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Revised Botanical Survey Report Dimitrov Project

Prepared by Kevin Landaw And Kelsey McDonald 9/5/2019

Revised July 2020 by Kelsey McDonald and Claire Brown (707)798-6386 cb_brown@nrmcorp.com Natural Resources Management Corporation 1434 Third Street, Eureka, CA 95501

For Hohman and Associates Hydesville, CA

Signature: KelseyMcDanald

Date: 9/5/2019

Revision July 2020

On June 19th, 2020, botanist Claire Brown visited the site of the *Tracyina rostrata* population reported below, on Humboldt County APN 210-044-017. This visit was intended as a monitoring visit, as well as one of personal interest to Claire as an opportunity to see this very rare species. There are only eight CNDDB occurrences of *Tracyina rostrata* recorded from Humboldt County, only two of which have been seen more recently than 1988. Furthermore, all eight of these occurrences are from the Jewett Rock, Alderpoint and Fort Seward USGS 7.5' Quadrangles, which are 10 miles south of the occurrence reported below.

Location data from the report below, as well as the flagging hung in the field by Kelsey and Kevin were used to locate the population on APN 210-044-017. However, no plants identifiable as *Tracyina rostrata* were found. Instead, Claire found a robust population (of hundreds of individuals) of an annual plant in the family Asteraceae that is identifiable to the genus *Crepis* but does not key out to or exactly match any species of *Crepis* described in The Jepson Manual (Baldwin et.al 2012) or in the eFlora of North America (eFNA 2020). The closest match is the species *Crepis pulchra*, of Eurasian origin, which is not yet included in these identification resources but has 10 records from Napa, Solano, and Contra Costa Counties listed in the Consortium of California Herbaria (CCH) (CCH1 2020). These plants, unlike *Tracyina rostrata*, have liguliflorous heads and distinctly keeled phyllaries.

Claire communicated these results to Kelsey Macdonald in late June 2020. Via these communications, Kelsey was able to determine that the plants Claire found are the same species identified as *Tracyina rostrata* in the report below. Therefore, the previously reported rare plant findings are redacted here in this revised report, and the *Tracyina rostrata* occurrence reported to CNDDB in 2019 will also be redacted.

A detailed description of the *Crepis* species found as well as additional photographs are found in Revised Attachment G, at the end of this document. Several specimens were pressed. Claire will keep one available at the NRM office in Eureka for inquiry, and others will be submitted to the UC Davis Center for Plant Diversity and the California Department of Food and Agriculture Botany Lab and Herbarium for accession and further identification.



Photo of 2019 Specimen (from report below)



Photo of 2020 Specimen (June 19, 2020)

Setting

The Dimitrov Cannabis Cultivation Project is located in Section 35 and 36, Township 1 North, Range 5 East, Section 1 and 2, Township 1 South, Range 5 East and Section 31, Township 1 North, Range 6 East, and Section Township 1 South, Range 6 East HB&M; Humboldt County, on the Iaqua Buttes USGS 7.5' quadrangle. The project area is located in Dinsmore CA, off Buck Mountain Road 6 miles from Highway 36. The biogeographic region can be described using a three-tiered hierarchy of province, region and sub-region. This site lies within the California Floristic Province, Northwestern California region, and North Coast subregion. The area is about 136 acres and the elevation ranges from ~3,700 -4,200 feet. The area contains open grasslands dominated by native and non-native grasses, oak woodland, and some mixed coniferous forest. Slopes on the property are gentle to moderate, and the aspect is primarily south-facing.

Methods

Kelsey McDonald and Kevin Landaw conducted the botanical surveys for the Dimitrov NTMP on May 22, July 14, and July 19. Kelsey is a CNPS Certified Consulting Botanist, and she holds a M.S. in Natural Resources with a concentration in Environmental Science from Humboldt State University. Kelsey has taken relevant courses including conservation biology, ornithology, ecology, plant taxonomy, field botany, and plant biology. She has 5 years of botany and wildlife experience in Northern California. Kevin holds a B.S. in Botany from Humboldt State University, where he is currently a graduate student. Kevin has taken relevant courses including ecology, plant taxonomy, and plant biology.

