Plant Rank - 1B.1, SB_RSABG-Rancho Santa Ana Botanic Garden, SB_UCBBG-UC Berkeley Botanical Garden	
Habitat:	General:	CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.	
	Micro:	MESIC SITES ON SERPENTINE; USUALLY SERPENTINE SEEPS OR CREEKS. 260-400 M.	



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Occurrence No.	1	Map Index:	13502	EO Index:	20711	Element Last Seen:	1992-06-10
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1992-06-10	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		1995-10-30	
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.83223 / -120.42096			Accuracy:	80 meters		
UTM:	Zone-10 N4190335 E726966			Elevation (ft):	850		
PLSS:	T01S, R14E, Sec. 22, SE (M)			Acres:	0.0		
Location:	RED HILLS; SIX-BIT GULCH.						
Detailed Location:							
Ecological:	NEAR STREAM MARGIN ON SERPENTINE SOIL IN FOOTHILL PINE WOODLAND. ASSOCIATED WITH RHAMNUS, SALIX, CALYCANTHUS, CAREX, AND ANOTHER RARE PLANT, SENECIO CLEVELANDII HETEROPHYLLUS.						
General:	4 PLANTS IN 1981. APPROXIMATELY 200 PLANTS SEEN IN 1992.						
Owner/Manager:	PVT IN BLM-RED HILLS RA						

Occurrence No.	2	Map Index:	90273	EO Index:	7998	Element Last Seen:	2011-06-10
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2011-06-10	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-09-10	
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.85772 / -120.45964			Accuracy:	specific area		
UTM:	Zone-10 N4193071 E723485			Elevation (ft):	1050		
PLSS:	T01S, R14E, Sec. 08, S (M)			Acres:	38.0		
Location:	RED HILLS; ALONG N SERPENTINE LOOP RD JUST WEST OF JUNCTION WITH RED HILLS RD, ~0.5-1.2 AIR MILES WEST OF TAYLOR HILL.						
Detailed Location:	MAPPED ALONG ROAD AND CREEK IN THE SOUTH 1/2 OF SECTION 8 ACCORDING TO A 1981 NACHLINGER MAP AND A 1987 YORK MAP. INCLUDES OBSERVATION FROM "POST 13, NATURE TRAIL, RED HILLS ACEC."						
Ecological:	AT MARGIN OF STREAM ON SERPENTINE SOIL IN FOOTHILL PINE WOODLAND. ASSOCIATED WITH PACKERA LAYNEAE, SENECIO CLEVELANDII, PINUS SABINIANA, CEANOTHUS CUNEATUS, CAREX NUDATA, C. PRAEGRACILIS, C. SERRATODENS, MIMULUS GUTTATUS, ETC.						
General:	ABOUT 440 PLANTS IN 1981, NOT COUNTED IN 1987, 4% COVER OF THIS PLANT IN 2005. COLLECTIONS AND OBSERVATIONS FROM 1936-1938, 1966, 1982, 1984, 1998, 2010, AND 2011 ARE ALSO ATTRIBUTED HERE. INCLUDES FORMER EO #3.						
Owner/Manager:	BLM						



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Occurrence No.	4	Map Index: 13391	EO Index: 3863	Element Last Seen:	2011-09-08
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2011-09-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-09-10

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85137 / -120.46503	Accuracy:	specific area
UTM:	Zone-10 N4192353 E723029	Elevation (ft):	1100
PLSS:	T01S, R14E, Sec. 17, NW (M)	Acres:	20.0

Location: RED HILLS, ALONG S SERPENTINE LOOP RD JUST WEST OF JUNCTION WITH RED HILLS RD, ABOUT 1 AIR MILE WSW OF TAYLOR HILL.

Detailed Location: 2 POLYGONS MAPPED ACCORDING TO A 1981 NACHLINGER MAP AND 2011 COORDINATES FROM FORBES. POPULATION PROBABLY CONTINUES UPSTREAM ON PRIVATE LAND.

Ecological: ALONG STREAM ON SERPENTINE IN FOOTHILL PINE WOODLAND. ASSOCIATED WITH PINUS SABINIANA, CAREX SPP., HELIANTHUS, SENECIO CLEVELANDII, MIMULUS, PANICUM, RHAMNUS, AND TRICHOSTEMA.

General: 55 PLANTS OBSERVED IN WESTERN POLYGON IN 1981. >1000 PLANTS OBSERVED IN WESTERN POLYGON AND 110 PLANTS OBSERVED IN EASTERN POLYGON IN 2011.

Owner/Manager: BLM

Occurrence No.	5	Map Index: 13479	EO Index: 18149	Element Last Seen:	1981-07-15
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1981-07-15
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-08-15

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81595 / -120.42930	Accuracy:	specific area
UTM:	Zone-10 N4188508 E726282	Elevation (ft):	1100
PLSS:	T01S, R14E, Sec. 27, SW (M)	Acres:	39.5

Location: RED HILLS, APPROX 3 AIR MILES SOUTHEAST OF CRIMEA HOUSE, NORTHEAST OF OLD DON PEDRO ROAD.

Detailed Location:

Ecological: ALONG MOIST BANKS AND POOLS OF INTERMITTENT STREAM. ON SERPENTINE SOIL IN FOOTHILL PINE WOODLAND. ASSOCIATED WITH CAREX AND MIMULUS.

General: GREATER THAN 310 PLANTS IN 6 POPULATIONS IN 1981.

Owner/Manager: PVT, BLM



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Occurrence No.	8	Map Index: 13534	EO Index: 17733	Element Last Seen:	2011-09-08
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2011-09-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-09-10

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82897 / -120.40534	Accuracy:	80 meters
UTM:	Zone-10 N4190011 E728351	Elevation (ft):	950
PLSS:	T01S, R14E, Sec. 23, SW (M)	Acres:	0.0

Location: RED HILLS; EAST SIDE OF POOR MANS GULCH, APPROXIMATELY 0.8 AIR MILE SSE OF HUNGRY HILL.

Detailed Location: MAPPED IN THE SE 1/4 OF THE SW 1/4 OF SECTION 23.

Ecological: ALONG GENTLY SLOPED STREAM AND POOL MARGINS ON SERPENTINE SOILS. ASSOCIATED WITH PINUS SABINIANA, CAREX SPP., SALIX, CALYCANTHUS OCCIDENTALIS, RHAMNUS, AND MIMULUS.

General: 6 PLANTS OBSERVED IN 1981. GREATER THAN 1000 PLANTS OBSERVED IN 2011.

Owner/Manager: BLM

Occurrence No.	9	Map Index: 13472	EO Index: 3860	Element Last Seen:	1981-07-16
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1981-07-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2001-10-03

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84440 / -120.43443	Accuracy:	80 meters
UTM:	Zone-10 N4191653 E725743	Elevation (ft):	1000
PLSS:	T01S, R14E, Sec. 16, SE (M)	Acres:	0.0

Location: RED HILLS. SOUTHEAST OF TAYLOR HILL, ABOUT 0.25 MILE NORTH OF CONFLUENCE WITH STREAM IN MINNOW GULCH.

Detailed Location:

Ecological: ALONG STREAM ON SERPENTINE SOIL IN FOOTHILL PINE WOODLAND. ASSOCIATED WITH MIMULUS AND RHAMNUS.

General: 70 PLANTS IN 1981. 1937 COLLECTION BY HOOVER ATTRIBUTED TO THIS SITE.

Owner/Manager: BLM

Occurrence No.	10	Map Index: 13407	EO Index: 16604	Element Last Seen:	1981-07-16
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1981-07-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1992-06-26

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82808 / -120.46053	Accuracy:	80 meters
UTM:	Zone-10 N4189779 E723496	Elevation (ft):	1050
PLSS:	T01S, R14E, Sec. 20, SW (M)	Acres:	0.0

Location: RED HILLS. ALONG DIRT ROAD 0.5 MI SOUTHEST OF LA GRANGE ROAD ON OLD DON PEDRO ROAD.

Detailed Location:

Ecological: ALONG STREAM ON SERPENTINE SOIL IN FOOTHILL PINE WOODLAND. ASSOCIATED WITH CAREX AND RHAMNUS.

General: 55 PLANTS IN 1981.

Owner/Manager: PVT



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Occurrence No.	11	Map Index: 13443	EO Index: 13695	Element Last Seen:	2011-09-08
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2011-09-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-09-16

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81502 / -120.44564	Accuracy:	specific area
UTM:	Zone-10 N4188365 E724846	Elevation (ft):	1150
PLSS:	T01S, R14E, Sec. 28, SW (M)	Acres:	11.1

Location: RED HILLS; ALONG DRAINAGE ON NORTH SIDE OF OLD DON PEDRO ROAD, ABOUT 2 MILES EAST OF LA GRANGE ROAD.

Detailed Location: ALONG DRAINAGE THAT CROSSES ROAD IN THE SW 1/4 OF SECTION 28.

Ecological: ALONG STREAM IN SERPENTINE SOIL IN FOOTHILL PINE WOODLAND. GRADUAL SLOPE, STEEPER IN PLACES. ASSOCIATED WITH QUERCUS DOUGLASII, CAREX SPP., PINUS SABINIANA, SENECIO CLEVELANDII, AND RHAMNUS.

General: 3000-4000 PLANTS SEEN IN 1981, SEVERAL THOUSAND IN 1992, AND >1000 IN 2011. 1984 TAYLOR COLLECTION FROM "RED HILLS, SEC 28" AND TWO 2001 HRUSA COLLECTIONS FROM "IMMEDIATELY N OF OLD SAN PEDRO RD" ARE ALSO ATTRIBUTED TO THIS OCCURRENCE.

Owner/Manager: PVT, BLM

Occurrence No.	12	Map Index: 21577	EO Index: 9007	Element Last Seen:	2011-09-08
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2011-09-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-09-13

Quad Summary: Chinese Camp (3712074), Keystone (3712075)

County Summary: Tuolumne

Lat/Long:	37.86935 / -120.50128	Accuracy:	specific area
UTM:	Zone-10 N4194263 E719786	Elevation (ft):	1100
PLSS:	T01S, R13E, Sec. 11, NE (M)	Acres:	29.0

Location: ANDREW CREEK, EAST OF HWY 108/120, APPROXIMATELY 1.6 AIR MILES SSW OF YOSEMITE JUNCTION.

