Plant Species Evaluation Form

Smilax jamesii G.A. Wallace

ENGLISH PEAK GREENBRIER

Family: Smilacaceae (CNPS 2018)

PLANTS Symbol: SMJA (USDA 2018)

Calif. Endemic: Yes (CNPS 2018)

Synonyms/Other Names: Described in 1979; no other names or synonyms have been applied to this taxon (Tropicos 2018; Wallace 1979).

Identification Issues: No identification issues are known for *Smilax jamesii*. It is one of two species within the genus *Smilax* that occurs in western North America. *Smilax jamesii* is smooth, shiny, and unarmed, whereas *S. californica* is not shiny and is generally armed with needle like prickles (McNeal 2018).

Taxonomy:

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Species In Genus: +- 350 species: especially tropics, also temperate North America, eastern Asia. Etymology: (Greek: origin uncertain).

Genus Description – Habit: Perennial herb; caudex generally large, tuber-like. Stem: climbing or trailing, woody below or not, often prickly +- throughout. Leaf: alternate, deciduous or persistent; base rounded to sagittate; petiole tendrils generally 2. Inflorescence: umbels or clusters, axillary. Flower: perianth parts white to +- green or +- yellow; ovary chambers generally 3, stigmas spreading. Fruit: black, purple, blue, or red (white). Seed: 1--6, black.

Species Description – Habit: Vine; rhizome long, +- zigzag. Stem: 2--3 m, herbaceous; central pith present. Leaf: 5--8 cm, triangular to +- ovate, acute or rigid-tipped, adaxially dark green, abaxially glaucous, minutely papillate, base truncate to +- cordate. Inflorescence: staminate generally < 20-flowered; pistillate generally < 40-flowered; peduncles 5--13.5 cm, stout, +- erect. Flower: perianth parts +- 1.5 mm wide, spreading or reflexed, elliptic to oblong. Fruit: 6--8 mm, dark blue (drying dull maroon). Seed: 6. eFlora Treatment Author: Dale W. McNeal.

Status:

Note: Federally recognized Endangered, Threatened, Proposed, or Candidate species under the Endangered Species Act are omitted as they do not meet the definition of a Species of Conservation Concern (FSH 1909.12 § 12.52).

State Listing	G-rank	S-rank	CRPR	R5 FSS	NFP SM	CA BLM
CA: Not listed NV: Not listed OR: Not listed	G3G4	CA: S3S4 NV: Not listed OR: Not listed	4.2	Not listed	Not listed	Sensitive

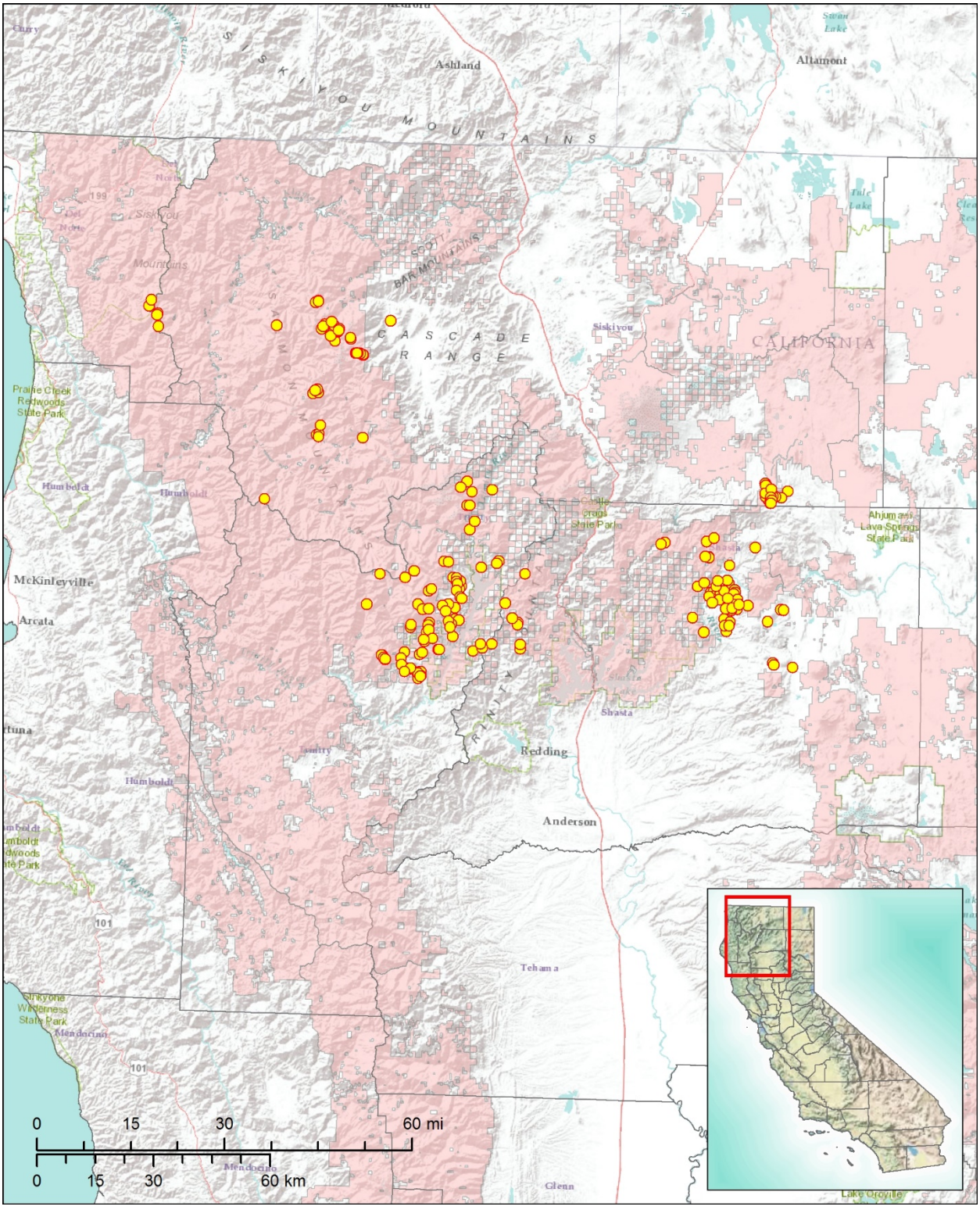
SWAP:	NNHP:	NNPS:	ORBIC:	OCS:	IUCN:
Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Expanded abbreviations and citations: State Listing=California Endangered Species Act Listing (CDFW 2018b), Nevada Division of Forestry Fully Protected Plant Species (NAC 527) (NDF 2012), Oregon Department of Agriculture Listed Plants (ODA 2014); G-rank=Global Conservation Status (CDFW 2018a; NatureServe 2018); S-rank=Subnational (state or province-level) Conservation Status (CDFW 2018a; NatureServe 2018; NNHP 2017; ORBIC 2016); CRPR=California Rare Plant Rank

(CNPS 2018); R5 FSS=USDA Forest Service Region 5 Regional Forester Sensitive Plant Species List (USDA 2013); NFP SM=Forest Service and Bureau of Land Management Northwest Forest Plan Survey and Manage Species (USDA 2001); CA BLM=California Bureau of Land Management Designated Sensitive Species (BLM 2010); SWAP=California State Wildlife Action Plan Status (CDFW 2015); NNHP=Nevada Natural Heritage Program Status (NNHP 2017); NNPS=Nevada Native Plant Society Status (NNHP 2017); ORBIC=Oregon Biological Information Center Status (ORBIC 2016); OCS=Oregon Conservation Strategy Species (ODFW 2016); IUCN=International Union for Conservation of Nature Red List Status (IUCN 2017).

Smilax jamesii recently underwent a status review resulting in a rank change from California Rare Plant Rank (CRPR) 1B.3 to 4.2 based on the large number of occurrences in Good (B) or Excellent (A) condition, and the absence of any negative trends indicating a decline in this species persistence (Green et al. 2016).

Distribution: Western United States, with a distribution entirely within northern California. Occurrences are found in the Klamath Ranges (KR) and the Cascade Ranges (CaR) bioregions of Del Norte, Shasta, Siskiyou, and Trinity counties (McNeal 2018). Just under half (75/166; 45%) of all known occurrences are found on NFS lands within Klamath NF (25/75; ~33%), Shasta-Trinity NF (46/75; ~61%), and Six Rivers NF (4/75; ~5%) (CNDDB 2017; NRIS 2017).



Sources: *Distribution*: CNDDB 2017, NRIS 2017. *Layers*: USDA Forest Service, Pacific Southwest National Forests: CPAD 2016. California counties: CDF 2009. *Basemaps*: California inset map: © 2013 National Geographic Society, i-cubed (Esri 2017a). Main map: Esri, DeLorme, USGS, NPS (Esri 2012) and Esri, USGS, NOAA (Esri 2017b).

Locations within California:

Record numbers indicate sites that contain an individual, population, or groups of populations located within ¼ mile of each other, per the California Natural Diversity Database (CNDDB 2017) definition of Element Occurrences (EOs) in California. Official EO numbers for plants in California are determined solely by the CNDDB and are included within the Reference (Source) column for CNDDB data. Duplicate records from the same site are given the same record number and included in red. The Population Info column includes total number of individuals and total number and size of populations/sub-populations when provided. Elevations provided in meters from source have been converted to feet. If not provided in original source, Land Manager information was obtained using the California Protected Areas Database (CPAD 2016) and Quad information was obtained using 24K Quads, SDE Feature Class (CDFG 2013). All other information is directly from the Reference (Source) unless additional citation is given.

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
1	FAR NE SLOPE OF BROWNS MOUNTAIN, ALONG TRIBUTARY OF RUSH CREEK, NW OF LEWISTON LAKE, TRINITY MOUNTAINS.	Trinity	Trinity Dam (4012277)	CNDDB, May 2017 (EO 101)	9-Jun-2006	MORE THAN ONE PLANT OBSERVED IN 2006.	LOGGING PRACTICES.	PVT-Sierra Pacific	2600
2	NEAR RUSH CREEK ROAD, JUST SOUTH OF INTERSECTION WITH USFS ROAD 34N24, SW OF CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Trinity Dam (4012277)	CNDDB, May 2017 (EO 100)	2-Oct-2003	34 PLANTS OBSERVED IN NORTHERN POLYGON, 16 IN SW POLYGON, AND 3 SEEN IN SE POLYGON IN 2003. USFS POPULATION #SMJA05140017C & D.	THREATENED BY FUEL REDUCTION PROJECTS.	Shasta Trinity NF	2300
2	Shasta-Trinity NF	Trinity	Trinity Dam (4012277)	NRIS, Apr 2017 (SMJA05140017c)	2-Oct-2003	individuals		Shasta Trinity NF	
2	Shasta-Trinity NF	Trinity	Trinity Dam (4012277)	NRIS, Apr 2017 (SMJA05140017d)	2-Oct-2003	individuals		Shasta Trinity NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
3	NEAR RUSH CREEK ROAD BETWEEN USFS ROAD 34N33Y AND ROAD 34N24, SW OF CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Trinity Dam (4012277)	CNDDB, May 2017 (EO 99)	6-Oct-2003	250 PLANTS OBSERVED IN NW POLYGON AND 13 SEEN IN SE POLYGON IN 2003. USFS POPULATION #SMJA05140017A & B.	THREATENED BY FUEL REDUCTION PROJECTS.	Shasta Trinity NF	2400
3	Shasta-Trinity NF	Trinity	Trinity Dam (4012277)	NRIS, Apr 2017 (SMJA05140017a)	6-Oct-2003	individuals		Shasta Trinity NF	
3	Shasta-Trinity NF	Trinity	Trinity Dam (4012277)	NRIS, Apr 2017 (SMJA05140017b)	1-Oct-2003	individuals		Shasta Trinity NF	
4	ALONG FINLEY GULCH, WEST OF LITTLE BROWNS CREEK AND HIGHWAY 3, NE OF WEAVERVILLE.	Trinity	Rush Creek Lakes (4012278)	CNDDB, May 2017 (EO 106)	11-Sep-2003	43 PLANTS OBSERVED IN 2003. USFS POPULATION #SMJA05140015.	THREATENED BY LOGGING AND THINNING PROJECTS.	Shasta Trinity NF	2750
4	Shasta-Trinity NF	Trinity	Rush Creek Lakes (4012278)	NRIS, Apr 2017 (SMJA05140015)	11-Sep-2003	individuals		Shasta Trinity NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
5	ABOUT 0.2 AIR MILE NNE OF CONFLUENCE OF CHINA GULCH AND RUSH CREEK, JUST UPSLOPE ON THE NORTHWEST SIDE OF CHINA GULCH.	Trinity	Trinity Dam (4012277)	CNDDB, May 2017 (EO 58)	8-Jun-2006	25 PLANTS OBSERVED IN 2006. PRIVATE PROPERTY HOME OWNERS RUNNING PIPES INTO CREEK IN ADJACENT AREA, MAY ACCESS SITE THROUGH MAINTENANCE OR MOVEMENT OF THOSE PIPES.		Shasta Trinity NF	2626
6	ALONG LITTLE BROWNS CREEK, 1.6 AIR MILES NORTHEAST OF EAST WEAVER CAMPGROUND.	Trinity	Rush Creek Lakes (4012278)	CNDDB, May 2017 (EO 30)	23-Aug-2001	5 INDIVIDUALS OBSERVED IN 2001.	LOGGING AND COMPETITION FROM RUBIS DISCOLOR.	Shasta Trinity NF	4260
7	NEAR THE INTERSECTION OF CHINA GULCH ROAD AND RUSH CREEK ROAD, NEAR RUSH CREEK, SOUTH OF TRINITY ALPS.	Trinity	Rush Creek Lakes (4012278)	CNDDB, May 2017 (EO 14)	20-Oct-2003	3 PLANTS OBSERVED IN THE SOUTHERN POLYGON IN 2001, 3 IN 2002, AND 8 IN 2003. 5 PLANTS OBSERVED IN NORTHERN POLYGON IN 2003. USFS POPULATION #SMJA05140013A & B.	POSSIBLY THREATENED BY FUEL REDUCTION AND TIMBER HARVESTING. PLANTS IN SOUTHERN POLYGON HAD BEEN TRAMPLED IN 2003.	Shasta Trinity NF	2500

