Species: *Erythranthe glaucescens* (Greene) G.L., shield-bracted monkeyflower

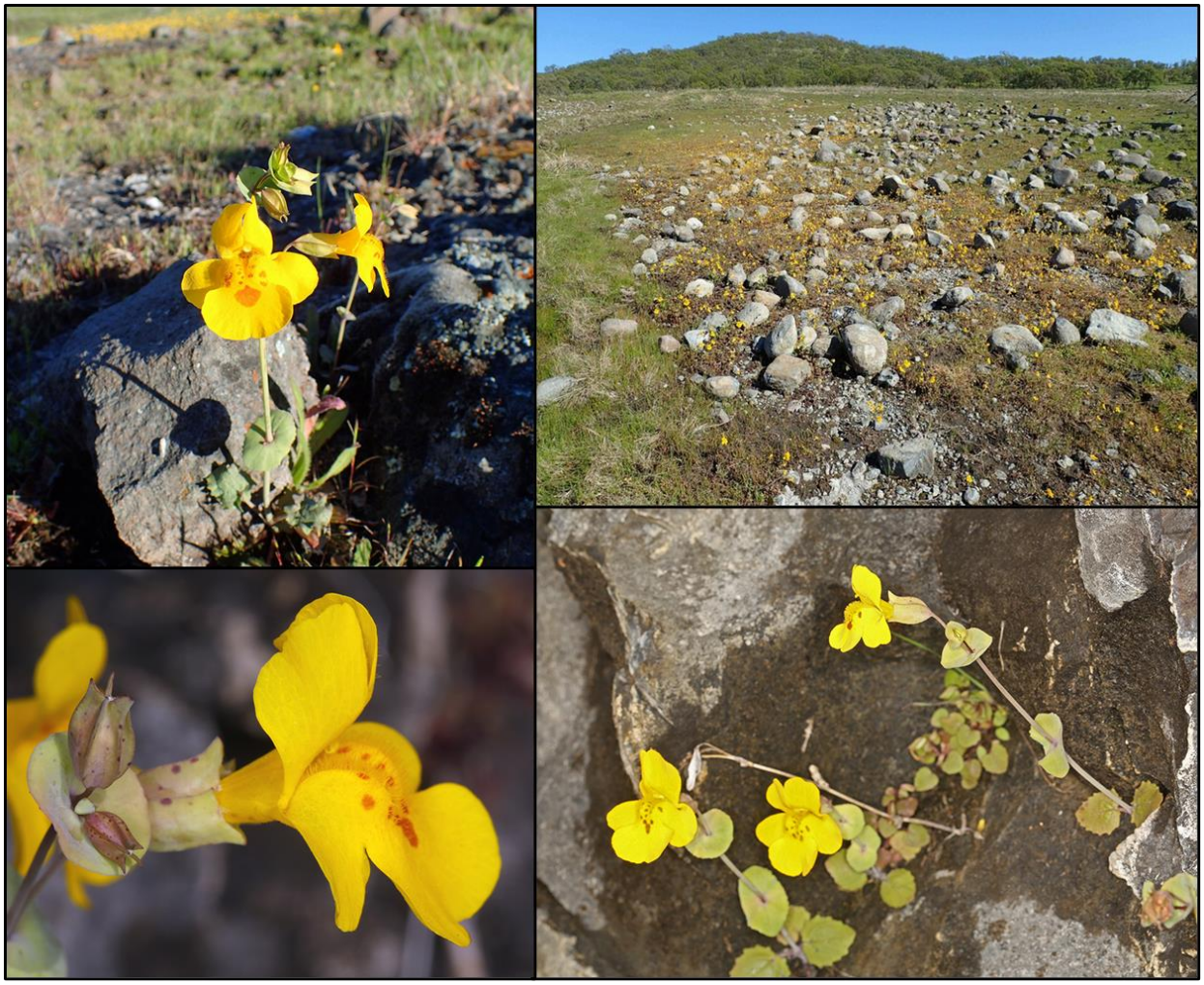


Photo Credits: Top: Neal Kramer, bottom: Steve Matson.

Photo Source: CalPhotos 2022

Status

Table 1 summarizes the current status of this species or subspecies/variety by various ranking entities and defines the meaning of the status.

Table 1. Current status of shield-bracted monkeyflower.

Entity	Status	Status Definition
NatureServe CA[a]	G3G4	G3: Vulnerable — At moderate risk of extinction or elimination due to a restricted range, relatively few

	S3S4	populations (often 80 or fewer), recent and widespread declines, or other factors. G4: Apparently Secure — Uncommon but not rare; some cause for long-term concern due to declines or other factors. S3: Vulnerable — Vulnerable in the state due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation. S4: Apparently Secure — Uncommon but not rare; some cause for long-term concern due to declines or other factors. Range Rank — A numeric range rank (e.g., G2G3 or S2S3) is used to indicate the range of uncertainty about the exact status of a taxon or community.
California Rare Plant Rank[b]	4.3	4: Plants of limited distribution. 0.3: Not very threatened in California. This taxon was added to the *CNPS Inventory of Rare and Endangered Plants of California* in 1974 as *Mimulus glaucescens* and has undergone no changes in rank since that 2001.
California State Listing[c]	Not listed	
USDA Forest Service[d]	Not listed	
USDI FWS[e]	Not listed	
USDI BLM[f]	Not listed	
NatureServe OR[g]	Not present	
Oregon State Listing[h]	Not present	
NatureServe NV[i]	Not present	
Nevada State Listing[j]	Not present	

[a] California Natural Diversity Database, California Dept. of Fish & Wildlife [CNDDB 2021, 2021a]
[b] California Native Plant Society [CNPS 2021]
[c] California Department of Fish and Wildlife [CDFW 2021]
[d] US Forest Service Region 5 Forester's List [USFS 2013] and Pacific NW Survey and Manage [USFS & BLM 2014]
[e] US Department of Interior Fish and Wildlife Service [USFWS 2021]
[f] US Department of Interior Bureau of Land Management [BLM 2020]
[g] Oregon Biodiversity Information Center [ORBIC 2019]
[h] Oregon Department of Agriculture [ODA 2018]
[i] Nevada Natural Heritage Program [NNHP 2021]
[j] Nevada Division of Forestry [NDF 2012]
Note: Individual State Heritage Programs (CNDDB, ORBIC, NNHP) represent NatureServe and contain more up-to-date ranks for their state than NatureServe Explorer.

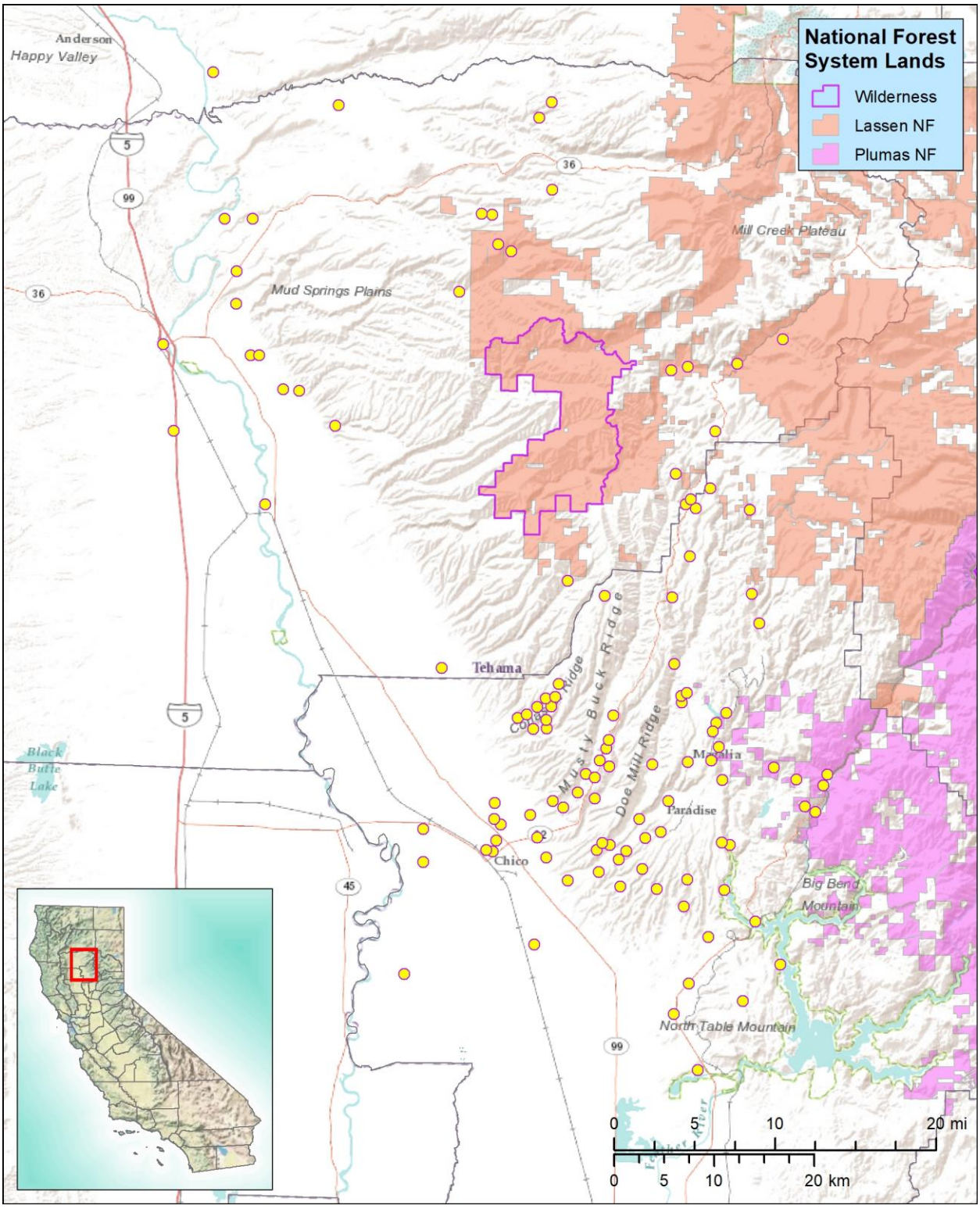
Distribution, abundance, and population trend on the planning unit[1]

Table 2 summarizes the distribution and frequency of this species or subspecies/variety within National Forest System Lands in California. Table 4 in Appendix 1 lists all known occurrences of this species or subspecies/variety within California. Individual occurrences are defined as sites that contain an individual, population, or groups of populations of the plant that are located more than 1/4 (0.25) of a mile apart from each other as defined by the CNDDB.