Detailed Location: 9 POLYGONS MAPPED ACCORDING TO A 1998 MAP BY KNOX. WITHIN THE SE 1/4 OF SECTION 2, THE NE 1/4 OF SECTION 11, AND THE NW 1/4 OF SECTION 12.

Ecological: ON SHALLOW, OPEN/ROCKY SOIL IN WET DRAINAGE ON SERPENTINE WITHIN RIPARIAN AND GRASSLAND COMMUNITIES. ASSOC W/ MIMULUS GUTTATUS, RHAMNUS, EPILOBIUM GLANDULOSUM, SENECIO CLEVELANDII HETEROPHYLLUS, CAREX SPP., JUNCUS SPP., HELIANTHUS, ETC.

General: FEWER THAN 50 PLANTS SEEN IN 1991, SEVERAL THOUSAND REPORTED IN 1992. AT LEAST 530 PLANTS IN 1996, FEWER IN 1997. GREATER THAN 1000 PLANTS OBSERVED IN 2011, ENTIRE SITE NOT SURVEYED. 1938 & 1939 COLLECTIONS BY HOOVER ATTRIBUTED TO SITE.

Owner/Manager: PVT, BLM



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Occurrence No.	13	Map Index: 40460	EO Index: 35467	Element Last Seen:	1995-05-17
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	1995-05-17
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	1998-12-31

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84937 / -120.44580	Accuracy:	80 meters
UTM:	Zone-10 N4192177 E724728	Elevation (ft):	1100
PLSS:	T01S, R14E, Sec. 16, NW (M)	Acres:	0.0

Location: ABOUT 1.5 MI SSW OF CHINESE CAMP, 0.4 MI SOUTH OF SUMMIT OF TAYLOR HILL.

Detailed Location: PLANTS ARE MOSTLY ON THE TRIBUTARY DRAINAGE THAT ENTERS FROM THE NORTH (FROM TAYLOR HILL). AREA INCLUDED AS PART OF BLM ACEC IN 1993.

Ecological: INTERMITTENT DRAINAGE, SERPENTINE/DELPIEDRA SOIL SERIES. RED HILLS RIPARIAN HABITAT WITH RHAMNUS CALIFORNICA TOMENTELLA.

General: 100 PLANTS IN 1995.

Owner/Manager: BLM

Occurrence No.	14	Map Index: 46047	EO Index: 46047	Element Last Seen:	1972-06-19
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	1972-06-19
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2001-10-04

Quad Summary: Chinese Camp (3712074), Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.87088 / -120.43305	Accuracy:	1 mile
UTM:	Zone-10 N4194595 E725784	Elevation (ft):	
PLSS:	T01S, R14E, Sec. 04 (M)	Acres:	0.0

Location: CHINESE CAMP.

Detailed Location:

Ecological: ALONG SMALL BROOK.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1972 COLLECTION BY MOLDENKE & MOLDENKE. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN



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<i>Juncus nodosus</i>		Element Code: PMJUN01210	
knotted rush			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G5
	State: None		State: S3
	Other: Rare Plant Rank - 2B.3		
Habitat:	General: MEADOWS, MARSHES AND SWAMPS.		
	Micro: MESIC SITES AND LAKE MARGINS. 30-1980 M.		

Occurrence No.	6	Map Index:	54730	EO Index:	63878	Element Last Seen:	1969-07-01
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1969-07-01	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2006-01-26		

Quad Summary: La Grange (3712064), Cooperstown (3712065)
County Summary: Stanislaus

Lat/Long:	37.66437 / -120.49650	Accuracy:	nonspecific area
UTM:	Zone-10 N4171526 E720816	Elevation (ft):	280
PLSS:	T03S, R13E, Sec. 24, W (M)	Acres:	93.9

Location: ABOUT 2 MILES WEST OF LA GRANGE, EDGE OF LOWER DOMINICI CREEK.
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDDB AS BEST GUESS ALONG LOWER REACHES OF LOWER DOMINICI CREEK.
Ecological: EDGE OF CREEK.
General: ONLY SOURCE OF OCCURRENCE IS 1969 COLLECTION BY ALLEN. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

<i>Allium tuolumnense</i>		Element Code: PMLIL022W0	
Rawhide Hill onion			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G2
	State: None		State: S2
	Other: Rare Plant Rank - 1B.2, BLM_S-Sensitive		
Habitat:	General: CISMONTANE WOODLAND.		
	Micro: RESTRICTED TO SERPENTINE SOIL, USUALLY IN GREY PINE CHAPARRAL. STEEP, ROCKY, SOUTH-FACING SLOPES OR SMALL DRAINAGES. 300-600 M.		



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Occurrence No.	2	Map Index: 13390	EO Index: 14337	Element Last Seen: 2006-06-23
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 2006-06-23
Occ. Type:	Natural/Native occurrence		Trend: Increasing	Record Last Updated: 2010-07-09

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86570 / -120.47047	Accuracy:	specific area
UTM:	Zone-10 N4193930 E722507	Elevation (ft):	1100
PLSS:	T01S, R14E, Sec. 07 (M)	Acres:	58.0

Location: RED HILLS, JUST WEST OF THE JUNCTION OF RED HILLS ROAD AND SIMS ROAD.

Detailed Location: SEVERAL COLONIES MAPPED BY CNDDDB AS 16 POLYGONS ACROSS SECTIONS 7 AND 8. SITE IS WITHIN THE RED HILLS MANAGEMENT AREA.

Ecological: PLANTS PRIMARILY IN DRY WASHES. ASSOCIATED WITH PINUS SABINIANA AND CEANOTHUS.

General: 1500+ PLANTS SEEN IN 1987. ONE COLONY OF 300 SEEN IN 1993. ALSO ON PRIVATE LAND "ADJ TO SIMS ROAD AND RED HILLS ROAD" (MCNEAL 1978); 2006 NELSON COLLECTION FROM "0.8 MI FROM RED HILLS RD, SEC 7" ATTRIBUTED HERE. INCLUDES FORMER EOS #3-5.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	6	Map Index: 13422	EO Index: 9016	Element Last Seen: 1992-05-05
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1992-05-05
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1993-04-14

Quad Summary: Chinese Camp (3712074), Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.87480 / -120.45946	Accuracy:	specific area
UTM:	Zone-10 N4194966 E723449	Elevation (ft):	1200
PLSS:	T01S, R14E, Sec. 05, S (M)	Acres:	10.4

Location: 0.3-0.6 AIR MI W OF SIMS ROAD, 0.2 MI S OF CHINESE STATION.

Detailed Location:

Ecological: OPEN SAVANNAH (ROCKY SERPENTINE). WITH SCATTERED PINUS SABINIANA, Q. DOUGLASII, CEANOTHUS CUNEATUS, CHLOROGALUM GRANDIFLORUM AND LOMATIUM CONGDONII. YOUNG RED-TAILED HAWKS IN A NEST SEEN IN 1992.

General: 87 PLANTS SEEN IN 1982.

Owner/Manager: PVT

Occurrence No.	7	Map Index: 13460	EO Index: 14338	Element Last Seen: 1984-05-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1984-05-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1995-12-08

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84931 / -120.44007	Accuracy:	specific area
UTM:	Zone-10 N4192184 E725232	Elevation (ft):	1250
PLSS:	T01S, R14E, Sec. 16 (M)	Acres:	150.7

Location: RED HILLS, SOUTH OF TAYLOR HILL.

Detailed Location:

Ecological:

General: 15 POPULATIONS SEEN. RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA



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Occurrence No.	8	Map Index: 13504	EO Index: 9009	Element Last Seen: 1987-05-16
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1987-05-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1995-11-13

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81370 / -120.41894	Accuracy:	80 meters
UTM:	Zone-10 N4188284 E727201	Elevation (ft):	1150
PLSS:	T01S, R14E, Sec. 27, SE (M)	Acres:	0.0

Location: RED HILLS, APPROX 0.25 AIR MILE WEST OF DON PEDRO RESERVOIR NEAR THE CONFLUENCE OF SIX-BIT GULCH.

Detailed Location:

Ecological:

General: 25 PLANTS SEEN IN 1987. WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	9	Map Index: 13449	EO Index: 9010	Element Last Seen: 1984-05-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1984-05-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1995-12-15

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82508 / -120.44266	Accuracy:	specific area
UTM:	Zone-10 N4189489 E725078	Elevation (ft):	1350
PLSS:	T01S, R14E, Sec. 28, NW (M)	Acres:	12.1

Location: RED HILLS, APPROX 2.0 AIR MI ESE OF CRIMEA HOUSE.

Detailed Location:

Ecological:

General: 2 POPULATIONS SEEN: ONE POPULATION APPROX 0.25 MI TO WEST OF MAPPED LOCATION. WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	10	Map Index: 13467	EO Index: 9008	Element Last Seen: 1984-05-XX
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1984-05-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1995-12-15

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82553 / -120.43505	Accuracy:	80 meters
UTM:	Zone-10 N4189557 E725747	Elevation (ft):	1500
PLSS:	T01S, R14E, Sec. 28, NE (M)	Acres:	0.0

Location: RED HILLS, APPROX 2.4 AIR MI ESE OF CRIMEA HOUSE, JUST SOUTH OF ELEVATION MARKER 1529.

Detailed Location:

Ecological: NEAR INTERMITTENT DRAINAGE ON SERPENTINE SUBSTRATE.

General: ONE POPULATION SEEN. WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA



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Occurrence No.	11	Map Index: 13525	EO Index: 14336	Element Last Seen: 1987-05-16
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1987-05-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1995-12-15

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82817 / -120.41133	Accuracy:	specific area
UTM:	Zone-10 N4189908 E727826	Elevation (ft):	1250
PLSS:	T01S, R14E, Sec. 23, SW (M)	Acres:	234.4

Location: RED HILLS, APPROX 0.8 AIR MI SOUTH OF HUNGRY HILL.

