Species: *Stellaria obtusa* Engelm., obtuse starwort

Photo Source: CalPhotos (2021), Ellen Dean

Photo Credits: Clockwise from upper left: Ellen Dean, Dean Wm. Taylor, Kirsten Bovee, Ellen Dean, Ellen Dean

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 obtuse starwort		
Entity	**Status**	**Status Definition**
NatureServe CA[a]	G5	G5: Demonstrably Secure — Common; widespread and abundant.

	S4	S4: Apparently Secure — Uncommon but not rare in the state; some cause for long-term concern due to declines or other factors.
California Rare Plant Rank[b]	4.3	4: Plants of limited distribution – a watch list. 0.3: Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known). This taxon was added to the *CNPS Inventory of Rare and Endangered Plants of California* in 1988, as CNPS List 3, and has undergone no changes since 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 listed	
Oregon State Listing[h]	Not listed	
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 [USDA 2013] and Pacific NW Survey and Manage [USDA & 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.

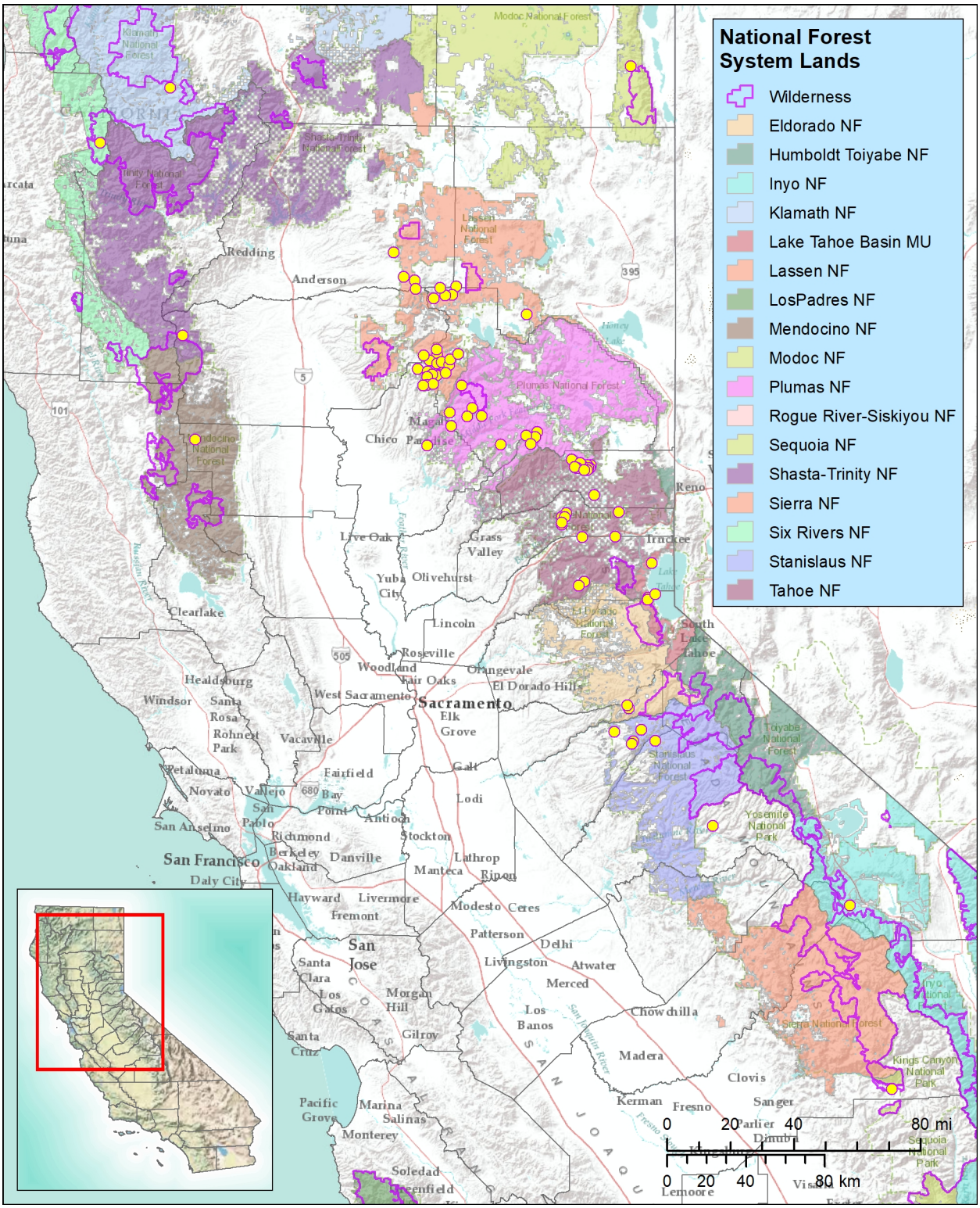
Distribution, abundance, and population trend on the planning unit[1]

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.

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

Table 2. Known occurrence frequency of obtuse starwort 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
Klamath:	83	0	1	0	1	18 Aug. 1928	1
Lassen:	5, 6, 7, 10, 11, 12, 14, 15, 16, 17, 30, 40, 41, 42, 48, 49, 50, 53, 57, 73	18	2	2	18	14-Aug-2009	20
Mendocino:	27	1	0	0	1	7-Jul-1943	1
Modoc:	31	0	1	0	1	1-Jul-1932	1
Plumas:	18, 39, 43, 44, 45, 46, 47, 52, 55, 71	2	8	6	4	29-Aug-2019	10
Sequoia:	26	0	1	1	0	25-Jun-2014	1
Shasta-Trinity:	75	0	1	0	1	7-Jul-1997	1
Six Rivers:	28	1	0	0	1	23-Jul-1935	1
Stanislaus:	77	0	1	1	0	31-Aug-2010	1
Tahoe:	33, 35, 36, 37, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 79, 80	0	17	14	3	21-Aug-2017	17
Totals:	N/A	22	32	24	30	N/A	54



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

Obtuse starwort was last updated in the CNDDB on August 7, 2008 (CNDDB 2021) and has not been tracked since that date. There are 230 CNDDB survey forms for this species that have been submitted but not processed; since this is a CRPR List 4.3 taxon, these forms will not be entered into the CNDDB. Eight unprocessed forms from Amador, Calaveras, and Shasta counties were examined for this account and added to Table 4 (Green 2021 pers. comm.). The other 222 unprocessed forms provide locations (mostly on private timberland) that fill in the distribution of this species along the Sierra Nevada axis from Shasta County to Tuolumne County, with most locations in Butte and Plumas counties (CNDDB 2021). The total number of occurrences for obtuse starwort was estimated using GIS tools and methods described by Green and Sims (2018).

Obtuse starwort occurs in the high elevations of western North America from Canada (British Columbia and Alberta) to Colorado, Utah, and California along the Coast Range, Cascade/Sierra Nevada, and Rocky Mountain crests (FNA 1993+, CPNWH 2021, NRCS 2021). Within California, obtuse starwort has an inverted U-shaped distribution that spans Amador, Butte, Calaveras, El Dorado, Fresno, Glenn, Humboldt, Lassen, Modoc, Mono, Nevada, Placer, Plumas, Shasta, Sierra, Siskiyou, Tehama, and Tuolumne counties; this distribution encompasses the south, central, and north High Sierra Nevada (SNH), High Cascade Range (CaRH), Warner Mountains (Wrn), Klamath Ranges (KR), and High North Coast Ranges (NCoRH) bioregions.

Fifty-four of the 82 California records analyzed for this account (Table 4) are located on U.S. National Forest lands, occurring on the Klamath NF (1), Lassen NF (20), Mendocino NF (1), Modoc NF (1), Plumas NF (10), Sequoia NF (1), Shasta-Trinity NF (1), Six Rivers NF (1), Stanislaus NF (1), and Tahoe NF (17) (Table 2). Two of the National Forest records are located in Wilderness Area: record #s 26 (Monarch Wilderness) and 28 (Trinity Alps Wilderness). Of the 28 records occurring off National Forest lands, one is in a State Wildlife Area (#8), four are in California State Parks (#s 23, 24, 25, and 38), six are in National Parks (#s 29, 51, 54, 58, 74, 76), one is in a University of California Reserve (#32) and the remaining 16 are either on private timberlands or of unknown ownership. Thirty-seven of the 82 records are recent (observed during the past 20 years), with 45 considered historical (not observed in the past 20 years). Of the 51 location records with population size information, there are some locations where this species is thriving, while it is quite rare in others: 24 locations have between one and 10 plants, 15 between 11 and 100 plants, one between 101 and 1000 plants, and 11 with over 1000 plants. Assessing the number of individuals in this species can be challenging, as it produces prostrate mats that may be created by one or several individuals. Therefore, some of the higher end population numbers may be stem counts, rather than a real estimate of number of genets. Only five locations have been visited more than once, and only two of those were censused on both visits; in both cases, the population remained stable.

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

Obtuse starwort is a rhizomatous, prostrate, perennial herb that flowers and fruits from May to October. Plants are found in partly-shaded mesic areas, especially along drainages, in riparian woodland and lower and upper montane coniferous forest at elevations of (490) 2360–7800 feet (150–2380 m) (CCH2 2021, CNDDB 2021, CNPS 2021, Green pers. comm. 2021). Data on the

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

soil preferences of this species are largely lacking, but it is usually found on sand, gravel or alluvium near streams, often on granitic or volcanic substrates (CDC 2015, CCH2 2021, CNDDB 2021). Associates include *Pinus contorta* subsp. *murrayana*, *P. jeffreyi, Abies* spp., *Calocedrus decurrens, Populus tremuloides, Alnus incana*, *Salix* spp., *Viola glabella*, *Erythranthe moschata*, *Circaea alpina*, and *Stellaria crispa* (CCH2 2021, CNDDB 2021, Green pers. comm. 2021).

The cosmopolitan genus *Stellaria* (family Caryophyllaceae) has approximately 150–200 species found in a wide variety of ecosystems, spanning tropical, temperate, and high latitudes and elevations in both hemispheres (Sharples and Tripp 2019). Phylogenetic work on the Caryophyllaceae has revealed that obtuse starwort is not closely related to the core species group of *Stellaria* in tribe Alsineae, but instead is included in Caryophyllaceae tribe Sclerantheae (Greenberg and Donoghue 2011). Very recent morphological work on the relationships of obtuse starwort has led to the suggestion that this single species be placed in its own genus *Engellaria* (Lamonico 2021, Rabeler 2021 pers. comm.). Obtuse starwort is distinguished from similar species by its mat-forming habit and by having ovate leaf blades that are usually ciliate at the base, solitary 4-merous flowers lacking petals, obtuse sepals, and a 3-merous capsular fruit that dehisces by six valves (FNA 1993+, JEPS 2021, Lamonico 2021). It is most similar to *Stellaria crispa* which differs in not having ciliate hairs at the base of the leaf blade and often having wrinkled or wavy leaf margins, 5-merous flowers, and acute sepals (Bainbridge 2017, JEPS 2021).

Little is known about the reproductive biology and growth patterns of obtuse starwort. Species of *Stellaria* are visited by a diversity of pollinators, including butterflies, flies, and bees (CPC 2021). However, it is thought that some apetalous *Stellaria* species are self-pollinated, and this may be the case for obtuse starwort (Sharples et al. 2021). When dry and mature, the globose capsule dehisces by six valves to release the small seeds (FNA 1993+), which would most likely fall near the parent plant to be dispersed by water action to sand and gravel bars, stream banks, and other moist habitats. It is also possible that this species reproduces asexually through fragmentation of its rhizomes. Data on seed germination and growth are lacking, but given the typical habitat where this species is found, it could be classified as an early seral, colonizing species. The response of this species to fire is unknown, but as the rhizomes are close to the soil surface, they might not survive moderate to severe fires, unless they are in a moist habitat.

