Plant Species Evaluation Form

Iliamna latibracteata Wiggins

CALIFORNIA GLOBE MALLOW

Family: Malvaceae (CNPS 2018) | **PLANTS Symbol:** ILLA2 (USDA 2018) | **Calif. Endemic:** No (CNPS 2018)

Synonyms/Other Names: No other synonyms or names have been applied to this taxon (Tropicos 2018).

Identification Issues: Three species of *Iliamna* are represented in the *Jepson eFlora*. A single species, *I. rivularis*, was included by mistake based on misidentification. The two remaining species have non-overlapping distributions in northern California. *Iliamna bakeri* has a distribution that is south and east of the distribution of *I. latibracteata*, which is restricted to northwest California and southwest Oregon. *Iliamna latibracteata* is largely distinguished by its upper leaves that are 5-7 lobed, as opposed to the upper leaves of *I. bakeri* that are three-lobed (Slotta 2018).

Taxonomy:

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Species In Genus: 8 species: North America. Etymology: (coined by E.L. Greene, derivation uncertain, perhaps Greek, meaning Trojan; or named after Lake Iliamna in Alaska; or after Illinois and Indiana, where 1 sp. is endemic).

Genus Description – Habit: Perennial herb [subshrub], stellate-hairy; caudex woody. Stem: generally > 1, 0.6--2 m, branched. Leaf: stipules inconspicuous, persistent or not; blade generally 3--7 lobed, base wedge-shaped, truncate, or cordate. Inflorescence: spike- or raceme-like, flowers 1 in lower leaf axils, 2--5 in upper leaf axils, leaves reduced above; bractlets 3, free, linear to lanceolate, +- persistent. Flower: showy; calyx 5-lobed, divided 1/2, stellate-hairy to +- glabrous; petals 5, pale lavender to rose-purple, pink, or white; filament tube with anthers in upper 1/3--1/2; styles generally 6--15, stigmas generally oblique-squared, often +- elongate. Fruit:generally > calyx; oblong; segments generally 6--15, generally 10--15 mm, 6--10 mm wide, beaked or not, attached to fruit axis by strong fiber, +- dehiscent to base, bristly, sides thin, smooth, glabrous. Seed: generally 2--4 per segment, reniform, glabrous to puberulent.

Species Description – Habit: Plant 1--2 m. Leaf: petiole 5--14 cm; blade 10--15 cm, 10--15 cm wide, 5--7-lobed, coarsely serrate, abaxially densely short-stellate-hairy, adaxially +- glabrous, base truncate to cordate. Inflorescence: bractlets 10--14 mm; flowering stalks < 5 mm. Flower: sepals 8--10 mm, coarsely hairy; corolla 4--6 cm wide, rose-purple. Fruit: 10--20 mm. Seed: 2--4 per segment. eFlora Treatment Author: Tracey Slotta.

Status:

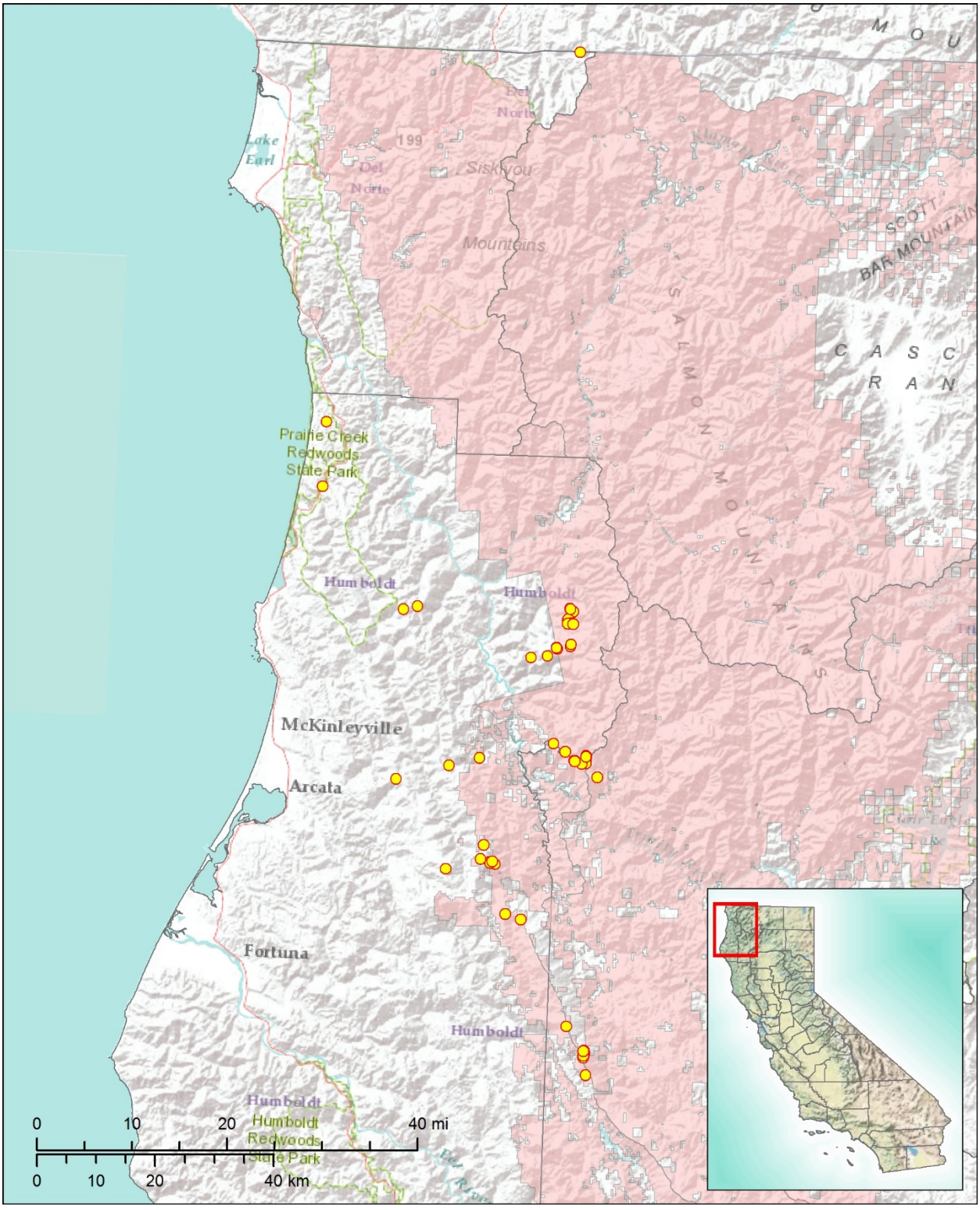
Note: Federally recognized Endangered, Threatened, Proposed, or Candidate species under the Endangered Species Act are omitted as they do not meet the definition of a Species of Conservation Concern (FSH 1909.12 § 12.52).