Detailed Location:

Ecological:

General: 14 POPULATIONS SEEN. 570 PLANTS COUNTED IN 1987. WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	13	Map Index: 13337	EO Index: 9014	Element Last Seen: 1987-05-16
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1987-05-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1995-12-15

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85225 / -120.49124	Accuracy:	specific area
UTM:	Zone-10 N4192388 E720721	Elevation (ft):	1500
PLSS:	T01S, R13E, Sec. 13, N (M)	Acres:	25.3

Location: RED HILLS, APPROX 1.5 AIR MI NNW OF CRIMEA HOUSE.

Detailed Location:

Ecological: ON SERPENTINE SOIL IN BOTTOMS OF SMALL DRAINAGES. GRASSLAND COMMUNITY.

General: 10 POPULATIONS SEEN IN 1984. 515 PLANTS SEEN IN 1987. WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	14	Map Index: 13409	EO Index: 9011	Element Last Seen: 1987-05-16
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1987-05-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1995-12-15

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85238 / -120.46191	Accuracy:	specific area
UTM:	Zone-10 N4192472 E723302	Elevation (ft):	1250
PLSS:	T01S, R14E, Sec. 17, NW (M)	Acres:	38.1

Location: RED HILLS, APPROX 0.9 AIR MILE WEST OF TAYLOR HILL, ON SOUTH, WEST, AND EAST SLOPES OF SMALL HILL OF 1518 FT.

Detailed Location:

Ecological:

General: 4 POPULATIONS SEEN. 150+ PLANTS SEEN IN 1987. WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA



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Occurrence No.	15	Map Index:	13322	EO Index:	9015	Element Last Seen:	1984-05-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	1984-05-XX		
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	1995-12-15		
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.86204 / -120.49786			Accuracy:	specific area		
UTM:	Zone-10 N4193459 E720109			Elevation (ft):	1250		
PLSS:	T01S, R13E, Sec. 12, SW (M)			Acres:	10.5		
Location:	RED HILLS, 2.2 AIR MI NNW OF CRIMEA HOUSE, APPROX 0.5 MI WSW OF LANDING STRIP.						
Detailed Location:							
Ecological:							
General:	2 POPULATIONS SEEN: ONE POPULATION IS 0.1 MI WEST OF MAPPED LOCATION (ACCORDING TO BSA84R01). 100-200 PLANTS SEEN IN SOUTH HALF OF SECTION 12 ACCORDING TO ROG83R01, IN 1983. WITHIN THE RED HILLS MANAGEMENT AREA.						
Owner/Manager:	BLM-FOLSOM RA						
Occurrence No.	17	Map Index:	13395	EO Index:	21826	Element Last Seen:	1983-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	1987-05-16		
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2004-05-05		
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.82365 / -120.46519			Accuracy:	nonspecific area		
UTM:	Zone-10 N4189277 E723099			Elevation (ft):	1200		
PLSS:	T01S, R14E, Sec. 29, NW (M)			Acres:	43.3		
Location:	APPROX 1 MILE SOUTHEAST OF CRIMEA HOUSE, NORTH OF OLD DON PEDRO ROAD, RED HILLS AREA.						
Detailed Location:	MAPPED ACCORDING TO T-R-S PROVIDED BY ROGERS: NW 1/4 OF NW 1/4 OF SECTION 29 T1S R14E.						
Ecological:							
General:	100 PLANTS SEEN IN 1983. NO PLANTS FOUND IN 1987 SEARCH.						
Owner/Manager:	PVT, BLM-RED HILLS MA						
Occurrence No.	18	Map Index:	13367	EO Index:	9012	Element Last Seen:	1987-05-16
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:	1987-05-16		
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	1995-11-13		
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.84434 / -120.47547			Accuracy:	specific area		
UTM:	Zone-10 N4191548 E722132			Elevation (ft):	1400		
PLSS:	T01S, R14E, Sec. 18, SW (M)			Acres:	19.3		
Location:	RED HILLS, ABOUT 1.0-1.1 AIR MI N-NNW OF CRIMEA HOUSE.						
Detailed Location:	ALSO IN SE 1/4 OF SECTION 13.						
Ecological:	IN GRASSLAND ON SERPENTINE SOIL. WITH PINUS SABINIANA AND CEANOTHUS CUNEATUS.						
General:	MORE THAN 2000 PLANTS IN 1987. OCCURRENCE VERY DENSE. MAPPED AS 4 POLYGONS. INCLUDES FORMER OCCURRENCE #12. WITHIN THE RED HILLS MANAGEMENT AREA.						
Owner/Manager:	BLM-FOLSOM RA						



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Occurrence No.	19	Map Index: 21232	EO Index: 18151	Element Last Seen: 1989-04-25
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen: 1989-04-25
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2010-07-09

Quad Summary: Moccasin (3712073)

County Summary: Tuolumne

Lat/Long:	37.81717 / -120.30663	Accuracy:	80 meters
UTM:	Zone-10 N4188948 E737078	Elevation (ft):	1250
PLSS:	T01S, R15E, Sec. 27, S (M)	Acres:	0.0

Location: ABOUT 0.5 MI NW OF MOCCASIN, 0.1 MILE S OF FIRST HAIRPIN ON THE NEW PRIEST GRADE (HWY 120).

Detailed Location: 0.45 MILE WNW OF INTERSECTION OF HWY 120 AND OLD PRIEST GRADE. ALONG DIRT ACCESS ROAD 100 M BELOW HIGHWAY 120. MAPPED IN THE APPROXIMATE CENTER OF THE SOUTH 1/2 OF SECTION 27.

Ecological: E-FACING SLOPE IN GRAVELLY LOAM DERIVED FROM ULTRABASIC ROCK ASSOC W/ THE MELONES FAULT ZONE. IN SEVERAL DISCRETE COLONIES ON CUT SLOPE OF UNPAVED ROAD IN OPEN WOODLAND-BRUSHLAND OF PINUS SABINIANA, CEANOTHUS CUNEATUS, AND HETEROMELES.

General: 500 PLANTS SEEN IN 1988. UNKNOWN # SEEN IN 1989. POP APPEARS TO BE ON THE UNFENCED BOUNDARY BETWEEN BLM AND PVT LANDS. ROAD IS AN ABANDONED RAILROAD GRADE NOW USED FOR VEHICLE ACCESS BY MAINTENANCE PERSONNEL. 8/92 FIRE BURNED THIS SITE.

Owner/Manager: BLM, PVT

Occurrence No.	25	Map Index: 21237	EO Index: 9013	Element Last Seen: 1992-05-05
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1992-05-05
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1995-11-13

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85682 / -120.48042	Accuracy:	80 meters
UTM:	Zone-10 N4192921 E721659	Elevation (ft):	1250
PLSS:	T01S, R14E, Sec. 07, SW (M)	Acres:	0.0

Location: 2.0 AIR MILES DUE WEST AND SLIGHTLY NORTH OF SUMMIT OF TAYLOR HILL, 0.6 MILE SOUTH OF RAILROAD TRACKS.

Detailed Location:

Ecological: ALONG A SMALL DRAINAGE ON SERPENTINE SOILS. ASSOCIATED WITH LOMATIUM CONGDONII, MELICA CALIFORNICA, CEANOTHUS CUNEATUS, PINUS SABINIANA, GITHOPSIS SP., AND STREPTANTHUS SP.

General: APPROX. 100 PLANTS SEEN IN 1992. WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA



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Occurrence No.	26	Map Index:	30819	EO Index:	3974	Element Last Seen:	1993-05-15
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		1993-05-15	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		1995-02-23	

Quad Summary: Moccasin (3712073)

County Summary: Tuolumne

Lat/Long:	37.83236 / -120.34350	Accuracy:	specific area
UTM:	Zone-10 N4190540 E733784	Elevation (ft):	700
PLSS:	T01S, R15E, Sec. 20, S (M)	Acres:	4.8

Location: ADJACENT TO STENT-MOCCASIN ROAD ABOUT 3 MILES NORTHWEST OF MOCCASIN.
Detailed Location: IMMEDIATELY WEST OF THE ROAD 500 YARDS SOUTH OF BRIDGE OVER DON PEDRO RESERVOIR.
Ecological: ON STEEP BANK OF ROADCUT IN SERPENTINE CHAPARRAL. ASSOCIATED WITH CEANOTHUS CUNEATUS AND LOMATIUM DISSECTUM.
General: 200 PLANTS OBSERVED IN 1993. SITE IS WITHIN COUNTY ROAD RIGHT-OF-WAY.
Owner/Manager: TUO COUNTY

Occurrence No.	27	Map Index:	55371	EO Index:	55371	Element Last Seen:	2000-06-01
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2000-06-01	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2004-05-05	

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81519 / -120.38503	Accuracy:	specific area
UTM:	Zone-10 N4188533 E730181	Elevation (ft):	1300
PLSS:	T01S, R14E, Sec. 25, S (M)	Acres:	2.8

Location: HILLS JUST EAST OF DON PEDRO RESERVOIR, 1.7 MILES JUST SSW OF HWY 49 CROSSING OF RESERVOIR, SOUTHEAST OF CHINESE CAMP.
Detailed Location: MAPPED WITHIN THE SE 1/4 OF THE SW 1/4 AND THE SW 1/4 OF THE SE 1/4 OF SECTION 25.
Ecological: SURROUNDING VEGETATION IS TYPICAL OF THE RED HILLS, CEANOTHUS CUNEATUS CHAPARRAL WITH PINUS SABINIANA. ASSOCIATES INCLUDE MELICA CALIFORNICA, ERIOPHYLLUM LANATUM, MONARDELLA, AND ANTIRRHINUM. SOILS ARE DUNITE AND/OR SERPENTINITE.
General: MORE THAN 300 PLANTS SEEN BY FRANKLIN IN 2000. PLANTS OCCUPIED ABOUT 1 ACRE. AREA SHOULD BE CONSIDERED FOR ADDITION TO THE RED HILLS AREA OF CRITICAL ENVIRONMENTAL CONCERN.
Owner/Manager: BLM



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Occurrence No.	28	Map Index:	79370	EO Index:	80353	Element Last Seen:	2005-04-21
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2005-04-21	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2010-07-09	
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.82433 / -120.39687			Accuracy:	80 meters		
UTM:	Zone-10 N4189517 E729111			Elevation (ft):	1075		
PLSS:	T01S, R14E, Sec. 26, NE (M)			Acres:	0.0		
Location:	RED HILLS, ABOUT 1.4 AIR MILES SOUTHEAST OF HUNGRY HILL.						
Detailed Location:	CREEK BED FACING A NORTHEAST FORK OF DON PEDRO RESERVOIR, 500 M DOWN THE ROAD LEADING FROM THE LENT RANCH. MAPPED IN THE NE 1/4 OF THE NE 1/4 OF SECTION 26.						
Ecological:	CREEK BED. ASSOC W/ MIMULUS GUTTATUS, M. MOSCHATUS, CAREX SERRATODENS, RHAMNUS TOMENTELLA, ALGAE, MOSS, SELAGINELLA HANSENII, TRIFOLIUM MICROCEPHALUM, AGOSERIS HETEROPHYLLA, AGROSTIS MICROPHYLLA, AVENA BARBATA, BRACHYPODIUM DISTACHYON, ETC.						
General:	0.2% COVER OF THIS PLANT IN 2005.						
Owner/Manager:	BLM						

<i>Brodiaea pallida</i>	Element Code: PMLILOC0C0						
Chinese Camp brodiaea							
Listing Status:	Federal:	Threatened	CNDDB Element Ranks:	Global:	G1		
	State:	Endangered		State:	S1		
	Other:	Rare Plant Rank - 1B.1					
Habitat:	General:	VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND.					
	Micro:	OFTEN IN ROCKY, INTERMITTENT STREAMBEDS. AT LEAST SOMETIMES ON SERPENTINE. 165-385 M.					