The surveys were floristic in nature and seasonally appropriate, with an initial survey conducted during the spring to catch early-blooming species and a follow-up survey during the summer for later-blooming species. Approximately 31.5 field hours were spent on surveys. Surveys included systematic assessment of all potential habitats in the area based on maps, aerial photos, and visible environmental features such as canopy cover, slope, soil texture, aspect, hydrologic features, and associated vegetation. This survey protocol is based on the Protocol for Surveying and Evaluating Impacts to Special Status native Plant Populations and Natural Communities (CDFW 2018). A list of potential rare plants on CNPS lists 1 and 2 found within the 9-quad area as listed in CDFW BIOS and CNPS Inventory of Rare and Endangered Plants is available in Attachment A. Attachment B provides details on potential rare plants. Attachment C. lists all plants identified from botanical surveys. Attachment D contains a map of the botanical survey routes. Attachment E contains habitat photos of the area. Attachment F contains rare plant rank definitions.

Results

The property is composed of two parcels. The southern parcel (Fig.1) is larger and contains swaths of grassland (Fig. 3) interspersed by patches of oak woodland. The grassland contains both native and non-native grasses and is dominated by hedgehog dogtail grass (*Cynosurus echinatus*), ripgut grass (*Bromus diandrus*), blue wild rye (*Elymus glaucus*), California fescue (*Festuca californica*), and seaside barley (*Hordeum marinum*). Oregon white oak (*Quercus garryana*) woodlands (G4 S3) with an understory of California fescue (*Festuca californica*) occurred on the property. APN 210-144-011 contained an area where ~35 Oregon white oaks were recently cleared around the cultivation area (Photo 6). Diverse oak woodlands dominated by California black oak (*Quercus kelloggii*) (G4 S4) was also widespread on the property. The northern, smaller, parcel (Fig.2) is more heavily forested and is primarily covered by a mixture of Douglas fir (*Pseudotsuga menziesii*) and ponderosa pine (*Pinus ponderosa*) (G4 S4), with canyon live oak (*Quercus chrysolepis*).

During the course of the botanical survey two populations of beaked tracyina (Tracyina rostrata 1B.2) were discovered. One population was found near the border of the northern parcel (Fig. 4) and one in the southern parcel (Fig. 5). The population in the northern parcel was found growing along a disturbed roadside and former cultivation area. 90% of the individuals were in fruit, 10% in flower, with a total number of individuals at this site of ~800. The exact location of the property line was uncertain in this area. Associated species included Oregon white oak (Quercus garryana), deer brush (Ceanothus integerrimus), celery leaved lovage (Ligusticum apiifolium), oceanspray (Holodiscus discolor), blue wild rye (Elymus glaucus), gumweed (Madia gracilis), and hedgehog dogtail grass (Cynosurus echinatus). The population in the southern parcel was found in a disturbed south-facing slope in opening on the edge of mixed coniferous forest. 80% of the individuals were in fruit, 20% in flower, with a total number of individuals at this site of ~1500. Associated species included Ponderosa pine (Pinus ponderosa), Douglas fir (Pseudotsuga menziesii), black oak (Quercus kelloggii), canyon live oak (Quercus chrysolepis), Oregon white oak (Quercus garryana), gumweed (Madia gracilis), foxtail barley (Hordeum murinum), hedgehog dogtail grass (Cynosurus echinatus), California fescue (Festuca californica), blue wild rye (Elymus glaucus), sheep sorrel (Rumex acetosella), and snowberry (Symphoricarpos albus).

Beacked tracyina (*Tracyina rostrata*) was first discovered on the property on 7/14/2019. The identity of the species was confirmed and the populations were delineated on 7/19/2019. The rare plant was identified by its mostly inconspicuous ray flowers, lack of palea, annual habit, stems branched distally with branches exceeding main stem, sessile leaves, larger withered lanceolate leaves proximally, and tiny linear leaves distally. Both populations were flagged for avoidance and the landowner was asked to avoid development in these areas. The plants appeared to be thriving in disturbed areas around the greenhouse and other areas with low- to moderate-level use. For example, while the plants were not growing in the road, hundreds were growing on the side of the roads. The population is likely to continue to thrive as long as suitable habitat remains and the flagged areas are avoided. No mowing, piling of compost or other materials, or other major alterations to the habitat should occur in the flagged areas. All potential rare plant habitats around known cultivation sites were surveyed, and false negative surveys are unlikely.