State Listing	G-rank	S-rank	CRPR	R5 FSS	NFP SM	CA BLM
CA: Not listed NV: Not listed OR: Not listed	G2G3	CA: S2 NV: Not listed OR: S2	1B.2	Sensitive	Not listed	Not listed

SWAP:	NNHP:	NNPS:	ORBIC:	OCS:	IUCN:
Not listed	Not listed	Not listed	1: Threatened or Endangered Throughout Range	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).

Distribution: Western North America – restricted to northwest California and southwest Oregon. Occurrences within California are found in Del Norte, Humboldt, and Trinity counties in the North Coast (NCo), Klamath Ranges (KR), and the High Cascade Ranges (CaRH) bioregions. A majority (21/32; ~66%) of occurrences are found on NFS lands within Six Rivers NF (19/21; ~90%) and Shasta-Trinity NF (2/21; ~10%) (CNDDB 2017; NRIS 2017; Slotta 2018).



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	ALONG FOREST ROAD 1N35, APPROXIMATELY 0.6 AIR MILE NORTHWEST OF LAMB GAP, SOUTH FORK MOUNTAIN.	Trinity	Sportshaven (4012344)	CNDDB, May 2017 (EO 3)	1-Jul-2003	A ""DRIVE BY OBSERVATION""; UNKNOWN NUMBER SEEN IN 2002. SITE REVISITED IN 2012 BUT NO PLANTS SEEN; HEAVY BRUSH AT SITE LOCATION.	IN 2003, CENTAUREA DIFFUSA ABUNDANT; TIMBER HARVEST. IN 2012, HEAVY BRUSH AT LOCATION.	Six Rivers NF	4200
1	Six Rivers NF	Trinity	Sportshaven (4012344)	NRIS, Feb 2017 (0510ILLA2_54_WEEDSURVEY03_01)	1-Jul-2003	1 individuals		Six Rivers NF	
1	Six Rivers NF	Trinity	Sportshaven (4012344)	NRIS, Feb 2017 (0510ILLA2_54_WEEDSURVEY03_01)	2-Aug-2012	individuals		Six Rivers NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
2	250 FEET BELOW (EAST OF) FOREST ROAD 4N12, 0.15 MI NORTHWEST OF BUCK SPRING, SOUTH FORK MOUNTAIN.	Trinity	Sportshaven (4012344)	CNDDB, May 2017 (EO 1)	18-Jul-2001	1 INDIVIDUAL OBSERVED IN 2001.	LIVESTOCK GRAZING IN AREA SURROUNDING THE PLANT. TIMBER PRODUCTION A POSSIBLE THREAT.	Shasta Trinity NF; Six Rivers NF	5150
2	ALONG FOREST ROAD 1N20, JUST WEST OF FOREST FOAD 1N19 (SOUTH FORK MOUNTAIN ROAD), APPROX 0.25 MI SSW OF BUCK SPRING.	Trinity	Sportshaven (4012344)	CNDDB, May 2017 (EO 2)	30-Aug-2003	OVER 25 PLANTS OBSERVED IN 2001; 308 PLANTS OBSERVED IN 2003.	GRAZING A SERIOUS THREAT. ALSO LOGGING, HUNTING, RECREATION, AND COMPETITION FROM CENTAUREA DIFFUSA (REMOVED 2001).	Shasta Trinity NF	5430
2	Red Fir TS Unit 76-77; On both sides of road 4N12 below Buck Spring.	Trinity	Sportshaven (4012344)	NRIS, Apr 2017 (0514_ILLA 2_52_0003)	28-Sep-2010	19 individuals		Shasta Trinity NF	
2	Red Fir TS Unit 79;	Trinity	Sportshaven (4012344)	NRIS, Apr 2017 (0514_ILLA 2_52_0001)	28-Sep-2010	300 individuals		Shasta Trinity NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
2	Red Fir TS Unit 77; Road 4N12, Red Fir Project unit 77, NE corner, N side of spring/alder thicket in gulch, SE of large rock outcrop.	Trinity	Sportshaven (4012344)	NRIS, Apr 2017 (0514_ILLA2_52_0002)	27-Sep-2010	2 individuals		Shasta Trinity NF	
2	Red Fir TS Unit 77; 200' outside of USFS boundary, Unit 77, Red Fir Project 2010, SE portion, on SPI land.	Trinity	Sportshaven (4012344)	NRIS, Apr 2017 (0514_ILLA2_52_0004)	27-Sep-2010	1 individuals	Negative grazing effects.	Shasta Trinity NF	
2	; 250 feet below F. S. road 4N12	Trinity	Sportshaven (4012344)	NRIS, Feb 2017 (0510_ILLA2_52002)	18-Jul-2001	1 individuals		Six Rivers NF	
2	South Fork Mtn 1N20 J. Kalt site 2 S. Fk. Mtn.;	Trinity	Sportshaven (4012344)	NRIS, Feb 2017 (0510_54_ILLA2_SFKMTN03_1N20_01)	30-Aug-2003	308 individuals		Six Rivers NF	
2	Six Rivers NF	Trinity	Sportshaven (4012344)	NRIS, Feb 2017 (0510_53_ILLA2_SC005)	18-Jul-2001	308 individuals		Six Rivers NF	
2	Shasta-Trinity NF	Trinity	Sportshaven (4012344)	NRIS, Apr 2017 (ILLA05140001)	18-Jul-2001	individuals		Shasta Trinity NF	