Occurrence No.	1	Map Index:	79097	EO Index:	9187	Element Last Seen:	2008-05-22
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2008-05-22	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-02-25	
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.86592 / -120.43965			Accuracy:	specific area		
UTM:	Zone-10 N4194028 E725218			Elevation (ft):	1260		
PLSS:	T01S, R14E, Sec. 09, N (M)			Acres:	80.0		
Location:	0.5 MI WSW OF CHINESE CAMP SCHOOL ON RED HILLS RD. MAJORITY OF PLANTS ON THE SINCLAIR RANCH.						
Detailed Location:	PLANTS ON BOTH SIDES OF ROAD. IN 1990, NEW SUBPOPULATIONS WITHIN MAIN POPULATION LOCATED. MAPPED IN THE N 1/2 OF SECTION 9 AND THE SW 1/4 OF SECTION 4. TNC HAS VOLUNTARY PROTECTION AGREEMENT WITH ONE OWNER. CNPS LEASES 1/4 OF THE HABITAT.						
Ecological:	IN FLAT ROCKY INTERMITTENT STREAM BED IN RED CLAY SOIL (SERPENTINE DERIVED). ASSOCIATES INCLUDE CHLOROGALUM ANGUSTIFOLIUM, BRODIAEA ELEGANS, TRITELEIA HYACINTHA, CALOCHORTUS LUTEUS, FRITILLARIA AGRESTIS, AND NAVARRETTIA INTERTEXTA.						
General:	TYPE LOCALITY. 1600 PLANTS IN 1982, OVER 1600 IN 1990, 5000 IN 1991. IN A SMALL PORTION OF THE POPULATION, NUMBERS FLUCTUATED BETWEEN 600-1500 PLANTS IN ANNUAL CENSUSES FROM 1992 TO 2001. SEEN IN 2007 AND 2008.						
Owner/Manager:	PVT						

<i>Chlorogalum grandiflorum</i>	Element Code: PMLILOG020						
Red Hills soaproot							
Listing Status:	Federal:	None	CNDDB Element Ranks:	Global:	G2		
	State:	None		State:	S2		



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Habitat:	Other: Rare Plant Rank - 1B.2, BLM_S-Sensitive
	General: CISMONTANE WOODLAND, CHAPARRAL, LOWER MONTANE CONIFEROUS FOREST.
	Micro: OCCURS FREQUENTLY ON SERPENTINE OR GABBRO, BUT ALSO ON NON-ULTRAMAFIC SUBSTRATES; OFTEN ON "HISTORICALLY DISTURBED" SITES. 245-1240 M.

Occurrence No.	1	Map Index:	13499	EO Index:	13325	Element Last Seen:	1981-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	1981-XX-XX		
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	1989-08-11		

Quad Summary: Chinese Camp (3712074)
County Summary: Tuolumne

Lat/Long:	37.82140 / -120.42221	Accuracy:	specific area
UTM:	Zone-10 N4189130 E726889	Elevation (ft):	1350
PLSS:	T01S, R14E, Sec. 27, NE (M)	Acres:	189.7

Location: APPROXIMATELY 1 AIR MILE S-SSW OF HUNGRY HILL SUMMIT, 3 MILES SOUTH OF CHINESE CAMP, RED HILLS.
Detailed Location: SPECIFIC AREA MAPPED INCLUDES ONE DISJUNCT POPULATION ON THE NORTHEAST SIDE. THERE IS NO C. GRANDIFLORUM IN THE BOTTOM OF THE GULCH ON THE NORTHEAST SIDE.
Ecological: ON SERPENTINE SOIL ACCORDING TO POWELL'S SOILS MAPS. USUALLY ON SHALLOW ROCKY OUTCROPS THROUGHOUT THE SERPENTINE AREA.
General: 1937 COLLECTION BY HOOVER ATTRIBUTED TO THIS SITE.
Owner/Manager: BLM-FOLSOM RA

Occurrence No.	2	Map Index:	13497	EO Index:	19850	Element Last Seen:	1975-06-04
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	1975-06-04		
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2007-08-01		

Quad Summary: Chinese Camp (3712074)
County Summary: Tuolumne

Lat/Long:	37.84182 / -120.41979	Accuracy:	specific area
UTM:	Zone-10 N4191403 E727039	Elevation (ft):	1200
PLSS:	T01S, R14E, Sec. 15 (M)	Acres:	52.0

Location: SOUTH OF CHINESE CAMP, NW SLOPE OF HUNGRY HILL.
Detailed Location: FIVE COLONIES IN THE NORTHERNMOST 1/4 OF SECTION 22 AND THE SOUTHERN HALF OF SECTION 15.
Ecological: ON SHALLOW ROCKY AREAS OF DELPIEDRA (SERPENTINE) SOIL ACCORDING TO R. POWELL.
General: FIVE POPULATIONS MAPPED, BUT PLANTS ARE FREQUENT IN THE AREA OF HUNGRY HILL. POPULATIONS MAY HAVE BEEN SEEN AGAIN IN 1981. INCLUDES FORMER OCCURRENCE #3.
Owner/Manager: PVT, BLM-FOLSOM RA



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Occurrence No.	4	Map Index:	78960	EO Index:	14370	Element Last Seen:	2005-04-20
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2005-04-20	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2010-06-14	
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.84835 / -120.44103			Accuracy:	specific area		
UTM:	Zone-10 N4192076 E725150			Elevation (ft):	1250		
PLSS:	T01S, R14E, Sec. 16 (M)			Acres:	172.0		
Location:	FROM 0 TO 0.85 AIR MILES SOUTH OF TAYLOR HILL, ABOUT 1.25 AIR MILES SSW OF CHINESE CAMP.						
Detailed Location:	3 POLYGONS: WESTERN AND SOUTHERN POLYGON BASED ON A 1981 CHAMBERLAIN MAP, EASTERN POLYGON BASED ON UTM COORDINATES FROM A 2005 FIELD SURVEY FORM.						
Ecological:	ON SERPENTINE SOIL. ASSOCIATED W/ CEANOTHUS CUNEATUS, PINUS SABINIANA, PLANTAGO ERECTA, RHAMNUS ILICIFOLIA, PENTAGRAMMA TRIANGULARIS, VULPIA MICROSTACHYS, ERIOPHYLLUM LANATUM, LASTHENIA CALIFORNICA, MADIA EXIGUA, MICROPUS CALIFORNICUS, ETC.						
General:	FREQUENT THROUGHOUT THE RED HILLS AREA IN 1981. 2005: 0.2% COVER OF THIS PLANT IN EASTERN AND SOUTHERN COLONIES.						
Owner/Manager:	BLM-FOLSOM RA						
Occurrence No.	5	Map Index:	31112	EO Index:	14860	Element Last Seen:	2013-03-19
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:		2013-03-19	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2015-01-21	
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.85052 / -120.46269			Accuracy:	specific area		
UTM:	Zone-10 N4192264 E723238			Elevation (ft):	1200		
PLSS:	T01S, R14E, Sec. 17, W (M)			Acres:	283.0		
Location:	FROM 0.5-2.5 MILES NORTH OF CRIMEA HOUSE ALONG BOTH SIDES OF RED HILLS ROAD, RED HILLS.						
Detailed Location:	SEVERAL COLONIES MAPPED BY CNDDDB ACCORDING TO A 1981 POWELL MAP, A 1981 CHAMBERLAIN MAP, & A 1987 YORK MAP. WITHIN SECTIONS 8 AND 17, ALSO IN THE SE 1/4 OF SEC 18, THE NE 1/4 OF THE NE 1/4 OF SEC 19, AND THE NW 1/4 OF THE NW 1/4 OF SEC 20.						
Ecological:	ON ROLLING SERPENTINE SOILS, WITH PINUS SABINIANA, CEANOTHUS CUNEATUS, DICHELOSTEMMA MULTIFLORUM, STREPTANTHUS POLYGALOIDES, LOMATIUM CONGDONII, VULPIA, HOLODISCUS, CENTAURIUM, CLARKIA BILOBA, MIMULUS GUTTATUS, BROMUS HORDEACEUS, ETC.						
General:	UNKNOWN NUMBER OF PLANTS SEEN IN 1981 AND 1987. 2005: 0.2% COVER OF THIS PLANT IN CENTRAL COLONY. 1976 AND 1984 COLLECTIONS, A 2010 OBSERVATION, AND PHOTOS FROM 2012 AND 2013 ARE ATTRIBUTED HERE. INCLUDES FORMER OCCS #7-14. NEEDS POP INFO.						
Owner/Manager:	BLM-FOLSOM RA						



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Occurrence No.	6	Map Index: 13372	EO Index: 3043	Element Last Seen: 1982-05-23
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1982-05-23
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1996-01-02

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85551 / -120.47345	Accuracy:	nonspecific area
UTM:	Zone-10 N4192792 E722276	Elevation (ft):	1275
PLSS:	T01S, R14E, Sec. 07, SE (M)	Acres:	21.5

Location: ON DIRT ROAD APPROXIMATELY 1.5 AIR MILES NORTH OF CRIMEA HOUSE, RED HILLS.