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

Obtuse starwort is an unusual member of the Caryophyllaceae that might be best placed in its own genus. It is known from more than 82 location records at mid to high elevations in California, with at least 200 unprocessed CNDDB survey forms (mostly from Butte and Plumas counties) not analyzed for this account (CNDDB 2021, Green 2021 pers. comm.). Given the number of survey forms submitted for this species, it may be more common than previously thought. It is easy to overlook, as it usually occurs in riparian zones, often within alder thickets.

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

In addition, it is sometimes confused with similar species, such as *Stellaria crispa* (CNDDB 2021).

Threats listed for obtuse starwort include trampling by cattle, timber harvest activities (including soil erosion from logging), mining, and inherent vulnerability due to small population sizes (Bainbridge 2017, CNDDB 2021, Green 2021 pers. comm.). Due to riparian zone protections and exclusions, populations are usually protected from current timber harvest activities (Green 2021 pers. comm.). Of the locations analyzed, 27 records have a site quality ranking: five are ranked excellent, 13 are ranked good, eight are ranked fair, and one is ranked poor (CNDDB 2021, Green 2021 pers. comm.). Thirty-seven of the included location records have been observed within the past 20 years. The available population data indicate there are some locations where this species is thriving, while it is quite rare in others, and long-term trends are unclear. In order for this species to remain viable over time, the water sources that feed its riparian and other mesic habitats need to remain stable. Climate change-induced drought could reduce the water sources that feed wetland habitats and increase fire frequency. The relatively broad distribution and elevational range of this species (both within and outside of California) may help it to survive some of these changes.

Taxonomy[4]

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

Table 3. Name status of obtuse starwort

Entity	Name Status
CNDDB and CNPS	*Stellaria obtusa* Engelm.
Jepson eFlora	*Stellaria obtusa* Engelm.
Jepson Manual (1993)	*Stellaria obtusa* Engelm.
Flora of North America	*Stellaria obtusa* Engelmann
USDA NRCS[a] PLANTS	*Stellaria obtusa* Engelm.
[a] Natural Resources Conservation Service [NRCS 2021]	

Synonymy: *Alsine obtusa* (Engelm.) Rose, *Alsine viridula* Piper, *Alsine washingtoniana* (B. L. Rob.) A. Heller, *Stellaria viridula* (Piper) St. John, *Stellaria washingtoniana* B. L. Rob. (FNA 1993 +, Tropicos 2021)

Jepson eFlora link (JEPS 2021): https://ucjeps.berkeley.edu/eflora/eflora_display.php?tid=45504

Type locality: Western Colorado, on the tributaries of the Gunnison River (*Brandegee s.n.*, UC) (Engelmann 1882, Lamonico 2021).

Key literature

Bainbridge, S. 2017. Species Evaluation Form: *Stellaria obtusa*. NatureServe, Arlington, Virginia.

Engelmann, G. 1882. Some additions to the North American flora. *Botanical Gazette* 7: 5–6.

[4] 1909.12, Chapter 10, Section 12.53, component 1.

Greenberg, A. K. and M. J. Donoghue. 2011. Molecular systematics and character evolution in Caryophyllaceae. *Taxon* 60: 1637–1652.
Lamonico, D. 2021. *Engellaria* (Caryophyllaceae), a new North American genus segregated from *Stellaria*. *Acta Botanica Mexicana* 128 e1846.
Sharples, M. T. and E. A. Tripp. 2019. Phylogenetic relationships within and delimitation of the cosmopolitan flowering plant genus *Stellaria* L. (Caryophyllaceae): core stars and fallen stars. *Systematic Botany* 44: 857–876.
Sharples, M. T., P. C. Bentz, and E. A. Manzitto-Tripp. 2021. Evolution of apetaly in the cosmopolitan genus *Stellaria*. *American Journal of Botany* 108: 869–882.

Literature cited

[BLM] U.S. Dept. of Interior Bureau of Land Management. 2020. Special Status Plants in California, Including BLM Designated Sensitive Species. January 17, 2020. Provided by Christina Lund, State Botanist, California BLM on 30 April 2020.
Calflora. 2021. Information on wild California plants for conservation, education, and appreciation. Website http://www.calflora.org/ [accessed August 2021].
[CDC] California Department of Conservation. 2015. Geologic Map of California (2010). California Geological Survey, Geologic Data Map No. 2. Available at https://maps.conservation.ca.gov/cgs/gmc/ [accessed August 2021].
[CDFW] California Department of Fish and Wildlife, Natural Diversity Database. 2021. State and Federally Listed Endangered, Threatened, and Rare Plants of California. Last updated January 8, 2021. 10 pp. Available at https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109390 [accessed August 2021].
[CNDDB] California Department of Fish and Wildlife, Natural Diversity Database. 2021. RareFind 5 [Internet application] and CNDDB Maps and Data, Version 5.2.14. Available at: https://www.wildlife.ca.gov/Data/CNDDB/Maps-and-Data [Government Version, August 2021].
____. 2021a. Special Vascular Plants, Bryophytes, and Lichens List. Quarterly publication, January 2021. 166 pp. Available at https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109383&inline [accessed August 2021].
[CNPS] California Native Plant Society, Rare Plant Program. 2021. *Inventory of Rare and Endangered Plants of California* (online edition, v8-03 0.39). Website http://www.rareplants.cnps.org [accessed August 2021].
CalPhotos. 2021. CalPhotos: Plants. Regents of the University of California, Berkeley. Website http://calphotos.berkeley.edu/flora/ [accessed August 2021].
[CPC] Center for Plant Conservation. 2021. CPC National Collection Rare Plant Database. Website https://saveplants.org/national-collection/pollinator-search/ [accessed August 2021].
[CCH2] Consortium of California Herbaria Portal 2. 2021. Data provided by the participants of the Consortium of California Herbaria and the California Phenology Thematic Collections Network (CAP-TCN). Regents of the University of California, Berkeley and Cal Poly, San Luis Obispo. Website http//:www.cch2.org/portal/index.php [accessed August 2021].
[CPNWH] Consortium of Pacific Northwest Herbaria. 2021. Data provided by the participants of the Consortium of Pacific Northwest Herbaria. University of Washington Herbarium. Website http://www.pnwherbaria.org/data/search.php [accessed August 2021].
Engelmann, G. 1882. Some additions to the North American flora. *Botanical Gazette* 7: 5–6.

[FNA] Flora of North America Editorial Committee, eds. 1993+. *Flora of North America North of Mexico.* 20+ vols. Missouri Botanical Garden, New York and Oxford. Volume 5, 2005.

Green, K. and A. E. Sims. 2018. Assessing rarity status of the newly described Shasta County endemic, Adiantum shastense (Pteridaceae), by employing innovative tools in geographic information systems. Rare Plant Program, California Native Plant Society. Presented in Scientific Poster session of CNPS 2018 Conservation Conference, Los Angeles, CA, 1-3 February 2018.

Greenberg, A. K. and M. J. Donoghue. 2011. Molecular systematics and character evolution in Caryophyllaceae. *Taxon* 60: 1637–1652.

[JEPS] Jepson Flora Project (eds.). 2021. Jepson eFlora. Website http://ucjeps.berkeley.edu/IJM.html [accessed August 2021].

Lamonico, D. 2021. *Engellaria* (Caryophyllaceae), a new North American genus segregated from *Stellaria*. *Acta Botanica Mexicana* 128 e1846.

[NRCS] U.S. Department of Agriculture, Natural Resources Conservation Service. 2021. PLANTS Database. Website http://plants.usda.gov/ [accessed August 2021].

[NRIS] U.S. Department of Agriculture Forest Service, Natural Resource Information System. 2021. Natural Resource Information System; Threatened, Endangered and Sensitive Plants—Invasive Plants [accessed March 2021].

[NDF] Nevada Division of Forestry. 2012. NAC 527.010 List of fully protected species of native flora. April 2012. Available at: https://www.leg.state.nv.us/NAC/NAC-527.html#NAC527Sec010 [accessed May 2020].

[NNHP] Nevada Natural Heritage Program. 2021. Tracking and Watch Lists. Department of Conservation and Natural Resources. Available at: http://heritage.nv.gov/botany [accessed February 2021].

[ODA] Oregon Department of Agriculture. 2018. Oregon listed and candidate plants - complete list. Native Plant Conservation Program. October 12, 2018. Available at: https://data.oregon.gov/Natural-Resources/Oregon-listed-and-candidate-plants-complete-list/8s3k-ygh2 [accessed February 2021].

[ORBIC] Oregon Biodiversity Information Center. 2019. Rare, Threatened and Endangered Vascular Plant Species of Oregon. Institute for Natural Resources, Portland State University, Portland, OR. 49 pp. Available at https://inr.oregonstate.edu/sites/inr.oregonstate.edu/files/2019-rte-vascs.pdf [accessed May 2020].

Sharples, M. T. and E. A. Tripp. 2019. Phylogenetic relationships within and delimitation of the cosmopolitan flowering plant genus *Stellaria* L. (Caryophyllaceae): core stars and fallen stars. *Systematic Botany* 44: 857–876.

Sharples, M. T., P. C. Bentz, and E. A. Manzitto-Tripp. 2021. Evolution of apetaly in the cosmopolitan genus *Stellaria*. *American Journal of Botany* 108: 869–882.

Tropicos. 2021. Missouri Botanical Garden. Website http://www.tropicos.org [accessed August 2021].

[USDA] U.S. Department of Agriculture Forest Service, Pacific Southwest Region. 2013. Regional Forester Sensitive Species List. Available at: http://www.fs.usda.gov/main/r5/plants-animals/plants [accessed May 2020].

[USDA & BLM] U.S. Department of Agriculture Forest Service and U.S. Department of Interior Bureau of Land Management. 2014. List of Survey and Manage Species in Record of Decision and Standards and Guidelines for Amendments to the Survey and Manage,

Protection Buffer, and other Mitigation Measures; as amended by Annual Species Reviews 2001-2003. Available at: https://www.blm.gov/or/plans/surveyandmanage/files/sm-fs-enc3-table1-1-dec2003wrtv.pdf [accessed May 2020].

[USFWS] U.S. Dept. Interior Fish and Wildlife Service. 2021. Endangered Species List. Available at: https://www.fws.gov/endangered [accessed August 2021].

Persons Contacted

Green, Kaitlyn. 2021. Data Coordinator, California Native Plant Society. Email correspondence regarding recent/unprocessed survey forms for *Stellaria obtusa*. Personal communication 12 August 2021.

Rabeler, Richard. 2021. Collections Manager, University of Michigan Herbarium and expert on the Caryophyllaceae. Email correspondence regarding the validity of the new genus *Engellaria*. Personal communication 30 August 2021.

Author(s) and Date:

Ellen A. Dean, California Native Plant Society, Associate Rare Plant Botanist, 19 August 2021; revised 13 October 2021.

Reviewer(s) and Date:

Aaron E. Sims, California Native Plant Society, Rare Plant Program Director, 28 September 2021; Julie Ann Kierstead, USDA Forest Service Region 5, Ecosystem Planning, 13 October 2021

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 obtuse starwort within California (NRIS, CNDDB, Calflora/CCH databases).