Table 2. Known occurrence frequency of shield-bracted monkeyflower within the planning area (NRIS, CNDDB, Calflora/CCH databases).

National Forest System (NFS) lands in California	Record #s (from Table 4)	CNDDB EOs	Non-CNDDB Records	Recent (seen in past 20 years)	Historical (not seen in past 20 years)	Most Recent Obs. Date	Total Records on NFS lands
Lassen:	81, 94, 102, 103, 104, 107, 109, 110	0	8	5	3	17-Apr-2020	8
Plumas:	37, 39, 45, 47, 50, 55, 60, 61, 62, 86	0	10	8	2	22-May-2021	10
Totals:	N/A	0	18	13	5	N/A	18

[1] 1909.12 Chapter 10, Section 12.53, components 2, 3, and 4.



Sources: *Distribution*: Calflora 2021, CCH2 2021, NRIS 2021. *Baselayers*: 2013 National Geographic Society, i-cubed, Esri, Garmin, NOAA, NPS, USGS.

Total number of occurrences for shield-bracted monkeyflower were estimated using GIS tools and methods described by Green and Sims (2018).

Shield-bracted monkeyflower is a California endemic that is known mainly from Butte and Tehama counties (Ivey pers. comm. 2021, Grossenbacher pers. comm. 2021). Shield-bracted monkeyflower is found at the juncture of the Cascades Range (CaR), northern Sierra Nevada Foothills (n SNF), northern High Sierra Nevada (n SNH), and Sacramento Valley (ScV) bioregions (Calflora 2021, CCH2 2021, JEPS 2021, NRIS 2021). Eighteen of 118 records are on National Forest lands. Eight records are either partially or wholly on the Lassen National Forest, and ten records are either partially or wholly on the Plumas National Forest. An additional record reported from the Sierra National Forest could not be confirmed, but it is well outside the range of this species and is probably not shield-bracted monkeyflower. The BLM has sole management of 11 locations for this species and shares management of six others. The City of Chico manages eight locations, the city of Paradise manages one, Butte County manages one, and Tehama county manages one. Four locations for this species are found on lands managed by the Nature Conservancy, and California State University, Chico manages one location and shares management with the City of Chico for another. Sixty-three records are found on land of unknown management. No records are in Wilderness Areas. Sixty-nine of its records are historical with twenty-two not visited in more than 50 years. One record (# 8) did not have a date of visit recorded but is probably recent since the name it was originally recorded under was *Erythranthe glaucescens*, which was not in use until after 2012.

Population numbers and abundance appear to be well documented for this species, with several locations being documented multiple times, and experts suggest that this species is common and not declining within its range (Ivey pers. comm. 2021). Nine records have been visited more than 50 years apart, with one record (#10) having first been documented in 1889, suggesting populations can persist over time. While 30 records have population numbers recorded, only eight records have had population numbers recorded from multiple visits. Half of the records with multiple population estimates showed an increase in population over time (record #'s 15, 44, 45, 72). Qualitative description of population size was most frequently "abundant" or "common." This suggests that populations are stable for this species, but the currently available population data is probably inadequate for predicting population trends for shield-bracted monkeyflower.

Twenty-three records were not included in this distribution analysis and are highlighted in pink at the end of Table 4. Seven of these records are incorrectly identified, and an additional five records are most likely misidentified based on location information. Ten records, including the type specimens for this species, did not have enough location information to be georeferenced, and one record may be based on a cultivated plant.

Brief description of natural history and key ecological functions[2]

Shield-bracted monkeyflower is an annual herb from fibrous roots or a slender taproot that flowers from February to August (September) (FNA 1993+, CNPS 2021 JEPS 2021). It is usually found in seeps, streambanks, and seasonally moist areas in chapparal, oak and conifer woodlands, and valley and foothill grasslands between 60–1240 m in elevation (FNA 1993+, CNPS 2021, JEPS 2021). Shield-bracted monkeyflower is often found in disturbed places and is considered a strong indicator of serpentine substrates (Safford and Miller 2020, Calflora 2021, CCH2 2021, NRIS 2021). Associated species include: *Adiantum aleuticum, Aesculus californica, Allium amplectens, Ceanothus cuneatus, Collinsia sparsiflora, Diplacus layneae, Eriogonum umbellatum* var. *ahartii* (CRPR 1B.2)*, Erythranthe bicolor, E. guttata, E. moschata, Pinus ponderosa, P. sabiniana, Quercus douglasii, Q. kelloggii, Q. wislizeni, Toxicodendron diversilobum, Trifolium willdenovii,* and *Umbellularia californica* (Calflora 2021, CCH2 2021, NRIS 2021).

Erythranthe has 111 species that occur in the Americas and Asia, with its center of diversity in California (Beardsley et al. 2004, Barker et al. 2012). *Erythranthe* may speciate fairly quickly, and several groups within the genus, including the *E. guttata* complex, may consist of more species than currently described (Barker et al. 2012). Shield-bracted monkeyflower is part of the *E. guttata* group in section *Simiola*. The majority of species in this section are annual, and the annual habit is probably the ancestral state for species in this section (Nesom 2014). Shield-bracted monkeyflower currently encompasses both annual and perennial plants, and some researchers believe that the perennial specimens may be an undescribed species of *Erythranthe* or the result of hybridization with *E. guttata* (Taylor 2013, Nesom 2014). Shield-bracted monkeyflower has been shown to hybridize with *E. guttata* in the greenhouse and the genetic boundaries between these species are apparently weak. However very few hybrids are seen in the wild, possibly due to differences in habitat and flowering time (Ivey pers. comm. 2021, Ewald and Ivey 2022). Shield-bracted monkeyflower grows from 6–80 cm tall. It is distinguished by having ovate to round, glabrous to glaucous leaves, round, glaucous inflorescence bracts that encircle the stem, and yellow flowers in a raceme inflorescence (FNA 1993+, JEPS 2021).

Pollination in *Erythranthe* species has been well studied. *Erythranthe guttata,* a close relative of shield-bracted monkeyflower with similar floral characteristics, exhibits a mixed mating strategy. That is, while *E. guttata* is adapted for insect pollination, it can also self-pollinate, though selfing populations may show signs of inbreeding depression (e.g. smaller flowers and fruits with reduced seed set) (Arathi and Kelly 2004, Ivey and Carr 2005). While it is most commonly visited by bumblebees, *E. guttata* appears to be a generalist, and is also frequently visited by a wide variety of other bee genera (e.g. mining bees, mason bees, honeybees) as well as syrphid flies (Ivey and Carr 2005, Bodbyl Roels and Kelly 2011). *Erythranthe* species produce several hundred tiny seeds per fruit (Ivey and Carr 2005), which are likely distributed by wind and water. While no direct study has been made, shield-bracted monkeyflower may benefit from disturbances such as fire. Fire could reduce competition from other plants and has been observed

[2] Basis for other 1909.12 Chapter 10, Section 12.53 components.

to increase flowering in several other species of *Erythranthe*, including another serpentine-associated species from section *Simiola*, *E. serpenticola* (Ivey pers. comm. 2021, Grossenbacher pers. comm. 2021, Schoenig pers. comm. 2021).

Overview of ecological conditions for recovery, conservation, and viability[3] including Threats and Risk Factors

Habitat quality has not been described for shield-bracted monkeyflower, and no specific threats have been noted for this species. Thirty-three records are within the perimeter of the 2018 Camp Fire; those populations that have been revisited since the fire appear to be recovering (Calflora 2021, Ivey pers. comm. 2021, CCH2 2021, NRIS 2021).

Climate change could potentially disrupt plant-pollinator relationships for many flowering plant species, including shield-bracted monkeyflower through changes in plant or pollinator phenology. Changes in co-flowering species could also disrupt plant-pollinator relationships, potentially affecting long-term reproductive success and survival of insect-pollinated wildflowers (Alexander et al. 2015, Theobald et al. 2017). However, these disruptions might be less likely in plants with generalist pollinator relationships. Changes in average temperature and rainfall could also have effects on the survival of shield-bracted monkeyflower. Research suggests that serpentine-adapted species may be more tolerant of drought than non-serpentine species due to the functional traits needed to survive in serpentine soils (Damschen et al 2012, Harrison et al. 2015). However, lower tree canopy cover in serpentine habitats means temperature increases are more pronounced in these areas (Damschen et al. 2012, Harrison et al. 2015), and shield-bracted monkeyflower's preference for mesic habitats may make it more vulnerable to drought stress than some other serpentine associated species. Serpentine adapted species may also be less able to migrate to other suitable habitats due to the patchy distribution of serpentine substrates (Damschen et al. 2012, Harrison et al. 2015). A plant's ability to migrate due to climate change could also be restricted by biotic interactions or dispersal ability (Ettinger and HilleRisLambers 2013).

Taxonomy[4]

Table 3 summarizes this species or subspecies/variety's name status in key literature.

Table 3. Name status of shield-bracted monkeyflower.

Entity	Name Status
CNDDB and CNPS	*Erythranthe glaucescens* (Greene) G.L. Nesom
Jepson eFlora	*Erythranthe glaucescens* (Greene) G.L. Nesom
Jepson Manual (1993)	*Mimulus glaucescens* Greene
Flora of North America	*Erythranthe glaucescens* (Greene) G. L. Nesom
USDA NRCS[a] PLANTS	*Mimulus glaucescens* Greene
[a] Natural Resources Conservation Service [NRCS 2021]	

[3] 1909.12 Chapter 10, Section 12.53, components 7, 9, 10, 11 and 12, as appropriate.
[4] 1909.12, Chapter 10, Section 12.53, component 1.

Synonymy*: Mimulus glaucescens* Greene, *Mimulus guttatus* DC. var. *glaucescens* (Greene) Jeps. (JEPS 2021)

Jepson eFlora link (JEPS 2021): https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=99127

Type locality: Butte County, California (*Austin s.n.*, CAS) (Greene 1885, CCH2 2022).

Key literature

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Author(s) and Date:

Molly S. Wiebush, California Native Plant Society, Rare Plant Botanist Coordinator, 11 February 2022

Reviewer(s) and Date:

Aaron E. Sims, California Native Plant Society, Rare Plant Program Director, 27 April 2022

Formatting: Form is set up as 508 compliant. Please use the “styles” if further formatting is necessary.