Detailed Location: PLANTS ARE GROWING ON AND ADJACENT TO A VERY POOR DIRT ROAD. MAPPED WITHIN THE NW 1/4 OF THE SE 1/4 OF SECTION 7.

Ecological: IN SERPENTINE AREA WITH FOOTHILL PINE, CALYCADENIA, AND CLARKIA BILOBA.

General: FEWER THAN 50 PLANTS SEEN IN 1982. FREQUENT IN THE RED HILLS AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	15	Map Index: 13448	EO Index: 12206	Element Last Seen: 1982-05-23
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1982-05-23
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1989-08-11

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86603 / -120.44464	Accuracy:	1/5 mile
UTM:	Zone-10 N4194029 E724779	Elevation (ft):	1230
PLSS:	T01S, R14E, Sec. 09, NW (M)	Acres:	0.0

Location: RED HILLS ROAD, APPROXIMATELY 0.75 MILE SW OF CHINESE CAMP.

Detailed Location:

Ecological: ON SERPENTINE OUTCROPS WITH BUCKBRUSH. HEALTHY PLANTS ON THE LARGER OUTCROPS OR UNDER BUSHES, DEAD PLANTS BETWEEN BUSHES.

General: 70 PLANTS SEEN IN 1982. FREQUENT THROUGHOUT THE RED HILLS AREA.

Owner/Manager: PVT

Occurrence No.	17	Map Index: 13412	EO Index: 22080	Element Last Seen: 1982-06-09
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen: 1982-06-09
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 1989-08-11

Quad Summary: Chinese Camp (3712074), Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.87548 / -120.46047	Accuracy:	1/5 mile
UTM:	Zone-10 N4195039 E723358	Elevation (ft):	1225
PLSS:	T01S, R14E, Sec. 05, SW (M)	Acres:	0.0

Location: APPROXIMATELY 0.25 MILE SW OF CHINESE STATION.

Detailed Location:

Ecological: IN GULLY ON SERPENTINE WITH ALLIUM SANBORNII VAR. TUOLUMNENSE AND LOMATIUM CONGDONII. ALSO SCATTERED POPULATIONS ON OTHER ROCK OUTCROPS.

General: 67 PLANTS SEEN IN 1982.

Owner/Manager: PVT



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Occurrence No.	18	Map Index: 72768	EO Index: 12831	Element Last Seen:	2007-06-12
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2007-06-12
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2008-10-31

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.87106 / -120.49260	Accuracy:	specific area
UTM:	Zone-10 N4194473 E720545	Elevation (ft):	1000
PLSS:	T01S, R13E, Sec. 01, SW (M)	Acres:	6.0

Location: APPROXIMATELY 1.4 AIR MI SSW OF THE INTERSECTION OF HWY 108 & HWY 120, W OF CHINESE STATION.

Detailed Location: MAPPED ACCORDING TO 2007 BUXTON DIGITAL DATA. A 1937 HOOVER COLLECTION FROM "3 MI N OF KEYSTONE" ALSO ATTRIBUTED TO THIS SITE.

Ecological: CHAPARRAL OF MOSTLY CEANOTHUS CUNEATUS SSP. CUNEATUS & OCCASIONAL PINUS SABINIANA W/ A SPARSE UNDERSTORY OF MOSTLY NATIVE FORBS AND BROMUS HORDEACEUS. HERBACEOUS SPP INCL LINANTHUS LINIFLORUS, SIDALCEA HARWEGII, NAVARRETIA INTERTEXTA, ETC.

General: ~100 PLANTS BETWEEN THIS AND EO #68 IN 2007.

Owner/Manager: PVT, BLM-FOLSOM RA

Occurrence No.	42	Map Index: 50965	EO Index: 50965	Element Last Seen:	2000-06-16
Occ. Rank:	Good		Presence: Presumed Extant	Site Last Seen:	2000-06-16
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2003-04-14

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81891 / -120.39133	Accuracy:	specific area
UTM:	Zone-10 N4188929 E729616	Elevation (ft):	1250
PLSS:	T01S, R14E, Sec. 25, W (M)	Acres:	18.2

Location: EAST OF DON PEDRO RESERVOIR, 1.5 TO 2 MILES SOUTH OF HIGHWAY 49/120, NORTH OF THE HETCH HETCHY AQUEDUCT.

Detailed Location: ON SOUTH-FACING SLOPE ALONG DESCENDING RIDGE OF HILL JUTTING INTO LAKE DON PEDRO. MAPPED WITHIN THE WEST HALF OF SECTION 25.

Ecological: VEGETATION IS TYPICAL OF THE RED HILLS: CEANOTHUS CUNEATUS CHAPARRAL WITH PINUS SABINIANA. ASSOCIATES INCLUDE: ERIOPHYLLUM LANATUM, STREPTANTHUS POLYGALOIDES, MELICA CALIFORNICA, SANICULA BIPINNATIFIDA, CLARKIA BILOBA BILOBA, ET AL.

General: FEWER THAN 100 PLANTS SEEN ALONG THE RIDGELINE IN 2000 BY FRANKLIN. FURTHER SURVEY IS WARRANTED.

Owner/Manager: BLM



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Occurrence No.	68	Map Index:	72770	EO Index:	73606	Element Last Seen:	2007-06-12
Occ. Rank:	Excellent	Presence:	Presumed Extant	Site Last Seen:		2007-06-12	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2008-11-03	
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.87425 / -120.48288			Accuracy:	specific area		
UTM:	Zone-10 N4194850 E721390			Elevation (ft):	1000		
PLSS:	T01S, R13E, Sec. 01, SE (M)			Acres:	1.0		
Location:	APPROXIMATELY 1.2 AIR MI SSE OF YOSEMITE JUNCTION, W OF CHINESE STATION.						
Detailed Location:	MAPPED BY CNDDDB AS 2 POLYGONS ACCORDING TO 2007 DIGITAL DATA FROM BUXTON.						
Ecological:	CHAPARRAL OF MOSTLY CEANOTHUS CUNEATUS SSP. CUNEATUS & OCCASIONAL PINUS SABINIANA W/ A SPARSE UNDERSTORY OF MOSTLY NATIVE FORBS AND BROMUS HORDEACEUS. HERBACEOUS SPP INCL LINANTHUS LINIFLORUS, SIDALCEA HARWEGII, NAVARRETIA INTERTEXTA, ETC.						
General:	~100 PLANTS BETWEEN THIS AND EO #18 IN 2007.						
Owner/Manager:	PVT						
Occurrence No.	74	Map Index:	79063	EO Index:	80023	Element Last Seen:	2005-04-20
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		2005-04-20	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2010-06-14	
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.83998 / -120.45577			Accuracy:	80 meters		
UTM:	Zone-10 N4191111 E723878			Elevation (ft):	1100		
PLSS:	T01S, R14E, Sec. 20, NE (M)			Acres:	0.0		
Location:	RED HILLS, ABOUT 1.25 AIR MILES SOUTHWEST OF TAYLOR HILL.						
Detailed Location:	MAPPED IN THE NW 1/4 OF THE NE 1/4 OF SECTION 20.						
Ecological:	ASSOCIATED WITH CEANOTHUS CUNEATUS, PLANTAGO ERECTA, COREOPSIS STILLMANII, VULPIA MICROSTACHYS, AVENA BARBATA, BROMUS HORDACEUS, B. STERILIS, NAVARRETIA TAGETINA, PENTAGRAMMA TRIANGULARIS, PSEUDOBALIA HEERMANNII, LASTHENIA CALIFORNICA, ETC.						
General:	4% COVER OF THIS PLANT IN 2005.						
Owner/Manager:	BLM						



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Occurrence No.	75	Map Index: 79064	EO Index: 80026	Element Last Seen:	2005-04-21
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2005-04-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2010-06-14

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82846 / -120.40086	Accuracy:	80 meters
UTM:	Zone-10 N4189966 E728746	Elevation (ft):	1250
PLSS:	T01S, R14E, Sec. 23, SW (M)	Acres:	0.0

Location: EAST END OF RED HILLS, ABOUT 1 AIR MILE SOUTHEAST OF HUNGRY HILL.

Detailed Location: MAPPED IN THE SW 1/4 OF THE SE 1/4 OF SECTION 23.

Ecological: ASSOCIATED WITH CEANOTHUS CUNEATUS, ADENOSTOMA FASCICULATUM, MOSS, CALYCADENIA, PINUS SABINIANA, AVENA FATUA, GALIUM PORRIGENS, PLANTAGO ERECTA, RHAMNUS ILICIFOLIA, AIRA CARYOPHYLLEA, BRACHYPODIUM DISTACHYON, BRODIAEA, BROMUS, ETC.

General: 2% COVER OF THIS PLANT IN 2005.

Owner/Manager: BLM

Occurrence No.	76	Map Index: 79068	EO Index: 80028	Element Last Seen:	2005-04-21
Occ. Rank:	Unknown		Presence: Presumed Extant	Site Last Seen:	2005-04-21
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2010-06-14

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82236 / -120.39767	Accuracy:	specific area
UTM:	Zone-10 N4189297 E729046	Elevation (ft):	1100
PLSS:	T01S, R14E, Sec. 26, NE (M)	Acres:	10.0

Location: EAST END OF RED HILLS, ABOUT 1.5 AIR MILES SOUTHEAST OF HUNGRY HILL.

Detailed Location: TWO COLONIES MAPPED IN THE E 1/2 OF THE NE 1/4 OF SECTION 26.

Ecological: ASSOCIATED WITH CEANOTHUS CUNEATUS, PLANTAGO ERECTA, MIMULUS GUTTATUS, VULPIA MICROSTACHYS, V. BROMOIDES, MOSS, ALGAE, RHAMNUS ILICIFOLIA, R. TOMENTELLA, HETEROMELES ARBUTIFOLIA, SELAGINELLA HANSENII, TRIFOLIUM MICROCEPHALUM, ETC.