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
7	Co Rd 230; Population located on both the north and south sides of a small spring. Spring is located West of China Gulch Road (Co Rd 230), approx. 150 feet south of its intersection with Rush Creek Rd.	Trinity	Rush Creek Lakes (4012278)	NRIS, Apr 2017 (0514_SMJA_56_0013A)	7-Oct-2003	8 individuals	Population is in a roadside fuel reduction project. There was obvious wood cutting at historic population site. Visible trampling also. The spring has an overall increase of disturbance from people and wildlife.	Shasta Trinity NF	
7	Shasta-Trinity NF	Trinity	Rush Creek Lakes (4012278)	NRIS, Apr 2017 (SMJA05140013b)	20-Oct-2003	individuals		Shasta Trinity NF	
8	NEAR THE NW END OF USFS ROAD 34N96B, ALONG LITTLE BROWNS CREEK, NNE OF WEAVERVILLE.	Trinity	Rush Creek Lakes (4012278)	CNDDB, May 2017 (EO 105)	8-Sep-2003	10 PLANTS OBSERVED IN 2003. USFS POPULATION #SMJA05140016.	AREA HAS BEEN DISTURBED BY LOGGING.	Shasta Trinity NF	3100
8	Shasta-Trinity NF	Trinity	Rush Creek Lakes (4012278)	NRIS, Apr 2017 (SMJA05140016)	8-Sep-2003	individuals		Shasta Trinity NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
9	JUST NW OF BEAR CREEK ROAD, BETWEEN DEER GULCH AND BEAR GULCH, WEST OF RUSH CREEK, ABOUT 5 MILES NORTH OF WEAVERVILLE.	Trinity	Rush Creek Lakes (4012278)	CNDDB, May 2017 (EO 104)	27-May-2009	66 STALKS OBSERVED IN 2009.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	3300
10	ALONG BURNEY CREEK, WEST OF DRY LAKE ALONG TAMARACK ROAD, ABOUT 5 AIR MILES SSW OF BURNEY.	Shasta	Burney Mtn. West (4012176)	CNDDB, May 2017 (EO 87)	8-Jun-2012	OVER 1000 PLANTS OBSERVED IN 2012.	THREATENED BY GRAZING AND ROAD MAINTENANCE.	PVT-Fruit Growers Supply Co	4000
11	ABOUT 2.2 MILES SSE OF MONUMENT PEAK ALONG TRIBUTARY TO EAST WEAVER CREEK, SHASTA-TRINITY NATIONAL FOREST.	Trinity	Rush Creek Lakes (4012278)	CNDDB, May 2017 (EO 1)	10-Oct-1996	1 PLANT OBSERVED IN 1994 IN THE SOUTHERN POLYGON. APPROXIMATELY 50 PLANTS OBSERVED IN 1996 BETWEEN BOTH POLYGONS. USFS POPULATION #14-2A.	NO THREATS NOTED IN 1996.	Shasta Trinity NF	4600

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
12	ABOUT 1.7 MILES SSE OF MONUMENT PEAK ALONG TRIBUTARY TO EAST WEAVER CREEK, SHASTA-TRINITY NATIONAL FOREST.	Trinity	Rush Creek Lakes (4012278)	CNDDB, May 2017 (EO 2)	8-Oct-1996	1 PLANT OBSERVED IN 1994 AND 18 FOUND IN 1996. USFS POPULATION #14-2B.	NO THREATS WERE EVIDENT IN 1996.	Shasta Trinity NF	4790
12	Shasta-Trinity NF	Trinity	Rush Creek Lakes (4012278)	NRIS, Apr 2017 (SMJA051 40002b)	10-Oct-1996	individuals		Shasta Trinity NF	
12	Shasta-Trinity NF	Trinity	Rush Creek Lakes (4012278)	NRIS, Apr 2017 (SMJA051 40002a)	10-Oct-1996	individuals		Shasta Trinity NF	
13	BRANCH OF UPPER HATCHET CREEK, APPROXIMATELY 0.9 AIR MILE SOUTHWEST OF TERRY LAKE.	Shasta	Hatchet Mtn. Pass (4012177)	CNDDB, May 2017 (EO 56)	18-Jul-2005	MANY PLANTS OBSERVED IN 2005.		PVT-Roseburg Resources Co	4515
14	1.2 AIR MILES SSE OF MONUMENT PEAK ALONG TRIBUTARY TO EAST WEAVER CREEK, SHASTA-TRINITY NATIONAL FOREST.	Trinity	Rush Creek Lakes (4012278)	CNDDB, May 2017 (EO 103)	12-Oct-2003	10 PLANTS OBSERVED IN 2003. USFS POPULATION #SMJA05140002C.	SOME PLANTS WERE DIRECTLY ADJACENT TO TRAIL AND SHOWED SIGNS OF FOOT TRAMPLING IN 2003.	Shasta Trinity NF	5400

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
14	Shasta-Trinity NF	Trinity	Rush Creek Lakes (4012278)	NRIS, Apr 2017 (SMJA051 40002c)	12-Oct-2003	individuals		Shasta Trinity NF	
15	UPPER HATCHET CREEK, APPROXIMATELY 0.8 AIR MILE WSW OF TERRY LAKE.	Shasta	Hatchet Mtn. Pass (4012177)	CNDDB, May 2017 (EO 55)	18-Jul-2005	APPROXIMATELY 55 PLANTS OBSERVED IN 2005.		PVT-Roseburg Resources Co	4472
16	HAYLOCK GULCH, WEST OF BUCKEYE ARM OF TRINITY LAKE AND ABOUT 1.15 AIR MILES SSW OF TANNERY GULCH CAMPGROUND.	Trinity	Trinity Dam (4012277)	CNDDB, May 2017 (EO 161)	14-May-2015	2 PLANTS OBSERVED IN 2015.	SURROUNDING LAND USE IS TIMBER HARVEST. ADJACENT TO PROPOSED HARVEST UNIT BUT SITE WILL BE PROTECTED WITHIN WLPZ.	PVT-Sierra Pacific	2965
17	ALONG SMITH GULCH, ABOUT 0.8 AIR MILE SOUTH OF TANNERY GULCH CAMPGROUND.	Trinity	Trinity Dam (4012277)	CNDDB, May 2017 (EO 162)	14-May-2015	73 STALKS OBSERVED IN WEST POLYGON AND 11 STALKS IN EAST POLYGON IN 2015.	WITHIN TIMBER HARVEST UNIT PROPOSED FOR HARVEST. MOST OF POPULATION WILL BE PROTECTED BY WLPZ.	PVT-Sierra Pacific, USFS	3100

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
18	0.5 MILE NORTH OF RUSH CREEK CAMPGROUND, WEST OF BUCKEYE RIDGE, WEST OF CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Rush Creek Lakes (4012278)	CNDDB, May 2017 (EO 102)	21-Aug-2003	60 PLANTS OBSERVED IN 2003.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT	3000
19	1.3 AIR MILES WNW OF SUMMIT OF TRINITY MOUNTAIN, ON SLOPE ABOVE BEAR GULCH, EAST OF CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Papoose Creek (4012276)	CNDDB, May 2017 (EO 94)	25-Jul-2011	128 STALKS OBSERVED IN 2011.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	3550
20	ALONG USFS ROAD 34N36, 1 ROAD MILE NORTH OF ROAD 34N80, SW OF CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Trinity Dam (4012277)	CNDDB, May 2017 (EO 98)	1-Aug-2005	APPROXIMATELY 100 PLANTS OBSERVED IN 2005. USFS POPULATION #SMJA05140021.	SITE WAS PROPOSED FOR TIMBER HARVEST AS OF 2005.	Shasta Trinity NF	2550

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
20	; ~10 meters south of road 34N36 on eastern most end of Pettihohn unit. Road 34N36 is northern boundary of flagging; 10m west of junction for units 17, 18, and 19 on road 34N56.	Trinity	Trinity Dam (4012277)	NRIS, Apr 2017 (0514_SMJA_56_0021)	1-Aug-2005	100 individuals	Population is in proposed Pettijohn Timber sale.	Shasta Trinity NF	
21	SE OF CRYSTAL SPRING, ABOUT 0.85 AND 1.0 AIR MILE NORTH OF TRINITY MOUNTAIN.	Trinity	Papoose Creek (4012276)	CNDDB, May 2017 (EO 159)	1-Jun-2015	109 PLANTS OBSERVED IN NORTH POLYGON AND 300 IN SOUTH POLYGON IN 2015.	WITHIN PROPOSED TIMBER HARVEST UNIT. SITE WILL BE PROTECTED WITHIN WLPZ BUFFER.	PVT-Sierra Pacific, USFS	3500
22	0.5 AIR MILE NORTH OF WILD COW MOUNTAIN AND 0.1 MILE SOUTH OF SOUTHERN FORK OF BRUSH CREEK, SW OF SCHELL MOUNTAIN.	Shasta	Schell Mtn. (4012275)	CNDDB, May 2017 (EO 150)	6-Jul-2012	16 PLANTS OBSERVED IN 2012.	TIMBER HARVEST, THOUGH PLANTS WILL BE PROTECTED IN HABITAT RETENTION AREA.	PVT-Sierra Pacific	3550

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
23	ABOUT 1.5 AIR MILES NNW OF TRINITY MOUNTAIN AND 0.25 AIR MILE NNW OF CRYSTAL SPRING.	Trinity	Papoose Creek (4012276)	CNDDB, May 2017 (EO 160)	1-Jun-2015	45 PLANTS OBSERVED IN 2015.	NEAR EDGE OF PROPOSED TIMBER HARVEST UNIT. FORESTER HAS DELINEATED EQUIPMENT EXCLUSION ZONE AROUND PLANTS AS PROTECTION.	PVT-Sierra Pacific	3530
24	ABOUT 0.4 AIR MILE NORTH OF HONEYMOON RIDGE AND 2.3 AIR MILES NE OF TRINITY MOUNTAIN.	Shasta	Papoose Creek (4012276)	CNDDB, May 2017 (EO 152)	28-Jun-2013	3 PLANTS SEEN IN 2013.	TIMBER HARVEST, BUT PLANTS WILL BE PROTECTED WITHIN WATERCOURSE PROTECTION ZONE.	PVT-Sierra Pacific	3885
25	ABOUT 1 AIR MILE WSW OF SCHELL MTN AND 1.25 MILES NORTH OF WILD COW MOUNTAIN.	Shasta	Schell Mtn. (4012275)	CNDDB, May 2017 (EO 151)	6-Jul-2012	2 PLANTS SEEN IN 2012.	TIMBER HARVEST, THOUGH PLANTS ARE WITHIN THE WATERCOURSE PROTECTION ZONE.	PVT-Sierra Pacific	3170
26	ALONG USFS ROAD 35N71YA, 0.5 ROAD MILE WEST OF ROAD 35N71Y, NORTH OF CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Trinity Dam (4012277)	CNDDB, May 2017 (EO 97)	27-May-2003	2 PLANTS OBSERVED IN 2003. USFS POPULATION #SMJA05140018B.	NO THREATS NOTED IN 2003.	Shasta Trinity NF	2800

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
26	Shasta-Trinity NF	Trinity	Trinity Dam (4012277)	NRIS, Apr 2017 (SMJA05140018b)	27-May-2003	individuals		Shasta Trinity NF	
27	ALONG USFS ROAD 35N71Y, 0.7 ROAD MILE WEST OF ROAD 35N71YA, NORTH OF CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Trinity Dam (4012277)	CNDDB, May 2017 (EO 96)	27-May-2003	7 PLANTS OBSERVED IN 2003. USFS POPULATION #SMJA05140018A.	SITE IS ON EDGE OF A CLEAR CUT AND PLANTATION. POSSIBLY THREATENED BY THINNING OPERATIONS.	Shasta Trinity NF	2900
27	Shasta-Trinity NF	Trinity	Trinity Dam (4012277)	NRIS, Apr 2017 (SMJA05140018a)	27-May-2003	individuals		Shasta Trinity NF	
28	CLARK SPRING CAMPGROUND ON CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Trinity Dam (4012277)	CNDDB, May 2017 (EO 95)	28-Jun-2006	30 PLANTS OBSERVED IN 2002 AND 100 OBSERVED IN 2006. USFS POPULATION #SMJA0514014.	THREATENED BY TRAMPLING AND DISTUBANCE FROM CAMPERS.	Shasta Trinity NF	2500
28	Clark Springs Campground;	Trinity	Trinity Dam (4012277)	NRIS, Apr 2017 (0514_SMJA_56_0014)	28-Jun-2006	individuals		Shasta Trinity NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
29	WEST SLOPE OF BOWERMAN RIDGE, 1.1 AIR MILE SE OF HAYWARD FLAT CAMPGROUND.	Trinity	Trinity Dam (4012277)	CNDDB, May 2017 (EO 163)	18-May-2015	4 PLANTS OBSERVED IN 2015.	OUTSIDE OF A PROPOSED TIMBER HARVEST UNIT. WOULD BE PROTECTED WITHIN WLPZ.	PVT-Sierra Pacific	2840
30	DRAINAGE BETWEEN BUCK GULCH AND BUCK RIDGE, SOUTH OF USFS ROAD 35N31X, BETWEEN GRANITE PEAK AND CLAIR ENGLE LAKE.	Trinity	Trinity Dam (4012277)	CNDDB, May 2017 (EO 57)	24-Oct-2013	15 PLANTS OBSERVED IN 2005 IN THE TWO NORTHERN POLYGONS COMBINED. NORTH POLYGON: 68 PLANTS IN 2013. MIDDLE POLYGON: 3 IN 2013. SOUTHERN POLYGON: 19 IN 2009, 101 IN 2013.	SURROUNDING LAND IS USED AS COMMERCIAL TIMBERLAND. NORTHERN SITE WAS CLEAR CUT AND REPLANTED CIRCA 1999.	PVT-Sierra Pacific	3100
31	SW OF MULE CREEK, NEAR INTERSECTION OF USFS ROAD 35N32Y AND ROAD 35N31X, BETWEEN GRANITE PEAK AND CLAIR ENGLE LAKE.	Trinity	Covington Mill (4012287)	CNDDB, May 2017 (EO 71)	9-Sep-2015	15 PLANTS SEEN IN 2005 IN THE 3 SE POLYGONS COMBINED. 12 PLANTS FOUND IN THE SECOND FROM W-MOST POLY IN 2009. 377 STALKS SEEN IN 2013 IN 4 SE POLYS. FAR NW POLYGON: 143 STALKS SEEN IN 2009, 101 IN 2014 AND 92 IN 2015.	SURROUNDING LAND IS COMMERCIAL TIMBERLAND. PLANTS WITHIN WATERCOURSE PROTECTION ZONE.	PVT-Sierra Pacific	3000