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2	Shasta-Trinity NF	Trinity	Sportshaven (4012344)	NRIS, Apr 2017 (ILLA05140002)	18-Jul-2001	individuals		Shasta Trinity NF	
3	Six Rivers NF	Trinity	Blake Mountain (4012355)	NRIS, Feb 2017 (0510_53_ILLA2_SC004)	31-Jul-2009	100 individuals		Six Rivers NF	
4	;	Humboldt	Sims Mountain (4012365)	NRIS, Feb 2017 (0510_53_ILLA2_SC003)	19-Jul-2009	40 individuals		Six Rivers NF	
5	GROUSE CREEK SIDE (WEST SIDE) OF LAST CHANCE RIDGE; ABOUT 4 AIR MILES EAST OF BOARD CAMP BUTTE.	Humboldt	Board Camp Mtn. (4012366)	CNDDB, May 2017 (EO 4)	28-May-1905	1975 NELSON COLLECTION IS THE ONLY SOURCE FOR THIS SITE. J. KALT UNABLE TO LOCATE SITE (IN 2003?). NEEDS FIELDWORK.		Six Rivers NF	
6	SNOW CAMP, HEAD OF REDWOOD CREEK.	Humboldt	Mad River Buttes (4012367)	CNDDB, May 2017 (EO 28)	10-Aug-1930	ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1930 KILDALE COLLECTION. NEEDS FIELDWORK.		Unknown	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
7	GROUSE MOUNTAIN; FOREST ROAD 4N32, 0.25 MILE SOUTH OF INTERSECTION WITH FOREST ROAD 5N04.	Humboldt	Grouse Mtn. (4012376)	CNDDB, May 2017 (EO 27)	9-Jul-2007	SITE BASED ON A 2007 WITTE COLLECTION; UNKNOWN NUMBER OF PLANTS SEEN. 2006 MESLER COLLECTION FROM "E OF GROUSE MTN, 2.1 MI FROM NF 1, BELOW ROAD" WITH TRS OF T4N R5E SEC 6 ATTRIBUTED HERE.		Six Rivers NF	4810
8	ALONG ROADSIDE 1.1 MILES FROM NF ROAD 1, NNE OF GROUSE MOUNTAIN.	Humboldt	Grouse Mtn. (4012376)	CNDDB, May 2017 (EO 5)	19-Jun-2009	SITE BASED ON A 2006 MESLER COLLECTION; UNKNOWN NUMBER OF PLANTS SEEN. 2008 KEELAN OBSERVATION FROM ""1 MI OFF OF TITLOW HILL RD (FS 1)"" AND 2009 GREENHOUSE OBSERVATION FROM ""NE SIDE OF GROUSE MTN"" ATTRIBUTED HERE.		Six Rivers NF	5150
8	Grouse Mountain;	Humboldt	Grouse Mtn. (4012376)	NRIS, Feb 2017 (0510ILLA2_53_GROUSE07_01)	27-Oct-2007	18 individuals		Six Rivers NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
8	;	Humboldt	Grouse Mtn. (4012376)	NRIS, Feb 2017 (0510_53_ILLA2_SC002)	31-Jul-2008	33 individuals		Six Rivers NF	
8	Grouse Mountain;	Humboldt	Grouse Mtn. (4012376)	NRIS, Feb 2017 (0510ILLA2_53_GROUSE07_01)	1-Aug-2013	0 individuals		Six Rivers NF	
9	MP 14 on Titlow Hill Road;	Humboldt	Grouse Mtn. (4012376)	NRIS, Feb 2017 (0510_PVT_ILLA2_TITLOWHILLRD7_1)	27-Oct-2007	3 individuals		Six Rivers NF	
10	;	Humboldt	Grouse Mtn. (4012376)	NRIS, Feb 2017 (0510_53_ILLA2_SC001)	23-Jul-2008	130 individuals		Six Rivers NF	
11	BALD MOUNTAIN, HUMBOLDT COUNTY.	Humboldt	Lord-Ellis Summit (4012387)	CNDDB, May 2017 (EO 7)	2-Apr-1905	ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1919 FOX COLLECTION. NEEDS FIELDWORK.		UNKNOWN	
12	Happy Camp Mountain;	Trinity	Denny (4012384)	NRIS, Apr 2017 (0514_ILLA2_54_0003)	2-Aug-2006	individuals		Shasta Trinity NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
13	ON THE EASTERN TRUCK ROAD APPROXIMATELY 0.9 AIR MILE NE OF BERRY SUMMIT, 0.1 MILE NORTH OF HWY 299.	Humboldt	Lord-Ellis Summit (4012387)	CNDDB, May 2017 (EO 6)	23-Jun-2004	1 ROBUST, FLOWERING PLANT OBSERVED IN 2004. PLANT WAS NOT RELOCATED IN 2008. 1938, 1939 AND 1949 TRACY COLLECTIONS FROM "WILLOW CREEK CANYON, ALONG TRINITY HWY; ELEVATION 2500 FT" ATTRIBUTED TO THIS OCCURRENCE.	LAND IS MANAGED FOR TIMBER; UNKNOWN WHETHER PLANT WAS IMPACTED BY LOGGING OPERATIONS.	PVT-Green Diamond Resource Co	2861
14	0.4 MILE SW OF HAPPY CAMP, ON HUMBOLDT-TRINITY COUNTY LINE.	Humboldt | Trinity	Denny (4012384)	CNDDB, May 2017 (EO 22)	22-Jul-2010	1 PLANT SEEN IN 2010.	LOGGING. WITHIN PROPOSED FUEL BREAK.	Six Rivers NF	4040
14	Six Rivers NF	Humboldt	Denny (4012384)	NRIS, Feb 2017 (0510ILLA2_53_WTE10_613DJG003)	22-Jul-2010	1 individuals		Six Rivers NF	
14	Six Rivers NF	Humboldt	Denny (4012384)	NRIS, Feb 2017 (0510ILLA2_53_WTE10_613DJG003)	9-Sep-2014	2 individuals		Six Rivers NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
14	Six Rivers NF	Humboldt	Denny (4012384)	NRIS, Feb 2017 (0510ILLA2_53_WTE10_613DJG003)	12-Aug-2014	1 individuals		Six Rivers NF	
15	THREE CREEKS.	Humboldt	Willow Creek (4012386)	CNDDB, May 2017 (EO 19)		JEPSON COLLECTION CITED IN 1936 JEPSON FLORA IS THE ONLY SOURCE FOR THIS SITE. NEEDS FIELDWORK.		Unknown	
16	0.2 MILE SE OF HAPPY CAMP JUST NORTH OF THE TRINITY COUNTY LINE.	Humboldt	Denny (4012384)	CNDDB, May 2017 (EO 21)	15-Jul-2011	20+ PLANTS SEEN IN 2011.		Six Rivers NF	4270
16	Six Rivers NF	Humboldt	Denny (4012384)	NRIS, Feb 2017 (0510ILLA2_53_WTE11_613TEC009)	15-Jul-2011	20 individuals		Six Rivers NF	
16	Six Rivers NF	Humboldt	Denny (4012384)	NRIS, Feb 2017 (0510ILLA53SC006)	7-Sep-2014	2 individuals		Six Rivers NF	
16	Six Rivers NF	Humboldt	Denny (4012384)	NRIS, Feb 2017 (0510ILLA53SC006)	15-Jul-2013	35 individuals		Six Rivers NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
16	Six Rivers NF	Humboldt	Denny (4012384)	NRIS, Feb 2017 (0510ILLA2_53_WTE11_613TEC009)	9-Sep-2014	10 individuals		Six Rivers NF	
17	1 MILE WEST OF HAPPY CAMP AND 0.8 MILE NE OF ZEIGLER POINT, ALONG HUMBOLDT-TRINITY COUNTY LINE.	Humboldt | Trinity	Salyer (4012385)	CNDDB, May 2017 (EO 23)	21-Jul-2011	26 PLANTS SEEN IN 2010. 5 PLANTS SEEN IN PORTION OF SITE IN 2011.	TIMBER HARVEST AREA, WITHIN PLANNED FUEL BREAK.	Six Rivers NF	3800
17	Six Rivers NF	Trinity	Salyer (4012385)	NRIS, Feb 2017 (0510ILLA2_53_SEED_01)	3-Aug-2006	10 individuals		Six Rivers NF	
17	Six Rivers NF	Humboldt	Salyer (4012385)	NRIS, Feb 2017 (0510ILLA2_53_SEED_01)	5-Aug-2010	26 individuals		Six Rivers NF	
17	Six Rivers NF	Humboldt	9/9/2014 1:34:53 PM+L109	NRIS, Feb 2017 (0510ILLA2_53_WTE11_613DMD001)	12-Aug-2014	0 individuals+L109		Six Rivers NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
17	Six Rivers NF	Humboldt	Salyer (4012385)	NRIS, Feb 2017 (0510ILLA2_53_WTE11_613DMD001)	21-Jul-2011	5 individuals		Six Rivers NF	
17	Six Rivers NF	Humboldt	Salyer (4012385)	NRIS, Feb 2017 (0510ILLA2_53_SEED_01)	12-Aug-2014	20 individuals		Six Rivers NF	
18	FERN CREEK 0.5 MILE NE OF HAPPY CAMP AND 0.25 MILE WEST OF TRINITY COUNTY LINE.	Humboldt	Denny (4012384)	CNDDB, May 2017 (EO 20)	10-Oct-2013	600 PLANTS ESTIMATED IN 2010. 4 PLANTS SEEN IN PORTIONS OF SITE IN 2013.	WITHIN SITE OF PREVIOUS TIMBER HARVEST. AREA BRUSHED DURING FIRE SUPPRESSION.	Six Rivers NF	4135
18	Six Rivers NF	Humboldt	Denny (4012384)	NRIS, Feb 2017 (0510ILLA2_53_WTE10_600CLS001)	10-Aug-2010	600 individuals		Six Rivers NF	
18	Six Rivers NF	Humboldt	Denny (4012384)	NRIS, Feb 2017 (0510ILLA2_53_WTE10_600CLS002)	10-Oct-2013	1 individuals		Six Rivers NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
18	Six Rivers NF	Humboldt	Denny (4012384)	NRIS, Feb 2017 (0510ILLA2_53_WTE10_600CLS002)	9-Sep-2014	0 individuals		Six Rivers NF	
18	Six Rivers NF	Humboldt	Denny (4012384)	NRIS, Feb 2017 (0510ILLA2_53_INC13_SG001)	9-Sep-2014	20 individuals		Six Rivers NF	
18	Six Rivers NF	Humboldt	Denny (4012384)	NRIS, Feb 2017 (0510ILLA2_53_INC13_SG001)	10-Oct-2013	3 individuals		Six Rivers NF	
18	Six Rivers NF	Humboldt	Denny (4012384)	NRIS, Feb 2017 (0510ILLA2_53_WTE10_600CLS001)	9-Sep-2014	16 individuals		Six Rivers NF	
19	Six Rivers NF	Humboldt	Salyer (4012385)	NRIS, Feb 2017 (0510ILLA2_53_WAT09_300_JDM001)	16-Jul-2009	16 individuals		Six Rivers NF	
19	Six Rivers NF	Humboldt	Salyer (4012385)	NRIS, Feb 2017 (0510ILLA2_53_WAT09_300_JDM001)	12-Aug-2014	0 individuals		Six Rivers NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
20	RIDGE WEST OF CEDAR CREEK, ABOUT 5 MILES EAST OF WILLOW CREEK, ALONG HUMBOLDT-TRINITY COUNTY LINE.	Humboldt | Trinity	Salyer (4012385)	CNDDB, May 2017 (EO 24)	5-Aug-2008	5 PLANTS SEEN IN 2008. 1957 HAGAR COLLECTION FROM "CEDAR CREEK DIVIDE, 5.5 MI EAST OF WILLOW CREEK, 3500 FEET" ATTRIBUTED TO THIS SITE.		Six Rivers NF	3280
20	Six Rivers NF	Humboldt	Salyer (4012385)	NRIS, Feb 2017 (0510_ILLA2_53_LTTA_MM80_JN01)	15-Jul-2009	5 individuals		Six Rivers NF	
20	Six Rivers NF	Trinity	Salyer (4012385)	NRIS, Feb 2017 (0510_ILLA2_53_LTTA_MM80_JN01)	12-Aug-2014	72 individuals		Six Rivers NF	
21	HOSTLER CREEK, APPROX 0.5 AIR MI SOUTH OF BIG HILL ROAD; 1.6 AIR MI SW OF MUD SPRINGS; HOOPA VALLEY INDIAN RESERVATION.	Humboldt	Tish Tang Point (4112315)	CNDDB, May 2017 (EO 9)	24-Sep-2003	ONE INDIVIDUAL OBSERVED IN 2003. LAND OWNED BY HOOPA TRIBAL FORESTRY.	LOGGED RECENTLY/ CLEARCUT (PAST 10 YEARS, 1990S).	BIA-Hoopa Valley Res	3000