General: 0.2% COVER OF THIS PLANT IN 2005.

Owner/Manager: BLM



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<i>Fritillaria agrestis</i>		Element Code: PMLILOV010	
stinkbells			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G3
	State: None		State: S3
	Other: Rare Plant Rank - 4.2		
Habitat:	General: CISMONTANE WOODLAND, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND.		
	Micro: SOMETIMES ON SERPENTINE; MOSTLY FOUND IN NONNATIVE GRASSLAND OR IN GRASSY OPENINGS IN CLAY SOIL. 10-1555 M.		

Occurrence No.	23	Map Index:	13457	EO Index:	9188	Element Last Seen:	1980-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1980-XX-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		1992-05-04	
Quad Summary:	Chinese Camp (3712074)						
County Summary:	Tuolumne						
Lat/Long:	37.86519 / -120.43833			Accuracy:	specific area		
UTM:	Zone-10 N4193950 E725337			Elevation (ft):	1260		
PLSS:	T01S, R14E, Sec. 09, NE (M)			Acres:	64.8		
Location:	0.5 KM WSW OF CHINESE CAMP SCHOOL ON RED HILLS RD.						
Detailed Location:	MOSTLY ACROSS THE ROAD FROM THE SCHOOL AND TOWARDS THE BRODIAEA PALLIDA POPULATION.						
Ecological:	IN FLAT ROCKY INTERMITTENT STREAMBED WITH BRODIAEA PALLIDA.						
General:	UNKNOWN HOW MANY PLANTS SEEN BY MEDEIROS IN 1980; ONLY INFO IS LETTER SAYING PLANTS FOUND WITH B. PALLIDA. ACC TO W. RODERICK, PLANTS FOUND TO THE E OF B. PALLIDA; A FEW HUNDRED SEEN (EARLY 1980'S?).						
Owner/Manager:	PVT						

Occurrence No.	25	Map Index:	21055	EO Index:	9186	Element Last Seen:	XXXX-XX-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		XXXX-XX-XX	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		1992-05-04	
Quad Summary:	Penon Blanco Peak (3712063)						
County Summary:	Tuolumne						
Lat/Long:	37.68539 / -120.32756			Accuracy:	1/5 mile		
UTM:	Zone-10 N4174270 E735653			Elevation (ft):	940		
PLSS:	T03S, R15E, Sec. 09, SW (M)			Acres:	0.0		
Location:	E OF HWY 132, BETWEEN HWY AND DIRT ROAD. BELOW PINEY RIDGE.						
Detailed Location:							
Ecological:							
General:	ONLY INFO IS LETTER FROM J. MEDEIROS, 1980; BETTER SURVEY NEEDED.						
Owner/Manager:	UNKNOWN						

<i>Neostapfia colusana</i>		Element Code: PMPOA4C010	
Colusa grass			
Listing Status:	Federal: Threatened	CNDDDB Element Ranks:	Global: G1
	State: Endangered		State: S1
	Other: Rare Plant Rank - 1B.1		
Habitat:	General: VERNAL POOLS.		
	Micro: USUALLY IN THE BOTTOMS OF LARGE, OR DEEP VERNAL POOLS; ADOBE SOILS. 5-125 M.		



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Occurrence No.	2	Map Index: 31446	EO Index: 2412	Element Last Seen:	2010-09-02
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2010-09-02
Occ. Type:	Natural/Native occurrence		Trend: Decreasing	Record Last Updated:	2013-05-29

Quad Summary: Turlock Lake (3712055), Montpelier (3712056)

County Summary: Stanislaus

Lat/Long:	37.60206 / -120.62764	Accuracy:	specific area
UTM:	Zone-10 N4164310 E709422	Elevation (ft):	180
PLSS:	T04S, R12E, Sec. 10, W (M)	Acres:	692.0

Location: HICKMAN VERNAL POOLS, 1.4-4 MILES WEST OF TURLOCK LAKE, MOSTLY SOUTH OF LAKE ROAD.

Detailed Location: SERIES OF LARGE INTERMITTENT LAKES INCLUDING SEVERAL SMALLER, HYDROLOGICALLY CONNECTED, VERNAL POOLS. N-MOST POLY: 200 IN 1981, <1000 IN 1986 & 1987, NONE IN 2001. POLYGON ON LAKE RD: HUNDREDS IN 1981, 1986, 1989; <50 IN 1987; NONE IN 2001.

Ecological: VERNAL LAKES, POOLS, AND ARTIFICIAL PONDS WITH A TOTAL AREA OF 600 ACRES. ASSOCIATES INCLUDE ORCUTTIA PILOSA, CHAMAESYCE HOOVERI, LIPPIA NODIFLORA, SIDA HEDERACEA, CRYPISIS SCHOENOIDES, EREMOCARPUS, ET AL. SOILS MAPPED AS MEIKLE CLAY.

General: MANY DENSE STANDS SEEN IN 1988. MILLIONS OF PLANTS IN 2001. 100 PLANTS IN PORTION OF 2ND N-MOST POLY IN 2010, NONE SEEN IN REMAINDER OF EO. INCLUDES FORMER EOS #3, 16, 25, 28, 35, & 44. PRIMARY POPULATION PROBABLY EXTIRPATED.

Owner/Manager: PVT

Occurrence No.	4	Map Index: 13298	EO Index: 2789	Element Last Seen:	2009-09-02
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen:	2009-09-02
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-05-17

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.65101 / -120.50800	Accuracy:	specific area
UTM:	Zone-10 N4170016 E719841	Elevation (ft):	280
PLSS:	T03S, R13E, Sec. 26, NE (M)	Acres:	5.0

Location: NEAR CORRAL ON RODDEN RANCH, 3 MILES SOUTHWEST OF LA GRANGE IN 2 SMALL POOLS NORTH OF SMALL RESERVOIR.

Detailed Location: MAPPED JUST EAST OF WINDMILL AND WITHIN THE NW 1/4 OF THE NE 1/4 OF SECTION 26.

Ecological: VERNAL POOLS AND OR ARTIFICIAL PONDS SURROUNDED BY ANNUAL GRASSLAND. IN A DEEP DRAINAGE AREA - PLANTS MUCH GREENER HERE THAN ELSEWHERE ON PROPERTY; NO CRYPISIS IN POOL (HOGLE, 2001). PENTZ GRAVELLY LOAM SOIL.

General: ~200 PLANTS SEEN IN 1981. HABITAT OBSERVED AT A DISTANCE IN 1986; INTACT BUT HEAVILY GRAZED. <10,000 PLANTS IN 2001. 10,000 PLANTS IN 2008. ~100 PLANTS IN 2009 IN LARGER POOL; NOT SEEN IN 2 SMALLER POOLS, POSSIBLY BECAUSE OF DRY YEAR.

Owner/Manager: PVT



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Occurrence No.	5	Map Index: 13168	EO Index: 14368	Element Last Seen:	2008-XX-XX
Occ. Rank:	Excellent		Presence: Presumed Extant	Site Last Seen:	2008-XX-XX
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-05-17

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.64954 / -120.58856	Accuracy:	specific area
UTM:	Zone-10 N4169667 E712737	Elevation (ft):	230
PLSS:	T03S, R13E, Sec. 30, NW (M)	Acres:	17.0

Location: RODDEN RANCH NEAR CANAL, 1.2 MILES ENE OF WHERE CRABTREE ROAD CROSSES MODESTO MAIN CANAL.

Detailed Location: TWO POOLS MAPPED; ONE IN THE NW 1/4 OF THE NW 1/4 OF SECTION 30 AND ONE IN THE NE 1/4 OF THE NE 1/4 OF SECTION 25.

Ecological: TWO LARGE VERNAL POOLS SURROUNDED BY ANNUAL GRASSLAND. ASSOCIATED WITH EREMOCARPUS SETIGERUS, ERYNGIUM VASEYI, HORDUEM, ALLOCARYA, NAVARRETIA, BOISDUVALIA, ALOPECURUS, AND HEMIZONIA. SOIL MAPPED AS MEIKLE CLAY.

General: MENTIONED AS ABUNDANT AT BOTH POOLS IN 1986; UNDER CURRENT GRAZING REGIME THIS POPULATION IS DAMAGED BUT LARGE AND PROBABLY STABLE. 2001: 50,000 PLANTS IN E POOL, 1 MILLION PLANTS IN W POOL. >1 MILLION PLANTS SEEN IN 2008.

Owner/Manager: PVT

Occurrence No.	6	Map Index: 13289	EO Index: 14403	Element Last Seen:	1962-XX-XX
Occ. Rank:	None		Presence: Possibly Extirpated	Site Last Seen:	2001-09-08
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2011-07-20

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.64410 / -120.51504	Accuracy:	specific area
UTM:	Zone-10 N4169233 E719240	Elevation (ft):	260
PLSS:	T03S, R13E, Sec. 26, SW (M)	Acres:	6.2

Location: ABOUT 1.1 MILES EAST OF THE JUNCTION OF HWY 132 AND LAKE ROAD, NORTHEAST OF TURLOCK LAKE AND NORTH OF TUOLUMNE RIVER.

Detailed Location: MAPPED IN THE NW 1/4 OF THE SW 1/4 OF SECTION 26.

Ecological: ORIGINALLY A VERNAL POOL, NOW AN IRRIGATED FIELD (2001). PENTZ GRAVELLY LOAM SOILS.

General: INDIVIDUALS VERY SPARSE WHEN OBSERVED BY PERRY ALLEN IN 1962. NO PLANTS SEEN IN 1986 BY R. STONE OR BY HOGLE IN 2001; SITE BELIEVED TO BE EXTIRPATED. SITE IS NOW A SMALL DEPRESSION THAT IS A PERMANENT POND DUE TO IRRIGATION RUNOFF.

Owner/Manager: PVT



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Occurrence No.	7	Map Index:	13287	EO Index:	2788	Element Last Seen:	1969-XX-XX
Occ. Rank:	None	Presence:	Possibly Extirpated	Site Last Seen:			2001-08-17
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:			2013-05-22

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.66361 / -120.51859	Accuracy:	1/10 mile
UTM:	Zone-10 N4171390 E718869	Elevation (ft):	250
PLSS:	T03S, R13E, Sec. 22, NE (M)	Acres:	0.0

Location: NORTH OF TUOLUMNE RIVER AND HIGHWAY 132, APPROXIMATELY 3 MILES WEST OF LA GRANGE.