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
32	STONEY RIDGE ROAD ALONG TRINITY ALPS CREEK, ABOUT 1 AIR MILE NNE OF WEBER FLAT.	Trinity	Siligo Peak (4012288)	CNDDB, May 2017 (EO 158)	26-Jun-2015	IN 2015, 10 PLANTS SEEN IN SE POLYGON AND AN UNKNOWN NUMBER SEEN IN NW POLYGON. PLANTS SEEM HEALTHY, BUT PILED DEBRIS FROM ADJACENT LOGGING ACTIVITY MAY HAVE EXTIRPATED A PORTION OF THIS OCCURRENCE (BURGE 2015).	DISTURBANCE FROM LOGGING ACTIVITY.	Shasta Trinity NF	4275
33	SOUTH END OF ALPINE VIEW CAMPGROUND, ALONG SMITH GULCH, NEAR SHORE OF CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Covington Mill (4012287)	CNDDB, May 2017 (EO 125)	28-Jun-2006	5 PLANTS OBSERVED IN 2006. USFS POPULATION #SMJA-56-0024.	THREATENED BY HIKERS.	Shasta Trinity NF	2400
33	Alpine View Camproud;	Trinity	Covington Mill (4012287)	NRIS, Apr 2017 (0514_SMJA_56_0024)	28-Jun-2006	5 individuals		Shasta Trinity NF	

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34	NEAR MULE CREEK, EAST OF USFS ROAD 35N31X, BETWEEN GRANITE PEAK AND CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Covington Mill (4012287)	CNDDB, May 2017 (EO 70)	30-Aug-2006	300 PLANTS OBSERVED IN 2006.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	2880
35	ABOUT 0.6 AIR MILE NE OF HOGBACK PG&E REPEATER STATION, 1 AIR MILE SSW OF CONFLUENCE OF DEVILS CANYON CREEK & PIT RIVER.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 65)	25-Jun-2007	2 PLANTS OBSERVED IN 2007.		PVT-Sierra Pacific	2680
36	ALONG TRINITY ALPS CREEK ABOUT 1.6 AIR MILES SSW OF GRANITE PEAK AND 2.2 AIR MILES NNE OF TRINITY ALPS RESORT.	Trinity	Siligo Peak (4012288)	CNDDB, May 2017 (EO 166)	19-May-2015	7 PLANTS OBSERVED IN 2015.	SURROUNDING LAND USE IS TIMBERLAND, THOUGH PLANTS ARE WITHIN FLAGGED WLPZ AND ARE UNLIKELY TO BE DISTURBED BY HARVEST.	PVT-Sierra Pacific	4700
37	ALONG HALL CREEK, APPROXIMATELY 1.6 AIR MILES SSW OF WENGLER.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 64)	24-May-2006	MANY PLANTS OBSERVED IN 2006.		PVT-Roseburg Resources Co	2642

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
38	SLOPE BETWEEN BOWERMAN GULCH AND SMITH GULCH, ABOUT 1.4 AIR MILES WEST OF BOWERMAN PEAK.	Trinity	Covington Mill (4012287)	CNDDB, May 2017 (EO 165)	6-May-2015	222 PLANTS OBSERVED IN 2015.	WITHIN AND OUTSIDE OF TIMBER HARVEST UNITS, IN AREAS PROTECTED BY WLPZ.	PVT-Sierra Pacific	2700
39	ABOUT 0.6 AIR MILE NORTH OF HEATH RANCH, IN BETWEEN MULE CREEK AND LITTLE MULE CREEK.	Trinity	Covington Mill (4012287)	CNDDB, May 2017 (EO 69)	24-Oct-2013	ABOUT 20 PLANTS OBSERVED IN 2006. 130 STALKS OBSERVED IN 2013 (26 ON SPI PROPERTY AND THE REST ON FOREST SERVICE PROPERTY).	SURROUNDING LAND USE IS TIMBER HARVEST. PLANTS GROWING IN A PAST DISTURBED CONIFER PLANTATION AND UP ONTO FS LAND.	Shasta Trinity NF	3070
40	Bowerman;	Trinity	Covington Mill (4012287)	NRIS, Apr 2017 (0514_SMJA_56_040)	11-Jun-2015	individuals	Proposed Bowerman Barn Homestead Trail construction may damage some plants that are within the project area.	Shasta Trinity NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
41	TRIBUTARY ON THE WEST SIDE OF STACEY CREEK, 0.3 MILE NORTH OF CONFLUENCE WITH SOUTH FORK CREEK, TRINITY MOUNTAINS.	Shasta	Damnation Peak (4012285)	CNDDB, May 2017 (EO 109)	14-Jul-2011	47 PLANTS OBSERVED IN 2011.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	3275
42	ALONG A TRIBUTARY OF SOUTH FORK CREEK, 0.1 MILE WEST OF THE CONFLUENCE WITH STACEY CREEK, TRINITY MOUNTAINS.	Shasta	Damnation Peak (4012285)	CNDDB, May 2017 (EO 110)	14-Jul-2011	35 STALKS OBSERVED IN 2011.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	3100
43	0.4 TO 0.6 AIR MILE NW OF BOWERMAN PEAK, ALONG BOWERMAN GULCH, WEST OF CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Trinity Center (4012286)	CNDDB, May 2017 (EO 119)	15-Jun-2011	211 PLANTS OBSERVED IN NORTHERN POLYGON IN 2010. 13 STALKS OBSERVED IN SOUTHERN POLYGON IN 2011.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	3300

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
44	1 AIR MILE NW OF BOWERMAN PEAK, ALONG BOWERMAN GULCH, BETWEEN COVINGTON MILL AND CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Trinity Center (4012286)	CNDDB, May 2017 (EO 118)	14-Aug-2014	10 PLANTS OBSERVED IN 2010. 11 PLANTS OBSERVED IN 2014.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND, BUT PLANTS ARE WITHIN WATERCOURSE PROTECTION ZONE.	PVT-Sierra Pacific	2875
45	ALONG ROARING CREEK JUST NORTH OF MOUTH OF RICHARDSON CREEK, SW OF WENGLER, EAST OF PIT RIVER.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 92)	7-Jul-2010	POPULATION SIZES OBSERVED IN 2010 IN POLYGONS FROM THE NW TO SE: 3+, 4+, AND 20+ PLANTS.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	2400
46	NEAR THE CONFLUENCE OF RICHARDSON AND BUTTER CREEKS, WEST OF BIG BEND ROAD, WENGLER.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 93)	20-Jul-2010	POPULATION SIZES OBSERVED IN 2010 IN POLYGONS FROM THE NORTH TO SOUTH: 4, 20+, 2+, 6+, AND 4+ PLANTS.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	2500
47	NEAR CONFLUENCE OF CLEAR CREEK AND ONION CREEK, ABOUT 1.5 AIR MILES ENE OF BLUE MOUNTAIN.	Shasta	Damnation Peak (4012285)	CNDDB, May 2017 (EO 164)	5-Jun-2015	52 PLANTS OBSERVED IN WESTERN POLYGON AND 4 PLANTS IN EASTERN POLYGON IN 2015.	SURROUNDING LAND USE IS TIMBER HARVEST. SITE IS WITHIN AND PROTECTED BY WLPZ.	PVT-Sierra Pacific	3200

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
48	WITHIN COMMUNITY OF WENGLER, NEAR ROAD RUNNING EAST FROM WENGLER TOWARDS BUTTER CREEK.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 41)	5-Jun-2003	PLANTS WERE OBSERVED IN 2003 BUT NO POPULATION SIZE WAS PROVIDED.	SURROUNDING LAND IS USED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	2655
49	DRAINAGE AT SOUTHWESTERLY BASE OF GOOSE MOUNTAIN, ABOUT 1 AIR MILE NW OF NW SHORE OF LAKE MARGARET.	Shasta	Chalk Mtn. (4012187)	CNDDB, May 2017 (EO 60)	28-Jun-2005	20 PLANTS OBSERVED IN 2005.		PVT-Sierra Pacific	4100
50	NORTH OF ROARING CREEK, BETWEEN TWO SETS OF TRANSMISSION LINES, 1.1 AIR MILES NW OF WENGLER.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 29)	2-Aug-2001	UNKNOWN NUMBER OF PLANTS OBSERVED IN 2001.	LOGGING, ROAD BUILDING.	PVT-Roseburg Resources Co	2800

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
51	0.1 TO 0.7 MILE WEST OF HIGHWAY 3, 1/4 MILE NORTH OF EAST FORK STUART CREEK, W OF CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Covington Mill (4012287)	CNDDB, May 2017 (EO 124)	14-Aug-2014	2011: 27 CLUMPS OF PLANTS OBSERVED IN FAR NW POLYGON, 21 CLUMPS IN FAR SE POLYGON, AND 1 CLUMP OBSERVED IN SMALL NE POLYGON. 2014: 593 STALKS TOTAL OBSERVED, WITH 64 STALKS IN SMALL NE POLYGON.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND, PLANTS WITHIN WATERCOURSE PROTECTION ZONE.	PVT-Sierra Pacific	2800
52	1.4 AIR MILES ESE OF THE SUMMIT OF EAST FORK MOUNTAIN, ALONG USFS ROAD 35N46 NORTH OF REYNOLDS BASIN, WEST OF PIT RIVER.	Shasta	Goose Gap (4012281)	CNDDB, May 2017 (EO 107)	30-Jul-2012	200+ PLANTS OBSERVED IN 2012.	THREATENED BY ROAD MAINTENANCE.	Shasta Trinity NF	3000
52	Reynolds Basin;	Shasta	Goose Gap (4012281)	NRIS, Apr 2017 (0514_SMJA_58_039)	30-Jul-2012	50 individuals	no threats noted	Shasta Trinity NF	
53	0.5 MILE WEST OF JUNCTION WITH LONG CANYON ON BOWERMAN MEADOWS TRAIL, TRINITY ALPS.	Trinity	Covington Mill (4012287)	CNDDB, May 2017 (EO 153)	14-Jul-1975	ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1975 DITOMASO COLLECTION.		Shasta Trinity NF	5400

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
54	ALONG LONG CANYON TRAIL (USFS TRAIL 09W14), 1 MILE W OF TRAILHEAD, NEAR EAST FORK STUART CREEK, TRINITY ALPS WILDERNESS.	Trinity	Covington Mill (4012287)	CNDDB, May 2017 (EO 123)	19-Jun-2013	5 PLANTS OBSERVED IN 2006, ABOUT 25 PLANTS IN 2013. USFS POPULATION #SMJA-56-0025.	POSSIBLY THREATENED BY BROWSING, HIKERS, TRAIL MAINTENANCE.	Shasta Trinity NF	4300
54	9W19;	Trinity	Covington Mill (4012287)	NRIS, Apr 2017 (0514_SMJA_56_0025)	6-Sep-2006	5 individuals		Shasta Trinity NF	
55	NEAR HOBEL CREEK, 1 MILE NORTH OF BILLYS GULCH, BETWEEN HIGHWAY 3 AND CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Trinity Center (4012286)	CNDDB, May 2017 (EO 117)	7-Jun-2010	118 PLANTS OBSERVED BETWEEN THE TWO NORTHERN POLYGONS AND 139 PLANTS OBSERVED IN THE SOUTHERN POLYGON IN 2010.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	2800
56	ALONG TRAIL TO CANYON CREEK LAKES (TRAIL 10W08), WITHIN 1/2 MILE OF LOWER CANYON CREEK FALLS, TRINITY ALPS WILDERNESS.	Trinity	Mt. Hilton (4012381)	CNDDB, May 2017 (EO 5)	30-Aug-2012	1 TO 2 PLANTS OBSERVED ALONG TRAIL IN 2012. A 1948 COLLECTION BY ALEXANDER & KELLOGG FROM ""SMALL CREEK ON TRAIL TO EAST FORK CANYON CREEK LAKE"" IS ALSO ATTRIBUTED HERE.	NO THREATS OBSERVED IN 2012.	Shasta Trinity NF	4500

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
57	2.9 AIR MI WNW OF BILLYS PEAK, DRAINAGE BETWEEN DAVIS CREEK & SHEEP CORRAL CREEK, W OF CLAIR ENGLE LAKE, TRINITY MTNS.	Trinity	Covington Mill (4012287)	CNDDB, May 2017 (EO 121)	22-Sep-2014	19 PLANTS OBSERVED IN 2009. 60 STALKS OBSERVED IN 2014.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND BUT PLANTS ARE WITHIN WATERCOURSE PROTECTION ZONE.	PVT-Sierra Pacific	3350
58	TRINITY ALPS, ROUGHLY 1 AIR MILE SOUTH OF GRANITE LAKE, ALONG TRAIL IN LONG CANYON.	Trinity	Covington Mill (4012287)	CNDDB, May 2017 (EO 35)	27-Aug-2004	APPROXIMATELY 20 RAMETS FOUND IN 2004 WITH ASSOCIATES FOUND ON OPPOSITE SIDE OF TRAIL: ERIOGONUM UMBELLATUM, QUERCUS VACCINIFOLIA, ARCTOSTAPHYLOS PATULA, ERIOPHYLLUM LANATUM. WITHIN TRINITY ALPS WILDERNESS.		Shasta Trinity NF	5800

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
59	1.9 TO 2.6 AIR MI NW OF SUMMIT OF BILLYS PEAK, ALONG AND EAST OF DAVIS CREEK, WEST OF TRINITY LAKE, TRINITY MTNS.	Trinity	Covington Mill (4012287)	CNDDB, May 2017 (EO 120)	22-Sep-2014	2010: 123 PLANTS OBSERVED IN NW POLYGON, 342 STALKS SEEN IN NORTH CENTER POLYGON, AND 174 STALKS OBSERVED IN NE POLYGON. TWO SOUTHERN POLYGONS: 59 PLANTS OBSERVED IN 2009, 109 STEMS IN 2014. INCLUDES FORMER EO #122.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND. PLANTS ARE WITHIN WATERCOURSE PROTECTION ZONE.	PVT-Sierra Pacific	3000
60	ALONG ROARING CREEK, EAST OF TRANSMISSION LINES, APPROXIMATELY 1.8 MILES NORTH OF WENGLER.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 28)	19-Jul-2001	UNKNOWN NUMBER OF PLANTS OBSERVED IN 2001.	LOGGING, ROAD BUILDING.	PVT-Roseburg Resources Co	3000

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
61	ALONG DRAINAGES ON THE HILLS WEST OF GOOSE VALLEY, ABOUT 1.5 TO 2.5 MILES NORTH OF GOOSE CREEK, NW OF BURNEY.	Shasta	Burney (4012186)	CNDDB, May 2017 (EO 88)	24-Jul-2009	POPULATION SIZES OBSERVED IN 2009 FROM THE NORTHERN TO THE SOUTHERN POLYGONS: FIRST 12 PLANTS IN FAR NORTHERN POLYGON, NEXT 40, NEXT 50, FINALLY 20 OBSERVED BETWEEN THE TWO SOUTHERN POLYGONS COMBINED.	THREATENED BY LIVESTOCK GRAZING.	PVT-Fruit Growers Supply Co	3400
62	IN HILLS 1 AIR MILE WEST FROM THE NORTHWESTERN END OF GOOSE VALLEY, ALONG MARGIN OF SMALL PERENNIAL STREAM.	Shasta	Chalk Mtn. (4012187)	CNDDB, May 2017 (EO 54)	20-Aug-2014	50 PLANTS OBSERVED IN 2005. ABOUT 71 STALKS OBSERVED IN 2014.	SURROUNDING LAND IS USED AS COMMERCIAL TIMBERLAND. PLANTS ARE PROTECTED WITHIN WATERCOURSE PROTECTION ZONE.	PVT-Sierra Pacific	3200
63	4 AIR MILES SSW OF TUNNEL RESERVOIR. 3 AIR MILES SOUTHEAST OF PIT 5 POWERHOUSE.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 53)	14-Jun-2004	AN UNKNOWN NUMBER OF PLANTS WERE OBSERVED IN 2004.	TIMBER HARVEST.	PVT-Roseburg Resources Co	3000