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
1	1.77 air miles S of Hwy 88. Approx. 0.96 air mile SW of the Little Bear River Reservoir spillway. Along a tributary of Rattlesnake Creek.	Amador	Peddler Hill (3812053	CNDDB recent survey form (Green 2021 pers. comm.)	6-Sep-2018	One individual with 20 stems, 2 ft diameter. Growing in a seasonally moist, mossy seep that is dry at time of observation. With Viola glabella, Ranunculus occidentalis, Hypericum anagalloides, and Stellaria crispa. Shaded by Abies concolor, Calocedrus decurrens. 55% canopy. Site quality Poor.	Cattle grazing frequent. Trampling observed. Part of timber harvest but will be protected because in watercourse.	Sierra Pacific Industries	5404
2	Approx. 0.82 air miles S of Hwy 88. Approx. 1.4 air miles NW of the Little Bear River Reservoir Spillway. Along a tributary to Rattlesnake Creek.	Amador	Peddler Hill (3812053	CNDDB recent survey form (Green 2021 pers. comm.)	6-Sep-2018	Four scattered clumps and at least 150 stems if not more. Clumps ranged in size from 10 x 3 ft to 1 x 1 ft. Along the edge of a wet spreading seep within a mixed conifer forest with Abies concolor, Calocedrus decurrens, Viola glabella, Viola macloskeyi, and Ranunculus occidentalis. 85% canopy. Overall site quality Good.	Surrounding is timberland. This area is frequented by grazing cattle and trampling observed. Location protected from timberland activities because in a watercourse.	Sierra Pacific Industries	5804

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
3	NORTH FORK FEATHER RIVER NEAR POE POWERHOUSE, ABOUT 2 MILES SOUTHEAST OF JARBO GAP. MAPPED ALONG THE RIVER IN THE VICINITY OF POE POWERHOUSE.	Butte	Berry Creek (3912164)	CNDDB, Aug. 2021 (EO 3)	6-May-1987	ONLY ONE PLANT SEEN. ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1987 COLLECTION BY AHART. ON DRY SAND ALONG THE RIVER. RIPARIAN WOODLAND.		Unknown	890
3	Along the North Fork of the Feather River, near the Poe Power House, about 2 miles south-east of Jarbo Gap.	Butte	Berry Creek (3912164)	CCH2, Aug. 2021 (CHSC042486)	6-May-1987	Only one plant seen. Riparian Woodland. On dry sand, along [river].		Unknown	890
4	NORTH SIDE OF BOLT CREEK ABOUT 1 MILE SOUTHEAST OF BUTTE MEADOWS AND 4 MILES SOUTHWEST OF JONESVILLE.	Butte	Butte Meadows (4012115)	CNDDB, Aug. 2021 (EO 19)	13-Sep-1993	MANY PLANTS OBSERVED IN 1993. STREAMSIDE, SHADE, WITHIN YELLOW PINE FOREST. Site quality Good.		Unknown	4350
4	On the south side of Bolt Creek, about 1 mile south-east of Butte Meadows. T26N R04E S28 SW1/4	Butte	Butte Meadows (4012115)	CCH2, Aug. 2021 (CHSC061639)	13-Sep-1993	Yellow Pine Forest. Normal size stems, on dry dark humus, in deep shade, on the south side of [creek]. Common, scattered.		Unknown	4350

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
4	about 1 mi se Butte Meadows (on s side of Bolt Creek)	Butte	Butte Meadows (4012115)	CCH2, Aug. 2021 (JEPS87 498)	13-Sep-1993	on dry dark humus, in deep shade, Yellow Pine Forest. Flowring/fruiting.		Unknown	4350
4	about 1 mi se Butte Meadows (on s side of Bolt Creek)	Butte	Butte Meadows (4012115)	CCH2, Aug. 2021 (UC1609 204)	13-Sep-1993	on dry dark humus, in deep shade, Yellow Pine Forest. Flowring/fruiting.		Unknown	4350
5	NEAR SCOTTS JOHN CREEK ABOUT 1.2 MILES SSE OF HUMBOLDT PEAK AND 3 MILES NORTHEAST OF JONESVILLE. ALONG ROAD PARALLELING SCOTTS JOHN CREEK, 2 MILES NORTH OF ROAD CONNECTING HUMBOLDT AND HUMBUG ROADS. SITE IS WITHIN THE NW 1/4 OF THE SW 1/4 OF SECTION 4.	Butte	Humboldt Peak (4012124)	CNDDB, Aug. 2021 (EO 22)	9-Jun-1987	ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1987 COLLECTION BY OSWALD. FORMING MATS ON WET SOIL ON THE EDGE OF AN ALDER THICKET NEAR THE CREEK.		Lassen NF	6000

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
5	Ca. 3 mi ne of Jonesville on the road paralleling Scotts John Creek, 2 mi n of the road connecting Humboldt and Humbug roads. Near the creek. T26N R05E S04 NW1/4 of SW1/4	Butte	Humboldt Peak (4012124)	CCH2, Aug. 2021 (CHSC0 48280)	9-Jun-1987	Red Fir Forest. Forming mats on wet soil on the edge of an alder thicket near the creek.		Lassen NF	6000
6	JONESVILLE, BY BUTTE CREEK. EXACT LOCATION NOT KNOWN; SITE MAPPED ALONG BUTTE CREEK IN THE JONESVILLE AREA.	Butte	Jonesville (4012114)	CNDDB, Aug. 2021 (EO 16)	18-Jul-1931	ON GRAVEL BARS. ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1931 COLLECTION BY COPELAND.		Lassen NF	5100
6	Jonesville. On gravel bars by Butte Creek.	Butte	Jonesville (4012114)	CCH2, Aug. 2021 (CHSC0 11854)	18-Jul-1931	On gravel bars by [creek].		Lassen NF	4922
6	Butte Creek Jonesville (Jonesville)	Butte	Jonesville (4012114)	CCH2, Aug. 2021 (UC4785 22)	19-Jul-1931	on gravel bars by creek. Flowering/fruiting.		Lassen NF	4922

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
7	TRIBUTARY TO BUTTE CREEK ABOUT 1 MILE ESE SNOW MOUNTAIN AND 1 MILE SE OF SUMMIT LAKE, 4.5 MILES SOUTHEAST OF JONESVILLE. MAPPED WITHIN THE NW 1/4 OF THE SW 1/4 OF SECTION 34.	Butte	Jonesville (4012114)	CNDDB, Aug. 2021 (EO 11)	28-Aug-1996	10 PLANTS OBSERVED IN 1996. ADDITIONAL HABITAT NEARBY WAS NOT SURVEYED. FIGURA UNCERTAIN OF IDENTITY, BUT OSWALD AND AHART COLLECTED S. OBTUSA FROM THIS VICINITY IN 1989 (#3875 CHSC). GROWING IN ALDER THICKET WITHIN MIXED CONIFER FOREST DOMINATED BY ABIES. ASSOCIATED WITH ALNUS INCANA SSP. TENULIFOILA, VERATRUM CALIFORNICUM CALIFORNICUM, GALIUM TRIFIDUM, SENECIO TRIANGULARIS, LIGUSTICUM GRAYI, AND CAREX. Site quality Fair.	LOGGING.	Lassen NF	6140
7	ca 0.7 air mi se Summit Lake (ca 4.5 air mi se of Jonesville, sw branch of upper Butte Creek); Butte Creek	Butte	Jonesville (4012114)	CCH2, Aug. 2021 (UC1564731)	21-Jul-1989	on moist gravel on the edge of the creek which is bordered by alders, Red Fir Forest. Flowering/fruiting.		Lassen NF	6000

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
7	Southwest branch of upper Butte Creek, ca. 0.7 mi (air) se of Summit Lake, ca. 4.5 mi (air) se of Jonesville. On the edge of the creek. T26N R05E S34 NW1/4	Butte	Jonesville (4012114)	CCH2, Aug. 2021 (CHSC0 46557)	21-Jul-1989	Red Fir Forest. On moist gravel on the edge of the creek which is bordered by alders.		Lassen NF	6000
8	NEAR COON HOLLOW ROAD AT THE WEST BRANCH FEATHER RIVER, ABOUT 3.5 MILES SSW OF JONESVILLE. MAPPED WITHIN THE NE 1/4 OF THE SW 1/4 OF SECTION 36.	Butte	Jonesville (4012114)	CNDDB, Aug. 2021 (EO 18)	29-Jul-1987	ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1987 COLLECTION BY OSWALD. FORMING A MAT ON WET GRAVEL ON THE EDGE OF A SMALL BACKWATER.		CA Dept. of Fish and Wildlife Coon Hollow Wildlife Area	5320
8	Near Coon Hollow Rd. at the W. Branch of the Feather River, ca. 2.5 mi (air) n of Philbrook Reservoir. On the edge of a small backwater of the river. T26N R04E S36 NE1/4 of SW1/4	Butte	Jonesville (4012114)	CCH2, Aug. 2021 (CHSC0 48281)	29-Jul-1987	Yellow Pine Forest. Near [road]. Forming a mat on wet gravel on the edge of a small backwater of the river.		CA Dept. of Fish and Wildlife Coon Hollow Wildlife Area	5320

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
9	Coon Hollow, upper reaches thereof ca. 0.3 miles above the creek crossing of Forest Road 26N74 (High Lakes Road), watershed West Branch Feather River	Butte	Jonesville (4012114)	CCH2, Aug. 2021 (JEPS109818)	21-Jul-2004	moist shaded site near stream, under Alnus tenuifolia canopy		Unknown	5600
9	Coon Hollow, upper reaches thereof ca. 0.3 miles above the creek crossing of Forest Road 26N74 (High Lakes Road), watershed West Branch Feather River	Butte	Jonesville (4012114)	Calflora, Aug. 2021 (wb2209-20362)	21-Jul-2004	individuals. moist shaded site near stream, under Alnus tenuifolia canopy		Unknown	5679
9	Coon Hollow, upper reaches thereof ca. 0.3 miles above the creek crossing of Forest Road 26N74 (High Lakes Road), watershed West Branch Feather River	Butte	Jonesville (4012114)	Calflora, Aug. 2021 (wb2209-4909)	21-Jul-2004	individuals. moist shaded site near stream, under Alnus tenuifolia canopy		Unknown	5679
9	Coon Hollow, upper reaches thereof ca. 0.3 miles above the creek crossing of Forest Road 26N74	Butte	Jonesville (4012114)	Calflora, Aug. 2021 (xr168717)	21-Jul-2004	1+ individuals		Unknown	5676

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
10	SOUTH SIDE OF COON HOLLOW ABOUT 2 MILES NORTHEAST OF PHILBROOK RESERVOIR AND 4.5 MILES SOUTH OF JONESVILLE. NORTHWEST OF A SNOW LAKE.	Butte	Jonesville (4012114)	CNDDB, Aug. 2021 (EO 15)	21-Jul-1992	MANY PLANTS OBSERVED IN 1992. PLANTS COLLECTED IN THIS VICINITY BY SCHLISING IN 1989 (#4452 CHSC). RED FIR FOREST. ONE COLLECTION IN DRY STREAMBED. Site quality Excellent.		Lassen NF, possibly also Coon Hollow Wildlife Area	5700
10	Along a small wash and in meadows, north-west of a snow lake, on the south side of Coon Hollow, about 2 (air) miles north-east of Philbrook Reservoir. T25N R05E S05 SW1/4	Butte	Jonesville (4012114)	CCH2, Aug. 2021 (CHSC0 58904)	21-Jul-1992	Red Fir Forest. Normal stems, growing on damp to dry gravelly soil along a small wash and in dry meadows. Common.		Lassen NF, possibly also Coon Hollow Wildlife Area	5700
10	about 2 air mi ne Philbrook Reservoir (on s side of Coon Hollow, nw of a snow lake); Coon Hollow	Butte	Jonesville (4012114)	CCH2, Aug. 2021 (UC1594 583)	21-Jul-1992	growing on damp to dry gravelly soil along a small wash and in dry meadows, Red Fir Forest. Flowering/fruiting.		Lassen NF, possibly also Coon Hollow Wildlife Area	5700
10	about 2 air mi ne Philbrook Reservoir (on s side of Coon Hollow, nw of a snow lake); Coon Hollow	Butte	Jonesville (4012114)	CCH2, Aug. 2021 (JEPS87 165)	21-Jul-1992	growing on damp to dry gravelly soil along a small wash and in dry meadows, Red Fir Forest. Flowering/fruiting.		Lassen NF, possibly also Coon Hollow Wildlife Area	5700