Purpose: This is to maintain the best available science on a species that could be used by the Forest Service in a variety of functions. Specifically, there would be additional steps and evaluations to determine whether or not this species would be considered a Species of Conservation Concern under the 2012 Planning Rule or a Sensitive Species under the 1982 Planning Rule.

Appendix 1: Known Occurrences

Table 4. Known occurrences of shield-bracted monkeyflower within California (NRIS, CNDDB, Calflora/CCH databases).

Duplicate records from the same site are given the same record number and are included in red. Rows containing questionable records are highlighted in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
1	Ca 0.5 mi W of the Thermalito Forebay Picnic Area, ca 2.5 mi NW of Oroville. T19N R03E S01 NW1/4	Butte	Oroville (3912155)	CCH2, Nov. 2021 (CHSC044780)	7-Apr-1980			Lake Oroville State Recreation Area	299
2	Butte County: from junction of Hwys. 70 and 149, 11.8 mi e and 6.1 mi up Cherokee Rd. from junction of Table Mtn. Blvd. and Cherokee Rd. ca. 50 yds. w.	Butte	Oroville (3912155)	CCH2, Nov. 2021 (DAV398601)	18-Apr-1975			unknown	1601
3	North Table Mtn., Cherokee Rd. ca. 6 mi. n of Oroville.	Butte	Oroville (3912155)	CCH2, Nov. 2021 (CHSC045736)	15-Apr-1988			North Table Mountain Ecological Preserve	801
4	n Oroville (Table Mountain Olive Ranch)	Butte	Oroville (3912155)	CCH2, Nov. 2021 (UC176073)	23-May-1912			unknown	
4	Table Mountain Olive Ranch north of Oroville	Butte	Oroville (3912155)	CCH2, Nov. 2021 (GH 00367256)	23-May-1912			unknown	

Duplicate records from the same site are given the same record number and are included in red. Rows containing questionable records are highlighted in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
5	Little Chico Creek	Butte	Llano Seco (3912158)	CCH2, Nov. 2021 (UC103699)	1-Apr-1883			unknown	
5	Little Chico Canyon	Butte	Llano Seco (3912158)	CCH2, Nov. 2021 (UC103740)	1890			unknown	
6	9 miles southeast of Paradise	Butte	Berry Creek (3912164)	CCH2, Nov. 2021 (RSA 1180792)	8-Jun-1950			Lake Oroville State Recreation Area	
7	1/4 mi e of Durham, 50 yds n of Durham Highway on the w bank of Butte Creek.	Butte	Chico (3912167)	CCH2, Nov. 2021 (CHSC044944)	23-Apr-1988			unknown	220
7	Durham	Butte	Chico (3912167)	CCH2, Nov. 2021 (CAS 153868)	20-Mar-1932			unknown	
8		Butte	Cherokee (3912165)	CCH2, Nov. 2021 (CHSC062829)	unknown			Lake Oroville State Recreation Area	
9	6 miles southeast of Paradise	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (CAS 153870)	8-Jun-1950			unknown	

Duplicate records from the same site are given the same record number and are included in red. Rows containing questionable records are highlighted in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
9	6 miles southeast of Paradise	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (RSA 730427)	8-Jun-1950			unknown	
10	near coverd bridge	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (UC726352)	4-May-1938			Lake Oroville State Recreation Area	
10	Near Covered Bridge over Butte Creek	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (RSA 1178788)	4-May-1938			Lake Oroville State Recreation Area	
10	Near Covered Bridge over Butte Creek, east of Chico	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (RSA 761745)	4-May-1938			Lake Oroville State Recreation Area	
10	Downslope of Honey Run Road, alongside Butte Creek, located at the former Honey Run Covered Bridge site.	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (CHSC123801)	23-May-2021			Lake Oroville State Recreation Area	
10		Butte	Cherokee (3912165)	CCH2, Nov. 2021 (UC26940)	1-Mar-1898			Lake Oroville State Recreation Area	

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
10	Butte Creek.	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (CHSC001789)	25-Mar-1929			Lake Oroville State Recreation Area	
10	Around Covered Bridge on Humbug Rd., ca. 6 mi. E of Chico	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (HSC219665)	26-Apr-1974			Lake Oroville State Recreation Area	
10	About 50 yds south of Butte Creek and 300 yds west of the Covered Bridge (Covered Bridge is 35 yds southeast of intersection of Humbug and Honey Run Road), 6.5 mi east-southeast of Chico.	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (CHSC090151)	24-Apr-1980			Lake Oroville State Recreation Area	459
10	Along the bank of Butte Creek, downslope from Honey Run Road, on the opposite (non-roadside) bank of the creek. Near a popular swimming area SW of the Honey Run Covered Bridge site.	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (CHSC123806)	23-May-2021			Lake Oroville State Recreation Area	

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
10	Near the covered bridge over Butte Creek east of Chico	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (CAS 153858)	4-May-1938			Lake Oroville State Recreation Area	
10	Along the bank of Butte Creek, downslope of Honey Run Road, near sign for WildHeart Bunnies & Appaloosas Horses Ranch.	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (CHSC123804)	23-May-2021			Lake Oroville State Recreation Area	
11	Below the high water line of Lake Oroville, about 400 yards east of where Kunkle Creek enters Lake Oroville, east of the Kunkle Power House, about 3 miles southeast of Paradise. T21N R04E S07 NE1/4	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (CHSC078169)	31-May-2000			unknown	889
12	Berry Canyon (near Clear Creek).	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (RSA727939)	6-May-1902			unknown	
12	Berry Canyon (Near Clear Creek)	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CAS 153860)	6-May-1902			unknown	

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
12	Berry Canyon (Near Clear Creek)	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CAS 153866)	6-May-1902			unknown	
12	Berry Canyon (Near Clear Creek)	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (GH 00367259)	6-May-1902			unknown	
13	about 5 mi from Paradise (near the Neale grade)	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (UC1303145)	26-Apr-1926			unknown	
13	Near the Neale Grade about 5 miles from Paradise	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (RSA 1024955)	26-Apr-1926			unknown	
13	near the Neale grade about 5 miles from Paradise; Upper Sonoran Life Zone.	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (OSC 4290019)	26-Apr-1926			unknown	
13	Near the Neale grade about 5 miles from Paradise	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CAS 153863)	26-Apr-1926			unknown	
13	near the Neale grade about 5 miles from Paradise	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (GH 00367252)	26-Apr-1926			unknown	
14	Ca. 100 yd s of Skyway, ca 5 mi ese of Chico.	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC024153)	20-Apr-1976			County of Butte	699

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
15	#fire	Butte	Cherokee (3912165)	Calflora, Nov. 2021 (mg130049)	2-Apr-2021	1001 - 10000 individuals		unknown	
15		Butte	Cherokee (3912165)	Calflora, Nov. 2021 (gp7153)	20-Apr-2018	11 - 50 individuals		unknown	1227
15		Butte	Cherokee (3912165)	Calflora, Nov. 2021 (gp7154)	20-Apr-2018	11 - 50 individuals		unknown	1112
15		Butte	Cherokee (3912165)	Calflora, Nov. 2021 (gp7155)	20-Apr-2018	11 - 50 individuals		unknown	1112
16		Butte	Hamlin Canyon (3912166)	Calflora, Nov. 2021 (gp10617)	18-Apr-2017	30 individuals		unknown	663
16		Butte	Hamlin Canyon (3912166)	Calflora, Nov. 2021 (gp10618)	18-Apr-2017	30 individuals		unknown	738
16		Butte	Hamlin Canyon (3912166)	Calflora, Nov. 2021 (gp10619)	18-Apr-2017	30 individuals		unknown	742
17	Along Neal Rd 5.4 mi NE of its jct with Hwy 99, Ca 2.8 mi SW of the town of Paradise. T22N R03E S32 S central area	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC044784)	16-Mar-1980			unknown	899
18	#fire	Butte	Chico (3912167)	Calflora, Nov. 2021 (mg87440)	6-Jun-2019	51 - 100 individuals		unknown	279
18	#fire	Butte	Chico (3912167)	Calflora, Nov. 2021 (mg82058)	14-Apr-2019	1001 - 10000 individuals		unknown	988

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
18		Butte	Chico (3912167)	Calflora, Nov 2021 (mg145206)	24-Jul-2021	2-10 individuals		unknown	
19	#fire Camp 2018	Butte	Hamlin Canyon (3912166)	Calflora, Nov. 2021 (mg87912)	12-Jun-2019	2 - 10 individuals		unknown	981
19	Along the Skyway 5.5 mi E of Chico, ca 6 mi SW of Paradise. T22N R02E S25 SE1/4	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC044786)	19-Mar-1980			unknown	1001
20	Chico.	Butte	Chico (3912167)	CCH2, Nov. 2021 (RENO 94644)	16-Apr-1963			unknown	
20	Chico	Butte	Chico (3912167)	CCH2, Nov. 2021 (CAS 153856)	15-May-1903			unknown	
20	Chico	Butte	Chico (3912167)	CCH2, Nov. 2021 (GH 00367258)	15-May-1903			unknown	
20	Chico	Butte	Chico (3912167)	CCH2, Nov. 2021 (CAS 153862)	Mar-1900			unknown	
20	Chico	Butte	Chico (3912167)	CCH2, Nov. 2021 (RSA 1231469)	15-May-1903			unknown	
20	Chico	Butte	Chico (3912167)	CCH2, Nov. 2021 (UC75182)	15-May-1903			unknown	

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20	Chico	Butte	Chico (3912167)	CCH2, Nov. 2021 (UC336554)	27-Jun-1890			unknown	
20	Near Chico, Butte County, California.	Butte	Chico (3912167)	CCH2, Nov. 2021 (US 279139)	7-Jun-1892			unknown	
21	#fire Camp 2018	Butte	Hamlin Canyon (3912166)	Calflora, Nov. 2021 (mg82527)	19-Apr-2019	11 - 50 individuals		unknown	1083
22	CSUC Campus. S. bank Chico Ck., e of Warner St. Bridge.	Butte	Chico (3912167)	CCH2, Nov. 2021 (CHSC027272)	16-Apr-1972			Big Chico Creek Greenway	200
22	S bank Chico Creek, e of Warner St. bridge	Butte	Chico (3912167)	CCH2, Nov. 2021 (GH 00395130)	16-Apr-1972			Big Chico Creek Greenway	
23	Along the bluffs 0.7 mi NW of the Covered Bridge, ca 6.8 mi E of Chico. T22N R02E S26 SE1/4	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC044680)	13-Apr-1980			unknown	1001
24	W. Branch of Feather River.	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (CHSC001767)	2-Jul-1952			Lake Oroville State Recreation Area, BLM	