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
64	NORTH OF BROWNS CREEK, EAST OF TRANSMISSION LINES, APPROXIMATELY 2 MILES NNE OF WENGLER.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 27)	28-Jun-2010	MANY PLANTS OBSERVED IN 2006. OVER 100 PLANTS OBSERVED IN THE SECOND FROM THE EASTERNMOST POLYGON IN 2010.	LOGGING, ROAD BUILDING.	PVT-Roseburg Resources Co	3200
65	ALONG HELL CREEK, SOUTH OF BROWN MOUNTAIN, EAST OF CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Shasta	Damnation Peak (4012285)	CNDDB, May 2017 (EO 108)	Unknown	NO DATE OR INFORMATION REGARDING POPULATION SIZE WAS PROVIDED. IT IS UNCLEAR WHO DID THE ACTUAL FIELDWORK. MORE INFORMATION IS NEEDED REGARDING THIS OCCURRENCE.		Shasta Trinity NF	3600
66	WEST OF LOGGING ROAD, APPROXIMATELY 2.3 AIR MILES NORTH OF WENGLER.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 63)	7-Jul-2006	MANY PLANTS OBSERVED IN 2006.		PVT-Roseburg Resources Co	3120
67	ABOUT 1.41 AIR MILES NORTHWEST OF BALES MOUNTAIN AND 1.34 AIR MILES SOUTHWEST OF DEEP CAMPGROUND.	Shasta	Chalk Mtn. (4012187)	CNDDB, May 2017 (EO 59)	8-Aug-2008	6 PLANTS OBSERVED IN 2008.	BROWSING. IN 2008 SEVERAL OF THE PLANTS SHOWED DAMAGE, 2 ALMOST TO SOIL LEVEL.	PVT-Sierra Pacific	3800

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
68	3.2 AIR MILES SOUTH OF TUNNEL RESERVOIR. 1.1 AIR MILES SOUTHEAST OF INTERSECTION OF TRANSMISSION LINES.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 52)	14-Jun-2004	AN UNKNOWN NUMBER OF PLANTS WERE OBSERVED IN 2004.	TIMBER HARVEST.	PVT-Roseburg Resources Co	3165
69	2.5 AIR MILES WNW OF SUMMIT OF BALES MOUNTAIN, IN DRAINAGE BETWEEN ROARING CREEK AND BROWNS CREEK, NE OF WENGLER.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 91)	22-Jul-2010	12 PLANTS OBSERVED IN 2010.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	3300
70	0.6 AIR MILE SSW OF PREACHER MEADOW CAMPGROUND, ALONG NORWEGIAN RANCH ROAD, EAST OF HIGHWAY 3, SW OF TRINITY CENTER.	Trinity	Trinity Center (4012286)	CNDDB, May 2017 (EO 115)	9-Sep-2015	79 STALKS OBSERVED IN 2010. 48 PLANTS OBSERVED IN AUGUST 2015 AND 95 PLANTS IN SEPTEMBER 2015.	RECENT TIMBER HARVEST DISTURBANCE IN AREA, THOUGH PLANTS ARE PROTECTED WITHIN WLPZ.	PVT-Sierra Pacific	3230

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
71	0.8 AIR MILE SOUTH OF PREACHER MEADOW CAMPGROUND, EAST OF HIGHWAY 3, SW OF TRINITY CENTER.	Trinity	Trinity Center (4012286)	CNDDB, May 2017 (EO 116)	14-Aug-2014	11 STALKS OBSERVED IN 2010. 16 STALKS OBSERVED IN 2014.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND. TIMBER HARVEST HAS ALREADY TAKEN PLACE IN AREA (2014).	PVT-Sierra Pacific	3575
72	2.1 AIR MILES SSE OF PIT 5 POWERHOUSE ALONG PIT RIVER, FLAT WOODS, SW OF BIG BEND.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 90)	6-Jun-2012	MANY"" PLANTS OBSERVED HERE IN 2012; IT WAS ALSO NOTED THAT THE POPULATION CONTINUED NORTHEAST AND SOUTH OUT OF THE SURVEYED AREA.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	2765
73	2.1 TO 3.7 AIR MILES SSW OF TUNNEL RESERVOIR, NEAR LITTLE ROARING CREEK, FLAT WOODS, SOUTH OF BIG BEND.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 47)	19-Aug-2010	OVER 1000 PLANTS OBSERVED IN LARGE CENTRAL POLYGON IN 2009. 5 WESTERNMOST POLYGONS HAD OVER 145 PLANTS TOTAL IN 2010. INCLUDES FORMER OCCURRENCES #50 AND 51.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	3100

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
74	NORTH END OF FLAT WOODS, EAST OF PIT RIVER, 2.0 TO 3.3 AIR MILES SE OF PIT 5 POWERHOUSE, SOUTH OF BIG BEND.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 24)	2-Jul-2012	OVER 1000 PLANTS OBSERVED IN THE 2 EASTERN POLYGONS IN 2009. 40+ SEEN IN THE SIXTH FROM THE WESTERNMOST POLYGON IN 2010. EXTENSIVE POPULATIONS WERE OBSERVED IN THE OTHER POLYGONS. INCLUDES FORMER OCCURRENCES #25, 26, 46, AND 49.	LOGGING.	PVT-Roseburg Resources Co	2900
75	2.25 AIR MILES SOUTH OF TUNNEL RESERVOIR. 1.5 AIR MILES ENE OF INTERSECTION OF TRANSMISSION LINES.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 48)	25-May-2004	ONE COLONY OF PLANTS OBSERVED IN 2004.	TIMBER HARVEST.	PVT-Roseburg Resources Co	3345
76	Shasta-Trinity NF	Trinity	Covington Mill (4012287)	NRIS, Apr 2017 (SMJA051 40003a)	25-Jun-1974	individuals		Shasta Trinity NF	
77	ALONG A TRIBUTARY TO LITTLE ROARING CREEK, FLAT WOODS, ABOUT 3.5 MILES SOUTH OF BIG BEND ALONG PIT RIVER.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 62)	12-Aug-2009	UNKNOWN NUMBER OF PLANTS OBSERVED IN 2008 IN THE NORTHERN PART OF THE POLYGON. OVER 200 PLANTS SEEN IN 2009 THROUGHOUT THE POLYGON.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	3070

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
78	0.9 AIR MILE WNW OF PREACHER MEADOW CAMPGROUND, SOUTH OF PANSY GULCH, WSW OF TRINITY CENTER.	Trinity	Trinity Center (4012286)	CNDDB, May 2017 (EO 114)	23-Sep-2014	NORTH POLYGON: 10 PLANTS OBSERVED IN 2003, UNABLE TO RELOCATE POPULATION IN 2014. MIDDLE AND SOUTH POLYGONS: 20 STEMS OBSERVED IN 2014.	SITE USED AS DOMESTIC WATER SOURCE (2003). TIMBER HARVEST (PROTECTED WITHIN WPZ BUFFER) AND ROAD MAINTENANCE (2014).	PVT-Sierra Pacific	3200
79	NORTH END OF FLAT WOODS, EAST OF PIT RIVER, W OF TRANSMISSION LINE, 1 AIR MILE SSE OF PIT 5 POWERHOUSE, SW OF BIG BEND.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 23)	21-Jul-2012	UNKNOWN NUMBER OF PLANTS OBSERVED IN THE CENTER POLYGON IN 2001. APPROXIMATELY 15 PLANTS OBSERVED IN THE SE POLYGON AND APPROXIMATELY 60 SEEN IN THE NW POLYGON IN 2012.	LOGGING.	PVT-Roseburg Resources Co	2800
80	ALONG SWIFT CREEK TRAIL (USFS TRAIL 8W14), APPROX 1 MILE SW OF FOOTBRIDGE OVER SWIFT CREEK, TRINITY ALPS WILDERNESS.	Trinity	Covington Mill (4012287)	CNDDB, May 2017 (EO 3)	16-Jun-2002	30+ PLANTS OBSERVED IN 2002. A 1974 SAWYER ET AL. COLLECTION FROM "ALONG TRAIL TO GRANITE LAKE, T36N R8W SEC 19" IS ALSO ATTRIBUTED TO THIS SITE. USFS POPULATION #SMJA05140003.	POSSIBLY THREATENED BY CONIFER ENCROACH-MENT.	Shasta Trinity NF	4800

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
80	Shasta-Trinity NF	Trinity	Covington Mill (4012287)	NRIS, Apr 2017 (SMJA051 40003b)	16-Jun-2002	individuals		Shasta Trinity NF	
81	1.8 AIR MILES WSW OF STATE HIGHWAY 3 WHERE IT CROSSES SWIFT CREEK.	Trinity	Trinity Center (4012286)	CNDDB, May 2017 (EO 68)	8-Sep-2005			PVT	2900
82	NORTH END OF FLAT WOODS, EAST OF PIT RIVER, EAST OF TRANSMISSION LINES, 1.5 AIR MILES ESE OF PIT 5 POWERHOUSE.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 21)	22-Jun-2006	UNKNOWN NUMBERS OF PLANTS OBSERVED IN 2001, 2006.	LOGGING.	PVT-Roseburg Resources Co	2880
83	1.8 AIR MILES WEST-SOUTHWEST OF TRINITY CENTER, 1.2 AIR MILES NORTH OF PREACHER MEADOW CAMPGROUND.	Trinity	Trinity Center (4012286)	CNDDB, May 2017 (EO 42)	11-Jul-2003	300 PLANTS SEEN IN 2003. SOME MINOR ULTRAMAFIC INFLUENCE IN THE SOILS HERE, BUT THIS IS A METAVOLCANIC SOIL TYPE JUST DOWNSTREAM FROM AN OLD PLACER MINE.	SURROUNDING LAND IS USED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	2800

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
84	NORTH END OF FLAT WOODS, EAST OF PIT RIVER, ALONG WEST SIDE OF TRANSMISSION LINE, 0.5 AIR MILE SE OF PIT 5 POWERHOUSE.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 19)	15-Jun-2001	UNKNOWN NUMBER OF PLANTS OBSERVED IN 2001. HABITAT IN UPPER END OF DRAINAGE DESTROYED BY POWER LINE CONSTRUCTION.	LOGGING, POWER LINE CONSTRUCTION /MAINTENANCE.	PVT-Roseburg Resources Co	2800
85	NORTH END OF FLAT WOODS, EAST OF PIT RIVER, 1.9 TO 2.3 AIR MILES ENE OF PIT 5 POWERHOUSE, SSW OF BIG BEND.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 22)	21-Jul-2010	POPULATION SIZES AND OBSERVATION YEARS OF POLYGONS FROM THE NORTH TO SOUTH: 2 PLANTS IN 2010, NEXT "MANY" IN 2006, NEXT 99 PLANTS IN 2010, AND AN UNKNOWN NUMBER OBSERVED IN THE LAST POLYGON IN 2001. INCLUDES FORMER OCCURRENCE #61.	LOGGING.	PVT	3000
86	1.1 AIR MILES SSW OF TUNNEL RESERVOIR.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 39)	3-Jul-2003	TWO COLONIES OF PLANTS OBSERVED IN 2003.	SURROUNDING LAND IS USED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	2475
87	1.5 AIR MILES SSW OF TUNNEL RESERVOIR.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 40)	18-Aug-2003	UNKNOWN NUMBER OF PLANTS WERE OBSERVED IN 2003.	SURROUNDING LAND IS USED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	2620

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
88	NORTH END OF FLAT WOODS, EAST OF PIT RIVER, EAST OF TRANSMISSION LINES, 1.0 AIR MILE ESE OF PIT 5 POWERHOUSE.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 20)	9-Jun-2006	PLANTS NOT COUNTED IN 2001 NOR 2006.	LOGGING.	PVT-Roseburg Resources Co	2800
89	2.5 AIR MILES EAST OF PIT 5 POWERHOUSE, 2.25 AIR MILES WSW OF TUNNEL RESERVOIR, SOUTH OF BIG BEND.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 38)	5-Jun-2003	PLANTS WERE OBSERVED IN 2003 BUT NO POPULATION SIZE WAS PROVIDED.	SURROUNDING LAND IS USED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	2950
90	NORTH SIDE OF TOUGH GUS GULCH, 1.6 AIR MILES EAST OF LAKE ELEANOR, WEST OF TRINITY CENTER.	Trinity	Trinity Center (4012286)	CNDDB, May 2017 (EO 113)	23-Sep-2014	51 PLANTS OBSERVED IN 2009. 114 STEMS OBSERVED IN 2014.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND BUT PLANTS WITHIN WATERCOURSE PROTECTION ZONE.	PVT-Sierra Pacific	3120
91	0.8 AIR MILE SSW OF CENTER OF TUNNEL RESERVOIR.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 37)	3-Jul-2003	PLANTS WERE OBSERVED IN 2003 BUT NO POPULATION SIZES WERE PROVIDED.	SURROUNDING LAND IS USED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	2400

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
92	0.5 AIR MILE NORTH OF TOUGH GUS GULCH, 1.5 AIR MILES EAST OF LAKE ELEANOR, WEST OF TRINITY CENTER.	Trinity	Trinity Center (4012286)	CNDDB, May 2017 (EO 112)	23-Sep-2014	20 PLANTS OBSERVED IN 2009. 79 PLANTS IN 2014, AREA HAS A LOT OF GOOD HABITAT FOR SMILAX TO MOVE INTO.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND BUT PLANTS ARE PROTECTED WITHIN A WATERCOURSE PROTECTION ZONE.	PVT-Sierra Pacific	3415
93	ABOUT 1.6 AIR MILES WNW OF NW EDGE OF TRINITY CENTER, 2 AIR MILES EAST OF LAKE ELANOR.	Trinity	Trinity Center (4012286)	CNDDB, May 2017 (EO 67)	17-Aug-2005	3 PLANTS OBSERVED IN 2005.		PVT-Sierra Pacific	2956
94	BIG BEND ROAD, ABOUT 1 MILE NORTH OF PIT RIVER.	Shasta	Goose Gap (4012281)	CNDDB, May 2017 (EO 66)	18-Jun-2007	8 PLANTS AND 3 PLANTS SEEN AT THE TWO COLONIES IN 2007.		PVT-Sierra Pacific	3050
95	0.7 AIR MILE SE OF THE MOUTH OF MINERS CREEK AT PIT RIVER, SOUTH OF PIT 5 ROAD, SW OF BIG BEND.	Shasta	Roaring Creek (4012188)	CNDDB, May 2017 (EO 89)	21-Jul-2010	49 PLANTS OBSERVED IN 2010.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	2150