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
10	N part of county in Coon Hollow, N of Philbrook Reservoir. In streambed. T25N R05E S05	Butte	Jonesville (4012114)	CCH2, Aug. 2021 (CHSC0 39044)	27-Aug-1983	In dried streambed of small stream, with Mimulus moschatus; within forest of Abies magnifica.		Lassen NF, possibly also Coon Hollow Wildlife Area	
11	ON FOREST SERVICE ROAD N OF PHILBROOK RESERVOIR WITHIN SECTION 12.	Butte	Jonesville (4012114)	CNDDB, Aug. 2021 (EO 17)	1-Aug-1980	ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1980 COLLECTION BY SCHLISING AND BANCHERO. IN RED FIR FOREST AT MARGIN OF SMALL STREAM. ASSOCIATED WITH ALNUS, SAGINA SAGINOIDES, CIRCAEA ALPINA SSP. PACIFICA, GILIA CAPILLARIS.		Lassen NF	5800
11	On Forest Service road N of Philbrook Lake in N part of county. At margin of small stream. T25N R04E S12	Butte	Jonesville (4012114)	CCH2, Aug. 2021 (CHSC0 35037)	1-Aug-1980	In forest of Abies magnifica; at margin of small stream, with Alnus, Sagina saginoides, Circaea alpina ssp. pacifica, Gilia capillaris.		Lassen NF	

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
12	WILLOW CREEK, ABOUT 1.5 MILES SOUTHWEST OF HUMBUG SUMMIT AND 3.5 MILES ESE OF JONESVILLE.	Butte	Jonesville (4012114)	CNDDB, Aug. 2021 (EO 13)	28-Aug-1996	60 PLANTS OBSERVED IN 1996. THREE COLONIES ALONG NORTH SIDE OF STREAM AND GRAVEL BAR WITHIN THE SW 1/4 OF THE NW 1/4 OF SECTION 22. A COLLECTION BY SCHLISING (#4602) ATTRIBUTED TO THIS SITE ("NEAR WILLOW CREEK"). RIPARIAN AREA WITHIN SLIGHTLY MIXED CONIFER (MOSTLY ABIES CONCOLOR AND SOME PINUS MURRAYANA). ASSOCIATED WITH ALNUS INCANA SSP. TENULIFOILA, VIOLA GLABELLA, ELYMUS GLAUCUS, MIMULUS MOSCHATUS, POA BOLANDERI, AND ACHILLEA MILLEFOLIUM. Site quality Good.		Lassen NF	6040
12	N part of county, NE of Butte Meadows and E of Scott John Creek; near Willow Creek. T26N R05E S21	Butte	Jonesville (4012114)	CCH2, Aug. 2021 (CHSC0 46826)	16-Jul-1988	Near [creek] in region of Pseudotsuga menziesii, Pinus ponderosa, P. lambertiana, Abies concolor, A. magnifica; on shaded and moist turf at creekside.		Lassen NF	5100

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
13	East of the dirt road, along a small branch of Willow Creek, about 1/2 mile west of Humbug Summit. T26N R05E S13 near center	Butte	Jonesville (4012114)	CCH2, Aug. 2021 (CHSC0 65336)	3-Oct-1995	Red Fir Forest. Normal size stems, on dry dark soil under mountain alders, along a small branch of [creek]. Uncommon.		Lassen NF	6500
14	BROWN RAVINE ABOUT 1.5 MILES SOUTH OF PHILBROOK RESERVOIR, ABOUT 7.5 MILES SOUTH OF JONESVILLE. MAPPED WITHIN THE NW 1/4 OF THE NE 1/4 OF SECTION 25.	Butte	Jonesville (4012114)	CNDDB, Aug. 2021 (EO 12)	5-Aug-1996	1 MAT OF PLANTS OBSERVED IN 1996. ADDITIONAL HABITAT NEARBY WAS NOT SURVEYED. FIGURA UNCERTAIN OF IDENTITY, POSSIBLY S. CRISPA. GROWING BENEATH ALDERS ON SHADY MOIST STREAMBANK WITHIN MIXED CONIFER FOREST DOMINATED BY ABIES. ASSOCIATED WITH ALNUS INCANA SSP. TENULIFOILA, CIRCAEA ALPINA VAR. PACIFICA, VIOLA GLABELLA, GLYCERIA ELATA, AND CAREX. Site quality Good.	LOGGING IN ADJACENT UPLAND AREAS.	Lassen NF	5420

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
15	BROWN RAVINE ABOUT 0.5 MILE EAST OF DRESSER CAMP AND 1.5 MILE SOUTHEAST OF PHILBROOK RESERVOIR. MAPPED WITHIN THE SE 1/4 OF THE SW 1/4 OF SECTION 20.	Butte	Jonesville (4012114)	CNDDB, Aug. 2021 (EO 14)	20-Jul-1994	20 PLANTS OBSERVED IN 1994. RIPARIAN AREA WITH ALDER AND WILLOWS WITHIN RED FIR COMMUNITY. STEEP BANKS ON A LEVEL SLOPE ASSOCIATED WITH OSMORHIZA CHILENSIS, CHIMAPHILA MENZIESII, AND TRIFOLIUM LONGIPES. Site quality Good.	PRIVATE PLACER MINING AREA.	Lassen NF	6240
16	NORTH OF EAST FORK LAST CHANCE CREEK JUST SOUTH OF FISH CREEK, ABOUT 3.2 MILES NNW OF BALD MOUNTAIN.	Butte	Kimshew Point (3912184)	CNDDB, Aug. 2021 (EO 5)	5-Aug-1996	2 PLANTS SEEN AT THIS SITE IN 1996. IN SMALL SEEP WITHIN MIXED CONIFER (MOSTLY WIHTE FIR) FOREST. ASSOCIATED WITH ALNUS INCANA TENUIFOILA, GLYCERIA ELATA, AND CAREX. Site quality Good.		Lassen NF	5040
17	Plumas National Forest, 0.4 miles ENE of Four Trees.	Butte	Soapstone Hill (3912173)	CCH2, Aug. 2021 (CHSC1 22889)	29-Aug-2019	Prostrate. Moist soil in small meadow, in white fur forest, with Abies concolor, Frangula purshiana, Viola glabella, Circaea alpine, Athyrium filixfemina, Heracleum maximum, and Agrostis sp..		Plumas NF	4960

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
18	ENE of West Point. Just S of Forest Creek. Approx. 1.09 air miles SW of the intersection of Forest Roads 7N03 and 7N08.	Calaveras	Garnet Hill (3812043)	CNDDB recent survey form (Green 2021 pers. comm.)	5-Sep-2018	at least 1000 stems. Difficult to determine number of individuals. Many scattered clumps. Population extends in either direction from the point. Along the edge of two mossy wet seeps filled with standing water within a mixed conifer forest. Growing with Lemna, Viola glabella, Mimulus moschatus, Lycoperdon periatum, mosses, liverworts, Pseudotsuga menziesii, Calocedrus decurrens, Stellaria crispa. 75% canopy. Site quality Good.	Within proposed timber harvest unit but is located in protected watercourse.	Sierra Pacific Industries	4390
19	In the vicinity of Wilseyville and Dardenelles Cone. 3.2 air miles SW of Poison Spring. South of Salt Spring Reservoir.	Calaveras	Calaveras Dome (3812042)	CNDDB recent survey form (Green 2021 pers. comm.)	2-Aug-2020	43 individuals. Stream bank with saturated soil. Cover 50-75%. With Viola macloskeyi, Erythranthe moschata, Abies concolor and Ribes sp. Site quality Good.	Within proposed timber harvest unit. Impacts unknown.	Sierra Pacific Industries	5685
20	In the vicinity of Wilseyville and Dardenelles Cone. 3.9 air miles SW of Poison Spring. South of Salt Spring Reservoir.	Calaveras	Dorrington (3812033)	CNDDB recent survey form (Green 2021 pers. comm.)	2-Aug-2020	36 individuals. Growing in vegetative mats in moist-boggy, heavy organic matter soil, in 80% cover with Abies concolor, Prunella vulgaris, Circaea alpina, Stellaria crispa, Erythranthe guttata. Site quality Good.	Within proposed timber harvest unit. Impacts unknown.	Sierra Pacific Industries	5600

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
21	In the vicinity of Bailey Ridge and Cotton Wood Gulch. Approximately 0.4 miles SW from Cuneo Camp and 2.3 miles NE from Hermit Springs.	Calaveras	Calaveras Dome (3812042)	CNDDB recent survey form (Green 2021 pers. comm.)	16-Sep-2020	150 mats ranging from 1 to 5 feet in diameter. In moist alder thicket with dark duff covered soils, canopy cover 80%. With Calocedrus decurrens, Circaea alpina, Asarum caudatum, Stellaria crispa, and mosses. Site quality Excellent.	Within timberlands. Growing adjacent to a proposed timber harvest unit.	Sierra Pacific Industries	5700
22	El Dorado County. West side of Lake Tahoe, Sugar Pine Point State Park. Western part of the park, downslope of trail that branches off to Lily Pond.	El Dorado	Homewood (3912012)	CCH2, Aug. 2021 (DAV39 0699)	9-Aug-2014	Within quaking aspen grove, moist forest floor with understory of Lonicera, Viola, Heracleum, and Veratrum. Very common herb, sprawling on moist forest floor. Leaf edges flat when fresh, somewhat undulate when dry. Leaf bases ciliate. Capsule with three valves.		CA Dept. of Parks and Recreation, Ed Z'Berg Sugar Pine Point State Park	6554
22	El Dorado County. West side of Lake Tahoe, Sugar Pine Point State Park. Western part of the park along General Creek.	El Dorado	Homewood (3912012)	CCH2, Aug. 2021 (DAV39 0700)	9-Aug-2014	Uncommon herb sprawling in clumps on gravel bar within creek bed. Surrounded by alder thickets. In fruit. Capsule valves 3. Leaves mostly glabrous except for hairs near petiole. Leaf edges flat when collected. Sepals obtuse.		CA Dept. of Parks and Recreation, Ed Z'Berg Sugar Pine Point State Park	6560

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
23	El Dorado County. West side of Lake Tahoe, Sugar Pine Point State Park. Western part of the park along westernmost stretch of General Creek.	El Dorado	Homewood (3912012)	CCH2, Aug. 2021 (DAV390701)	13-Aug-2014	Near side drainage that feeds the creek, northern creek bank, under alders in dark, moist, sandy soil. Sprawling population of this herb in 10 ft by 3 ft mat. Past fruiting. Capsules open.		CA Dept. of Parks and Recreation, Ed Z'Berg Sugar Pine Point State Park	6569
24	El Dorado County. West side of Lake Tahoe, Sugar Pine Point State Park. Along General Creek on east side of Hwy 89.	El Dorado	Meeks Bay (3912011)	CCH2, Aug. 2021 (DAV390698)	21-Jun-2014	In sand of creek in open sun with Juncus chlorocephalus and Juncus ensifolius. Herb, no petals, 4 sepals, 4 stamens.		CA Dept. of Parks and Recreation, Ed Z'Berg Sugar Pine Point State Park	6255
25	Sequoia National Forest; Monarch Wilderness area; approximately 2.75 air miles northwest of Horse Corral Meadow.; Wren Peak Quad.	Fresno	Wren Peak (3611877)	CCH2, Aug. 2021 (RSA003 9989)	25-Jun-2014	Uncommon in small, sloping, shady meadow. Veratrum californicum, Geranium richardsonii, Senecio triangularis, Thalictrum, Potentilla, Dodecatheon, Castilleja, with meadow margins having Pinus jeffreyi, Abies concolor.		Sequoia National Forest (Monarch Wilderness Area)	7625
26	FOREST CAMP, PLASKETT MEADOWS.	Glenn	Plaskett Meadows (3912267)	CNDDB, Aug. 2021 (EO 6)	Jul 1942	ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1942 COLLECTION BY BAKER.		Mendocino NF	6000
26	Plaskett Meadows	Glenn	Plaskett Meadows (3912267)	CCH2, Aug. 2021 (UC963881)	1-Feb-1942	found growing in a box of plants. Flowering/fruiting.		Mendocino NF	