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Scientific Name	Common Name	CESA	FESA	CNPS	Blooming	Potential
Anisocarpus scabridus	scabrid alpine tarplant	None	None	1B.3	(Jun)Jul- Aug(Sep)	Yes
Arctostaphylos manzanita ssp. elegans	Konocti manzanita	None	None	1B.3	(Jan)Mar- May(Jul)	Yes
Astragalus umbraticus	Bald Mountain milk- vetch	None	None	2B.3	May-Aug	Yes
Calycadenia micrantha	small-flowered calycadenia	None	None	1B.2	Jun-Sep	Yes
Carex praticola	northern meadow sedge	None	None	2B.2	May-Jul	Yes
Epilobium oreganum	Oregon fireweed	None	None	1B.2	Jun-Sep	Yes
Erigeron maniopotamicus	Mad River fleabane daisy	None	None	1B.2	May-Aug	Yes
Erythranthe trinitiensis	pink-margined monkeyflower	None	None	1B.3	Jun-Jul(Aug)	Yes
Erythronium revolutum	coast fawn lily	None	None	2B.2	Mar-Jul(Aug)	Yes
Gilia capitata ssp. pacifica	Pacific gilia	None	None	1B.2	Apr-Aug	Yes
Harmonia doris-nilesiae	Niles' harmonia	None	None	1B.1	May-Jul	Yes
Hosackia yollabolliensis	Yolla Bolly Mtns. bird's- foot trefoil	None	None	1B.2	Jun-Aug	Yes
Howellia aquatilis	water howellia	None	FT	2B.2	Jun	Yes
lliamna latibracteata	California globe mallow	None	None	1B.2	Jun-Aug	Yes

Attachment A: List of Potentially Occurring Sensitive Plant Species

Attachment B: Potential Rare Plant Details

1. Scabrid alpine tarplant (Anisocarpus scabridus)

Status: CRPR 1B: Rare or Endangered in California and elsewhere, .3 not very endangered in CA. Not federally or state listed. State rank S3: imperiled, global rank G4: apparently secure. **Family**: Asteraceae

Flowering: (Jun)Jul-Aug(Sep)

Habitat: Upper montane coniferous forest (metamorphic, rocky).

Habitat within Area: Potential habitat exists on rocky outcroppings.

2. Konocti manzanita (*Arctostaphylos manzanita ssp. elegans*)

Status: CRPR 1B: Rare or Endangered in California and elsewhere, .3 not very endangered in CA. Not federally or state listed. State rank S3: imperiled, global rank G3: vulnerable. **Family**: Ericaceae

Flowering: (Jan)Mar-May(Jul)

Habitat: Chaparral, Cismontane woodland, Lower montane coniferous forest. Habitat within Area: Potential in lower montane coniferous forest.

3. Bald mountain milk vetch (*Astragalus umbraticus*)

Status: CRPR 2B: Rare or Endangered in California, but more common elsewhere, .3 not very endangered in CA. Not federally or state listed. State rank S2: imperiled, global rank G3: vulnerable.

Family: Fabaceae

Flowering: May-Aug

Habitat: Cismontane woodland, Lower montane coniferous forest, sometimes roadside **Habitat within Area**: Potential habitat exists along roads and in disturbed wooded areas.

4. Small-flowered calycadenia (Calycadenia micrantha)

Status: CRPR 1B: Rare, threatened or endangered in California and elsewhere, .2 moderately threatened in CA. Not federally or state listed. State rank S2: imperiled, global rank G2: Imperiled .

Family: Asteraceae

Flowering: Jun-Sep

Habitat: Chaparral, Meadows and seeps (volcanic), Valley and foothill grassland. **Habitat within Area**: Potentially in open meadows.