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
96	ALONG SWIFT CREEK TRAIL (USFS TRAIL 8W15), 0.4 TRAIL MILE NE OF HORSESHOE LAKE, TRINITY ALPS.	Trinity	Siligo Peak (4012288)	CNDDB, May 2017 (EO 126)	24-Aug-2006	15 PLANTS OBSERVED IN 2006. USFS POPULATION #SMJA-56-0023. 1976 DITOMASO COLLECTION FROM ""1.5 MILES WEST OF MUMFORD MEADOWS ON SWIFT CREEK TRAIL"" ATTRIBUTED HERE.	POSSIBLY THREATENED BY TRAIL MAINTENANCE.	Shasta Trinity NF	6450
96	8W15;	Trinity	Siligo Peak (4012288)	NRIS, Apr 2017 (0514_SMJA_56_0023)	24-Aug-2006	15 individuals		Shasta Trinity NF	
97	SOUTH OF WEST BRANCH NORTH FORK SWIFT CREEK, 0.9 MILE WEST OF CONFLUENCE WITH N FORK SWIFT CREEK, WNW OF TRINITY CENTER.	Trinity	Trinity Center (4012286)	CNDDB, May 2017 (EO 111)	11-Jun-2009	271 PLANTS OBSERVED IN 2009.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	3300
98	ALONG RIPARIAN AREA ON NW OF ROAD BORDERING PLANTATION, EAST OF FORK, ABOUT 1.1 AIR MILE NORTHEAST OF LAKE ELANOR.	Trinity	Ycatapom Peak (4112217)	CNDDB, May 2017 (EO 73)	8-Aug-2005	8 PLANTS OBSERVED IN 2005.	LAND USE IS TIMBER HARVEST.	PVT-Sierra Pacific	3800

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
99	ABOUT 1.5 MILES SOUTH OF BIG BEND ALONG PIT RIVER, ON BOTH SIDES OF BIG BEND ROAD, WEST OF TUNNEL RESERVOIR.	Shasta	Big Bend (4112118)	CNDDB, May 2017 (EO 36)	30-Aug-2003	PLANTS WERE OBSERVED IN 2003 BUT NO POPULATION SIZES WERE PROVIDED.	SURROUNDING LAND IS USED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	2200
100	WEST SIDE OF IRON CANYON CREEK, ABOUT 1.5 AIR MILES SW OF OAK MOUNTAIN AND 1 AIR MILE WNW OF BUSH BAR.	Shasta	Big Bend (4112118)	CNDDB, May 2017 (EO 156)	21-Jun-2012	82 STALKS OBSERVED IN 2012.	TIMBER HARVEST. LOCATIONS FLAGGED AND FORESTER IS AWARE OF POPULATION AND WILL IMPLEMENT PROTECTION MEASURES.	PVT-Sierra Pacific	1850
101	STUARTS FORK TRAIL BELOW EMERALD LAKE, TRINITY ALPS.	Trinity	Caribou Lake (4112218)	CNDDB, May 2017 (EO 4)	29-Jun-1976	SITE BASED ON A 1976 DITOMASO COLLECTION. 1974 COLLECTION BY BROWN FROM "ALONG TRAIL FROM MORRIS MEADOWS TO PORTUGESE CAMP" ATTRIBUTED HERE, ALONG WITH 1954 KRUCKEBERG COLLECTION FROM "ABOVE MORRIS MEADOWS ON TRAIL TO EMERALD LAKE".		Shasta Trinity NF	5100

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
102	0.6 AIR MILE ENE OF MOUTH OF MINERS CREEK AT PIT RIVER, 2 MILES SW OF BIG BEND.	Shasta	Big Bend (4112118)	CNDDB, May 2017 (EO 130)	26-Jul-2010	APPROXIMATELY 30 PLANTS OBSERVED IN 2010.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	1665
103	0.6 TO 1.1 AIR MILES SW OF BRIDGE OVER PIT RIVER AT BIG BEND.	Shasta	Big Bend (4112118)	CNDDB, May 2017 (EO 43)	26-Jul-2010	PLANTS WERE OBSERVED IN THE TWO SW POLYGONS IN 2003 BUT NO POPULATION SIZE WAS PROVIDED. APPROXIMATELY 20 PLANTS OBSERVED IN THE NE POLYGON IN 2010.	SURROUNDING LAND IS USED AS COMMERCIAL TIMBERLAND.	PVT-Roseburg Resources Co	1900
104	SWIFT CREEK TRAIL AT UPPER END OF MUMFORD MEADOWS, TRINITY ALPS.	Trinity	Caribou Lake (4112218)	CNDDB, May 2017 (EO 155)	24-Aug-1976	ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1976 DITOMASO COLLECTION.		Shasta Trinity NF	5600
105	0.7 AIR MILE NORTH OF THE SUMMIT OF SLATE MOUNTAIN, EAST OF CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Whisky Bill Peak (4112215)	CNDDB, May 2017 (EO 136)	31-Aug-2009	170 PLANTS OBSERVED IN 2009.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	4115

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
106	BETWEEN SQUIRREL GULCH AND TRINITY LAKE, 0.25 MILE NORTH OF EASTSIDE RD AND ABOUT 3 AIR MILES NE OF TRINITY CENTER.	Trinity	Carrville (4112216)	CNDDB, May 2017 (EO 154)	7-Aug-2014	5 STALKS SEEN IN 2014. THERE IS A LOT OF SUITABLE HABITAT FOR THE PLANTS TO MOVE INTO.	TIMBER HARVEST ACTIVITIES, THOUGH PLANTS WILL BE PROTECTED WITHIN WATERCOURSE PROTECTION ZONE.	PVT-Sierra Pacific	2775
107	SOUTH OF MENZEL GULCH, WEST OF CEDAR CREEK RD, 1.25 AIR MILES SSE OF PORTER SPRING, W OF CLAIR ENGLE LAKE, TRINITY MTNS.	Trinity	Whisky Bill Peak (4112215)	CNDDB, May 2017 (EO 15)	15-Jun-2010	100 PLANTS OBSERVED IN 2000. 8 CLUMPS OF PLANTS OBSERVED IN 2010 IN A SURVEY OF A PORTION OF THE OCCURRENCE.	DISTURBED BY PAST TIMBER HARVEST.	PVT-Sierra Pacific	3000
107	;	Trinity	Carrville (4112216)	NRIS, Apr 2017 (0514_SMJA_56_0027)	12-Oct-2000	100 individuals		Shasta Trinity NF	
108	1.0 MI WEST OF TRAILHEAD ALONG POISON CANYON TRAIL (TRAIL 8W10) ALONG NORTH FORK SWIFT CREEK, TRINITY ALPS WILDERNESS.	Trinity	Ycatapom Peak (4112217)	CNDDB, May 2017 (EO 139)	3-Sep-2005	50+ PLANTS OBSERVED IN 2005 BETWEEN THIS OCCURRENCE AND OCCURRENCE #138 COMBINED. USFS POPULATION #SMJA05140022.		Shasta Trinity NF	5100

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
109	1.8 MI WEST OF TRAILHEAD ALONG POISON CANYON TRAIL (TRAIL 8W10) ALONG NORTH FORK SWIFT CREEK, TRINITY ALPS WILDERNESS.	Trinity	Ycatapom Peak (4112217)	CNDDB, May 2017 (EO 138)	3-Sep-2005	50+ PLANTS OBSERVED IN 2005 BETWEEN THIS OCCURRENCE AND OCCURRENCE #139 COMBINED. USFS POPULATION #SMJA05140022.		Shasta Trinity NF	5600
110	ALONG CABIN GULCH, 0.7 MILE UPSTREAM OF ITS MOUTH AT CEDAR CREEK, WEST OF CLAIR ENGLE LAKE, TRINITY MOUNTAINS.	Trinity	Whisky Bill Peak (4112215)	CNDDB, May 2017 (EO 135)	15-Jun-2010	15 CLUMPS OF PLANTS OBSERVED IN 2010.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	3270
111	1.6 AIR MILES NORTH OF BIG BEND ALONG PIT RIVER, HALFWAY BETWEEN REYNOLDS CREEK AND KOSK CREEK.	Shasta	Big Bend (4112118)	CNDDB, May 2017 (EO 129)	19-Jun-2007	1 PLANT OBSERVED IN 2007.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	2400
112	ALONG IRON CANYON RESERVOIR ROAD NEAR DEADLUN CAMPGROUND, NORTH END OF IRON CANYON RESERVOIR.	Shasta	Big Bend (4112118)	CNDDB, May 2017 (EO 86)	5-Jul-2007	12 PLANTS OBSERVED IN 2001 (POPULATION LIKELY MUCH LARGER) AND APPROXIMATELY 70 OBSERVED IN 2007.	THREATENED BY CAMPGROUND USE, TRAMPLING.	Shasta Trinity NF	2600

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
112	Deadlun Campground; Go to Deadlun Campground, site 28, on the north side of Iron Canyon Reservoir.	Shasta	Big Bend (4112118)	NRIS, Apr 2017 (0514_SMJA_58_0029A)	6-Jun-2001	12 individuals	Population located in a campground near site 28 post marker and 3 feet from restroom.	Shasta Trinity NF	
112	; Deadlum Campground. First population off backside of outhouse above the creek. Other scattered individuals on flat above the creek.	Shasta	Big Bend (4112118)	NRIS, Apr 2017 (0514_SMJA_58_0029B)	5-Jul-2007	66 individuals	Visible disturbances include unimproved trails, the campground road, and campsites. Campers are potential threats.	Shasta Trinity NF	
113	ALONG IRON CANYON RESERVOIR ROAD WHERE CEDAR SALT LOG CREEK FEEDS INTO THE NORTH END OF IRON CANYON RESERVOIR.	Shasta	Big Bend (4112118)	CNDDB, May 2017 (EO 72)	6-Jul-2007	4 PLANTS OBSERVED IN THE NE POLYGON AND AN UNKNOWN NUMBER FOUND IN THE SW POLYGON IN 2007.		Shasta Trinity NF	2600
113	; Iron Canyon Reservoir, Cedar Salt Log Creek. On both sides of creek.	Shasta	Big Bend (4112118)	NRIS, Apr 2017 (0514_SMJA_58_0030)	6-Jul-2007	4 individuals	The road is a visible disturbance. There are no potential threats listed.	Shasta Trinity NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
114	1.2 AIR MILES SE OF SUMMIT OF BALD MOUNTAIN, NEAR INDIAN CREEK, 6 MILES NE OF BIG BEND.	Shasta	Skunk Ridge (4112117)	CNDDB, May 2017 (EO 127)	16-Jun-2009	11 STALKS OBSERVED IN 2009.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	3960
115	ALONG NORTH BANK OF MCCLOUD RIVER, 2 AIR MILES SOUTHWEST OF AH-NI-DA CAMPGROUND.	Shasta	Shoeinhorse Mtn. (4112211)	CNDDB, May 2017 (EO 45)	24-Sep-2002	13 PLANTS OBSERVED IN 2002.	CURRENTLY IN PRESERVE. NO THREATS.	TNC	1950
116	MCCLOUD RIVER PRESERVE, ALONG MCCLOUD RIVER AT MOUTH OF LADYBUG CREEK, SW OF LAKE MCCLOUD.	Shasta	Shoeinhorse Mtn. (4112211)	CNDDB, May 2017 (EO 44)	15-Nov-2003	17 PLANTS OBSERVED IN 2003.	THREATENED BY FOOT TRAFFIC AND TRAIL MAINTENANCE.	TNC-McCloud River Preserve	2000
117	TRIBUTARY TO HAWKINS CREEK, HEADWATER TRIBUTARY TO MCCLOUD RIVER, SHASTA-TRINITY NATIONAL FOREST.	Shasta	Big Bend (4112118)	CNDDB, May 2017 (EO 6)	24-Jun-1988	1-10 PLANTS OBSERVED IN 1988 BY TAYLOR.		Shasta Trinity NF	3980
117	Hawkins Creek;	Shasta	Big Bend (4112118)	NRIS, Apr 2017 (0514_SMJA_61_0001A)	27-Jun-1999	individuals		Shasta Trinity NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
118	LITTLE MEADOWS ALONG HAWKINS CREEK, 2.7 AIR MILES SSE OF GRIZZLY PEAK, SHASTA-TRINITY NATIONAL FOREST.	Shasta	Big Bend (4112118)	CNDDB, May 2017 (EO 128)	27-Jul-1999	12 PLANTS OBSERVED IN 1999. USFS POPULATION #0514001.	POSSIBLY THREATENED BY FOOT TRAFFIC FROM CAMPERS.	Shasta Trinity NF	3960
118	Hawkins Creek;	Shasta	Big Bend (4112118)	NRIS, Apr 2017 (0514_SMJA_61_0001B)	27-Jul-1999	12 individuals		Shasta Trinity NF	
119	0.4 AIR MILE NW OF TRINITY RIVER CAMPGROUND, WEST OF HIGHWAY 3 & TRINITY RIVER, NORTH OF CLAIR ENGLE LAKE, TRINITY MTNS.	Trinity	Carrville (4112216)	CNDDB, May 2017 (EO 137)	7-Jun-2011	4 STALKS OBSERVED IN 2011.	SURROUNDING LAND IS MANAGED AS COMMERCIAL TIMBERLAND.	PVT-Sierra Pacific	3050
120	EAST OF TRINITY RIVER JUST SOUTH OF SUNNY FLAT, WEST OF HIGHWAY 3, BETWEEN RIPPLE AND MINNEHAHA CREEKS.	Trinity	Tangle Blue Lake (4112226)	CNDDB, May 2017 (EO 17)	12-Oct-2000	5 PLANTS OBSERVED IN 2000, WITH CLUMPS OF SMILAX JAMESII FOUND IN BOTH WET AND DRY CONDITIONS. S. CALIFORNICA IS MORE ABUNDANT THAN S. JAMESII AT THIS SITE. SITE FOUND BY CEDRIC TWIGHT.	TIMBER PRODUCTION.	PVT-Sierra Pacific	2700