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
26	Plaskett Meadows; at Forest Camp	Glenn	Plaskett Meadows (3912267)	CCH2, Aug. 2021 (UC679535)	Jul 1942	Rich moist soil near spring. Flowering/fruiting.		Mendocino NF	
26	.33 mi w Plaskett Ranger Station (on old road)	Glenn	Plaskett Meadows (3912267)	CCH2, Aug. 2021 (UC708937)	7-Aug-1943	on old road. Flowering/fruiting.		Mendocino NF	6300
26	Plaskett Ranger Station in spring spot above Forest Camp	Glenn	Plaskett Meadows (3912267)	CCH2, Aug. 2021 (CAS BOT-BC 181455)	4-Jul-1942	In spring spot above camp.		Mendocino NF	
27	LOWER END OF BRET HOLE, TRINITY SUMMIT.	Humboldt	Trinity Mtn. (4112314)	CNDDB, Aug. 2021 (EO 28)	23-Jul-1935	ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS 1935 COLLECTION BY TRACY. WOODED HILLSIDE.		Six Rivers NF (Trinity Alps Wilderness)	5200
27	lower end Brett Hole; Trinity Summit	Humboldt	Trinity Mtn. (4112314)	CCH2, Aug. 2021 (UC668077)	23-Jul-1935	moist place in woods, wooded hillsides. Flowering/fruiting.		Six Rivers NF (Trinity Alps Wilderness)	5200
27	lower end Brett Hole; Trinity Summit	Humboldt	Trinity Mtn. (4112314)	CCH2, Aug. 2021 (JEPS79991)	23-Jul-1935	moist place in woods, wooded hillsides. Flowering/fruiting.		Six Rivers NF (Trinity Alps Wilderness)	5200

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
28	NEAR JUNIPER LAKE, LASSEN VOLCANIC NATIONAL PARK.	Lassen	Mt. Harkness (4012143)	CNDDB, Aug. 2021 (EO 24)	1959XXXX	ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS SITE NAME OF 1959 COLLECTION BY HOWELL CITED IN "A FLORA OF LASSEN VOLCANIC NATIONAL PARK" BY GILLETTE ET AL. (1961).		Lassen Volcanic NP	6760
29	ABOUT 1.75 MILES SOUTHEAST OF 101 RANCH ALONG TRIBUTARY TO GOODRICH CREEK, NORTHEAST OF MOUNTAIN MEADOWS RESERVOIR. ALONG DRAINAGE JUST WEST OF USFS PROPERTY LINE.	Lassen	Westwood East (4012038)	CNDDB, Aug. 2021 (EO 7)	22-Aug-1996	10 PLANTS OBSERVED IN 1996. NEAR A MOIST DRAINAGE WITHIN A MIXED CONIFER FOREST WITH STACHYS AJUGOIDES VAR. RIGIDA, GLYCERIA ELATA, EQUISETUM, AND ALNUS INCANA SSP. TENUIFOLIA. Site quality Fair.	DRAINAGE IS GULLIED FROM LOGGING ACTIVITIES IN OR NEAR THE DRAINAGE.	Lassen NF	5800
30	Parker Creek Canyon.	Modoc	Shields Creek (4112043)	CCH2, Aug. 2021 (CAS 305805)	Jul 1932			Modoc NF	5600

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
31	Univ. of Calif. Valentine Eastern Sierra Reserve, Old Mammoth Rd., 2.5 mi. SW of Highway 203	Mono	Old Mammoth (3711868)	CCH2, Aug. 2021 (UCSB0 33532)	24-Jun-1976	Moist soil; near seep; with Epilobium exaltatum and Mimulus nasutus		Univ. of Calif. Valentine Eastern Sierra Reserve	
32	Just north of a small spring, on the east side of Fall Creek, about 200 yards east of where Fall Creek crosses Forest Highway 18, or Bowman Lake Road, about 5 miles (air) or 8 miles by road north of Highway 20 and Bear Valley. T17N R12E S06 NW1/4	Nevada	Blue Canyon (3912036)	CCH2, Aug. 2021 (CHSC0 78379)	28-Jul-2000	On damp to dry soil under shrubs, just north of a small spring. Yellow Pine Forest. Small parts from large mats; common, inconspicuous.		Tahoe NF	5600
32	E side of Fall Creek 200 yds E of Forest Hwy 18 (Bowman Lake Road), 5 air miles (8 road miles) N of Bear Valley and Hwy 20	Nevada	Blue Canyon (3912036)	CCH2, Aug. 2021 (JEPS98 485)	28-Jul-2000	small parts from large mats, damp to dry soil under shrubs, just N of a small spring; Yellow Pine Forest. Flowering/fruiting.		Tahoe NF	5600
33	Bowman Lake Road, small drainage east of the road at a point ca. 0.8 road miles S of Black Camp	Nevada	Graniteville (3912046)	CCH2, Aug. 2021 (JEPS11 8124)	5-Aug-2009	moist understory of Alnus tenuifolia thickets in conifer forest		Unknown, maybe edge of Tahoe NF	6150

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
33	Bowman Lake Road, small drainage east of the road at a point ca. 0.8 road miles S of Black Camp	Nevada	Graniteville (3912046)	CCH2, Aug. 2021 (JEPS118125)	5-Aug-2009	moist understory of Alnus tenuifolia thickets in conifer forest. Flowering/fruiting.		Unknown, maybe edge of Tahoe NF	6150
34	Loney Meadow. From Loney Meadow trailhead take trail northeast towards upper Loney Meadow. Once at Loney Meadow, continue on the trail to far eastern edge of meadow where aspen stand is. From eastern edge of aspen stand go south 180 feet to first subpopulation.	Nevada	Graniteville (3912046)	NRIS, Mar. 2021 (STOBTNF15W)	27-Jul-2016	15 individuals in 0.0097 acre. Plant count based on "clumps". Three subpopulations. First subpopulation only 2 indivls under alder thicket, second population in opening in alder and aspen, 80 sq. ft. clump, third subpop. 1 sq. ft. clump. CWHR habitat types- Montane Riparian (MRI) and Aspen (ASP). All subpopulations were growing in the vicinity of alder thickets with an aspen component. The subpopulations canopy cover varied from 10-80% absolute canopy closure. There are likely more individuals.	Heavy disturbance from cattle grazing observed in the vicinity and in one of the subpopulations was trampled heavily.	Tahoe NF	6125
35	Starr Ravine	Placer	Greek Store (3912015)	NRIS, Mar. 2021 (STOBTNF13BW)	25-Aug-2015	0.1329 acres. Growing in road and down into mesic drainage in mixed conifer forest.		Tahoe NF	

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
35	Starr Ravine	Placer	Greek Store (3912015)	NRIS, Mar. 2021 (STOBT NF13A W)	25-Aug-2015	0.0479 acres. Growing in seepy area with dense alder overstory.		Tahoe NF	
36	North Fork Frazier Creek	Placer	Greek Store (3912015)	NRIS, Mar. 2021 (STOBT NF14W)	26-Aug-2015	0.0701 acres. Growing on bench adjacent to creek.		Tahoe NF	
37	Placer County: Northwest corner of the Tahoe Basin. Burton Creek State Park. South side of Burton Creek near east end of Burton Creek Natural Reserve meadow.	Placer	Tahoe City (3912022)	CCH2, Aug. 2021 (DAV23 2566)	16-Aug-2019	With Erythranthe moschatus, Epilobium and Galium under Alnus. Prostrate herb, forming loose mats, styles 3, capsule values three. Tiny hairs are present at base of leaves near petiole. No petals present. Sepals 4. About 50 plants in this area.		CA Dept. of Parks and Recreation Burton Creek SP	6656
37	Placer County: Northwest corner of the Tahoe Basin. Burton Creek State Park. North side of Burton Creek in central area of Burton Creek Natural Reserve.	Placer	Tahoe City (3912022)	CCH2, Aug. 2021 (DAV23 2554)	16-Aug-2019	Near alders with Abies with Ribes, Drymocallis. Large patch of this herb. Sepals four, styles 3, small hairs at base of leaves. No petals.		CA Dept. of Parks and Recreation Burton Creek SP	6660

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
38	Along a small upper branch of Fall River, ca 1 1/4 mile SW of the intersection of Lumpkin Ridge Road and the road to Tamarack Flat, ca 2 miles (air) NW of Little Grass Valley Reservoir dam, ca 5 miles (air) NW of La Porte.	Plumas	American House (3912161)	CCH2, Aug. 2021 (JEPS10 3513)	18-Jul-2002	Mixed Evergreen Forest. Normal stems, on damp humus, deep shade, along a small branch of river. Flowering/fruiting.		Plumas NF	5441
38	Along a small upper branch of Fall River, about 1 1/4 mile southwest of the intersection of Lumpkin Ridge Road and the road to Tamarack Flat, about 2 miles (air) northwest of Little Grass Valley Reservoir dam, about 5 miles (air) northwest of La Porte. T2	Plumas	American House (3912161)	CCH2, Aug. 2021 (CHSC0 82548)	18-Jul-2002	Mixed Evergreen Forest. Normal stems, on damp humus, deep shade, along a small branch of river. Common, scattered, inconspicuous.		Plumas NF	5441

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
39	L-T CREEK JUST UPSTREAM FROM CONFLUENCE WITH PANHANDLE CREEK, ABOUT 6 MILES ESE OF JONESVILLE. MAPPED IN NW1/4 OF SW1/4 SEC 20.	Plumas	Belden (4012113)	CNDDB, Aug. 2021 (EO 8)	24-Jul-1996	1 PLANT OBSERVED IN 1996. ON MOIST, FLAT STREAMBANK IN LODGEPOLE AND WHITE FIR FOREST. GROWING WITH STACHYS AJUGOIDES VAR. RIGIDA, ACHILLEA MILLEFOLIUM, TRIFOLIUM LONGIPES, AND CAREX. Site quality Fair.	LOGGING AND GRAZING.	Lassen NF	6000
40	SAWMILL TOM CREEK ABOUT 0.8 MILE UPSTREAM FROM CONFLUENCE WITH GRIZZLY CREEK, ABOUT 6.5 MILES EAST OF JONESVILLE. MAPPED WITHIN THE SW 1/4 OF THE SE 1/4 OF SECTION 8.	Plumas	Belden (4012113)	CNDDB, Aug. 2021 (EO 9)	13-Sep-1995	LARGE PATCH OF PLANTS (5 X 2 METERS) OBSERVED IN 1995. WHITE FIR FOREST; FEEDER SPRING; STEEP SLOPE; MOIST, LITTERED SOILS. ASSOCIATED WITH OSMORHIZA CHILENSIS, SENECIO TRIANGULARIS, ALNUS INCANA SSP. TENUIFOLIA, MIMULUS MOSCHATUS, GLYCERIA, AND GALIUM. Site quality Good.		Lassen NF	5920