5. Northern meadow sedge (*Carex praticola*)

Status: CRPR 2B: Rare or Endangered in California, but more common elsewhere, .2 moderately threatened in CA. No state or federal listing. State rank S2: imperiled. Global rank G5: secure.

Family: Cyperaceae

Flowering: May – July

Habitat: Meadows and seeps (mesic)

Habitat within Area: Habitat might exist in mesic areas of the property.

6. Oregon fireweed (*Epilobium oreganum*)
Status: CRPR 1B: rare, threatened, or endangered; .2 fairly endangered in CA. State rank S2: imperiled. Global rank G2: imperiled. No state or federal listing.
Family: Onagraceae
Flowering: Jun - Sept
Habitat: mesic. Bogs and fens, Lower montane coniferous forest, Meadows and seeps
Habitat within Area: Habitat might exist in mesic areas of the property.

7. Mad River fleabane daisy (*Erigeron maniopotamicus*)
Status: CRPR 1B: rare, threatened, or endangered; .2 fairly endangered in CA. State rank S2: imperiled. Global rank G2: imperiled. No state or federal listing.
Family: Asteraceae
Flowering: May-Aug
Habitat: Lower montane coniferous forest, Meadows and seeps (open, dry).
Habitat within Area: Potential habitat on NTMP in forested and wet meadows.

8. Pink-margined monkeyflower (*Erythranthe trinitiensis*)
 8. Status: CRPR 1B: rare, threatened, or endangered; .2 not very endangered in CA. State rank S2: imperiled. Global rank G2: imperiled. No state or federal listing.
 Family: Phrymaceae
 Flowering: Jun-Jul(Aug)

Habitat: Cismontane woodland, Lower montane coniferous forest, Meadows and seeps, Upper montane coniferous forest.

Habitat within Area: Potential habitat exists in both open and forested sections of the NTMP.

9. Coast fawn lily (*Erythronium revolutum*)

Status: CRPR 2B: or Endangered in California, but more common elsewhere, .2 fairly endangered in CA. No state or federal listing. State Rank S3: vulnerable. Global Rank G4: apparently secure.

Family: Liliaceae

Flowering: Mar - Aug

Habitat: Mesic, streambanks, Bogs and fens, Broadleafed upland forest, North Coast coniferous forest

Habitat within Area: Potential habitat exists in the NTMP in forested and wet areas.

10. Pacific gilia (*Gilia capitata ssp. pacifica*)
Status: CRPR 1B: rare, threatened, or endangered, .2 fairly endangered in CA. Not federally or state listed. State rank S3: vulnerable, global rank G5: secure.
Family: Polemoniaceae
Flowering: Apr-Aug
Habitat: Coastal bluff scrub, Chaparral (openings), Coastal prairie, Valley and foothill grassland.
Habitat within Area: Potential habitat in the meadows on the property.

11. Niles' harmonia (*Harmonia doris-nilesiae*)
Status: CRPR 1B: Rare or Endangered in California and elsewhere, .1 seriosly threatened in California. S2: imperiled. Global rank G2: imperiled. No state or federal listing.
Family: Asteraceae
Flowering: May-Jul
Habitat: Chaparral, Cismontane woodland, Lower montane coniferous forest
Habitat within Area: Potential habitat in the woodland and coniferous forests on the property.

12. Yolla Bolly Mtns. bird's-foot trefoil (*Hosackia yollabolliensis*)
Status: CRPR 1B: rare, threatened, or endangered, .2 fairly endangered in CA. Not federally or state listed. S2: imperiled. Global rank G2: imperiled.
Family: Fabaceae
Flowering: Jun-Aug
Habitat: Meadows and seeps, Upper montane coniferous forest (openings).
Habitat within Area: Potential habitat in forest clearings and meadows on the property.

13. Water howellia (*Howellia aquatilis*)
Status: CRPR 2B: or Endangered in California, but more common elsewhere, .2 fairly endangered in CA. No state or federal listing. S2: imperiled. Global rank G3: vulnerable.
Family: Campanulaceae
Flowering: Jun
Habitat: Marshes and swamps (freshwater).
Habitat within Area: Potential habitat in the freshwater ponds on the property.