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
120	;	Trinity	Tangle Blue Lake (4112226)	NRIS, Apr 2017 (0514_SMJA_56_0026)	12-Oct-2000	5 individuals		Shasta Trinity NF	
121	NORTH SIDE OF EAGLE CREEK, ABOUT 1.1 AIR MILES WEST OF HORSE FLAT CAMPGROUND.	Trinity	Tangle Blue Lake (4112226)	CNDDB, May 2017 (EO 75)	6-Jul-2007	1 PLANT OBSERVED IN 2007.	LAND USE IS TIMBER HARVEST.	PVT-Sierra Pacific	4000
122	SOUTH SIDE OF EAGLE CREEK, ABOUT 1.5 AIR MILES WEST OF HORSE FLAT CAMPGROUND.	Trinity	Tangle Blue Lake (4112226)	CNDDB, May 2017 (EO 74)	6-Jul-2007	1 PLANT OBSERVED IN 2007.		PVT-Sierra Pacific	4000
123	GRANITE GULCH, 0.8 AIR MILE NORTH OF YOUNGS PEAK SUMMIT, SALMON MOUNTAINS.	Siskiyou	Youngs Peak (4112323)	CNDDB, May 2017 (EO 18)	27-May-2001	20 STEMS ESTIMATED IN 2001, SCATTERED OVER A 0.10 ACRE AREA. MANY MORE STEMS MAY BE PRESENT AT THIS SITE, SEEMINGLY SUITABLE HABITAT IS PLENTIFUL, BUT TIME DID NOT PERMIT A THOROUGH SEARCH.	NO VISIBLE DISTURBANCES OR OBVIOUS THREATS IN 2001.	Klamath NF	5110

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
124	WEST SIDE OF USFS ROAD 39N95, ALONG A TRIBUTARY OF MOOSEHEAD CREEK, SW OF COLBY MEADOW, SHASTA-TRINITY NATIONAL FOREST.	Siskiyou	Dead Horse Summit (4112127)	CNDDB, May 2017 (EO 134)	30-Aug-2000	20-30 PLANTS OBSERVED IN 2000.	POSSIBLY THREATENED BY FUTURE THINNING PROJECTS.	Shasta Trinity NF	4500
124	Mossehead Creek;	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJA_61_0028A)	30-Aug-2000	25 individuals		Shasta Trinity NF	
124	Bartle LSR; From McCloud CA., take Hwy 89 east past Bartle approx. 4 miles to FS39N05 road. Go SE 1.5 to 2 miles to FS 39N95 road. See quad. 680-1 Dead Horse Summit	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJA_61_0028D)	30-Aug-2000	individuals		Shasta Trinity NF	
125	ALONG TRAIL TO BIG BEAR LAKE, ABOUT 0.5 AIR MI NE OF LAKE, TRINITY ALPS.	Trinity	Tangle Blue Lake (4112226)	CNDDB, May 2017 (EO 157)	12-Aug-2012	20+ PLANTS SEEN IN 2012; POPULATION MAY EXTEND BEYOND MAPPED AREA.	POSSIBLE FUTURE TRAIL MAINTENANCE.	Shasta Trinity NF	5635

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
126	EAST OF DEAD HORSE SUMMIT ALONG HIGHWAY 89, ABOUT 1.3 AIR MILES EAST OF COLBY MEADOW.	Siskiyou	Dead Horse Summit (4112127)	CNDDB, May 2017 (EO 32)	31-Jul-2006	MANY PLANTS OBSERVED IN 2006.	LOGGING, RAILROAD MAINTENANCE.	PVT-Roseburg Resources Co	4500
127	Shasta-Trinity NF	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJA_59_0036)	14-Sep-2010	12 individuals	Noxious weeds from HWY 89 and 40N10. Future logging.	Shasta Trinity NF	
128	EAST SIDE OF TRINITY RIVER BETWEEN SUNFLOWER CREEK AND GRAVES CREEK, WEST OF HIGHWAY 3.	Trinity	Tangle Blue Lake (4112226)	CNDDB, May 2017 (EO 16)	25-Sep-2015	10 PLANTS OBSERVED IN 2000 OVER A ONE ACRE AREA. SITE REVISITED IN 2014 BUT NO PLANTS FOUND. 8 PLANTS OBSERVED IN NORTH POLYGON AND 16 IN SOUTH POLYGON IN 2015.	SURROUNDING LAND USE IS TIMBERLAND. ADJACENT TO GOLD MINING CLAIM WHICH MAY BE CLOSED WITHIN A COUPLE OF YEARS (2000).	PVT-Sierra Pacific	3080

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
129	NEAR COLBY MEADOW AND MOUTH OF MOOSEHEAD CREEK ALONG MCCLOUD RIVER, SW OF HIGHWAY 89.	Siskiyou	Dead Horse Summit (4112127)	CNDDB, May 2017 (EO 33)	29-Sep-2010	FAR SW POLYGON: OVER 100 INDIVIDUALS IN 2007 & THOUSANDS IN 2010. <75 IN CENTER POLYGON IN 2007. FAR NORTH POLYGON: 20 PLANTS IN 2009 & 50 IN 2010. 15 IN SECOND FROM NORTHERN POLYGON IN 2010. ADDITIONAL POPULATION INFO AVAILABLE AT CNDDB.	THREATENED BY LOGGING, THINNING, GRAZING, ROAD CONSTRUCTION , AND RECREATION.	Shasta Trinity NF	4300
129	Shasta-Trinity NF	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJA_59_0035)	14-Sep-2010	75 individuals	Future logging and grazing.	Shasta Trinity NF	
129	Shasta-Trinity NF	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJA_59_0037)	29-Sep-2010	1000 individuals	Logging, plantation maintenance. Known noxious weeds in plantation (HYPE, CYOF) Grazing.	Shasta Trinity NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
130	BOTH SIDES OF HIGHWAY 89, 0.3 TO 1.0 MILE NW OF DEAD HORSE SUMMIT, SHASTA-TRINITY NATIONAL FOREST.	Siskiyou	Dead Horse Summit (4112127)	CNDDB, May 2017 (EO 133)	13-Sep-2007	50 TO 100 PLANTS OBSERVED IN 2007 IN THE WESTERN POLYGON. AT LEAST 12 PLANTS, AND POSSIBLY AS MANY AS 20, WERE OBSERVED IN 2007 IN THE EASTERN POLYGON. USFS POPULATION #SMJA-61-0028D.	POSSIBLY THREATENED BY WEED INVASION AND ROAD MAINTENANCE.	Shasta Trinity NF	4400
130	; Hwy 89 to Rd 39N05 past juction with 39N94, turn right on an old railroad rd.	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJA_61_0028E)	10-Aug-2009	13 individuals	Possible threats include timber harvest and new skid roads.	Shasta Trinity NF	
130	Colby Meadows;	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJA_61_0028B)	15-Jul-2003	6 individuals		Shasta Trinity NF	
130	Colby Meadows; At point where road crosses drainage just south of Colby Meadow.	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJA_61_0028C)	15-Sep-2001	individuals		Shasta Trinity NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
131	ALONG TANGLE BLUE CREEK, 0.1 MILE NORTH OF TANGLE BLUE LAKE ALONG USFS TRAIL 8W01, TRINITY ALPS WILDERNESS.	Trinity	Tangle Blue Lake (4112226)	CNDDB, May 2017 (EO 140)	5-Oct-2002	25 PLANTS OBSERVED IN 2002. USFS POPULATION #SMJA05140012.		Shasta Trinity NF	5720
132	Shasta-Trinity NF	Trinity	Tangle Blue Lake (4112226)	NRIS, Apr 2017 (SMJA051 40012)	5-Oct-2002	individuals		Shasta Trinity NF	
133	Shasta-Trinity NF	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJ A_59_0033)	11-Aug-2010	50 individuals	Logging and possibly grazing.	Shasta Trinity NF	
133	Shasta-Trinity NF	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJ A_59_0038)	28-Jun-2010	15 individuals	Logging and grazing.	Shasta Trinity NF	
133	; Hwy 89 to Rd 39N90 to 39N93.	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJ A_61_0028 F)	12-Aug-2009	20 individuals	Possible threats from logging.	Shasta Trinity NF	
134	ALONG NORTH FORK BEAR CREEK, NORTHWEST OF BIG BEAR FLAT.	Siskiyou	Pondosa (4112126)	CNDDB, May 2017 (EO 31)	26-Jun-2003	UNKNOWN NUMBER OF PLANTS OBSERVED IN 2001, 2002 & 2003. SITE QUALITY VARIABLE; NOT GIVEN IN 2003.	LOGGING, GRAZING.	PVT-Roseburg Resources Co	4150

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
135	ALONG USFS ROAD 39N04Y, EAST OF HIGHWAY 89, 1.9 MILES NW OF DEAD HORSE SUMMIT, SHASTA-TRINITY NATIONAL FOREST.	Siskiyou	Dead Horse Summit (4112127)	CNDDB, May 2017 (EO 132)	12-Aug-2009	5 PLANTS OBSERVED IN 2009.	POSSIBLY THREATENED BY LOGGING.	Shasta Trinity NF	4440
135	; Hwy 89 to Rd 42N04. South of 39N04.	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJA_61_0028G)	12-Aug-2009	5 individuals		Shasta Trinity NF	
136	;	Trinity	Tangle Blue Lake (4112226)	NRIS, Apr 2017 (0514_SMJA_56_0031)	13-Jun-2009	2 individuals	Timber harvest (unknown response).	Shasta Trinity NF	
137	Shasta-Trinity NF	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJA_59_0032)	11-Aug-2010	300 individuals	Logging.	Shasta Trinity NF	0
137	Shasta-Trinity NF	Siskiyou	Dead Horse Summit (4112127)	NRIS, Apr 2017 (0514_SMJA_59_0034)	31-Aug-2010	100 individuals	Logging, thinning.	Shasta Trinity NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
137	ALONG MCCLOUD RIVER BETWEEN CURTIS MEADOWS AND MOUTH OF COW CREEK, ABOUT 1/2 MILE WEST OF HIGHWAY 89, SHASTA-TRINITY NF.	Siskiyou	Dead Horse Summit (4112127)	CNDDB, May 2017 (EO 131)	31-Aug-2010	APPROXIMATELY 400 PLANTS OBSERVED IN 2010.	POSSIBLY THREATENED BY LOGGING AND THINNING ACTIVITIES.	Shasta Trinity NF	4000
138	JUST NORTH OF SAWYERS BAR ROAD NEAR GARDEN GULCH TRAIL, NORTH OF NORTH FORK SALMON RIVER, KLAMATH MOUNTAINS.	Siskiyou	Sawyers Bar (4112332)	CNDDB, May 2017 (EO 143)	15-Jun-2011	APPROXIMATELY 20 PLANTS OBSERVED IN 2011 BETWEEN THIS OCCURRENCE AND OCCURRENCE #142 COMBINED. ONLY PORTIONS OF THIS AREA WERE SURVEYED. THESE TWO OCCURRENCES MAY ACTUALLY BE CONTIGUOUS. USFS POPULATION #SMJA-5-20.	PLANTS ARE NEAR AN OLD ROAD/TRAIL BETWEEN TWO THINNING UNITS. POSSIBLY THREATENED BY FUTURE USE OF THE ROAD.	Klamath NF	2100

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
138	Garden Gulch Trail/Cronan Gulch; From Sawyer's Bar rd and 40N51: turn onto 40N51 and immediately turn left (straight) onto short 4WD spur that goes N up to old landing. Park at landing and follow non-system road up along creek. Or drive up ""Garden Gulch	Siskiyou	Sawyers Bar (4112332)	NRIS, Oct 2016 (0505_54_SMJA-5-20)	23-May-2011	20 individuals	Old road/trail near plants, but they are still resprouting. Possible threats are that they are between 2 little cronan thin units, the road may be used, but there would only be minimal effects due to riparian protections. Found after input to project giv	Klamath NF	
139	ALONG SOUTH RUSSIAN CREEK, ABOUT 1 MILE SE OF CONFLUENCE WITH NORTH FORK SALMON RIVER, KLAMATH NATIONAL FOREST.	Siskiyou	Tanners Peak (4112331)	CNDDB, May 2017 (EO 7)	17-Aug-2008	7 PLANTS OBSERVED IN 2008. A 1928 KILDALE COLLECTION FROM ""NEAR HEAD OF NORTH FORK OF SALMON RIVER AT FINLEYS UPPER CAMP"" IS ALSO ATTRIBUTED HERE. USFS POPULATION #SMJA-5-19.	POSSIBLY THREATENED BY LOGGING, MINING, AND CANOPY DISTURBANCE.	Klamath NF	2800
139	South Russian Creek;	Siskiyou	Tanners Peak (4112331)	NRIS, Oct 2016 (0505_54_SMJA-5-19)	17-Aug-2008	individuals		Klamath NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
140	ALONG GARDEN GULCH TRAIL, 0.6 MILE NW OF SAWYERS BAR ROAD, NORTH OF NORTH FORK SALMON RIVER, KLAMATH MOUNTAINS.	Siskiyou	Sawyers Bar (4112332)	CNDDB, May 2017 (EO 142)	15-Jun-2011	APPROXIMATELY 20 PLANTS OBSERVED IN 2011 BETWEEN THIS OCCURRENCE AND OCCURRENCE #143 COMBINED. ONLY PORTIONS OF THIS AREA WERE SURVEYED. THESE TWO OCCURRENCES MAY ACTUALLY BE CONTIGUOUS. USFS POPULATION #SMJA-5-20.	PLANTS ARE NEAR AN OLD ROAD/TRAIL BETWEEN TWO THINNING UNITS. POSSIBLY THREATENED BY FUTURE USE OF THE ROAD.	Klamath NF	2450
141	EAST OF LITTLE NORTH FORK TRAIL, VICINITY OF NORTH FORK SALMON RIVER, ~0.4 MILE NORTH OF LITTLE NORTH FORK CAMPGROUND.	Siskiyou	Sawyers Bar (4112332)	CNDDB, May 2017 (EO 8)	23-Jun-2011	APPROX 25 PLANTS OBSERVED AT SOUTHERN POLYGON AND APPROX 15 PLANTS OBSERVED AT NORTHERN POLYGON IN 2003. APPROX 10 PLANTS FOUND IN NORTHERN POLYGON IN 2011, BUT THE SOUTHERN POPULATION COULD NOT BE RELOCATED. USFS POPULATION #SMJA-5-1A, B.	THE SOUTHERN POPULATION MAY HAVE BEEN AFFECTED BY THINNING ACTIVITIES.	Klamath NF	2300