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
22	0.4 MI SOUTH OF BOWMAN SPRING; SOUTH OF BIG HILL ROAD, HOOPA VALLEY INDIAN RESERVATION.	Humboldt	Tish Tang Point (4112315)	CNDDB, May 2017 (EO 10)	24-Sep-2003	ONE INDIVIDUAL OBSERVED IN 2003. LAND OWNED BY HOOPA TRIBAL FORESTRY.	LOGGED RECENTLY/ CLEARCUT (PAST 10 YEARS, 1990S).	BIA-Hoopa Valley Res	4375
23	BIG HILL LOOKOUT ROAD 1 MILE EAST OF BOWMAN SPRING, AT RESERVATION BORDER NEAR NORTH TRINITY MOUNTAIN.	Humboldt	Tish Tang Point (4112315)	CNDDB, May 2017 (EO 25)	22-Jul-2010	ABOUT 12 PLANTS SEEN IN 2010. WAYMAN COLLECTION FROM SAME DATE AND LOCATION ATTRIBUTED HERE.		Six Rivers NF	4700
23	;	Humboldt	Tish Tang Point (4112315)	NRIS, Feb 2017 (0510_ILLA_53_INC_KAW186)	22-Jul-2010	12 individuals		Six Rivers NF	
23	;	Humboldt	Tish Tang Point (4112315)	NRIS, Feb 2017 (0510_ILLA_53_INC_KAW186)	26-Aug-2014	259 individuals		Six Rivers NF	
24	NEAR BEAR HOLE TRIALHEAD (CROGAN HOLE TRAIL?); 2.5 AIR MILES NORTH OF TISH TANG POINT.	Humboldt	Tish Tang Point (4112315)	CNDDB, May 2017 (EO 11)	23-Jun-1905	NEEDS FIELDWORK.	LOGGING.	Six Rivers NF	4649