14. California globe mallow (*Iliamna latibracteata*)
Status: CRPR 1B: rare, threatened, or endangered, .2 fairly endangered in CA. Not federally or state listed. S2: imperiled. Global rank G2: imperiled.
Family: Malvaceae
Flowering: Jun-Aug
Habitat: Often in burned areas. Chaparral (montane), Lower montane coniferous forest, North Coast coniferous forest (mesic), Riparian scrub (streambanks)
Habitat within Area: Potential habitat may exist in the area.

Attachment C. Plant Species Observed

	Species Name	Common Name	Family	Date
	Abies grandis	Grand fir	Pinaceae	5/22/2019
	Acer macrophyllum	Bigleaf maple	Sapindaceae	7/14/2019
	Alnus rhombifolia	White alder	Betulaceae	7/14/2019
	Arbutus menziesii	Madrone	Ericaceae	5/22/2019
	Calocedrus decurrens	Incense cedar	Cupressaceae	7/19/2019
es	Pinus ponderosa	Ponderosa pine	Pinaceae	5/22/2019
Tre	Populus trichocarpa	Black cottonwood	Salicaceae	7/14/2019
	Pseudotsuga menziesii	Douglas fir	Pinaceae	5/22/2019
	Quercus chrysolepis	Canyon live oak	Fagaceae	5/22/2019
	Quercus garryana	Oregon white oak	Fagaceae	5/22/2019
	Quercus kelloggii	California black oak	Fagaceae	5/22/2019
	Sequoia sempervirens (planted)	Coast redwood	Cupressaceae	5/22/2019
	Amelanchier utahensis	Western serviceberry	Rosaceae	5/22/2019
	Arctostaphylos canescens	Hoary manzanita	Ericaceae	5/22/2019
	Arctostaphylos manzanita	Whiteleaf manzanita	Ericaceae	5/22/2019
	Berberis aquifolium	Oregon grape	Berberidaceae	5/22/2019
	Ceanothus arcuatus	Arching ceanothus	Rhamnaceae	7/14/2019
	Ceanothus integerrimus	Deer brush	Rhamnaceae	5/22/2019
	Frangula californica	California coffeeberry	Rhamnaceae	5/22/2019
	Holodiscus discolor	Oceanspray	Rosaceae	7/14/2019
sqn	Phoradendron leucarpum	American mistletoe	Viscaceae	5/22/2019
Shr	Ribes sanguineum	Red flowering currant	Grossulariaceae	7/14/2019
	Rosa pisocarpa	Cluster rose	Rosaceae	5/22/2019
	Rubus leucodermis	White-stem raspberry	Rosaceae	5/22/2019
	Salix lasiolepis	Arroyo willow	Salicaceae	7/14/2019
	Salix scouleriana	Scouler willow	Salicaceae	5/22/2019
	Sambucus sp.	Elderberry	Adoxaceae	7/14/2019
	Symphoricarpos albus	Common snowberry	Caprifoliaceae	5/22/2019
	Toxicodendron diversilobum	Poison oak	Anacardiaceae	5/22/2019
	Vaccinium ovatum	Evergreen huckleberry	Ericaceae	5/22/2019
6	Achillea millefolium	Common yarrow	Asteraceae	5/22/2019
Herbaceous Plants	Achyrachaena mollis	Soft blow wives	Asteraceae	5/22/2019
	Acmispon americanus	American bird's foot trefoil	Fabaceae	5/22/2019
	Acmispon brachycarpus	Short podded lotus	Fabaceae	5/22/2019
	Agoseris retrorsa	Spear leaved agoseris	Asteraceae	5/22/2019
	Aira caryophyllea	Silver hairgrass	Poaceae	5/22/2019
	Allium hoffmanii	Beegum onion	Alliaceae	5/22/2019