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
41	OUTLET OF FROG LAKE ALONG TRIBUTARY TO SODA CREEK, ABOUT 6.5 MILES SOUTHEAST OF JONESVILLE. ABOUT 1 MILE SOUTH OF SUNFLOWER FLAT AND 0.25 MILE NORTH OF FROG LAKE; WHERE GREEN ISLAND TRAIL CROSSES DRAINAGE.	Plumas	Belden (4012113)	CNDDB, Aug. 2021 (EO 10)	29-Jul-1996	3 PLANTS OBSERVED IN 1995. IN WET DRAINAGE WITHIN A RED FIR/MIXED CONIFER FOREST. IN MOIST SHADY AREAS UNDERNEAR ALDERS. WITH CIRCAEA ALPINA SSP. PACIFICA, VIOLA, STACHYS AJUGOIDES VAR. RIGIDA, AND OSMORHIZA OCCIDENTALIS. Site quality Excellent.	TRAIL NEARBY, BUT NOT ON PLANTS.	Lassen NF	5900
42	Tributary to Hopkins Creek draining from Blue Nose Mountain. Along Forest Road 23N10 near the junction with Forest Road 23N43Y.	Plumas	Blue Nose Mtn. (3912077)	CCH2, Aug. 2021 (JEPS118557)	1-Aug-2001	Boulder dominated streambed in Alnus tenuifolia thickets, Abies concolor dominated forest on steep upslope. Flowering.		Plumas NF	4900

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
43	Sand bar on the east side of Hopkins Creek, about 100 yards northwest of the East Branch of Hopkins Creek, about 1/2 mile (air) south of Turkey Town, about 2 1/2 miles (air) southeast of Pilot Peak. T22N R10E S14 near the center	Plumas	Blue Nose Mtn. (3912077)	CCH2, Aug. 2021 (CHSC080828)	19-Jul-2001	Normal size plant. Uncommon, inconspicuous. On damp rocky soil, on a sand bar. Red Fir Forest.		Plumas NF	6000
44	Near SE corner of Lower Bucks Lake, at mouth of Pat Maloy Ravine Creek. T24N R07E S33 NE1/4/ of NW1/4 of NW1/4 USGS Quadrangle: Bucks Lake	Plumas	Bucks Lake (3912182)	CCH2, Aug. 2021 (CHSC074083)	7-Oct-1998	Near SE corner of [lake], at mouth of [creek]. In small wetland. In wet sand, in small exposed flats among willows, with sedges, Juncus spp., Scirpus spp., and Boykinia sp. Most closely associated with mosses and liverworts.		Plumas NF	5120

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
45	Ca 1.1 air mi SE of Bucks Lake, ca 0.1 mi S of the Oro-Quincy Hwy on slope among Haskins Valley USFS Summer Home Tract cabins, where seeps and springs surface. T23N R07E S12 SE1/4 of NW1/4 USGS Quadrangle: Haskins Valley 1:24,000	Plumas	Haskins Valley (3912172)	CCH2, Aug. 2021 (CHSC0 64430)	8-Sep-1994	On slope where seeps and springs surface. Spreading flat over damp gravel at shaded edges of small meadow with Veronica serpyllifolia ssp. humifusa, Mitella sp., Eleocharis acicularis, Circaea alpina var. pacifica, and leafy mosses. Surrounded by Red fir		Plumas NF	5340
46	LITTLE GRIZZLY CREEK NORTHEAST OF FRENCHMAN HILL, SOUTHWEST OF BUCKS LAKE.	Plumas	Haskins Valley (3912172)	CNDDB, Aug. 2021 (EO 4)	28-Jul-1994	MANY PLANTS SEEN AT THIS SITE IN 1994. G. CLIFTON REPORTED OBSERVING STELLARIA OBTUSA IN THIS VICINITY AS PER G. PONTING (1996). STREAMSIDE IN SHADE WITHIN RED FIR FOREST. Site quality Excellent.	LOGGING.	Plumas NF	5600
46	On the east sides of a small stream, north-east of Frenchman Hill, south-west of Bucks Lake. T23N R07E S07 SE1/4	Plumas	Haskins Valley (3912172)	CCH2, Aug. 2021 (CHSC0 63219)	28-Jul-1994	Normal size stems. Uncommon. Flowers white. Red Fir Forest. On dry black humus, under Mountain Alders, on the east sides of a small stream, wet areas along stream mostly covered with Mountain Alders.		Plumas NF	5600

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
46	SW of Bucks Lake (NE of Frenchman Hill)	Plumas	Haskins Valley (3912172)	CCH2, Aug. 2021 (JEPS95 590)	28-Jul-1994	normal size plants;; flowers white. dry black humus, under Mountain Alders, on E side of a small stream, wet areas along stream; Red Fir Forest. Flowering/fruiting.		Plumas NF	5600
47	WEST OF EAGLE ROCKS ALONG DRAINAGE TO BUTT CREEK, ABOUT 1.1 MILE ENE OF HUMBOLDT PEAK. MINOR DRAINAGE BETWEEN EAGLE ROCKS AND BUTT CREEK WITHIN THE NW 1/4 OF THE SW 1/4 OF SECTION 28.	Plumas	Humboldt Peak (4012124)	CNDDB, Aug. 2021 (EO 21)	7-Jul-1994	ABOUT 20 PLANTS OBSERVED IN 1994. OPENING INEAR MINOR DRAINAGE WITHIN WHITE FIR FOREST. Site quality Fair.	LOGGING.	Lassen NF	5900

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
48	ABOUT 0.3 MILE NORTH OF HUMBUG ROAD AND 1 MILE EAST OF HUMBUG VALLEY, ALONG TRIBUTARY TO YELLOW CREEK. ABOUT 1.5 MILES WNW OF BIG SPRINGS WITHIN THE NE 1/4 OF THE NE 1/4 OF SECTION 3.	Plumas	Humbug Valley (4012123)	CNDDB, Aug. 2021 (EO 20)	12-Aug-1996	10-20 PLANTS OBSERVED IN 1996. FIGURA UNCERTAIN OF IDENTITY OF THIS POPULATION, POSSIBLY S. CRISPA. MOIST RIPARIAN HABITAT ADJACENT TO A CREEK WITHIN MIXED CONIFER FOREST. ASSOICATED WITH CIRCAEA ALPINA, SENECIO TRIANGULARIS, TRISETUM CANESCENS, ELYMUS GLAUCUS, STACHYS AJUGOIDES, GALIUM APARINE, AND PRUNELLA VULGARIS. Site quality Fair.	RIPARIAN AREA IS HEAVILY GRAZED BY CATTLE.	Lassen NF	4680
49	ALONG WARNER CREEK IN WARNER CREEK VALLEY, ABOUT 0.5 MILE SSW OF LEE CAMP. MAPPED ALONG THE WEST SIDE OF CREEK WITHIN THE NW 1/4 OF THE SE 1/4 SECTION 32.	Plumas	Mt. Harkness (4012143)	CNDDB, Aug. 2021 (EO 23)	30-Jul-1996	1 PLANT OBSERVED IN 1996. SITE IS EXCELLENT, BUT ONLY ONE PLANT SEEN. ON GRAVELY/SANDY BAR NEAR CREEK. GROWING WITH RORIPPA CURVISILIQUA, MIMULUS GUTTATUS, SPERGULARIA RUBRA, AND NEAR ALNUS AND SALIX. Site quality Fair.	LOGGING AND RECREATION ACTIVITY NEARBY, BUT NOT A THREAT TO THIS SITE.	Lassen NF	5200

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
50	LITTLE WILLOW CREEK JUST WEST OF WILLOW LAKE, LASSEN VOLCANIC NATIONAL PARK. ALONG CREEK BETWEEN WILLOW LAKE AND THE ACCESS ROAD INTO TERMINAL GEYSER, WITHIN THE SE 1/4 OF THE SW 1/4 OF SECTION 36.	Plumas	Mt. Harkness (4012143)	CNDDB, Aug. 2021 (EO 25)	22-Jun-1992	IN MOIST GRAVEL ON THE ROCKY EDGE OF THE CREEK WITHIN A FORESTED SLOPE. GROWING AT YELLOW PINE-RED FIR FOREST ECOTONE.		Lassen Volcanic NP	5500
50	Lassen Volcanic National Park. Little Willow Creek between Willow Lake and the access road into Terminal Geyser. On the edge of the creek. T30N R05E S36 SE1/4 of SW1/4	Plumas	Mt. Harkness (4012143)	CCH2, Aug. 2021 (CHSC0 58186)	22-Jun-1992	Yellow Pine-Red Fir forest ecotone. In moist gravel on the rocky edge of the creek, which is flowing down a forested slope.		Lassen Volcanic NP	5500

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
51	At the end of a small stream that flows into the South Fork of the Feather River, about 350 yards east of the County Road where it crosses the South Fork of the Feather River, about 3/4 mile (air) southwest of Pilot Peak, about 8-1/2 miles (air) northeast	Plumas	Onion Valley (3912078)	CCH2, Aug. 2021 (CHSC1 10373)	5-Sep-2012	Red Fir Forest. Normal size stems, on damp dark soil, meadow. Common. Plants green.		Plumas NF	6200
51	About 350 yards east of the County Road where it crosses the South Fork of the Feather River, about 3/4 mile (air) southwest of Pilot Peak, about 8 1/2 miles (air) northeast of La Porte.	Plumas	Onion Valley (3912078)	CCH2, Aug. 2021 (JEPS11 9930)	5-Sep-2012	Normal size stems. Common. Red Fir Forest. On damp dark soil, at the end of a small stream that flows into the South Fork of the Feather River. Flowering/fruiting.		Plumas NF	6200

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
52	NORTH ARM RICE CREEK, ABOUT 0.25 MILE NORTH OF USFS ROAD 29N03Y & 1.2 MILE ESE OF BLUE LAKE. MAPPED WITHIN THE SE 1/4 OF THE SE 1/4 OF SECTION 5.	Plumas	Reading Peak (4012144)	CNDDB, Aug. 2021 (EO 26)	25-Jul-1997	1 PATCH OF STELLARIA OBSERVED IN 1997. MOIST, GRASSY RIPARIAN AREA WITHIN UPPER MIXED CONIFER FOREST. GROWING WITH VIOLA GLABELLA, VERATRUM CALIFORNICUM, HIERACIUM ALBIFLORA, CAREX, ELYMUS GLAUCUS, AND TRISETUM CANESCENS. Site quality Good.		Lassen NF	5900
53	DRAKESBAD, LASSEN VOLCANIC NATIONAL PARK. EXACT LOCATION NOT KNOWN; MAPPED IN VICINITY OF DRAKESBAD ALONG THE SHASTA/PLUMAS COUNTY LINE.	Plumas	Reading Peak (4012144)	CNDDB, Aug. 2021 (EO 27)	XXXXXXXX	ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS SITE NAME IN UNDATED COLLECTION BY HOWELL CITED IN "A FLORA OF LASSEN VOLCANIC NATIONAL PARK" BY GILLETT EL AL. (1961).		Lassen Volcanic NP	5800