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
24	Six Rivers NF	Humboldt	Tish Tang Point (4112315)	NRIS, Feb 2017 (0510ILLA2_53_TISHTANGSLID_01)	24-Sep-2008	27 individuals		Six Rivers NF	
24	Six Rivers NF	Humboldt	Tish Tang Point (4112315)	NRIS, Feb 2017 (0510ILLA2_53_TISHTANGSLID_01)	26-Aug-2014	20 individuals		Six Rivers NF	
25	ALONG FOREST ROAD 10N02, 0.3-0.9 MI WEST FROM CROSSING MIDDLE FORK MILL CREEK; SOUTH SLOPE OF HORSE TRAIL RIDGE.	Humboldt	Hopkins Butte (4112325)	CNDDB, May 2017 (EO 14)	11-Aug-2003	240 TOTAL INDIVIDUALS OBSERVED AT 4 COLONIES IN 2003.	MANY PLANTS HEAVILY DAMAGED BY BEETLES. LOGGING AND RECREATION-AL USES IN AREA.	Six Rivers NF	4500
25	Six Rivers NF	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (510269003)	1-Nov-2000	100 individuals		Six Rivers NF	
25	Six Rivers NF	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (510269003)	18-Sep-2008	193 individuals		Six Rivers NF	
25	Six Rivers NF	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (510269003)	26-Aug-2014	6 individuals		Six Rivers NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
25	Six Rivers NF	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510ILLA2_51_MEAGRAM_02)	1-Jul-2001	15 individuals		Six Rivers NF	
25	Six Rivers NF	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510ILLA2_53_MEAGRAM_03)	26-Jun-2001	13 individuals		Six Rivers NF	
25	Six Rivers NF	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510ILLA2_53_MEAGRAM_03)	15-Oct-2008	48 individuals		Six Rivers NF	
25	Six Rivers NF	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510ILLA2_53_MEAGRAM_01)	18-Sep-2008	122 individuals		Six Rivers NF	
25	Six Rivers NF	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510ILLA2_51_MEAGRAM_02)	18-Sep-2008	41 individuals		Six Rivers NF	
25	Horse Trail Ridge;	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510ILLA2_53_MEAGRAM_06)	6-Aug-2007	65 individuals		Six Rivers NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
25	Six Rivers NF	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510ILLA2_53_MEAGRAM_03)	26-Aug-2014	39 individuals		Six Rivers NF	
25	Six Rivers NF	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510ILLA2_51_MEAGRAM_02)	26-Aug-2014	60 individuals		Six Rivers NF	
25	Horse Trail Ridge;	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510ILLA2_53_MEAGRAM_06)	26-Aug-2014	72 individuals		Six Rivers NF	
25	Six Rivers NF	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510ILLA2_53_MEAGRAM_01)	26-Aug-2014	27 individuals		Six Rivers NF	
26	SOUTH OF BALD HILLS ROAD AND 0.56 MILE NNW OF COYOTE PEAK, REDWOOD NATIONAL AND STATE PARK.	Humboldt	French Camp Ridge (4112327)	CNDDB, May 2017 (EO 26)	3-Jul-1905	2 PLANTS SEEN IN 2010 AND 2011.	GRAZING. FISH LINE INSTALLED IN 2011 FOR GRAZING PREVENTION.	NPS-Redwood NP	2880
27	FRENCH CAMP, BALD HILLS ROAD.	Humboldt	French Camp Ridge (4112327)	CNDDB, May 2017 (EO 15)	28-May-1905	1975 NELSON COLLECTION IS THE ONLY SOURCE FOR THIS SITE. NEEDS FIELDWORK.		Unknown	3000