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
141	Little North Fork trail at Garden Gulch; Follow original site report to LNF trail. Walk out old trail for 0.6 miles (GPS'd) to fork. Take left Fork throught recent thin/burn unit, along old ditch. Trail follows ditch across flat and around into creek (Ga	Siskiyou	Sawyers Bar (4112332)	NRIS, Oct 2016 (0505_54_SMJA-5-1)	16-Jul-2003	individuals	The 1A population was within/adjacent to a thin and handpile unit. It may have been impacted by logging/burning.	Klamath NF	
142	NE OF LITTLE NORTH FORK TRAILHEAD, 1/4 MILE WEST OF THE MOUTH OF SPECIMEN CREEK, MARBLE MOUNTAINS.	Siskiyou	Sawyers Bar (4112332)	CNDDB, May 2017 (EO 141)	5-Aug-2003	2 PLANTS OBSERVED IN 2003. USFS POPULATION #SMJA-5-2.		Klamath NF	2500
142	Little North Fork just above Specimen burn ;	Siskiyou	Sawyers Bar (4112332)	NRIS, Oct 2016 (0505_54_SMJA-5-2)	5-Aug-2003	individuals		Klamath NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
143	OUTLET OF ENGLISH LAKE, MARBLE MOUNTAIN WILDERNESS, KLAMATH NATIONAL FOREST.	Siskiyou	English Peak (4112342)	CNDDB, May 2017 (EO 9)	1-Aug-1969	OCCURRENCE KNOWN FROM TWO OETTINGER COLLECTIONS: IN 1968 FROM "HIGH LAKE BASIN IN THE VICINITY OF ENGLISH PEAK" AT 6000 FEET, AND IN 1969 FROM "NEAR STREAM BELOW ENGLISH LAKE" AT 5950 FEET.		Klamath NF	5950
144	OUTLET OF ABBOTT LAKE, MARBLE MOUNTAIN WILDERNESS, KLAMATH NATIONAL FOREST.	Siskiyou	English Peak (4112342)	CNDDB, May 2017 (EO 10)	5-Aug-1969	OCCURRENCE KNOWN FROM TWO OETTINGER COLLECTIONS: IN 1968 FROM "OUTLET OF ABBOTT'S LAKE" AT 5650 FEET, AND IN 1969 FROM "TRAIL FROM ENGLISH LAKE TO ABBOTT'S" AT 5500 FEET.		Klamath NF	5650
145	0.8 MILE NW OF ABBOTT LAKE, NW SIDE OF NORTH FORK SALMON RIVER, MARBLE MOUNTAIN WILDERNESS.	Siskiyou	English Peak (4112342)	CNDDB, May 2017 (EO 145)	18-Aug-2010	10 PLANTS OBSERVED IN 2010.	POSSIBLY THREATENED BY TRAIL USE AND WILDFIRE.	Klamath NF	5490

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
146	0.7 MILE NORTH OF ABBOTT LAKE, NW SIDE OF NORTH FORK SALMON RIVER, MARBLE MOUNTAIN WILDERNESS.	Siskiyou	English Peak (4112342)	CNDDB, May 2017 (EO 144)	18-Aug-2010	100 PLANTS OBSERVED IN 2010.	POSSIBLY THREATENED BY TRAIL USE AND WILDFIRE.	Klamath NF	4970
147	BETWEEN 1 AND 2 MILES WEST ON TRAIL FROM KIDDER LAKE TRAILHEAD.	Siskiyou	Boulder Peak (4112351)	CNDDB, May 2017 (EO 77)	7-Sep-2004		TRAVELERS GETTING OFF TRAIL, COWS GRAZING IN ALDER PATCH.	Klamath NF	4600
148	JUST OVER 1/4 MILE WEST ON TRAIL FROM KIDDER LAKE TRAILHEAD.	Siskiyou	Boulder Peak (4112351)	CNDDB, May 2017 (EO 78)	3-Oct-2004		POSSIBLE TRAMPLING FROM TRAIL TRAVELERS.	Klamath NF	4570
148	Kidder Lake trail;	Siskiyou	Boulder Peak (4112351)	NRIS, Oct 2016 (0505_55_SMJA-5-12)	3-Oct-2004	individuals		Klamath NF	
148	Kidder Lake trail;	Siskiyou	Boulder Peak (4112351)	NRIS, Oct 2016 (0505_55_SMJA-5-13)	7-Sep-2004	individuals		Klamath NF	
148	Kidder Lake trail;	Siskiyou	Boulder Peak (4112351)	NRIS, Oct 2016 (0505_55_SMJA-5-14)	7-Sep-2004	individuals		Klamath NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
148	Kidder Lake trail;	Siskiyou	Boulder Peak (4112351)	NRIS, Oct 2016 (0505_55_SMJA-5-15)	7-Sep-2004	individuals		Klamath NF	
148	Kidder Lake trail;	Siskiyou	Boulder Peak (4112351)	NRIS, Oct 2016 (0505_55_SMJA-5-16)	7-Sep-2004	individuals		Klamath NF	
148	Kidder Lake trail;	Siskiyou	Boulder Peak (4112351)	NRIS, Oct 2016 (0505_55_SMJA-5-14)	22-Aug-2012	individuals		Klamath NF	
148	Kidder Lake trail;	Siskiyou	Boulder Peak (4112351)	NRIS, Oct 2016 (0505_55_SMJA-5-14)	22-Aug-2012	individuals		Klamath NF	
148	Kidder Lake trail;	Siskiyou	Boulder Peak (4112351)	NRIS, Oct 2016 (0505_55_SMJA-5-15)	22-Aug-2012	individuals		Klamath NF	
148	Kidder Lake trail;	Siskiyou	Boulder Peak (4112351)	NRIS, Oct 2016 (0505_55_SMJA-5-15)	22-Aug-2012	individuals		Klamath NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
148	Kidder Lake trail;	Siskiyou	Boulder Peak (4112351)	NRIS, Oct 2016 (0505_55_ SMJA-5-15)	22-Aug-2012	individuals		Klamath NF	
149	ALONG PACIFIC CREST TRAIL, 0.4 AIR MILE WSW OF JEWEL LAKE, WEST OF SUMMIT LAKE, MARBLE MOUNTAIN WILDERNESS.	Siskiyou	Marble Mountain (4112352)	CNDDB, May 2017 (EO 147)	27-Aug-2010	25 PLANTS OBSERVED IN 2010.	POSSIBLY THREATENED BY SLIDES AND WILDFIRES.	Klamath NF	6480
150	ABOUT 2 MILES ON TRAIL FROM SHACKLEFORD TRAILHEAD AT THE END OF USFS ROAD 43N21. SHACKLEFORD CREEK.	Siskiyou	Boulder Peak (4112351)	CNDDB, May 2017 (EO 76)	15-Jul-2004	FEW SCATTERED PLANTS AT ALL COLONIES IN 2004.	POSSIBLE TRAIL MAINTENANCE OR TRAIL TRAVELERS.	Klamath NF	5400
150	Shackleford trail;	Siskiyou	Boulder Peak (4112351)	NRIS, Oct 2016 (0505_55_ SMJA-5-3)	15-Jul-2004	individuals		Klamath NF	
150	Calf Lake trail;	Siskiyou	Boulder Peak (4112351)	NRIS, Oct 2016 (0505_55_ SMJA-5-4)	15-Jul-2004	individuals		Klamath NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
151	ABOUT 1 ROAD MILE NORTH ON RED ROCK VALLEY TRAIL FROM JUNCTION WITH PACIFIC CREST TRAIL. 0.9 MILE ENE OF SHADOW LAKE.	Siskiyou	Marble Mountain (4112352)	CNDDB, May 2017 (EO 84)	31-Jul-2004	SCATTERED PLANTS IN 2004.	TRAVELERS GETTING OFF TRAIL AND TRAMPLING PLANTS.	Klamath NF	5080
151	Red Rock Valley;	Siskiyou	Marble Mountain (4112352)	NRIS, Oct 2016 (0505_55_SMJA-5-8)	31-Jul-2004	individuals		Klamath NF	
152	Klamath NF	Siskiyou	Chimney Rock (4112356)	NRIS, Feb 2017 (0510_SMJA_510169002)	31-Jul-2003	100 individuals		Six Rivers NF	
153	ON RED ROCK VALLEY TRAIL JUST SOUTH OF JUNCTION WITH LITTLE ELK LAKE TRAIL, ABOUT 0.7 AIR MILE WEST OF LITTLE ELK LAKE.	Siskiyou	Marble Mountain (4112352)	CNDDB, May 2017 (EO 82)	31-Jul-2004		TRAVELERS GETTING OFF TRAIL AND TRAMPLING PLANTS.	Klamath NF	5080
153	Red Rock Valley;	Siskiyou	Marble Mountain (4112352)	NRIS, Oct 2016 (0505_55_SMJA-5-7)	31-Jul-2004	individuals		Klamath NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
154	ON RED ROCK VALLEY TRAIL, ~2.25 ROAD MILES S OF JUNCTION WITH CANYON CREEK TRAIL. ~0.7 AIR MILE NW OF LITTLE ELK LAKE.	Siskiyou	Marble Mountain (4112352)	CNDDB, May 2017 (EO 81)	31-Jul-2004	SCATTERED PLANTS IN 2004.	TRAVELERS GETTING OFF TRAIL AND TRAMPLING PLANTS.	Klamath NF	5080
154	Red Rock Valley;	Siskiyou	Marble Mountain (4112352)	NRIS, Oct 2016 (0505_55_SMJA-5-6)	31-Jul-2004	individuals		Klamath NF	
155	JUST NORTH AND WEST OF LITTLE ELK LAKE, EAST OF RED ROCK VALLEY, MARBLE MOUNTAIN WILDERNESS.	Siskiyou	Marble Mountain (4112352)	CNDDB, May 2017 (EO 83)	11-Oct-2012	PLANTS OBSERVED IN 2004 IN THE SOUTHERN COLONY AND IN 2012 IN THE TWO NORTHERN COLONIES. POPULATION SIZES ARE UNKNOWN, BUT APPEAR LARGE. USFS POPULATION #SMJA-5-9, 10, 25, & 26.	PORTIONS OF OCCURRENCE MAY BE THREATENED BY FOOT TRAMPLING, BUT MOST OF THIS OCCURRENCE IS SECURE.	Klamath NF	5400
155	Little Elk Lake;	Siskiyou	Marble Mountain (4112352)	NRIS, Oct 2016 (0505_55_SMJA-5-10)	12-Jul-2004	individuals		Klamath NF	
155	Little Elk Lake;	Siskiyou	Marble Mountain (4112352)	NRIS, Oct 2016 (0505_55_SMJA-5-9)	22-Sep-2004	individuals		Klamath NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
155	; From the Lover's Camp TH, hike to Little Elk Lake. the population is located down an unmapped trail that leads to a cabin. This trail parallels the creek coming out of the lake on the W side of the creek. Population is about 0.2 miles from the main tra	Siskiyou	Marble Mountain (4112352)	NRIS, Oct 2016 (0505_55_ SMJA-5-26)	11-Oct-2012	individuals		Klamath NF	
155	; From the Lover's Camp TH hike to Little Elk Lake. The population is located near the North side of the lake just before the trail crosses the creek.	Siskiyou	Marble Mountain (4112352)	NRIS, Oct 2016 (0505_55_ SMJA-5-25)	11-Oct-2012	individuals		Klamath NF	
156	NE OF GRANITE MEADOW, ALONG TRAIL WEST OF BLUE GRANITE LAKE AND NORTH OF GOLD GRANITE LAKE, MARBLE MOUNTAIN WILDERNESS.	Siskiyou	Ukonom Lake (4112353)	CNDDB, May 2017 (EO 148)	13-Aug-2010	15 PLANTS OBSERVED IN 2010.	THREATENED BY FOOT TRAFFIC AND POSSIBLE GRAZING/ STOCK IMPACTS.	Klamath NF	5400

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
157	ALONG CANYON CREEK TRAIL, 2.8 TO 3.4 MILES SW OF LOVERS CAMP TRAIL, N OF SKY HIGH VALLEY, MARBLE MOUNTAIN WILDERNESS.	Siskiyou	Marble Mountain (4112352)	CNDDB, May 2017 (EO 11)	11-Aug-2011	200 PLANTS OBSERVED IN CENTER POLYGON IN 2010. A 200 SQUARE FT COLONY WAS OBSERVED AT NORTH POLYGON AND APPROXIMATELY 60 PLANTS WERE OBSERVED AT SOUTH POLYGON IN 2011. VAGUE 1901 CHANDLER COLLECTION FROM ""NEAR MARBLE MTN"" ATTRIBUTED HERE.	POSSIBLY THREATENED BY TRAIL MAINTENANCE, GRAZING, AND WILDFIRES.	Klamath NF	4800
157	Canyon Creek Trail; From the Lover's Camp TH, hike approx. 3.4 miles on the Canyon Crk Trail that leads to the Sky High and Frying Pan lakes. The plants are distributed on both sides of the trail for about 20 ft.	Siskiyou	Marble Mountain (4112352)	NRIS, Oct 2016 (0505_55_SMJA-5-21)	11-Aug-2011	60 individuals		Klamath NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
157	Canyon Creek Trail; From the Lover's Camp TH hike about 2.8 miles on the Canyon Creek Trail that leads to the Sky High and Frying Pan lakes. THe plants are distributed on both sides of the trail for about 10 ft.	Siskiyou	Marble Mountain (4112352)	NRIS, Oct 2016 (0505_55_ SMJA-5-22)	11-Aug-2011	50 individuals	The traffic from the trail does not seem to be affecting the population. Trail widening or maintenance work could affect population. There is a cattle allotment in this area, but no grazing is occuring within the population.	Klamath NF	
158	ALONG RED ROCK VALLEY TRAIL, ABOUT 1.75 MILES SOUTH OF JUNCTION WITH CANYON CREEK TRAIL, MARBLE MOUNTAIN WILDERNESS.	Siskiyou	Marble Mountain (4112352)	CNDDB, May 2017 (EO 80)	11-Aug-2011	A POPULATION OF SCATTERED PLANTS WAS OBSERVED HERE IN BOTH 2004 AND 2011. 2011 SURVEY FORM INDICATES THAT THE POPULATION LIKELY CONTINUES FURTHER UP THIS DRAINAGE, BEYOND THE EDGE OF THE SURVEYED AREA.	POSSIBLY THREATENED BY TRAMPLING FROM OFF-TRAIL HIKERS.	Klamath NF	4800
158	Red Rock Valley;	Siskiyou	Marble Mountain (4112352)	NRIS, Oct 2016 (0505_55_ SMJA-5-5)	11-Aug-2011	150 individuals		Klamath NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
159	ALONG CANYON CREEK TRAIL, 2.1 MILES SE OF TRAIL HEAD AT LOVERS CAMP, MARBLE MOUNTAIN WILDERNESS.	Siskiyou	Marble Mountain (4112352)	CNDDB, May 2017 (EO 146)	11-Aug-2011	A ROBUST, HEALTHY POPULATION WAS OBSERVED IN 2011 CONTAINING AT LEAST 30 PLANTS, BUT THIS MAY NOT HAVE BEEN A COUNT OF ALL OF THE POPULATION. USFS POPULATION #SMJA-5-23.	POSSIBLY THREATENED BY TRAIL MAINTENANCE. CATTLE NOTED IN THE AREA BUT NO GRAZING IMPACT WAS NOTED AT THE SITE.	Klamath NF	4560
159	Canyon Creek Trail; From the Lover's Camp TH, hike about 2.1 miles on the Canyon Creek Trail that leads to the Sky High and Frying Pan lakes. The plants are distributed on both sides of the trail for about 20 feet.	Siskiyou	Marble Mountain (4112352)	NRIS, Oct 2016 (0505_55_SMJA-5-23)	11-Aug-2011	40 individuals	Trail work or widening could affect this population. Cattle allotment does not appear to be affecting the population, no grazing evidence within the population.	Klamath NF	
160	ALONG CANYON CREEK TRAIL, 0.6 TO 1.0 MILE SW OF LOVERS CAMP, NEAR CANYON CREEK, MARBLE MOUNTAIN WILDERNESS.	Siskiyou	Marble Mountain (4112352)	CNDDB, May 2017 (EO 79)	11-Aug-2011	SCATTERED PLANTS"" OBSERVED IN NE POLYGON IN 2004. 1000 PLANTS OBSERVED IN 2010 AND A ""VERY ROBUST AND HEALTHY POPULATION"" FOUND IN SW POLYGON IN 2011. USFS POPULATION #SMJA-5-11 & 24.	POSSIBLY THREATENED BY TRAIL MAINTENANCE, FOOT TRAMPLING, AND WILDFIRES.	Klamath NF	4400