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
54	On the east bank of Chips Creek, southeast of the bridge on Highway 70, on the north side of the North Fork of the Feather River, about 1 1/4 miles southwest of Belden. T25N R06E S23 SE1/4	Plumas	Storrie (3912183)	CCH2, Aug. 2021 (CHSC094981)	8-Oct-2006	Large size plant, on moist bare silt, mud flat. Uncommon, only one plant seen. Yellow Pine Forest.		Plumas NF	2346
55	Big Ravine, Forest Road 25N64X about 0.5 air miles NE of Grizzly Dome	Plumas	Storrie (3912183)	CCH2, Aug. 2021 (JEPS100408)	22-Jul-2004	saturated organic loam under Alnus tenuifolia		Unknown	4700
55	Big Ravine, Forest Road 25N64X about 0.5 air miles NE of Grizzly Dome	Plumas	Storrie (3912183)	Calflora, Aug. 2021 (wb2209-20455)	22-Jul-2004	individuals. saturated organic loam under Alnus tenuifolia		Unknown	4714
55	Big Ravine, Forest Road 25N64X about 0.5 air miles NE of Grizzly Dome	Plumas	Storrie (3912183)	Calflora, Aug. 2021 (wb2209-5002)	22-Jul-2004	individuals. saturated organic loam under Alnus tenuifolia		Unknown	4714
55	Big Ravine, Forest Road 25N64X about 0.5 air miles NE of Grizzly Dome	Plumas	Storrie (3912183)	Calflora, Aug. 2021 (xr168580)	22-Jul-2004	1+ individuals		Unknown	4708

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
56	NORTH FORK BAILEY CREEK JUST EAST OF CONFLUENCE WITH SOUTH FORK, ABOUT 4 MILES WNW OF BLUE LAKE. MAPPED WITHIN THE SE 1/4 OF THE NW 1/4 OF SECTION 34.	Shasta	Lassen Peak (4012145)	CNDDB, Aug. 2021 (EO 29)	6-Sep-1995	ONE PATCH CONSISTING OF 2-3 PLANTS OBSERVED IN 1995. STREAMSIDE RIPARIAN WITHIN MIXED CONFER FOREST; SHADED DEEP SLOPE ON GRAVELLY SANDY LOAM. ASSOCIATED WITH ADENOCAULON BICOLOR, CIRCAEA ALPINA PACIFICA, CLAYTONIA PERFOLIATA, GALIUM APARINE, ABIES CONCOLOR, AND CALOCEDRUS DECURRENS. Site quality fair.		Lassen NF	5280
56	NORTH FORK BAILEY CREEK JUST EAST OF CONFLUENCE WITH SOUTH FORK, ABOUT 4 MILES WNW OF BLUE LAKE. SE bank of the creek. Observer Jessica Moeller. Form SPI09F0198.	Shasta	Lassen Peak (4012145)	CNDDB recent survey form (Green 2021 pers. comm.)	14-Aug-2009	9 stems. 2 small patches (4 feet apart) growing within moist gravel among boulders on the SE bank of the creek. Uncertain how to count this rhizomatous plant. Streamside riparian within mixed conifer forest. With Circaea alpina, Glyceria striata, Cirsium vulgare, Epilobium sp., Mimulus moschatus.	Surrounding land use is recreation. No threats observed.	Lassen NF	5250

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
57	NEAR THE LOWER LAKE IN BLUE LAKE CANYON, LASSEN VOLCANIC NATIONAL PARK. EXACT SITE NOT CERTAIN. MAPPED AT UNNAMED LAKE ABOUT 0.2 MILE NNW OF BLUE LAKE ON THE SOUTH SIDE OF BLUE LAKE CANYON; WITHIN THE SW 1/4 OF THE NE 1/4 OF SECTION 8.	Shasta	Lassen Peak (4012145)	CNDDB, Aug. 2021 (EO 30)	XXXXXXXX	ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS SITE NAME NOTED IN "A FLORA OF LASSEN VOLCANIC NATIONAL PARK" BY GILLETT ET AL. (1961).		Lassen Volcanic NP	6700
58	Along the banks of a tributary of North Fork Battle Creek, about 1.1 air miles ESE of Latour Butte. T32N, R2E, SE 1/4 of SE 1/4 Sec 24. Observer Jessica O'Brien. Form OBR15F0045.	Shasta	Viola (4012256)	CNDDB recent survey form (Green 2021 pers. comm.)	4-Sep-2015	600 Stems. Found along the creek edges, down in the creek on rocks and along the bank edges. Gentle slope. With Mimulus moschatus, M. guttatus, Calocedrus decurrens, Viola glabella, Prunella vulgaris, grasses, and sedges. Population stretches up and down the creek. Site quality Good.	Surrounding land is timberland. Site adjacent to proposed harvest unit but is located in a protected watercourse.	Sierra Pacific Industries	5400

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
59	Beartrap Meadow	Sierra	Calpine (3912064)	NRIS, Mar. 2021 (STOBTNF01CW)	1-Sep-2015	10000 individuals (ramets) in 0.1657 acre. 3 subpopulations. N: 500 plts; E: 500 plts; S: 5000 plts. 2016: combined STOBTNF27,29,+30 b/c within 500 ft & same habitat type		Tahoe NF	
59	Beartrap Meadow. From Hwy 49 west of Yuba Pass, drive north on Haskell Peak Rd. (Forest Road 09) for 3.1 miles. Turn east on Forest Road 0915 and drive 1 mile. Hike south accross meadow.	Sierra	Calpine (3912064)	NRIS, Mar. 2021 (STOBTNF01CW)	26-Jul-2016	10000 individuals (ramets) in 0.2406 acre. 2015: 3 sub-polys: N: 500 plts; E: 500 plts; S: 5000 plts. 2016: Eastern polygon extended further east. 2016: combined STOBTNF27,29,+30 b/c within 500 ft & same habitat type. CWHR habitat type- wet meadow (WTM). Beartrap meadow is dominated by perennial grasses and forbs (dry meadow) in the northern upland edge of meadow. West meadow area is found more in the southern half of meadow with islands of Pinus contorta, dry meadow		Tahoe NF	7000

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
59	Beartrap Meadow	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBTNF01AW)	6-Aug-2015	30000 individuals (ramets) in 0.8089 acre. 3 sub-populations: N: 5,000plts; W: 5,000 plts; S: 20,000 plts. 2016: Combined STOBTNF01, 11 + 12 because within same habitat		Tahoe NF	
59	Beartrap Meadow	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBTNF01BW)	6-Aug-2015	12000 individuals (ramets) in 0.2445 acre. 5 sub-populations: farW: 500plts; nearW: 5000plt; N:2000plts; nearS:4000plts; farS: 500plts. 2016: combined STOBTNF03,04, 08,10 + 31 b/c w/in 500 ft & in smae habitat type		Tahoe NF	
59	Beartrap Meadow. From Hwy 49 west of Yuba Pass, drive north on Haskell Peak Rd. (Forest Road 09) for 3.1 miles. Turn east on Forest Road 0915 and drive 0.8 mile. Hike south across dry island of forest to alder thicket on far side. Population found in ephemeral drainage.	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBTNF01DW)	15-Sep-2016	25 individuals in 0.0651 acre. Population found in alder thicket in ephemeral streambed. CWHR habitat type- wet meadow (WTM). Beartrap meadow is dominated by perennial grasses and forbs (dry meadow) in the northern upland edge of meadow. West meadow area is found more in the southern half of meadow with islands of Pinus contorta, dry meadow		Tahoe NF	7000

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
59	Beartrap Meadow. From Hwy 49 west of Yuba Pass, drive north on Haskell Peak Rd. (Forest Road 09) for 3.1 miles. Turn east on Forest Road 0915 and drive 0.9 mile. Hike south across meadow into alder thickets and forested portion of meadow.	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBT NF01BW)	26-Jul-2016	13000 individuals in 0.9137 acre. 6 subpopulations. 2015 Comments: 5 sub-polys: farW: 500plts; nearW: 5000plt; Population expanded and added to from 2015 polygons. Plant count estimated based on 2015 count. CWHR habitat type- Wet Meadow (WTM) Plants found inbetween wettest parts of the meadow, saturated soil dominated by sedges, and drier meadow. Also found in decadent alder thickets and in understory of other plants.		Tahoe NF	7100
60	Ledford Meadow	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBT NF12W)	24-Aug-2015	20000 individuals (ramets) in 4.9304 acres. alder thicket		Tahoe NF	6800
61	North Fork Chapman Creek	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBT NF10W)	1-Sep-2015	5000 individuals (ramets) in 0.2003 acre. alder thicket in red fir forest		Tahoe NF	6020
61	Chapman Creek Trail	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBT NF09W)	18-Aug-2015	25000 individuals (ramets) in 0.2284 acre. Alder thicket		Tahoe NF	5890

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
62	Lunch Creek	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBT NF03W)	5-Aug-2015	2500 individuals (ramets) in 0.0107 acre. edges of alder thickets and openings		Tahoe NF	6880
63	Road 9	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBT NF05W)	6-Aug-2015	5000 individuals (ramets) in 0.2083 acre, edge of alder thicket		Tahoe NF	6880
63	Road 9-20	Sierra	Haypress Valley (3912055)	NRIS, Mar. 2021 (STOBT NF04BW)	6-Aug-2015	4000 individuals (ramets) in 0.0926 acre. Edge of alder thicket		Tahoe NF	6640
63	Road 9-20	Sierra	Haypress Valley (3912055)	NRIS, Mar. 2021 (STOBT NF04AW)	6-Aug-2015	20000 individuals (genets) in 0.7764 acre. Edge of alder thicket		Tahoe NF	6640
64	Church Meadows	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBT NF07AW)	11-Aug-2015	30000 individuals (ramets) in 1.7233 acres. Edge of alder thicket		Tahoe NF	6900
64	Church Meadows	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBT NF07BW)	11-Aug-2015	2000 individuals (ramets) in 0.0289 acre.		Tahoe NF	6900

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
64	Church Meadows	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBT NF07C W)	11-Aug-2015	500 individuals (ramets) in 0.0214 acre. Edge of alder thicket		Tahoe NF	6900
65	Haskell Creek	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBT NF08C W)	18-Aug-2015	1000 individuals (ramets) in 0.0295 acre. Edge of alder thicket in red fir forest		Tahoe NF	6630
65	Haskell Creek	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBT NF08A W)	18-Aug-2015	10000 individuals (ramets) in 0.4207 acre. Edge of alder thicket in red fir forest		Tahoe NF	6630
65	Haskell Creek	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBT NF08B W)	18-Aug-2015	7000 individuals (ramets) in 0.1269 acre. Alder thicket in red fir forest		Tahoe NF	6780
66	Carvin Creek Road	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBT NF11W)	20-Aug-2015	12000 individuals (ramets) in 0.1039 acre. Alder thicket		Tahoe NF	5700

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
67	Dart's Digs. From YRRD take Hwy 49 north to intersection with Gold Lake Highway past Sierra City. Take Gold Lake Highway north for 3.5 miles and then go east on Haskell Peak Rd (09 Rd). Go 1 mile down 09 Rd to 09-3 Rd and go south for 0.5 miles to intersection with 09	Sierra	Clio (3912065)	NRIS, Mar. 2021 (STOBTNF16W)	21-Aug-2017	100 individuals in 0.0152 acre. Stems estimated in count. Plants growing in tangle under other vegetation. Identified by the presence of ciliate hairs at base of leaf. stream edge in mixed conifer forest dominated by ABCO, CADE27, and PSME. Evidence of mining in stream bed. Mine shaft four feet below occurrence. Sandy shore.	EO within 4 feet of mine shaft.	Tahoe NF	5750
68	Highway 49	Sierra	Haypress Valley (3912055)	NRIS, Mar. 2021 (STOBTNF02BW)	20-Aug-2015	12000 individuals (ramets) in 2.6145 acres. Alder thicket		Tahoe NF	6200
68	Highway 49	Sierra	Haypress Valley (3912055)	NRIS, Mar. 2021 (STOBTNF02AW)	20-Aug-2015	7500 individuals (ramets) in 0.192 acre. Alder thicket		Tahoe NF	6180
69	Highway 49 West	Sierra	Haypress Valley (3912055)	NRIS, Mar. 2021 (STOBTNF06AW)	1-Sep-2015	4000 individuals (ramets) in 0.7875. Alder thicket		Tahoe NF	6050