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
28	ALONG FOREST ROAD 10N02, ON SOUTH SLOPE OF HORSE TRAIL RIDGE.	Humboldt	Hopkins Butte (4112325)	CNDDB, May 2017 (EO 13)	3-Aug-2003	26 PLANTS OBSERVED IN 2003.	GRAZING BY DEER, POTENTIAL LOGGING, RECREATION-AL USES IN AREA.	Six Rivers NF	5100
28	Six Rivers NF	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510_53_ILLA2_MEAGRAM_04)	26-Jun-2001	1000 individuals		Six Rivers NF	
29	ALONG FOREST ROAD 10N02, ON NORTH SLOPE OF HORSE TRAIL RIDGE.	Humboldt	Hopkins Butte (4112325)	CNDDB, May 2017 (EO 12)	3-Aug-2003	3 PLANTS OBSERVED IN 2003.	GRAZING BY DEER, POTENTIAL LOGGING, RECREATION-AL USES IN AREA.	Six Rivers NF	4860
29	Horse Trail Ridge;	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510ILLA2_53_MEAGRAM_05)	15-Oct-2008	104 individuals		Six Rivers NF	
29	Horse Trail Ridge;	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510ILLA2_53_MEAGRAM_05)	11-Aug-2003	3 individuals		Six Rivers NF	
29	Horse Trail Ridge;	Humboldt	Hopkins Butte (4112325)	NRIS, Feb 2017 (0510ILLA2_53_MEAGRAM_05)	26-Aug-2014	30 individuals		Six Rivers NF	