Detailed Location: SMALL POOL NEAR FENCE. MAPPED ON THE BORDER BETWEEN THE NE 1/4 OF SECTION 22 AND THE NW 1/4 OF SECTION 23 ACCORDING TO A 1974 MAP BY ALLEN.

Ecological: IN SMALL VERNAL POOL ALONG A MINOR DRAINAGEWAY AND SURROUNDED BY ANNUAL GRASSLAND. SOIL MAPPED AS BEAR CREEK LOAM.

General: SITE REPORTED BY ALLEN IN 1969. HOGLE SEARCHED SITE EXTENSIVELY IN 2001 & FOUND NO VERNAL POOLS, HYDROLOGY MAY HAVE BEEN ALTERED. BASED ON AERIAL PHOTO INTERPRETATION, WITHAM THINKS THIS MAY BE MIS-MAPPED; EXTENSIVE HABITAT TO THE W (2013).

Owner/Manager: PVT

Occurrence No.	8	Map Index:	13276	EO Index:	22379	Element Last Seen:	1986-08-31
Occ. Rank:	Poor	Presence:	Presumed Extant	Site Last Seen:			1986-08-31
Occ. Type:	Natural/Native occurrence	Trend:	Decreasing	Record Last Updated:			2011-08-02

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.65085 / -120.52638	Accuracy:	80 meters
UTM:	Zone-10 N4169955 E718220	Elevation (ft):	240
PLSS:	T03S, R13E, Sec. 27, NE (M)	Acres:	0.0

Location: NE OF TURLOCK LAKE AND NORTH OF TUOLUMNE RIVER, ABOUT 0.5 MILE EAST OF MODESTO MAIN CANAL CROSSING OF RAIRDEN GULCH.

Detailed Location: JUST SOUTH OF UNPAVED ROAD IN THE NW 1/4 OF THE NE 1/4 OF SECTION 27.

Ecological: VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND AND OPEN QUERCUS DOUGLASII WOODLAND. DEPAUPERATE NEOSTAFFIA PLANTS SCATTERED OVER POOL BED WITH MARSILEA VESTITA. ASSOCIATED WITH CHAMAESYCE HOOVERI AND EREMOCARPUS ON WHITNEY SANDY LOAMS.

General: SITE VISITED IN 1983; TOO FULL TO SEE SPECIES. 1000 PLANTS OBSERVED IN 1986 BY STONE; SITE TOO DAMAGED TO COLLECT. SITE SEVERELY GRAZED AND TRAMPLED; UNDER CURRENT GRAZING REGIME THIS POPULATION IS DAMAGED AND PROBABLY DECLINING.

Owner/Manager: PVT



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Occurrence No.	9	Map Index: 13233	EO Index: 22277	Element Last Seen:	1938-07-10
Occ. Rank:	None		Presence: Extirpated	Site Last Seen:	1986-09-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-05-22

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.65021 / -120.56048	Accuracy:	1/5 mile
UTM:	Zone-10 N4169806 E715213	Elevation (ft):	230
PLSS:	T03S, R13E, Sec. 29, NE (M)	Acres:	0.0

Location: NORTH OF HWY 132 AND NORTH OF MODESTO MAIN CANAL IN VICINITY OF RUSHING ROAD.

Detailed Location: BASED ON HOOVER COLLECTION "12 MILES WEST OF WATERFORD." STONE SUGGESTS THAT THE MOST LIKELY LOCATION FOR THIS COLLECTION IS "THE LARGE DEPRESSION 0.1 MI NORTH OF MODESTO MAIN CANAL AND ON THE WEST SIDE OF RUSHING ROAD."

Ecological:

General: SITE IS KNOWN FROM TWO HOOVER COLLECTIONS FROM 1936 AND 1938. NO PLANTS OBSERVED IN AREA IN 1986. NEOSTAPFIA IS PRESUMED EXTIRPATED DUE TO ELIMINATION OF HABITAT.

Owner/Manager: UNKNOWN

Occurrence No.	20	Map Index: 13255	EO Index: 19992	Element Last Seen:	2001-07-31
Occ. Rank:	None		Presence: Extirpated	Site Last Seen:	2010-09-02
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated:	2013-05-20

Quad Summary: Turlock Lake (3712055), Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.62479 / -120.54235	Accuracy:	specific area
UTM:	Zone-10 N4167026 E716886	Elevation (ft):	250
PLSS:	T03S, R13E, Sec. 33, SE (M)	Acres:	14.0

Location: EAST OF TURLOCK LAKE, 0.8 MILE NNE OF LAKE ROAD CROSSING OF TURLOCK MAIN CANAL.

Detailed Location: MAPPED 400 METERS NORTH OF BENCHMARK 248. WITHIN THE SW 1/4 OF THE SE 1/4 OF SECTION 33.

Ecological: VERNAL POOL WITH NEAR "MONOCULTURE" OF NEOSTAPFIA. ASSOCIATED WITH CRYPHIS SCHOENOIDES, MARSILEA VESTITA, CYNODON DACTYLON, JUSSIAEA REPENS, AND LIPPIA NODIFLORA. MEIKLE CLAY SOIL.

General: GOOD SHAPE IN 1979, ABUNDANT IN DENSE STAND ON POOL BOTTOM IN 1987, NO STANDING WATER OR PLANTS IN 1988. MILLIONS OF PLANTS IN "MONOCULTURE" SEEN IN 1989. 14 PLANTS IN 2001. SITE BEING FILLED FOR AGRICULTURAL PRODUCTION IN 2010; EXTIRPATED.

Owner/Manager: PVT



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Occurrence No.	24	Map Index:	70668	EO Index:	71575	Element Last Seen:	1981-04-06
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:		1981-04-06	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2013-05-20	

Quad Summary: Turlock Lake (3712055)

County Summary: Stanislaus

Lat/Long:	37.58065 / -120.60519	Accuracy:	specific area
UTM:	Zone-10 N4161985 E711464	Elevation (ft):	250
PLSS:	T04S, R12E, Sec. 13, SW (M)	Acres:	4.0

Location: 2 MILES SOUTH OF LAKE ROAD AND 2 MILES EAST OF HAWKINS ROAD. 1.5 MILES SOUTHWEST OF TURLOCK LAKE.
Detailed Location: NEAR WELL 0.5 MILE SOUTHEAST OF HICKMAN VERNAL POOLS. THIS IS A RELATIVELY SMALL, POSSIBLY ARTIFICIAL VERNAL POOL. IT MAY BE CONFLUENT WITH OCCURRENCE #2 DURING PERIODS OF HIGH WATER.

Ecological:

General: MORE THAN 1000 PLANTS OBSERVED IN 1981.

Owner/Manager: PVT

Occurrence No.	54	Map Index:	25013	EO Index:	2717	Element Last Seen:	1987-07-03
Occ. Rank:	None	Presence:	Extirpated	Site Last Seen:		2001-07-31	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2002-10-10	

Quad Summary: Turlock Lake (3712055)

County Summary: Merced

Lat/Long:	37.55460 / -120.56484	Accuracy:	80 meters
UTM:	Zone-10 N4159186 E715103	Elevation (ft):	230
PLSS:	T04S, R13E, Sec. 29, SW (M)	Acres:	0.0

Location: KEYES ROAD 1.3 MILES WEST OF OLSEN ROAD, 2 MILES SOUTH OF TURLOCK LAKE.
Detailed Location: MAPPED ALONG NORTH SIDE OF KEYES ROAD WHERE IT CROSSES INTERMITTENT STREAM ABOUT 200 METERS EAST OF THE WINDMILL. WITHIN THE NE 1/4 OF THE SW 1/4 OF SECTION 29.
Ecological: TWO SMALL VERNAL POOLS IN ANNUAL GRASSLAND. GROWING IN DEEPEST PART OF POOL WITH ERYNGIUM VASEYI AND GLYCERIA DECLINATA; SURROUNDING PLANTS INCLUDE BOISDUVALIA, ALLOCARYA, RANUNCULUS, AND CRYPISIS. SOILS MAPPED AS RAYNOR CLAY.
General: A MODERATELY DENSE, PURE STAND OF NEOSTAPFIA (1000+ PLANTS) OBSERVED BY STONE IN 1987. IN 2001, SITE CONVERTED TO ORCHARDS, NO PLANTS SEEN. SITE EXTIRPATED.
Owner/Manager: PVT



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Occurrence No.	61	Map Index:	31447	EO Index:	2718	Element Last Seen:	1987-07-03
Occ. Rank:	None	Presence:	Extirpated	Site Last Seen:			2001-07-31
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:			2011-07-25

Quad Summary: Turlock Lake (3712055)

County Summary: Merced

Lat/Long:	37.55937 / -120.56073	Accuracy:	80 meters
UTM:	Zone-10 N4159724 E715453	Elevation (ft):	240
PLSS:	T04S, R13E, Sec. 29, NE (M)	Acres:	0.0

Location: ABOUT 9 MILES EAST OF MONTPELIER AND 1.2 MILES WNW OF THE INTERSECTION OF KEYES ROAD AND OLSEN ROAD, S OF TURLOCK LAKE.

Detailed Location: MAPPED ALONG THE SOUTHWEST SHORE OF LARGE STOCKPOND IN THE NE 1/4 OF SECTION 29.

Ecological: ARTIFICIAL POND ALONG AN INTERMITTENT DRAINAGE SURROUNDED BY ANNUAL GRASSLAND. ASSOCIATED WITH A DENSE COVER OF CRYPHIS SCHOENOIDES AND CYNODON DACTYLON. SOILS MAPPED AS BEAR CREEK SOIL SERIES. IN 2001 ENTIRE AREA CONVERTED TO ORCHARDS.

General: ABOUT 500 PLANTS SEEN IN 1987 BY STONE. PLANTS DEPAUPERATE, SITE IS MARGINAL OCCURRENCE WITH LOW POTENTIAL FOR LONG-TERM VIABILITY. IN 2001 HOGLE UNABLE TO ACCESS PROPERTY, BUT ENTIRE AREA WAS CONVERTED TO ORCHARDS. SITE EXTIRPATED.