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
69	Highway 49 West	Sierra	Haypress Valley (3912055)	NRIS, Mar. 2021 (STOBTNF06CW)	20-Aug-2015	30000 individuals (ramets) in 0.6872 acre. Alder thicket		Tahoe NF	6130
69	Highway 49 West	Sierra	Haypress Valley (3912055)	NRIS, Mar. 2021 (STOBTNF06BW)	20-Aug-2015	20000 individuals (ramets) in 0.1351 acre. Alder thicket		Tahoe NF	
70	NORTH SIDE OF MOUNT FILLMORE, EAST OF GIBSONVILLE. ABOUT 1 MILE SOUTHWEST OF THE DIRT ROAD FROM GIBSONVILLE TO JOHNSVILLE. MAPPED WITHIN THE W 1/2 OF THE SW 1/4 OF SECTION 22.	Sierra	Mt. Fillmore (3912067)	CNDDB, Aug. 2021 (EO 2)	10-Sep-1993	MANY PLANTS OBSERVED IN 1993. STREAMSIDE IN DEEP SHADE WITHIN RED FIR FOREST. Site quality Excellent.		Plumas NF	7000

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
70	Along the edge of a small stream, at the end of a poor dirt road where there is a camp and water ditch, on the north side of Mount Fillmore, about 1 mile south-west of the dirt road from Gibsonville to Johnsville. T22N R10E S27 SW1/4	Sierra	Mt. Fillmore (3912067)	CCH2, Aug. 2021 (CHSC061788)	10-Sep-1993	Normal stems. Uncommon. Red Fir Forest. On damp rocky soil along the edge of a small stream, in deep shade.		Plumas NF	7000
71	On the east side of a small stream, south of the Old Henness Pass Road, just west of French Meadow, about 2 miles west of Webber Lake. T19N R13E S23 NE1/4	Sierra	Sattley (3912054)	CCH2, Aug. 2021 (CHSC066596)	25-Jul-1996	Red Fir Forest. Normal size plants, on dry dark soil, on mounds at the base of pine trees, on the east side of a small stream. Uncommon. Flowers white.		Unknown	6400
71	ca. 2 mi. w. Webber lake (e. side of small stream, s. of Old Henness Pass Rd., just w. of French Meadow)	Sierra	Webber Peak (3912044)	CCH2, Aug. 2021 (JEPS88146)	25-Jul-1996	Flowers white. on dark dry soil; on mounds at base of pine trees; Red Fir Forest		Unknown	6400

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
71	On the east side of a small stream that flows into Pass Creek, about 100 yards north of Pass Creek, about 300 yards south of Hennas Pass Road, west of French Meadow, east of Forest Road 70, about 3 miles (air) northwest of Webber Lake. T19N R06E S23 NE1/4	Sierra	Sattley (3912054)	CCH2, Aug. 2021 (CHSC1 08101)	23-Sep-2011	Yellow Pine Forest. Small size stems, from a large mat, on damp dark humus, on the east side of a small stream. Uncommon.		Unknown	6615
71	On the east side of a small stream that flows into Pass Creek, about 100 yards north of Pass Creek, about 300 yards south of Hennas Pass Road, west of French Meadow, east of Forest Road 70, about 3 miles (air) northwest of Webber Lake	Sierra	Sattley (3912054)	CCH2, Aug. 2021 (JEPS11 8404)	23-Sep-2011	Yellow Pine Forest. Small size stems, from a large mat, on damp dark humus, on the east side of a small stream. Uncommon.		Unknown	6615

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
72	South side of a large meadow with bogs, along the poor trail (cow trail?), about 3/8 mile north of where the dirt road crosses Colby Creek, about 2 miles (air) southeast of Colby Mountain, about 5 miles (air) northeast of Butte Meadows. T26N R04E S11 NE1/	Tehama	Humboldt Peak (4012124)	CCH2, Aug. 2021 (CHSC0 94353)	25-Jul-2006	Yellow Pine Forest. Normal size plants and stems, perennial, on damp black humus, south side of a large meadow with bogs. Uncommon.		Lassen NF	5133
72	ca. 3/8 mi N of where the dirt rd crosses Colby Crk, ca. 2 mi (air) SE of Colby Mtn, ca. 5 mi (air) NE of Butte Meadows	Tehama	Humboldt Peak (4012124)	CCH2, Aug. 2021 (SBBG1 19950)	25-Jul-2006	uncommon. Vegetative. damp black humus; S side of large meadow w/ bogs; yellow pine forest		Lassen NF	5133
72	About 3/8 mile N of where the dirt road crosses Colby Creek, about 2 miles (air) SE of Colby Mountain, about 5 miles (air) NE of Butte Meadows.	Tehama	Humboldt Peak (4012124)	CCH2, Aug. 2021 (RSA accessio n #: 718735)	25-Jul-2006	Uncommon. Normal size plants and stems, perennial, on damp black humus. Yellow Pine Forest. South side of a large meadow with bogs, along the poor trail (cow trail?).		Lassen NF	

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
72	South side of a large meadow with bogs, along the poor trail (cow trail?), about 3/8 mile north of where the dirt road crosses Colby Creek, about 2 miles (air) southeast of Colby Mountain, about 5 miles (air) northeast of Butte Meadows	Tehama	Humboldt Peak (4012124)	CCH2, Aug. 2021 (JEPS110314)	25-Jul-2006	Yellow Pine Forest. Normal size plants and stems, perennial, on damp black humus, south side of a large meadow with bogs. Uncommon.		Lassen NF	5133
72	Along the poor trail (cow trail?), about 3/8 mile north of where the dirt road crosses Colby Creek, about 2 miles (air) southeast of Colby Mountain, about 5 miles (air) northeast of Butte Meadows.	Tehama	Humboldt Peak (4012124)	CCH2, Aug. 2021 (CDA-0024153)	25-Jul-2006	Normal size plants and stems, perennial. Uncommon. Sterile. On damp black humus, south side of a large meadow with bogs. Yellow Pine Forest.		Lassen NF	5133

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
73	BROKEOFF MOUNTAIN TRAIL, LASSEN VOLCANIC NATIONAL PARK. MAPPED ALONG TRAIL AS BEST GUESS; NEEDS FIELDWORK.	Tehama	Lassen Peak (4012145)	CNDDB, Aug. 2021 (EO 31)	19-Aug-1960	ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS SITE NAME IN UNDATED COLLECTION BY HOWELL CITED IN "A FLORA OF LASSEN VOLCANIC NATIONAL PARK" BY GILLETT ET AL. (1961).		Lassen Volcanic NP	7800
73	Tehama County: Lassen Volcanic National Park, Brokeoff Mountain Trail.	Tehama	Lassen Peak (4012145)	CCH2, Aug. 2021 (DAV56 118)	19-Aug-1960			Lassen Volcanic NP	7590
74	Forest Route 35 at a branch of the South Fork of Beegum Creek 0.4 mi west of Rat Trap Gap, north side of the Yolla Bolly-Middle Eel Wilderness. At roadside. T27N R10W S12	Tehama	North Yolla Bolly (4012228)	CCH2, Aug. 2021 (CHSC0 68945)	7-Jul-1997	Mixed coniferous forest. At a branch of [creek]. Locally abundant in moist, gravelly soil at roadside.		Shasta-Trinity NF	5600
74	Forest Route 35 at branch of creek ca. 0.4 mi w Rat Trap Gap (n side of Wilderness); Yolla Bolly-Middle Eel Wilderness, South Fork of Beegum Creek	Tehama	North Yolla Bolly (4012228)	CCH2, Aug. 2021 (JEPS94 586)	7-Jul-1997	in moist gravelly soil at roadside, mixed coniferous forest. Flowering/fruiting.		Shasta-Trinity NF	5600

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
75	BEEHIVE, NORTH OF HETCH HETCHY, YOSEMITE NATIONAL PARK.	Tuolumne	Lake Eleanor (3711987)	CNDDB, Aug. 2021 (EO 1)	22-Jul-1938	ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1938 COLLECTION BY MASON.		Yosemite NP	6550
75	n of Hetch Hetchy (Beehive); Sierra Nevada, Yosemite National Park, Beehive	Tuolumne	Lake Eleanor (3711987)	CCH2, Aug. 2021 (UC1076562)	22-Jul-1938	Flowering/Fruiting		Yosemite NP	6550
76	Tuolumne County: Stanislaus National Forest. Site is located 82 meters (as a crow flies) south of road 06N17 and 27 meters (as a crow flies) southwest of the edge of a pond. Plants are found within about 3 sqaure meters of the point.	Tuolumne	Tamarack (3812041)	CCH2, Aug. 2021 (DAV193387)	31-Aug-2010	Moist gentle slopes of intermittent perennial drainage. Site is in a low spot but the overall aspect is northwest with morning sun. Associates: Abies magnifica forest with Populus tremuloides, Deschampsia elongata, Viola macloskeyi, Mimulus tilingii, Circaea.		Stanislaus NF	6834
77	Carr Lake Road, 1 mile east of Bear Valley-Bowman Road, Sierra Nevada	Nevada	Graniteville (3912046)	CCH2, Aug. 2021 (CAS BOT-BC 181459)	30 Aug. 1962	Leaves ciliate.		Unknown	6400

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
78	Fall Creek about 5 miles north of Yuba Gap and just east of Lake Bowman Road	Nevada	Graniteville (3912046)	CCH2, Aug. 2021 (CAS BOT-BC 181457)	14-Jul-1965	Damp soil along stream below sphagnum bog, shady.		Tahoe NF	5600
79	Sand bar in Upper Independence Creek, west of Independence Lake, Independence Lake Watershed	Nevada	Independence Lake (3912043)	CCH2, Aug. 2021 (CAS BOT-BC 181458)	26-Jul-1977	Sand bar in creek.		Tahoe NF	7100
80	West side of Donner Pass near Norden [Norden is on east side of Donner Pass and so this location doesn't make sense]	Nevada	Norden (3912033)	CCH2, Aug. 2021 (CAS BOT-BC 181456)	14-Jul-1943	Independence Lake (3912043)		Unknown	7000
81	About rocks near the Yuba River below Cisco.	Placer	Cisco Grove (3912035)	CCH2, Aug. 2021 (CAS BOT-BC 181460)	25-Jul-1919	Moist soil about rocks near Yuba River, the trees Pinus Jeffreyi, incense cedar and white fir. Ceanothus cordulatus and Quercus vaccinifolia are the common shrubs, the rocks granite.		Unknown	5500
81	About rocks near the Yuba River below Cisco.	Placer	Cisco Grove (3912035)	CCH2, Aug. 2021 (CAS BOT-BC 181461)	25-Jul-1919	Moist soil about rocks near Yuba River, the trees Pinus Jeffreyi, incense cedar and white fir. Ceanothus cordulatus and Quercus vaccinifolia are the common shrubs, the rocks granite.		Unknown	5500

Duplicate records from the same site are given the same record number and are included in red.									
Rec. #	**Locality**	**County**	**Quad**	**Ref. (Source)**	**Date Last Obs'd**	**Population Info**	**Threats**	**Land Mgr.**	**Elev. (ft.)**
82	Near head of north fork of Salmon River at Farley's [Finlay's] Upper Camp	Siskiyou	Tanners Peak (4112331)	CCH2, Aug. 2021 (CAS BOT-BC 181463)	18 Aug. 1928	Near head of river.		Klamath NF	

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.>