Rec. #	Locality	County	Quad	Reference (Source)	Date Last Observed	Population Info	Threats	Land Manager	Elev. (ft.)
30	DAVIDSONS RANCH ON PRAIRIE CREEK, ALONG REDWOOD HIGHWAY (HWY 101) 3 MILES NORTH OF ORICK.	Humboldt	Orick (4112431)	CNDDB, May 2017 (EO 17)	11-Sep-1937	SITE BASED ON 1931, 1934 & 1937 WOLF COLLECTIONS. 1899 DUDLEY & 1926 KILDALE COLLECTIONS FROM "PRAIRIE CREEK NEAR DAVIDSON'S" AND ANOTHER 1926 KILDALE COLLECTION FROM "ORICK - 2 MI NORTH" ALSO ATTRIBUTED TO THIS SITE. NEEDS FIELDWORK.		Unknown	200
31	ALONG PRAIRIE CREEK; APPROX 8.0 MI NORTH OF ORICK, PRAIRIE CREEK REDWOODS STATE PARK.	Humboldt	Fern Canyon (4112441)	CNDDB, May 2017 (EO 18)	12-Jun-1926	1926 TRACY COLLECTION IS THE ONLY SOURCE FOR THIS SITE. NEEDS FIELDWORK.		DPR-Prairie Creek Redwoods SP	500
32	ALONG FOREST ROAD 4810, JUST SOUTH OF THE OREGON BORDER; APPROX 0.9 AIR MI NORTHWEST OF LORETTA FALLS.	Del Norte	Polar Bear Mtn. (4112385)	CNDDB, May 2017 (EO 16)	12-Aug-1998	2 INDIVIDUALS OBSERVED IN 1998.		USFS-Rogue River-Siskiyou NF	4600

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:	-	-	-	-	-	-	1	0
Lake Tahoe Basin MU:	-	-	-	-	-	-	-	0
Lassen:	-	-	-	-	-	-	-	0
Los Padres:	-	-	-	-	-	-	-	0
Mendocino:	-	-	-	-	-	-	-	0
Modoc:	-	-	-	-	-	-	-	0
Plumas:	-	-	-	-	-	-	-	0
San Bernardino:	-	-	-	-	-	-	-	0
Sequoia:	-	-	-	-	-	-	-	0
Shasta-Trinity:	2,12	1	1	2	-	28-Sep-2010	15	2
Sierra:	-	-	-	-	-	-	-	0
Six Rivers:	1, 3, 4, 5, 7, 8, 9, 10, 14, 16, 17, 18, 19, 20, 23, 24, 25, 28, 29	14	5	18	1	9-Sep-2014	7	19
Stanislaus:	-	-	-	-	-	-	-	0
Tahoe:	-	-	-	-	-	-	-	0
Totals:	N/A	15	6	20	1	N/A	23	21

Demographic and Population Trends: Total number of occurrences for this taxon were estimated using GIS tools and methods described by Green and Sims (2018). Population count and size estimate data are available for a majority of California occurrences (21/32; ~66%). Under one-third of occurrences (6/21; ~29%) were observed to have ten plants or less. Over one-third of occurrences (8/21; ~38%) were estimated to have between 11 and 99 plants. Remaining occurrences (7/21; ~33%) are reported to have over 100 plants. One occurrence was estimated to have 1,000 individual plants (CNDDB 2017; NRIS 2017). Under one-tenth (2/27; ~7%) of all element occurrences are in Excellent (A) condition. Almost one-fifth (5/27; ~19%) of element

occurrences are in Good (B) condition. Remaining element occurrences are in Fair (C) (5/27; ~19%), Poor (D) (1/27; 4%), or Unknown (U) (14/27; ~52%) condition (CNDDB 2018).