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25	Centerville Road, about 1 km NE of Honeyrun Bridge, on W side of road, growing in road cut.	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC118886)	27-May-2017			unknown	420
25	N side of Humbug Rd, ca. 0.5 mi E of Honey Run Covered Bridge, ca. 6 air mi E of Chico. T22N R02E S25	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC039936)	4-Apr-1984			unknown	600
25	W side of Centerville Rd. about 0.8 km N of intersection with Honey Run Rd.	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC123655)	4-May-2021			unknown	
26	Centerville Rd. about 1 km N of Honey Run bridge. Roadside ditch on W side of road.	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC110631)	17-May-2013			unknown	377
27	Sierra Nevada; Paradise. Lot 55, Harrison Road.	Butte	Cherokee (3912165)	CCH2, Nov. 2021 (SFV110091)	26-May-1962			unknown	1706
28	Little Chico.	Butte	Chico (3912167)	CCH2, Nov. 2021 (RSA 1241369)	Feb-1897			unknown	
28	Little Chico	Butte	Chico (3912167)	CCH2, Nov. 2021 (CAS 153859)	Mar-1897			unknown	

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29	Bidwell Heights Road 3/4 mi from junction with Hwy 32, east of Chico.	Butte	Chico (3912167)	CCH2, Nov. 2021 (CHSC090149)	19-Apr-1984			unknown	1450
30	Honeyrun Road, about 6 km NE of bridge crossing Butte Creek, roadside ditch on S side or road.	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC118882)	27-May-2017			unknown	1391
30	Along Honey Run Road, 1 mile below and west of Paradise in upper reaches of Butte Creek canyon.	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (JEPS29841)	1-Jun-1962			unknown	1198
31	#fire Camp 2018	Butte	Hamlin Canyon (3912166)	Calflora, Nov. 2021 (mg83856)	1-May-2019	1 individuals		unknown	1339
31	Along Honeyrun Rd ca 3.6 mi NE of the Covered Bridge, Ca 3.7 mi SW of Paradise. T22N R03E S20 center	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC044677)	11-Apr-1980			unknown	801
31	Honey Run Road, 3.5 km NE of bridge crossing Butte Creek, in roadside ditch.	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC105770)	7-Jun-2010			unknown	541

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
31	Honey Run Road, 3.5 km northeast of bridge crossing Butte Creek, in roadside ditch.	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (Christopher T. Ivey)	7-Jun-2010			unknown	541
31	Honey Run Road, 7.7 km NE of bridge crossing Butte Creek, in roadside ditch.	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC105774)	7-Jun-2010			unknown	1401
31	Honey Run Road, 7.7 km northeast of bridge crossing Butte Creek, in roadside ditch.	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (Christopher T. Ivey)	7-Jun-2010			unknown	1401
31	Honeyrun Road, about 3.5 km NE of drige crossing Butte Creek, roadside ditch.	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC118857)	27-May-2017			unknown	633
31	Honeyrun Road,, about 4.5 km NE of bridge crossing Butte Creek, roadsie ditch on E side of road.	Butte	Hamlin Canyon (3912166)	CCH2, Nov. 2021 (CHSC118861)	27-May-2017			unknown	1043
31	#fire Camp 2018	Butte	Hamlin Canyon (3912166)	Calflora, Nov. 2021 (mg87509)	7-Jun-2019	11 - 50 individuals		unknown	866
31	#fire Camp 2018	Butte	Hamlin Canyon (3912166)	Calflora, Nov. 2021 (mg87527)	7-Jun-2019	2 - 10 individuals		unknown	1076

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31		Butte	Hamlin Canyon (3912166)	Calflora, Nov. 2021 (mg108711)	10-Apr-2020	11 - 50 individuals		unknown	951
32	Mud Creek Bridge, Meridian Way ca. 3 mi w of Chico.	Butte	Ord Ferry (3912168)	CCH2, Nov. 2021 (CHSC045725)	18-Apr-1988			unknown	141
33	Chico: 100 yds E from 5th Ave bridge in Lindo Channel, on N side.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC051924)	25-Apr-1988			Lindo Channel	
33	About 1/10 mile east of Longfellow Avenue, Chico.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC040886)	6-May-1985			Lindo Channel	200
33	On the bottom of Lindo Channel, about 1/10 mile east of Longfellow Avenue, Chico	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (153857)	May-1985			Lindo Channel	213
34	2 mi n Chico	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (UC625527)	23-Apr-1938			unknown	197
34	Two miles north of Chico	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CAS 153867)	23-Apr-1938			unknown	
34	Two miles north of Chico	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (GH 00367255)	23-Apr-1938			unknown	

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35	By small stream S of Centergap Rd on N face Butte Cr cyn. 10 mi ENE of Chico, 4 mi ENE of Covered Bridge.	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC051925)	29-Mar-1987			unknown	961
36	Butte County: Upper Bidwell Park on banks of Lindo Diversion Channel North of Centennial Ave.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (DAV398598)	4-May-2008	Population size greater than 1000 individuals		Bidwell Park	262
36	Upper Bidwell Park on banks of Lindo Diversion Channel north of Centennial Ave.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (Dena Grossenbacher 8)	4-May-2008	Population size greater than 1000 individuals, 60% in flower and 40% in fruit.		Bidwell Park	262
36	near Hooker Oak; Chico	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (JEPS5567)	1921			Bidwell Park	
37		Butte	Pulga (3912174)	Calflora, Nov. 2021 (mg42172)	12-May-2017	1 individuals		Plumas NF	1385
37	Along Hwy 70, 2.4 mi S of its jct with the Feather River. T22N R05E S07 SW1/4	Butte	Pulga (3912174)	CCH2, Nov. 2021 (CHSC044684)	12-May-1980			Plumas NF	2001
37		Butte	Pulga (3912174)	NRIS, Jul. 2021 (051103_MIGL2_001)	11-May-1998			Plumas NF	

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
37	Bardees Bar Road, about 100 yards north of poor bridge across the North Fork of the Feather River at Bardees Bar, about 2 1/2 miles (air) southwest of pulga.	Butte	Pulga (3912174)	CCH2, Nov. 2021 (L. Ahart 12614)	10-May-2006			Plumas NF	1165
37	north side of the poor dirt road, Bardees Bar Road, about 100 yards north of the poor bride across the North Fork of the Feather River at Bardees Bar, about 2 1/2 miles (air) southwest of Pulga.	Butte	Pulga (3912174)	CCH2, Nov. 2021 (OSC 4277002)	10-May-2006			Plumas NF	
37	Road cut bank, on the north side of the poor dirt road, Bardees Bar Road, about 100 yards north of the poor bridge across the North Fork of the Feather River at Bardees Bar, about 2 1/2 miles (air) southwest of Pulga	Butte	Pulga (3912174)	CCH2, Nov. 2021 (JEPS108856)	10-May-2006			Plumas NF	1161

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
37	Road cut bank, on the north side of the poor dirt road, Bardees Bar Road, about 100 yards north of the poor bridge across the North Fork of the Feather River at Bardees Bar, about 2 1/2 miles (air) southwest of Pulga. T22N R05E S07 SE1/4	Butte	Pulga (3912174)	CCH2, Nov. 2021 (CHSC093508)	10-May-2006			Plumas NF	1161
37	Butte County: Along Bardees Bar Road about 0.1 miles from Bardees Bar.	Butte	Pulga (3912174)	CCH2, Nov. 2021 (DAV398599)	3-May-2008			Plumas NF	1217
37		Butte	Pulga (3912174)	Calflora, Nov. 2021 (mg65703)	7-Jun-2018	51 - 100 individuals		Plumas NF	1112

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38	CASade Range Foothills; ca. 5.1 air-miles northeast of Chico City Hall, ca. 1.3 air-miles east by southeast of Horseshoe Lake, ca. 1.2 air-mile west of Hwy 32; south-facing slope, north of tributary of Dead Horse Slough, east of Canyon Oaks Golf Course.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC085410)	7-May-1992			unknown	581
38	Butte Co., city of Chico, Upper Bidwell Park about 1 km east of Horseshoe Lake, on northern slope alongside gravel road that follows Chico Creek	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (DAV398594)	11-Apr-1998			unknown	341
39		Butte	Pulga (3912174)	Calflora, Nov. 2021 (po165476)	7-Sep-2020	101 - 1000 individuals		Plumas NF	2720
39		Butte	Pulga (3912174)	Calflora, Nov. 2021 (po165475)	7-Sep-2020	101 - 1000 individuals		Plumas NF	2727
39		Butte	Pulga (3912174)	Calflora, Nov. 2021 (po165474)	7-Sep-2020	101 - 1000 individuals		Plumas NF	2733

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40	3 mi n Chico	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (JEPS5545)	18-May-1937			unknown	
40	3 mi n Chico	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (JEPS5550)	21-May-1936			unknown	
40	3 miles north of Chico	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (RSA 1142585)	21-May-1936			unknown	
40	3 mi n Chico	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (JEPS5590)	24-Apr-1938			unknown	
40	3 mi n of Chico	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (JEPS79788)	24-Apr-1938			unknown	
40	3 miles north of Chico	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (RSA 1206892)	24-Apr-1938			unknown	
41		Butte	Paradise West (3912176)	Calflora, Nov. 2021 (mg110881)	4-May-2020	11 - 50 individuals		Paradise Recreation and Park District	1555
42	Upper Bidwell Park, Chico, on the north clope ca. 600 ft w of the power lines abd 1600 ft n of the Upper Park Rd.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC038700)	9-Mar-1983			Bidwell Park	499

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42	Yahi Trail, Chico, CA 95973, USA	Butte	Richardson Springs (3912177)	Calflora, Nov 2021 (mu17915)	22-Mar-2021	1+ individuals		Bidwell Park	
43	Low in cyn of Little Chico Cr ca 2 mi S of Ten Mile House. T22N R02E S11 SW1/4 of NE1/4 USGS Quadrangle: Paradise West 1:24,000	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC043856)	21-Feb-1988			unknown	801
44	About 50 feet east of South Rim Trail, south part of Upper Bidwell Park, about 2 1/2 miles (air) northeast of Chico.	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (JEPS119594)	9-Apr-2012			Bidwell Park	686
44	Southrn Sierra Nevada Foothills. Upper Bidwell Park, approximately 2.5 air km east of Horseshoe Lake. Directly west of Upper Trail where it crosses a small perennially damp drainage north of the Bear Hole. T22N R02E S09 NE1/4 of NE1/4 USGS Quadrangle: Ric	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC112893)	3-Apr-2014			Bidwell Park	610