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
160	Canyon Creek Trail; From the Lover's Camp TH hike approx 1 mile on the Canyon Creek trail that leads to Sky high and Frying pan lakes. The plants are distributed on both sides of the trail for about 50 feet.	Siskiyou	Marble Mountain (4112352)	NRIS, Oct 2016 (0505_55_SMJA-5-24)	11-Aug-2011	100 individuals	Trail work could affect this population. The cattle allotment does not appear to be affecting this population, there is no evidence of grazing within the population.	Klamath NF	
161	ELK VALLEY NEAR HEAD OF BLUE CREEK, EAST OF CHIMNEY ROCK, SIX RIVERS NATIONAL FOREST.	Del Norte	Chimney Rock (4112356)	CNDDB, May 2017 (EO 13)	28-May-1996	500 PLANTS ESTIMATED IN 1995. UNKNOWN NUMBER OF PLANTS OBSERVED IN 1996. 1950 COLLECTION BY TRACY (#19168 UC) ATTRIBUTED TO THIS SITE (DIRECTIONS MATCH).	ROAD SHOULD NOT EXTEND ANY FARTHER NORTH. MANY DEAD SNAGS TO THE NORTH MAY ENCOURAGE SALVAGE LOGGING ONSITE.	Six Rivers NF	4300
161	Six Rivers NF	Del Norte	Chimney Rock (4112356)	NRIS, Feb 2017 (0510_SMJA_510160004)	31-Aug-1995	500 individuals		Six Rivers NF	
161	Six Rivers NF	Del Norte	Chimney Rock (4112356)	NRIS, Feb 2017 (0510_SMJA_510169001)	31-Jul-2003	50 individuals		Six Rivers NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
162	QUARTZ VALLEY.	Siskiyou	Greenview (4112258)	CNDDB, May 2017 (EO 34)	6-Jun-1910	ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1910 COLLECTION BY BUTLER (#1466 UC). NEEDS FIELDWORK.		Unknown	
163	NEAR SPRING ALONG SOUTH SIDE OF BUCKI CAMP RIDGE NORTH OF CHIMNEY ROCK, SIX RIVERS NATIONAL FOREST.	Del Norte	Chimney Rock (4112356)	CNDDB, May 2017 (EO 12)	28-May-1996	100 STEMS ESTIMATED IN 1995, ESTIMATED NUMBER OF INDIVIDUALS IS A FRACTION OF THIS NUMBER.		Six Rivers NF	5100
163	Six Rivers NF	Del Norte	Chimney Rock (4112356)	NRIS, Feb 2017 (510160002)	31-Aug-1995	100 individuals		Six Rivers NF	
164	Six Rivers NF	Del Norte	Chimney Rock (4112356)	NRIS, Feb 2017 (510160002)	30-Jul-2003	0 individuals		Six Rivers NF	
165	0.1 MILE NE OF TURK LAKE, NW OF KELSEY CREEK, MARBLE MOUNTAIN WILDERNESS.	Siskiyou	Grider Valley (4112362)	CNDDB, May 2017 (EO 149)	15-Jul-2010	OVER 20 PLANTS WERE OBSERVED IN 2010; PLANTS ARE WIDELY SCATTERED AND POPULATION MAY BE MORE EXTENSIVE. USFS POPULATION #SMJA-5-18.	GRAZING OCCURS IN THE AREA BUT NO GRAZING IMPACT WAS NOTED AT THIS SITE.	Klamath NF	5850

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
166	ON KELSEY CREEK TRAIL, ABOUT 1.75 ROAD MILES FROM JUNCTION WITH PARADISE LAKE TRAIL, 0.7 AIR MILE NE OF TURK LAKE.	Siskiyou	Grider Valley (4112362)	CNDDB, May 2017 (EO 85)	28-Jul-2004	SCATTERED, DENSELY-LEAFED PLANTS IN 2004.		Klamath NF	5642
166	Kelsey Creek trail;	Siskiyou	Grider Valley (4112362)	NRIS, Oct 2016 (0505_55_SMJA-5-17)	28-Jul-2004	individuals		Klamath NF	

Distribution on National Forest System (NFS) Lands:

(Please see Reference column of Locations table above for references pertaining to Record Numbers indicated on NFS lands.)

National Forest System (NFS) lands	Record #s (from Locations table above)	CNDDB EOs	Non-CNDDB Records	Recent (seen in past 20 yrs.)	Historic (not seen in past 20 yrs.)	Most Recent Obs.	EOs/ Recs. (5 mile buffer)	Total Records on NFS lands
Angeles:	-	-	-	-	-	-	-	0
Cleveland:	-	-	-	-	-	-	-	0
Eldorado:	-	-	-	-	-	-	-	0
Inyo:	-	-	-	-	-	-	-	0
Klamath:	123, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 153, 154, 155, 156, 157, 158, 159, 160, 165, 166	25	-	23	2	11-Oct-2012	20	25
Lake Tahoe Basin MU:	-	-	-	-	-	-	-	0
Lassen:	-	-	-	-	-	-	10	0
Los Padres:	-	-	-	-	-	-	-	0
Mendocino:	-	-	-	-	-	-	-	0
Modoc:	-	-	-	-	-	-	-	0
Plumas:	-	-	-	-	-	-	-	0
San Bernardino:	-	-	-	-	-	-	-	0
Sequoia:	-	-	-	-	-	-	-	0
Shasta-Trinity:	2, 3, 4, 5, 6, 7, 8, 11, 12, 14, 20, 26, 27, 28, 32, 33, 39, 40, 52, 53, 54, 56, 58, 65, 76, 80, 96, 101, 104, 108, 109, 112, 113, 117, 118, 124, 125, 127, 129,	39	7	39	7	26-Jun-2015	87	46

National Forest System (NFS) lands	Record #s (from Locations table above)	CNDDB EOs	Non-CNDDB Records	Recent (seen in past 20 yrs.)	Historic (not seen in past 20 yrs.)	Most Recent Obs.	EOs/ Recs. (5 mile buffer)	Total Records on NFS lands
	130, 131, 132, 133, 135, 136, 137							
Sierra:	-	-	-	-	-	-	-	0
Six Rivers:	152, 161, 163, 164	2	2	2	2	31-Jul-2003	3	4
Stanislaus:	-	-	-	-	-	-	-	0
Tahoe:	-	-	-	-	-	-	-	0
Totals:	N/A	66	9	64	11	N/A	120	75

Demographic and Population Trends: Total number of occurrences of this species were estimated using GIS tools and methods described by Green and Sims (2018). As of 2016, *Smilax jamesii* was known from approximately 158 element occurrences located throughout Del Norte, Shasta, Siskiyou, and Trinity counties (Green et al. 2016; CNDDB 2017). Additional records from NRIS (2017) bring the total number of estimated occurrences up to 166. At least ten of the total occurrences in the CNDDB are considered historical (occurrences not seen in the past 20 years are considered historical by the CNDDB), with one of the historical occurrences being over 50 years old and one other occurrence having an unknown sighting date. Although all of the occurrences are presumed to be extant, the oldest occurrence, from 1910 (EO 34), should be sought after and assessed in order to determine its current status. Of the 148 recent occurrences, a total of 63 are currently ranked as either "excellent" or "good" (A or B), while 71 of the recent occurrences are ranked either "fair" or "poor" (C or D) by CNDDB (2017). A total of 24 occurrences in the CNDDB have an unknown occurrence rank.

The population sizes of *Smilax jamesii* are fairly well estimated, with data available for 120 of the occurrences. More than a third (44) of these occurrences have population counts/estimates of 50 individuals or more, with 22 occurrences estimated to have over 100 individuals. Based on the available CNDDB data, the total number of known individuals of *S. jamesii* in California is estimated to be over 9,500 (CNDDB 2017). It should be noted that the growth form of *S. jamesii* may make it difficult to estimate numbers of intact individuals. *Smilax jamesii* has a "vine growth habit originating from rhizomes: making estimate of number of individuals inexact," suggesting that "occurrences with 'very few' 'individuals' are likely to be viable (at some sites, a 'single' genet might cover a large area)" (Taylor, D. pers. comm. 2016).

Life History: *Smilax jamesii* is an herbaceous vine that blooms from May through July, and less commonly from August through October (CNPS 2018). Plants are characterized as monocotyledonous, dioecious, and rhizomatous vines with a monopodial growth pattern of herbaceous stems that give rise to alternate cordate-truncate leaves and tendrils formed from enlarged stipules (Holmes 2003; McNeal 2018; Stevens 2001). Insects are typically observed visiting flowers on plants in the genus *Smilax*. Documented visitors on plants in the genus *Smilax*

include mosquitos, bees (*Apis* spp., *Augochlora* spp., *Coelioxys* spp., and *Xylocopa* spp.), flies, and moths (CPC 2018; Kevan et al. 1991).

Diversity: *Smilax jamesii* is one of more than 200 (up to 260–Mabberley [2017]) species in the globally distributed genus *Smilax*. Some sources report over 350 species, but work in recent time has determined that as many as 40% of these are synonyms (Qi et al. 2013). *Smilax* is the only representative of the monogeneric family Smilacaceae, which represents a lineage within Liliales that is sister to Liliaceae (Stevens 2001).

Striking biogeographic patterns have been revealed by insights from molecular phylogenetic studies in recent decades. Several clades are composed of taxa with intercontinental disjunctions that are considered the result of long distance dispersal events (Qi et al. 2013). The Klamath Ranges (KR) and Cascade Ranges (CaR) bioregions of northern California are home to two disjunct species of *Smilax*, each with partially overlapping distributions (McNeal 2018). The more common *S. californica* is a member of *Smilax* sect. *Smilax* and is nested within a robust and strongly supported eastern North American clade. In contrast, *S. jamesii* is a member of *Smilax* sect. *Nemexia* and is nested within a separate eastern North American subclade within a larger Old World clade. In other words, California representatives of the genus *Smilax* are part of separate and well defined lineages that appear to have colonized habitat in northern California independent of one another (Qi et al. 2013).

Habitat: *Smilax jamesii* is known from streambanks, lake margins, alder thickets, mesic depressions, broadleaf upland forest, lower and upper montane coniferous forests, North Coast coniferous forests, marshes, and swamps (CNPS 2018). The original description of *S. jamesii* describes it as being associated with lake-side and stream-side alder thickets, and slopes with bracken fern (Wallace 1979). Plants associated with CNDDB element occurrences are documented growing alongside *Abies concolor, A. magnifica, Acer circinatum, A. macrophyllum, Adenocaulon bicolor, Alnus incana, A. rhombifolia, Amelanchier alnifolia, Angelica arguta, Arbutus menziesii, Asarum caudatum, Berberis nervosa, Calocedrus decurrens, Circaea alpina, Cornus nuttallii, Corylus cornuta, Elymus glaucus, Equisetum hyemale, Glyceria elata, Goodyera oblongifolia, Hieracium albiflorum, Linnaea borealis, Maianthemum stellatum, Notholithocarpus densiflorus, Philadelphus lewisii, Pinus attenuata, P. lambertiana, P. ponderosa, Prunella vulgaris, Pseudotsuga menziesii, Pteridium aquilinum, Quercus chrysolepis, Q. kelloggii, Q. vacciniifolia, Rhamnus purshiana, Rhododendron occidentalis, Rosa gymnocarpa, Rubus laciniatus, R. leucodermis, Salix* sp., *Sambucus racemosa, Stachys ajugoides, Symphoricarpos albus*, and *Taxus brevifolia* (CNDDB 2017).

Habitat Status or Trend: Many occurrences are restricted to the Klamath Mountains. Some occurrences are found in forest openings that behave as microsites for species requiring varying intensities of light. Significant changes to the size and spatial characteristics of openings within forests of the Klamath Mountains of California have taken place over the last century (Skinner 1995). In one study, loss of open space between trees was consistent with a drop in shrub cover and diversity. Researchers documented spatial and structural homogenization and a resulting decline in complex habitat features within the study forest. Such features are linked to forest resilience to disturbance and stressors such as fire, insects, and drought (Lydersen et al. 2013).

Capacity for the Species to Disperse: All plants in the genus *Smilax* develop berries. *Smilax jamesii* produces a dark blue berry (McNeal 2018). Birds are known consumers and dispersers of berries of certain *Smilax* species. European warblers (*Sylvia* sp.) are noteworthy dispersers of the red-berried *S. aspera* (Herrera 1981). The genus *Smilax* occurs worldwide. *Smilax jamesii* is nested within a subclade of eastern North America taxa that are all within an Old World clade. Long distance dispersal is a plausible explanation for biogeographic patterns of this nature (Qi et al. 2013).

Threats: More than half of all element occurrences of *S. jamesii* in the CNDDB (2016) are noted to be threatened by direct and indirect impacts of timber harvest activities, including: road construction, road maintenance, slope disturbance and erosion. Possible threats to *S. jamesii* are grazing, trampling, foot traffic, recreational use, improper burning regimes, surface water diversion, non-native plant impacts, and ORV activity (CNDDB 2016; Green et al. 2016).

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Author(s) and Date:

Steven Serkanic, Assistant Rare Plant Botanist, California Native Plant Society, (916) 447-2677 x218, sserkanic@cnps.org;

Aaron E. Sims, Rare Plant Botanist, California Native Plant Society, (916) 324-3816, asims@cnps.org. July 23, 2018.

Reviewer(s) and Date:

David Magney, Rare Plant Program Manager, California Native Plant Society, (916) 447-2677 ext. 205, dmagney@cnps.org. July 23, 2018.

Julie Ann Kierstead, USDA Forest Service Region 5 Ecosystem Planning, 8 December 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.

Additional Considerations at the Forest Level: Habitat amount and juxtaposition of both the species and habitat locations.