Life History: Robust (1-2 m) herbaceous perennial to subshrub with stems that emerge from a woody caudex (Slotta 2018). *Iliamna latibracteata* blooms from June through August (CNPS 2018). Oligolectic bee species in the genus *Diadasia* specialize on plants in the genus *Iliamna* (Sipes and Tepedino 2005). *Iliamna bakeri* and *I. latibracteata* are closely related, have adjacent distributions in northern California, and considerable overlap in floral characteristics (Slotta 2000; Tate et al. 2005; Slotta 2018). The oligolectic bee *D. nitidifrons* has a specialized relationship with *I. bakeri*, collecting substantially more pollen than generalist bee species that visit *I. bakeri* flowers (Tepedino et al. 2016). Each species of *Iliamna* resprouts after disturbance and fire. Dense stands are sometimes formed after these events (Bates 2016).

Diversity: Malvaceae is a large group of 5,100 species divided into nine subfamilies. Within subfamily Malvoideae (incl. *Hibiscus, Abutilon, Sphaeralcea, Gossypium, Thespia*, and others), the genus *Iliamna* represents a group of taxa within the tribe Malveae, alongside the familiar genera *Alcea, Callianthe, Sida, Malva, Malacothamnus, Abutilon,* and *Sidalcea* (Mabberly 2017; Tate et al. 2005). Early phylogenetic work based on ITS sequence data examining relationships among species within the genus *Iliamna* demonstrated that samples of *I. bakeri* and *I. latibracteata* are in a distinct clade separate from core *Iliamna* (Slotta 2000). Later work using ITS, based on more inclusive sampling within tribe Malveae, demonstrated that the branch representing *I. bakeri* and *I. latibracteata* is sister to the subclade encompassing *Eremalche* and *Sidalcea*, all within a clade alongside *Calyculogygas, Madiola*, and *Malvastrum* (Tate et al. 2005). Core *Iliamna* is sister to *Malacothamnus* and *Phymosia* (Slotta 2004).

Habitat: Montane chaparral, upper and lower montane coniferous forest, mesic conditions in North Coast coniferous forest, and riparian scrub habitat along streambanks. Plants are often associated with burned areas (CNPS 2018). Element occurrences are documented in association with alder thickets, burned clear-cuts in conifer forests, shrub-fields, roadsides in conifer forests, seepage areas, openings in a redwood forest, south-facing slopes, shaded north-facing slopes, and a coastal prairie oak stand. These element occurrences report *I. latibracteata* growing alongside *Abies concolor, A. magnifica, Alnus* sp., *Arbutus menziesii, Arctostaphylos* sp., *Arrhenatherum eliatus, Calocedrus decurrens, Ceanothus cordulatus, C. incanus, C. velutinus, Cypripedium fasciculatum, Hackelia bella, Holodiscus discolor, Notholithocarpus densiflorus, Oemleria cerasiformis, Pleuropogon refractus, Prunus emarginata, Pseudotsuga menziesii, Quercus* sp., *Q. garryana, Ribes lobbii, R. roezlii, R. sanguineum, Rubus leucodermis, R. parviflorus, Sambucus nigra, Sequoia sempervirens*, and *Symphoricarpos mollis* (CNDDB 2018).

Habitat Status or Trend: Occurrences are often associated with forest openings (Hoover et al. pers. comm. 2017). Fire suppression impacts forested habitat of this kind. Forest openings 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 during the last one-hundred years (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: Short distance seed dispersal via wind and gravity is reported for the sister species *I. bakeri* (Malaby 2005; Slotta 2000).

Threats: According to Hoover et al. (pers. comm. 2017), *Iliamna latibracteata* is threatened by fire suppression and vegetation encroachment, livestock grazing and trampling, other herbivory, and road maintenance. Records included in the CNDDB (2018) indicate logging as a threat or possible threat to 13 occurrences (nearly half of the included 27 occurrences), grazing by cattle or deer as a threat to 5 occurrences, recreational uses at 4 occurrences, fire suppression activities (including population being brushed for fire suppression) at 3 occurrences, and competition from *Centaurea diffusa* at 2 occurrences, which was removed from EO 2 in 2001, and is reported to be abundant at EO 3. The CNPS (2018) Inventory, indicates fire suppression and grazing as possible threats to *Iliamna latibracteata*.

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Julie Ann Kierstead, USDA Forest Service Region 5 Ecosystem Planning; 9 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.