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44	4.3 mi e of upper Bidwell Park entrance 50 yds. n of road.	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC007109)	4-Apr-1969			Bidwell Park	699
44	Vic. Salmon Hole; ca. 5 mi e of Chico Municipal Golf Course; Chico	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (UCSB009562)	15-Mar-1988			Bidwell Park	
44	Chico, Upper Bidwell Park, Salmon Hole, above Chico Creek, on rock outcrop.	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC077495)	24-Apr-1997			Bidwell Park	98
44	Bear Hole, Upper Bidwell Park. Found near Chico creek along old diversion canal. T22N R02E S	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC078102)	6-Apr-1999			Bidwell Park	400
44	Near a small drainage, about 50 feet west of South Rim Trail, south part of Upper Bidwell Park, about 2 1/2 miles (air) northeast of Chico. T22N R02E S10 NE1/4_____ _____	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC108801)	9-Apr-2012			Bidwell Park	686
44	Butte County county, near Fenced Rd, Chico, CA 95973, USA	Butte	Paradise West (3912176)	Calflora, Nov. 2021 (gp7058)	8-Apr-2018	11 - 50 individuals		Bidwell Park	502

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
44		Butte	Paradise West (3912176)	Calflora, Nov. 2021 (gp20661)	4-Mar-2020	1+ individuals		Bidwell Park	453
44		Butte	Paradise West (3912176)	Calflora, Nov. 2021 (gp20654)	4-Mar-2020	1+ individuals		Bidwell Park	505
44	Annie Bidwell Trail, Chico, CA 95928, USA	Butte	Paradise West (3912176)	Calflora, Nov. 2021 (mu146)	19-Mar-2020	1+ individuals		Bidwell Park	564
44		Butte	Paradise West (3912176)	Calflora, Nov 2021 (mg137996)	2-Jun-2021	101 - 1000 individuals		Bidwell Park	
44	Ca. 100 ft. E of Salmon Hole, N slope Chico Creek, 2.3 mi E of golf course in Upper Bidwell Park, E of Chico	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (HSC219664)	29-Mar-1978			Bidwell Park	249
44	Butte County: Bidweel Park e of Chico, n of Chico municipal golf course.	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (DAV398603)	20-Apr-1981			Bidwell Park	322

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
45	Above side road off U.S. highway 40 in canyon of the N. Fk. of Feather River; at northern base of grade over Jarbo Gap, and just before bridge across Feather River, 0.75 mile south of Pulga.	Butte	Pulga (3912174)	CCH2, Nov. 2021 (JEPS34388)	1-Jun-1963			Plumas NF	1398
45	1 mi S of Pulga, North Fork Feather River	Butte	Pulga (3912174)	CCH2, Nov. 2021 (OBI138399)	8-May-1967			Plumas NF	1401
45	1 mile south of Pulga, North Fork, Feather River	Butte	Pulga (3912174)	CCH2, Nov. 2021 (RSA 1193340)	8-May-1967			Plumas NF	
45	just above Pulga Bridge; North Fork Feather River Canyon	Butte	Pulga (3912174)	CCH2, Nov. 2021 (JEPS50780)	16-Jun-1967			Plumas NF	
45	Ca. .8 km sw of Pulga. 120 m n of North Fork of Feather River, along Pulga Rd., ca. 100 m from juncture with Hwy 70. T22N R05E S06	Butte	Pulga (3912174)	CCH2, Nov. 2021 (CHSC025360)	22-Apr-1977			Plumas NF	1624

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
45	N side of Feather River, Hwy. 70 at Pulga bridge, ca. 20 mi. NE of Oroville	Butte	Pulga (3912174)	CCH2, Nov. 2021 (HSC219668)	10-Jul-1981			Plumas NF	1601
45	Hwy. 70, along the Feather River above Lake Oroville, at the highway bridge crossing the river at Pulga.	Butte	Pulga (3912174)	CCH2, Nov. 2021 (OSC 4281354)	29-Apr-1987			Plumas NF	
45	Pulga Road, near intersection with Hwy 70.	Butte	Pulga (3912174)	CCH2, Nov. 2021 (RSA0087956)	9-May-2013			Plumas NF	1608
45	Pulga Road, near intersection with Hwy. 70.	Butte	Pulga (3912174)	CCH2, Nov. 2021 (CHSC110632)	9-May-2013			Plumas NF	1608
45		Butte	Pulga (3912174)	Calflora, Nov. 2021 (mg10996)	28-Apr-2015	2 - 10 individuals		Plumas NF	1591
45		Butte	Pulga (3912174)	Calflora, Nov. 2021 (mg21676)	23-Mar-2016	51 - 100 individuals		Plumas NF	1729
46	#fire Camp 2018	Butte	Paradise East (3912175)	Calflora, Nov. 2021 (mg89045)	21-Jun-2019	51 - 100 individuals		BLM	1854
47	Pulga	Butte	Pulga (3912174)	Calflora, Nov. 2021 (jgr9987)	2-Apr-1994	1+ individuals		Plumas NF	1440
48		Butte	Paradise West (3912176)	Calflora, Nov. 2021 (io2813)	10-May-2018	11 - 50 individuals		Bidwell Park	745

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48		Butte	Paradise West (3912176)	Calflora, Nov. 2021 (gp7190)	26-Apr-2018	1+ individuals		Bidwell Park	663
49	Sierra Nevada foothills within upper Bidwell Park in Chico on the east-side addition along Hwy. 32. Along drainage on Guardian Trail. UTM: 10609595E 4405947N. USGS Quadrangle: Paradise West 1:24,000	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC087424)	20-Mar-2004	Every wet area/seasonal drainage along Guardian Trail has a population of M. glaucescens.		Bidwell Park	1260
49	highway 32, ca. 7.5 mi e of junction with Highway 99 at Chico.	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (OSC 4355565)	10-Apr-1978			Bidwell Park	
49	Found along the walking down the south rim trail located on the east side of Big Chico Creek. Located down from the green gate and left at the split in the trail to a seep area. T23N R02E S35 USGS Quadrangle: Paradise West 1:24,000	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC082612)	23-Apr-2002			Bidwell Park	1276

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
49	In a wet drainage, on the west side of Guardians Trail, about 300 yards southwest of Pine Trail, Upper Bidwell Park, about 5/8 mile (air) southwest of the intersection of Highway 32 and Ten Mile House Road, about 10 miles northeast of Chico. T22N R02E S02	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC101675)	26-Apr-2009			Bidwell Park	1253
49	On the west side of Guardians Trail, about 300 yards southwest of Pine Trail, Upper Bidwell Park, about 5/8 mile (air) southwest of the intersection of Highway 32 and Ten Mile House Road, about 10 miles northeast of Chico.	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (JEPS115821)	26-Apr-2009			Bidwell Park	1250
50	1/8 mile east of the dirt road, about 1 1/2 miles north-east of Concow Res.	Butte	Pulga (3912174)	CCH2, Nov. 2021 (CHSC040884)	15-May-1985			Plumas NF	2402

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50	1/8 miles east of the dirt road, about 1 1/2 miles north-east of Concow Res.	Butte	Pulga (3912174)	CCH2, Nov. 2021 (153855)	May-1985			Plumas NF	2625
50	FLEA DFPZ	Butte	Pulga (3912174)	NRIS, Jul. 2021 (051103_MIGL2_003B)	25-Apr-2005	10 individuals		Plumas NF	
50	FLEA DFPZ	Butte	Pulga (3912174)	NRIS, Jul. 2021 (051103_MIGL2_003A)	26-Apr-2005	10000 individuals		Plumas NF	
50	FLEA DFPZ	Butte	Pulga (3912174)	NRIS, Jul. 2021 (051103_MIGL2_003)	23-May-2006	2000 individuals		Plumas NF	
50	#fire Camp Fire, November 2018	Butte	Pulga (3912174)	Calflora, Nov. 2021 (io12334)	27-Apr-2019	101 - 1000 individuals		Plumas NF	3071
50		Butte	Pulga (3912174)	NRIS, Jul. 2021 (051103_MIGL2_003B_001)	27-Apr-2019	100 individuals		Plumas NF	
50	2 miles west of Pulga	Butte	Pulga (3912174)	CCH2, Nov. 2021 (CAS 153871)	19-Aug-1951			Plumas NF	

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50	Above Concow Road, about 130 meters south of the intersection with Rim Road.	Butte	Pulga (3912174)	NRIS, Jul. 2021 (051103_MIGL2_005)	1-May-2019	1000 individuals		Plumas NF	
51	Butte County: ca. 0.5 mi sw of Hwy 32 on Crown Pt Rd, 11 mi nw of Chico.	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (DAV398596)	18-Apr-1982			Little Chico Canyon	1801
52	ca. 500 m n of Helltown Bridge, 10 m w of Butte Creek, 1.6 km n of Centervilled, 22.5 km ene of Chico	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CSLA017678)	5-May-1975			unknown	
53	#fire camp 2018	Butte	Paradise East (3912175)	Calflora, Nov. 2021 (mg98977)	14-Aug-2019	11 - 50 individuals		BLM	2146
53	ca. 100 yds wnw of Highway 32, 9.2 mi ne of Chico.	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (OSC 4324091)	21-Apr-1978			BLM	
54	Along Hwy 32, 4.2 mi N of Humbolt Rd, Ca 0.5 mi N of Ten Mile House. T23N R02E S35 NE1/4	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC044785)	21-Mar-1980			Bidwell Park	1601
55	In front of Paradise water reservior number 73. On the Skyway.	Butte	Paradise East (3912175)	CCH2, Nov. 2021 (CHSC003369)	23-Apr-1966			Plumas NF	