Owner/Manager: PVT

Occurrence No.	62	Map Index:	31450	EO Index:	12259	Element Last Seen:	2008-XX-XX
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:			2008-XX-XX
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:			2013-05-21

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long:	37.65239 / -120.58176	Accuracy:	80 meters
UTM:	Zone-10 N4169999 E713329	Elevation (ft):	240
PLSS:	T03S, R13E, Sec. 19, S (M)	Acres:	0.0

Location: 0.2 MILE NORTH OF MODESTO MAIN CANAL, 1.8 MILES ENE OF INTERSECTION OF HWY 132 AND CRABTREE RD, 10 MILES E OF WATERFORD.

Detailed Location: SINGLE POOL MAPPED ABOUT MIDWAY ALONG THE LINE BETWEEN SECTIONS 19 AND 30.

Ecological: VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND. DENSE, PURE STAND OF ELEOCHARIS MACROSTACHYA FORMED DOMINANT PLANT COVER ON THE MAJORITY OF THE POOL BED; NEOSTAPFIA OCCURRING OVER RELATIVELY BARREN PORTIONS OF POOL. SOIL MAPPED AS MEIKLE CLAY.

General: FEWER THAN 500 PLANTS SEEN IN 1986, 300 IN 2001, 500 IN 2008. PRESENT GRAZING REGIME IS DAMAGING BUT CESSATION OF GRAZING MIGHT LEAD TO ELEOCHARIS COMPETITION; MODERATE LEVEL OF GRAZING MAY BE IMPORTANT IN HABITAT MANAGEMENT.

Owner/Manager: PVT



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Occurrence No.	71	Map Index:	48996	EO Index:	48996	Element Last Seen:	2010-09-03
Occ. Rank:	Fair			Presence:	Presumed Extant	Site Last Seen:	2010-09-03
Occ. Type:	Natural/Native occurrence			Trend:	Unknown	Record Last Updated:	2013-05-22

Quad Summary:	Cooperstown (3712065)		
County Summary:	Stanislaus		

Lat/Long:	37.65025 / -120.54330	Accuracy:	specific area
UTM:	Zone-10 N4169850 E716728	Elevation (ft):	230
PLSS:	T03S, R13E, Sec. 28, NE (M)	Acres:	8.0

Location:	0.8 MILE EAST OF RUSHING ROAD ON NORTH SIDE OF MODESTO MAIN CANAL.
Detailed Location:	FOUND ON THE WESTERN AND NORTHERN MARGINS OF THE POOL. MAPPED IN THE NW 1/4 OF THE NE 1/4 OF SECTION 28 ACCORDING TO 2013 WITHAM DIGITAL DATA.
Ecological:	HEAVILY GRAZED POLYPOGON AND ELEOCHARIS IN POOL. BORDERED BY ANNUAL GRASSLAND TO NORTH, EAST, AND WEST. ROAD AND CANAL TO THE SOUTH.
General:	23 PLANTS OBSERVED IN 2001. APPROXIMATELY 1000 PLANTS OBSERVED IN 2010.
Owner/Manager:	PVT



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Orcuttia pilosa		Element Code: PMPOA4G040	
hairy Orcutt grass			
Listing Status:	Federal: Endangered	CNDDB Element Ranks:	Global: G1
	State: Endangered		State: S1
	Other: Rare Plant Rank - 1B.1		
Habitat:	General: VERNAL POOLS.		
	Micro: 45-200 M.		

Occurrence No.	2	Map Index: 31446	EO Index: 12677	Element Last Seen: 2010-09-02
Occ. Rank:	Fair		Presence: Presumed Extant	Site Last Seen: 2010-09-02
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2013-06-04

Quad Summary: Turlock Lake (3712055), Montpelier (3712056)
County Summary: Stanislaus

Lat/Long:	37.60206 / -120.62764	Accuracy:	specific area
UTM:	Zone-10 N4164310 E709422	Elevation (ft):	200
PLSS:	T04S, R12E, Sec. 10 (M)	Acres:	692.0

Location: HICKMAN VERNAL POOLS, 1.4-4 MILES WEST OF TURLOCK LAKE, MOSTLY SOUTH OF LAKE ROAD. COVERS PARTS OF SEVERAL SECTIONS.
Detailed Location: O. PILOSA FOUND MOSTLY ON THE MARGINS OF LARGER POOLS WHERE THE DENSITY OF N. COLUSANA IS REDUCED. N-MOST POLYGON: SEEN IN 1958, '62, '76, '77, '81 BUT NOT IN '86, '87, & 2001. POLYGON ALONG LAKE RD: 500-1000 IN '81, 100 IN '86, 500 IN '10.
Ecological: VERNAL LAKES AND POOLS WITH A TOTAL AREA OF 600 ACRES. ASSOCIATED WITH NEOSTAFFIA COLUSANA, CHAMAESYCE HOOVERI, LIPPIA NODIFLORA, SIDA HEDERACEA, CRYPISIS SCHOENOIDES, EREMOCARPUS, ET AL. SOILS MAPPED AS MEINKLE CLAY.
General: LARGE POLYGON S OF LAKE RD: ABUNDANT IN '86 & '87. 750 PLANTS IN "POOL A" IN 2001 (POOL A = N-MOST PORTION OF LARGEST POLY). NO PLANTS IN THE 3 EASTERN POLYS; THESE ARE ONLY KNOWN TO HAVE N. COLUSANA. INCLUDES FORMER OCCURRENCES 3-6, 8, 27.
Owner/Manager: PVT

Occurrence No.	7	Map Index: 13233	EO Index: 22329	Element Last Seen: 1938-06-11
Occ. Rank:	None		Presence: Extirpated	Site Last Seen: 1986-09-01
Occ. Type:	Natural/Native occurrence		Trend: Unknown	Record Last Updated: 2008-06-12

Quad Summary: Cooperstown (3712065)
County Summary: Stanislaus

Lat/Long:	37.65021 / -120.56048	Accuracy:	1/5 mile
UTM:	Zone-10 N4169806 E715213	Elevation (ft):	250
PLSS:	T03S, R13E, Sec. 29, NE (M)	Acres:	0.0

Location: 12 MILES EAST OF WATERFORD.
Detailed Location: MAPPED BY CNDDDB AT 1.3 MILES WEST OF RAIDEN GULCH, IN VICINITY OF MODESTO MAIN CANAL AND RUSHING ROAD; BIOSYSTEMS ANALYSIS 1988 REPORT MENTIONS THAT THIS AREA IS THE MOST LIKELY LOCATION FOR HOOVER'S COLLECTION OF O. PILOSA.
Ecological:
General: SITE KNOWN FROM THREE COLLECTIONS BY HOOVER BETWEEN 1936 AND 1938. TOM GRIGGS DID NOT LIST THIS POPULATION IN A 1977 STATUS REPORT. SITE INSPECTED BY STONE IN 1986; HABITAT ELIMINATED, SITE EXTIRPATED.
Owner/Manager: UNKNOWN



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Tuctoria greenei

Element Code: PMPOA6N010

Greene's tuctoria

Listing Status: Federal: Endangered

CNDDDB Element Ranks: Global: G1

State: Rare

State: S1

Other: Rare Plant Rank - 1B.1

Habitat: General: VERNAL POOLS.

Micro: DRY BOTTOMS OF VERNAL POOLS IN OPEN GRASSLANDS. 30-1070 M.

Occurrence No. 21 **Map Index:** 13234 **EO Index:** 22343 **Element Last Seen:** 1938-07-10

Occ. Rank: None **Presence:** Possibly Extirpated **Site Last Seen:** 2010-09-03

Occ. Type: Natural/Native occurrence **Trend:** Decreasing **Record Last Updated:** 2013-04-22

Quad Summary: Cooperstown (3712065)

County Summary: Stanislaus

Lat/Long: 37.65308 / -120.55851 **Accuracy:** nonspecific area

UTM: Zone-10 N4170129 E715378 **Elevation (ft):** 240

PLSS: T03S, R13E, Sec. 20, SE (M) **Acres:** 37.0

Location: NEAR OIL WELL JUST WEST OF RUSHING ROAD, ABOUT 1.5 MILES NORTH OF JUNCTION WITH HIGHWAY 132.

Detailed Location: MAPPED ACCORDING TO A 1974 CNPS MAP AND A 1988 BIOSYSTEMS ANALYSIS MAP.

Ecological: DRY POOLS WITH CLAY SOIL.

General: S POLY MAPPED ACC TO A 1988 BIOSYSTEMS ANALYSIS MAP; NO PLANTS IN 1986; HABITAT ELIMINATED. N POLY MAPPED ACC TO A 1974 CNPS MAP (DATE SEEN UNK), NO PLANTS IN 1986 & 2010; HABITAT EXTANT, BUT MAY BE ERRONEOUS. INCL FORMER EO #38.

Owner/Manager: PVT



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Potamogeton zosteriformis		Element Code: PMPOT03160	
eel-grass pondweed			
Listing Status:	Federal: None	CNDDDB Element Ranks:	Global: G5
	State: None		State: S3
	Other: Rare Plant Rank - 2B.2		
Habitat:	General: MARSHES AND SWAMPS.		
	Micro: PONDS, LAKES, STREAMS. 0-1860 M.		

Occurrence No.	19	Map Index:	A0815	EO Index:	102375	Element Last Seen:	1979-11-02
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:		1979-11-02	
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:		2016-07-13	

Quad Summary: Merced Falls (3712053)
County Summary: Mariposa, Merced

Lat/Long:	37.52246 / -120.32942	Accuracy:	3/5 mile
UTM:	Zone-10 N4156185 E736004	Elevation (ft):	300
PLSS:	T05S, R15E, Sec. 4 (M)	Acres:	776.0

Location: DOWNSTREAM FROM LAKE MCSWAIN ON MERCED RIVER, MERCED FALLS EAST OF SNELLING.
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDDB AROUND MERCED FALLS EAST OF SNELLING BELOW MCSWAIN DAM.
Ecological: FROM COLLECTOR SCREENS OF IRRIGATION SYSTEM.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1979 PALMER COLLECTION. NEEDS FIELDWORK.
Owner/Manager: UNKNOWN