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55	Along Coutolenc Rd 0.3 mi N of its jct with the Skyway, near the river. T23N R04E S30 SW border	Butte	Paradise East (3912175)	CCH2, Nov. 2021 (CHSC044682)	11-Apr-1980			Plumas NF	1601
55	FLEA DFPZ	Butte	Paradise East (3912175)	NRIS, Jul. 2021 (051103_MIGL2_004)	22-Jun-2005	200 individuals		Plumas NF	
56	Along Crown Point Rd, 0.5 mi from its jct with Hwy 32. T23N R02E S25 NW1/4	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC044778)	23-Mar-1980			Big Chico Creek Ecological Reserve, BLM	1768
56	Big Chico Creek Ecological Reserve. Ravine S. of Tuscan Loop trail, below old car wreck.	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC123291)	25-Apr-2020			Big Chico Creek Ecological Reserve, BLM	
57	#fire Camp 2018	Butte	Paradise East (3912175)	Calflora, Nov. 2021 (mg90824)	4-Jul-2019	1001 - 10000 individuals		unknown	2165
57		Butte	Paradise East (3912175)	Calflora, Nov. 2021 (mg110188)	28-Apr-2020	101 - 1000 individuals		unknown	2192
58	10 miles NE of Chico.	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (RENO 94643)	20-Apr-1963			Big Chico Creek Ecological Reserve, BLM	

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59	Along Richardson's Springs Rd Ca 4 mi NE of its jct with Cohasset Hwy, Ca 1.3 mi W of the town of Richardson's Springs. T23N R02E S19 NE1/4	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC044685)	27-Mar-1980			unknown	699
60	above Richardson Springs	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (UC1023693)	4-Jun-1940			Plumas NF, BLM	597
60	On the trail leading up to the falls above Richardson Springs 2.0 mi east of Chico.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC090150)	19-Apr-1980			Plumas NF, BLM	400
60	1/4 re mile w of Richardson Springs, next to road.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (OSC 4290018)	26-Apr-1998			Plumas NF, BLM	
60	above Richardson Springs	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (GH 00367254)	4-Jun-1940			Plumas NF, BLM	
60	FLEA DFPZ	Butte	Paradise East (3912175)	NRIS, Jul. 2021 (051103_MIGL2_002)	18-Apr-2005	350 individuals		Plumas NF, BLM	
61		Butte	Paradise East (3912175)	Calflora, Nov 2021 (mg136671)	22-May-2021	51 - 100 individuals		Plumas NF, BLM	

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62	SSE slope above Little Butte Creek, N of Magalia. Immed. E of Holmwood Drive. Sierra Nevada.	Butte	Paradise East (3912175)	CCH2, Nov. 2021 (CDA-0013864)	7-May-1997			Plumas NF	2362
62	Above Little Butte Creek, N of Magalia. Immed. E of Holmwood Drive. Sierra Nevada.	Butte	Paradise East (3912175)	CCH2, Nov. 2021 (CDA-0013896)	8-May-1997			Plumas NF	2362
63	Along Mud Creek, ca. 1/2 mi n of Richardson Springs Hotel, ca. 6 mi ne of Chico.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC020495)	25-Jun-1975			unknown	400
64	Along the Cohasset Hwy 2.3 mi NE of its jct with Keefer Rd, 3.9 mi SW of the town of Cohasset. T23N R01E S13 E center	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC044821)	26-Apr-1980			unknown	600
65	Big Chico Creek Ecological Reserve.	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC105166)	31-Mar-2007			Big Chico Creek Ecological Reserve	1181
65	Big Chico Creek Ecological Reserve.	Butte	Paradise West (3912176)	CCH2, Nov. 2021 (CHSC123296)	25-Apr-2020			Big Chico Creek Ecological Reserve	
66		Butte	Richardson Springs (3912177)	Calflora, Nov. 2021 (mg84501)	8-May-2019	11 - 50 individuals		unknown	912

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66	Along Cohasset Hwy 11.9 mi N of Chico, 5.6 mi NE of first jct of Cohasset Hwy and Rock Creek Rd. T23N R02E S18 center	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC044799)	15-Mar-1980			unknown	1060
66	Cohasset Road, 2.3 m NE of intersection with Keefer Rd., 3.9 m SW of town of Cohasset, in seep on S side of road.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC105168)	30-Mar-2007			unknown	896
66	Cohasset Road, 2.3 miles NE of Keefer Rd. intersection, on S side of road.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC123292)	25-Apr-2020			unknown	
67	Paradise Lake, SE margin of lake, about 0.5 km along footpath from parking lot at end of Lucretia Rd.	Butte	Paradise East (3912175)	CCH2, Nov. 2021 (CHSC110633)	9-May-2013			unknown	
67	Paradise Lake, SE margin of lake, about 0.5 km along footpath from parking lot at end of Lucretia Rd.	Butte	Paradise East (3912175)	CCH2, Nov. 2021 (RSA0087958)	9-May-2013			unknown	2559

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68	The Horse Trough on side of Cohasset Rd., ca. 6 mi n of Chico Municiple Airport.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC045 718)	30-Apr-1974			unknown	
68	East side fo Cohasset Road, 8 miles north of Chico	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (RSA 1081629)	31-Mar-1969			unknown	
68	Located ca. 3 mi se of junction of Cohasset and Vilas roads ca. 10 mi e of Chico. T23N R02E S08 SW1/4 USGS Quadrangle: Richardson Springs 1:64,000	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC090 200)	1-May-1989			unknown	1299
69	Cohasset Rd	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (OBI13840 1)	29-May-1968			unknown	
69	Cohasset Rd.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (Robert F. Hoover 137)	29-May-1968			unknown	
69	Along the Cohasset Hwy 6.1 mi NE of its jct with Keefer Rd, 0.1 mi SW of the town of Cohasset. T23N R02E S09 SE1/4	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC044 678)	26-Apr-1980			unknown	

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69	Cohasset Road	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CAS 153861)	29-May-1968			unknown	
69		Butte	Richardson Springs (3912177)	Calflora, Nov 2021 (mg152485)	10-Oct-2021	11-50 individuals		unknown	
70		Butte	Paradise East (3912175)	Calflora, Nov. 2021 (mg91426)	8-Jul-2019	51 - 100 individuals		unknown	2497
71	Along the Cohasset Hwy 4.9 mi NE of its jct with Keefer Rd, 1.3 mi SW of the town of Cohasset. T23N R02E S08 N center	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC044822)	26-Apr-1980			unknown	1460
72		Butte	Paradise East (3912175)	Calflora, Nov. 2021 (mg109685)	24-Apr-2020	101 - 1000 individuals		BLM	2231
72		Butte	Paradise East (3912175)	Calflora, Nov 2021 (mg130123)	4-Apr-2021	1001 - 10000		BLM	
73	Along the Cohasset Hwy 5.8 mi NE of its jct with Keefer Rd. 0.4 mi SW of the town of Cohasset. T23N R02E S09 NW1/4	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC044683)	26-Apr-1980			unknown	1401

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73	S of Cohasset, 5.2 mi. N of Jct. Cohasset Hwy. and Kiefer Rd., along Cohasset Hwy.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (HSC219666)	4-May-1963			unknown	
73	Sierra Nevada. South of Cohasset, 5.2 miles north of Jct. Cohasset Hwy and Kiefer Road, along Cohasset Hwy.	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (CHSC022330)	4-May-1963			unknown	
73	Cohasset Rd	Butte	Richardson Springs (3912177)	CCH2, Nov. 2021 (OBI138400)	29-May-1968			unknown	
74	7.6 mi e of Chico Municipal Airport on Cohasset rd.	Butte	Campbell Mound (3912187)	CCH2, Nov. 2021 (CSLA017679)	5-Jan-1975			unknown	
75	Ca. 2.5 air mi NE of Forest Ranch, downhill from Garland Road, ca 0.6 mi S of its jcn with Ponderosa Way, ca 0.6 mi down the Butte Creek Trail. T24N R03E S34 NE1/4 of NW1/4 USGS Quadrangle: Stirling City	Butte	Cohasset (3912186)	CCH2, Nov. 2021 (CHSC062162)	7-May-1987			BLM	2001

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75		Butte	Cohasset (3912186)	Calflora, Nov 2021 (mg133733)	3-May-2021	11-50 individuals		BLM	
76	West Branch Feather River; growing on the diversion dam just upstream from the Reston Road Bridge, vicinity of Striling	Butte	Stirling City (3912185)	Calflora, Nov. 2021 (xr168591)	28-Jun-2006	1+ individuals		BLM	3248
76	West Branch Feather River; growing on the diversion dam and nearby cliffs just upstream from the Reston Road Bridge, vicinity of Striling	Butte	Stirling City (3912185)	CCH2, Nov. 2021 (JEPS109856)	28-Jun-2006			BLM	3258
77	Platte Mountain. Above W branch of Butte Creek. About 1.5 km S of Hwy 32/Crpenter Ridge Rd. intersection along old logging road.	Butte	Cohasset (3912186)	CCH2, Nov. 2021 (CHSC110634)	9-May-2013			unknown	2887

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77	Platte Mountain.Above W branch of Butte Creek. About 1.5 km S of Hwy 32/Carpenter Ridge Rd. intersection along old logging road.	Butte	Cohasset (3912186)	CCH2, Nov. 2021 (RSA0087957)	9-May-2013			unknown	2887
78	Along Cohasset rd. on s side of road, ca. 4.7 mi w of intersection of Cohasset rd. and Vilas rd.	Butte	Cohasset (3912186)	CCH2, Nov. 2021 (CHSC009274)	2-Apr-1971			unknown	571
79	On the east side of the West Branch of the Feather River, north of the bridge, about 4 road miles north of Stirling City.	Butte	Stirling City (3912185)	CCH2, Nov. 2021 (CHSC044907)	31-Jul-1988			unknown	2999
80	Butte County: ca. 3 ft n of Ponderosa Way, ca. 4 mi w of junc of Ponderosa Way and Hwy 32, ca. 22 mi ne of Chico.	Butte	Stirling City (3912185)	CCH2, Nov. 2021 (DAV398602)	4-Apr-1976			unknown	1401
81	Humboldt Rd, between Hwy 32 and town of Butte Meadows, along N side of road in gravelly bank.	Butte	Butte Meadows (4012115)	CCH2, Nov. 2021 (CHSC105167)	22-Apr-2007			Lassen NF	4000

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
82	Along Humbolt Rd 0.6 mi NE of its jct with Hwy 32, 3.8 mi SW of the Butte Meadow Fire Station. T25N R03E S11 center	Butte	Butte Meadows (4012115)	CCH2, Nov. 2021 (CHSC044820)	2-Jun-1980			unknown	4000
83	Humbolt Road, 1.9 mi NE of jct with Hwy 32 at Lomo. Carpenter Ridge. T26N R03E S36	Butte	Butte Meadows (4012115)	CCH2, Nov. 2021 (CHSC043164)	30-Jun-1980			unknown	
84	Sandy Gulch, Chico.	Butte	Ord Ferry (3912168)	CCH2, Nov. 2021 (CAS 292476)	9-Jun-1899			unknown	
85	De Sabla	Butte	Paradise East (3912175)	CCH2, Nov. 2021 (CAS 153869)	1-Jun-1917			unknown	
86		Butte	Paradise East (3912175)	NRIS, July 2021 (051103_MIGL2_006)	13-Jun-2020			Plumas NF	
87	E. of Cottonwood	Shasta	Balls Ferry (4012242)	CCH2, Nov. 2021 (CAS 153873)	Jun-1935			unknown	
88	8 mi s Vina; Pine Creek	Tehama	Richardson Springs Nw (3912188)	CCH2, Nov. 2021 (UC196162)	29-Apr-1914			unknown	

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
88	8 mi s Vina; Pine Creek	Tehama	Richardson Springs Nw (3912188)	CCH2, Nov. 2021 (JEPS4702)	29-Apr-1914			unknown	
88	along Pine creek, 8 miles south of Vina	Tehama	Richardson Springs Nw (3912188)	CCH2, Nov. 2021 (GH 00367261)	29-Apr-1914			unknown	
88	low ground 12 miles north of Chico.	Tehama	Richardson Springs Nw (3912188)	CCH2, Nov. 2021 (OSC 4303229)	29-Apr-1914			unknown	
88	12 miles north of Chico	Tehama	Richardson Springs Nw (3912188)	CCH2, Nov. 2021 (CAS 153854)	29-Apr-1914			unknown	
88	12 miles north of Chico	Tehama	Richardson Springs Nw (3912188)	CCH2, Nov. 2021 (CAS 153864)	29-Apr-1914			unknown	
89	Along Hwy 32, 0.3 mi N of its jct with Humbolt Rd, 0.4 mi S of the Butte County line. T25N R03E S10 NE1/4	Tehama	Butte Meadows (4012115)	CCH2, Nov. 2021 (CHSC044800)	12-Jun-1980			unknown	3521
90	E roadside of Hwy 32, ca. 1 mi N of road to Butte Meadows. Vicinity of Loma.	Tehama	Butte Meadows (4012115)	CCH2, Nov. 2021 (CHSC079577)	5-Jul-1998			unknown	3599

Duplicate records from the same site are given the same record number and are included in red. Rows containing questionable records are highlighted in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
90	East roadside of Highway 32, circa 1 mile north of road to Butte Meadows. Vicinity of Loma.	Tehama	Butte Meadows (4012115)	CCH2, Nov. 2021 (CDA-0041428)	5-Jul-1998			unknown	3599
90	Wet seep. E roadside of Hwy 32, ca. 1mi N of road to Butte Meadows. Vicinity of Lomo.	Tehama	Butte Meadows (4012115)	CCH2, Nov. 2021 (UC1778563)	5-Jul-1998			unknown	3599
90	Along e side of Hwy. 32 ca 14.7 mi n of Forest Ranch. T25N R03E S02 NW1/4 USGS Quadrangle: Butte Meadows 1:64000	Tehama	Butte Meadows (4012115)	CCH2, Nov. 2021 (CHSC055594)	17-Apr-1988			unknown	3232
91	Little Salt Creek 0.3 miles W from Tuscan Springs Road,	Tehama	Red Bluff East (4012222)	CCH2, Nov. 2021 (DWT 5080659)	24-Apr-1990			unknown	
92	Seven Mile Creek along Highway 36,	Tehama	Red Bluff East (4012222)	CCH2, Nov. 2021 (DWT 5080661)	24-Apr-1990			BLM	
93	Manton Plains (just S of Battle Creek), S of Spring Branch Road (Manton Road), adjacent to PG&E natural gas pipeline	Tehama	Tuscan Buttes NE (4012241)	CCH2, Nov. 2021 (DWT 5077449)	24-Apr-1990			unknown	

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
93	Manton Plains (just S of Battle Creek), S of Spring Branch Road (Manton Road), adjacent to PG&E natural gas pipeline	Tehama	Tuscan Buttes NE (4012241)	Calflora, Nov 2021 (wb2209-2744)	24-Apr-1990			unknown	
94	Pine Creek; at the 1860 ft contour.	Tehama	Campbell Mound (3912187)	CCH2, Nov. 2021 (UC1731083)	6-Jun-1997			Lassen NF, BLM	1857
94	Pine Creek; at the 1860 ft contour,	Tehama	Campbell Mound (3912187)	Calflora, Nov 2021 (wb2209-3928)	6-Jun-1997			Lassen NF, BLM	
94	Pine Creek; at the 1860 ft contour,	Tehama	Campbell Mound (3912187)	Calflora, Nov. 2021 (xr168478)	6-Jun-1997	1+ individuals		Lassen NF, BLM	2070
95	Northern Sacramento Valley; south bank of Mill Creek; ca. 0.3 mile east of confluence with Sacramento River; gravel bar in active channel of Mill Creek. T25N R02W S USGS Quadrangle: Los Molinos 1:24,000	Tehama	Los Molinos (4012211)	CCH2, Nov. 2021 (CHSC092786)	13-Apr-2005			unknown	210

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
95	Mill Creek Near Confluence with Sacramento River; Northern Sacramento Valley; Tehama County, CA	Tehama	Los Molinos (4012211)	Calflora, Nov. 2021 (mu3982)	3-May-2020	1+ individuals		unknown	203
96	Stirling District. Millie THP. Growing at seep in forestry regeneration unit. Devils Parade Ground Quadrangle	Tehama	Devils Parade Ground (4012116)	CCH2, Nov. 2021 (SPIF01855)	26-Jun-2018			unknown	3845
97	33 mi ne Chico (on road to Butte Meadows, 10 mi w of Jonesville)	Tehama	Butte Meadows (4012115)	CCH2, Nov. 2021 (UC1211921)	12-Jun-1960			unknown	
98	Tehama Co.	Tehama	Gerber (4012212)	CCH2, Nov. 2021 (DAV398600)	16-Apr-2006			unknown	1201
99	Dye Creek Nature Conservancy Preserve. Antelope Creek trail.	Tehama	Los Molinos (4012211)	CCH2, Nov. 2021 (CHSC118052)	17-Apr-2003			Gray Davis Dye Creek Preserve	
100		Tehama	Tuscan Springs (4012221)	Calflora, Nov. 2021 (in:10445667)	26-Mar-2018	1+ individuals		Gray Davis Dye Creek Preserve	390
101	On the east side of Foothill Road, east of Red Bluff.	Tehama	Tuscan Springs (4012221)	CCH2, Nov. 2021 (CHSC047499)	23-May-1978			Gray Davis Dye Creek Preserve	210

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
101	East of Red Bluff along Foothill Road	Tehama	Tuscan Springs (4012221)	CCH2, Nov. 2021 (CAS 153875)	23-May-1978			Gray Davis Dye Creek Preserve	
102	Deer Creek Trail to Rocky Pool	Tehama	Barkley Mountain (4012126)	Calflora, Nov. 2021 (io1831)	5-Apr-2018			Lassen NF	2717
102	Deer Creek Trail to Rocky Pool,	Tehama	Barkley Mountain (4012126)	Calflora, Nov. 2021 (gp16124)	23-May-2019	1+ individuals		Lassen NF	2704
102	Deer Creek Trail to Rocky Pool,Tehama County, CA, USA	Tehama	Barkley Mountain (4012126)	Calflora, Nov. 2021 (mu1653)	17-Apr-2020	51 - 100 individuals		Lassen NF	2687
103	Deer Creek Trail to Rocky Pool	Tehama	Onion Butte (4012125)	Calflora, Nov. 2021 (io3479)	31-May-2018	2 - 10 individuals		Lassen NF	2927
104	Deer Creek Trail to Big Leaf Pool	Tehama	Onion Butte (4012125)	Calflora, Nov. 2021 (gp7141)	19-Apr-2018	11 - 50 individuals		Lassen NF	3333
105	Tehama County: Cone Grove Park on banks of Antelope Creek just north of the park.	Tehama	Red Bluff East (4012222)	CCH2, Nov. 2021 (DAV398597)	6-May-2008	Population size about 100 individuals		Cone Grove Park	282
106	2 mi e Andrews road sta.; Big Antelope Creek	Tehama	Tuscan Springs (4012221)	CCH2, Nov. 2021 (JEPS5589)	4-May-1934			Gray Davis Dye Creek Preserve	249
107	Deer Creek Road (Rt 32) at milepost 12.00, E side of Deek Creek 20 airmiles SW of Chester.	Tehama	Onion Butte (4012125)	CCH2, Nov. 2021 (RSA 1228079)	3-May-1989			Lassen NF	

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
107	Deer Creek Rd (Rt 32) at milepost 12.00, E side of Deer Creek ca 20 airmiles SW of Chester	Tehama	Onion Butte (4012125)	CCH2, Nov. 2021 (Barbara Errter 8446)	3-May-1989			Lassen NF	3199
107	Deer Creek Road (Route 32) at milepost 12.00, E side of Deer Creek ca. 20 air miles SW of Chester.	Tehama	Onion Butte (4012125)	CCH2, Nov. 2021 (UC1563707)	3-May-1989			Lassen NF	3199
107	Deer Creek Road (Rt 32) at milepost 12.00, E side of Deek Creek 20 airmiles SW of Chester	Tehama	Onion Butte (4012125)	CCH2, Nov. 2021 (HSC219667)	3-May-1989			Lassen NF	3202
108	Tehama Wildlife Area. 100 yds north of Antelope Creek, upper slab crossing Ishi Road. UTM: 10 0594475 E, 4453365 N.	Tehama	Dewitt Peak (4012128)	CCH2, Nov. 2021 (CHSC088935)	23-Apr-2001			Tehama Wildlife Area	1627
109	Along AntelopeCreek, 'McClure Tr." 10T 0599539/4458231	Tehama	Finley Butte (4012137)	CCH2, Nov. 2021 (CHSC118204)	6-May-2015			Lassen NF	
109	Antelope Cr. Drainage, McClure Tr. 10T 0599255 / 4457774	Tehama	Finley Butte (4012137)	CCH2, Nov. 2021 (CHSC118427)	3-May-2016			Lassen NF	

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
110	High Trestle-McClure Place Trail starting on Hogsback Road ca. 0.5 mi northeast of Finley Lake. T28N R01E S15 SE1/4	Tehama	Finley Butte (4012137)	CCH2, Nov. 2021 (CHSC075305)	21-Apr-1999			Lassen NF	2500
111	Sacramento River Bend Area (BLM) off Jellys Ferry Rd, about 7 mile NNE of Red Bluff. Yana Trail--Perry Riffle trailhead. UTM: between 570200E, 4460600N and 527300E, 4461300N. Along water. USGS Quadrangle: Bend	Tehama	Bend (4012232)	CCH2, Nov. 2021 (CHSC088952)	19-Apr-2003			BLM	
112	BLM parcel along Hwy. 36 NE of Red Bluff. CASade Range Foothills. Plants of Hig Lake Plateau. T28N R02W S07 NE1/4 of SW1/4	Tehama	Bend (4012232)	CCH2, Nov. 2021 (CHSC065976)	23-Apr-1996			BLM	486

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
112	BLM parcel along Hwy. 36 NE of Red Bluff. CASade Range Foothills,Riparian Association in Blue Oak Woodland, Tuscan mudflow substrate. Paynes Creek just downstream from the power line at this location.	Tehama	Bend (4012232)	CCH2, Nov. 2021 (JEPS88453)	23-Apr-1996			BLM	482
113	Tehama County: CDFG, Tehama Wildlife Area, about 100 meters northwest of Plum Creek Road, about a quarter of a mile past the junction of Plum Creek Road and High Trestle Road.	Tehama	Finley Butte (4012137)	CCH2, Nov. 2021 (DAV398595)	13-Jun-2005			Tehama Wildlife Area	2720
114	Ca 2 km n of Finley Butte. T28N R01E S04 SE1/4 USGS Quadrangle: Menton 1:64000	Tehama	Finley Butte (4012137)	CCH2, Nov. 2021 (CHSC057519)	17-Apr-1987			Tehama Wildlife Area	1772
115	Ponderosa Way about 0.5 miles S of Chapman Gulch; ca. 4 miles S Highway 36	Tehama	Finley Butte (4012137)	Calflora, Nov. 2021 (xr168690)	18-Jun-1997	1+ individuals		BLM	3156

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
115	Ponderosa Way about 0.5 miles S of Chapman Gulch; ca. 4 miles S Highway 36	Tehama	Finley Butte (4012137)	Calflora, Nov 2021 (wb2209-3892)	18-Jun-1997			BLM	
115	Ponderosa Way about ca 0.5 miles S of Chapman; ca 4 mi S Highway 36.	Tehama	Finley Butte (4012137)	CCH2, Nov. 2021 (UC1731247)	18-Jun-1997			BLM	3150
116	Ponderosa Way in canyon Soap Creek.	Tehama	Manton (4012147)	CCH2, Nov. 2021 (JEPS101528)	30-May-1997			BLM	2697
116	Ponderosa Way in canyon Soap Creek.; Manton 7.5 USGS Quad.	Tehama	Manton (4012147)	CCH2, Nov. 2021 (RSA0148343)	30-May-1997			BLM	2700
116	Ponderosa Way in canyon Soap Creek;	Tehama	Manton (4012147)	Calflora, Nov 2021 (wb2209-3776)	30-May-1997			BLM	
116		Tehama	Manton (4012147)	CCH2, Nov. 2021 (BLMRD0613)	30-May-1997			BLM	
117	Sand Spring Canyon headwaters about 10 air miles East of Manton.	Tehama	Manton (4012147)	CCH2, Nov. 2021 (JEPS101529)	30-May-1997			BLM	3150
117	Sand Spring Canyon headwaters (about 10 air miles East of Manton)	Tehama	Manton (4012147)	Calflora, Nov 2021 (wb2209-3795)	30-May-1997			BLM	

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
117	Sand Spring Canyon headwaters (about 10 air miles East of Manton)	Tehama	Manton (4012147)	Calflora, Nov. 2021 (xr168700)	30-May-1997	1+ individuals		BLM	3215
118	Red Bluff	Tehama	Red Bluff East (4012222)	CCH2, Nov. 2021 (CAS 153874)	Jun-1917			unknown	
	5 miles east past Knights Ferry on Hwy 120, 1 mile north on Owl Creek Property	Tuolumne	Keystone (3712075)	CCH2, Nov. 2021 (SHTC 3612674)	25-Mar-1996			unknown	
	Sierra Nevada; Bishop. Inyo County Highway 168 along Bishop Creek.	Inyo	Bishop (3711834)	CCH2, Nov. 2021 (SFV110092)	13-Jun-1971			City of Bishop	
	Blue Haven Ranch - Santa Monica Mts.	Los Angeles	Point Dume (3411817)	CCH2, Nov. 2021 (CSLA017680)	4-Jun-1954			Santa Monica Mountains National Recreation Area	
	Santa Monica Mountains; Along road by Seminole Hot Springs.	Los Angeles	Point Dume (3411817)	CCH2, Nov. 2021 (SFV110093)	28-May-1974			unknown	1299
	This plant is growing in numerous strands along Daulton Road (Rd 603), west of Hensley Lake.	Madera	Daulton (3711918)	Calflora, Nov. 2021 (oe3297)	30-Apr-2012	101 - 1000 individuals		unknown	469

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
		Mariposa	El Portal (3711967)	Calflora, Nov. 2021 (oe3293)	25-Jul-2011	1 individuals		Yosemite NP	5706
	On the right hand roadside of Highway 140, between Briceburg and Incline, as one heads towards Yosemite from Mariposa.	Mariposa	Kinsley (3711968)	Calflora, Nov. 2021 (xr344932)	19-Apr-2009	1+ individuals		Sierra NF	1263
	Rainbow, n. of Cisco	Placer	Cisco Grove (3912035)	CCH2, Nov. 2021 (GH 00367262)	23-Jun-1946			unknown	
	1/8 mile E of S end of Burnham Dr., Lompoc; Burton Mesa	Santa Barbara	Lompoc (3412064)	CCH2, Nov. 2021 (UCSB009563)	20-Apr-1986			unknown	
	Near Lassen			CCH2, Nov. 2021 (GH 00367260)	13-Apr-1846				
				CCH2, Nov. 2021 (UC103700)	1870				
	[No location data on label]	Butte		CCH2, Nov. 2021 (RSA 1003384)	1897				
	Route 24, Along Feather River, above Oroville in Lassen Nat. Forest	Butte		CCH2, Nov. 2021 (GH 00367253)	5-Jun-1940				

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
	Honey Run Road	Butte		CCH2, Nov. 2021 (CAS 153853)	16-Apr-1976				
	Chico Creek	Butte		CCH2, Nov. 2021 (GH 00367257)	Feb-1885				
	unspecified	Butte		CCH2, Nov. 2021 (CAS 7511)	May-1883				
	unspecified	Butte		CCH2, Nov. 2021 (RSA 889332)	May-1883				
	Butte Creek & Iron [canon] Canyon	Butte		CCH2, Nov. 2021 (CAS 153865)	May-1987				
	[data not captured]	Klamath		CCH2, Nov. 2021 (GH 01841517)					
	Sierra Valley	Sierra	Sattley (3912054)	CCH2, Nov. 2021 (UC335155)	8-Jun-1889			unknown	
		Butte	Paradise West (3912176)	Calflora, Nov. 2021 (mg109332)	19-Apr-2020	1 individuals		unknown	1814

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Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
	Flood plain of Greenhorn Creek	Nevada	Chicago Park (3912028)	CCH2, Nov. 2021 (CAS 153872)	28-Aug-1954			unknown	
	On the west side of Lost Creek, about 6 miles north of the Sly Creek Dam.	Plumas	American House (3912161)	CCH2, Nov. 2021 (CHSC043356)	2-Jul-1975			Plumas NF	2999

Appendix 2: Additional Considerations at the Forest Level

<This section, including the next 5 subheadings, would be filled out by **Forest Service botanists**.>

<Forest Name>

Geographic distribution within the Forest

A. Scarce or isolated
B. Patchy or gaps
C. Contiguous

<Select a geographic distribution rank and provide references or cite 'specialist expertise, <name>' where appropriate.>

Abundance of the species on the Forest

A. Rare – current abundance is low enough that stochastic and other factors could lead to potential imperilment.
B. Uncommon – current abundance is large enough that demographic stochasticity is not likely to lead to rapid local extinction, but, in combination with highly variable environmental factors, could pose a threat.
C. Common – current abundance is large enough that species persistence is not threatened by demographic stochasticity in combination with environmental variation.
D. Insufficient information to draw inferences about criterion.

<Select a species abundance rank and provide references or cite 'specialist expertise, <name>' where appropriate.>

Population trend on the Forest

A. Significant downward or suspected downward population trend.
B. Stable population.
C. Upward population trend.
D. Insufficient information to draw inferences about criterion.

<Select a population trend rank and provide references or cite 'specialist expertise, <name>' where appropriate.>

Habitat trend on the Forest

A. Decline in habitat quality or quantity.
B. Stable amounts of suitable or potential habitat, relatively unchanged habitat quality.
C. Improving habitat quality or increasing amounts of suitable or potential habitat.
D. Insufficient information to draw inferences about criterion.

<Select a habitat trend rank and provide references or cite 'specialist expertise, <name>'where appropriate.>

Vulnerability of habitat on the Forest

A. Substantial modification of habitat has occurred or is anticipated with conditions departing from expectations based on NRV, and/or habitat is impacted by modern stressors such as drought, climate change, high intensity wildfire and wildfire suppression disturbances, loss of natural openings due to historical wildfire suppression, nonnative invasive species, water impoundments and diversions, and recreation, etc.
B. Habitat modification is likely to result in ecological patterns similar to the range of historical conditions, but is being impacted by modern stressors.
C. Habitat resilient, changes are similar in frequency and intensity to those expected from NRV, and modern stressors not significant.
D. Insufficient information to draw inferences about criterion.

<Select a habitat vulnerability rank and provide references or cite 'specialist expertise, <name>'where appropriate.>

Additional Forest specific information related to the SCC determination

<This section is provided for Forest botanists to add additional Forest specific information that is not captured in the section above, if necessary. Provide a narrative description here of the additional relevant information. State "No additional information" if this section is not used.>