Anthoxanthum odoratumSweet vernal grassPoaceae5/22/2019Anthriscus caucalisBur chevrilApiaceae5/22/2019Arnica discoideaRayless arnicaAxteraceae7/14/2019Aspidotis densaCliffbrakePteridaceae5/22/2019Athysanus pusillusCommon sandweedBrassicaceae5/22/2019Avena barbataSlender oatPoaceae5/22/2019Briza minorSmall quaking grassPoaceae7/14/2019Brodiaea elegansHarvest brodiaeaThemidaceae7/14/2019Bromus carinatusCalifornia bromePoaceae5/22/2019Bromus diardrusRipgut grassPoaceae5/22/2019Bromus bordeaceusSoft chessPoaceae5/22/2019Bromus tectorumCheatgrassPoaceae7/14/2019Calidorinia menziesiiRed maidsMontiaceae7/19/2019Calidorinia menziesiiRed maidsMontiaceae7/14/2019Calochortus tolmieiHairy star tulipLilaceae5/22/2019Calochortus tolmieiHairy star tulipConvolvulaceae5/22/2019Calystegia occidentalis ssp. occidentalisWestern morning gloryConvolvulaceae5/22/2019Cardamine oligospermaBittercressBrassicaceae5/22/2019Cardamine oligospermaBittercressBrassicaceae5/22/2019Cardwing oliga condentaleColwert strateeAsteraceae5/22/2019Carex subfuscaPale brom sedgeCyperaceae7/14/2019Carex subfus	Anisocarpus madioides	Woodland madia	Asteraceae	5/22/2019
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Croton setigerTurkey-mulleinEuphorbiaceae7/19/2019Cynoglossum grandeGiant hound's tongueBoraginaceae5/22/2019Cynosurus echinatusHedgehog dogtail grassPoaceae7/14/2019Cyperus eragrostisTall nutsedgeCyperaceae7/14/2019	Crepis sp.	Hawksbeard	Asteraceae	5/22/2019
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Cynosurus echinatusHedgehog dogtail grassPoaceae7/14/2019Cyperus eragrostisTall nutsedgeCyperaceae7/14/2019	Cynoglossum grande	Giant hound's tongue	Boraginaceae	5/22/2019
Cyperus eragrostisTall nutsedgeCyperaceae7/14/2019	Cynosurus echinatus	Hedgehog dogtail grass	Poaceae	7/14/2019
	Cyperus eragrostis	Tall nutsedge	Cyperaceae	7/14/2019
Cystopteris fragilis Bladder fern Woodsiaceae 5/22/2019	Cystopteris fragilis	Bladder fern	Woodsiaceae	5/22/2019

Dactylis glomerata	Orchard grass	Poaceae	5/22/2019
Danthonia californica	California oatgrass	Poaceae	7/14/2019
Delphinium decorum	Larkspur	Ranunculaceae	5/22/2019
Delphinium nudicaule	Canyon larkspur	Ranunculaceae	5/22/2019
Deschampsia elongata	Hairgrass	Poaceae	7/14/2019
Dichelostemma capitatum	Blue dicks	Themidaceae	5/22/2019
Dichelostemma congestum	Fork-toothed ookow	Themidaceae	7/14/2019
Dichelostemma ida-maia	Firecracker flower	Themidaceae	7/14/2019
Eleocharis macrostachya	Spike rush	Cyperaceae	7/19/2019
Eleocharis palustris	Common spikerush	Cyperaceae	7/19/2019
Elymus glaucus	Blue wild rye	Poaceae	7/14/2019
Epilobium brachycarpum	Annual fireweed	Onagraceae	7/14/2019
Epilobium ciliatum	Slender willowherb	Onagraceae	7/14/2019
Epilobium densiflorum	Willow herb	Onagraceae	7/19/2019
Epilobium foliosum	California willowherb	Onagraceae	7/19/2019
Equisetum telmateia	Giant horesetail	Equisetaceae	7/14/2019
Ericameria nauseosa	Rubber rabbitbrush	Asteraceae	7/19/2019
Eriogonum compositum	Arrowleaf buckwheat	Polygonaceae	7/19/2019
Eriogonum nudum var. nudum	Nude buckwheat	Polygonaceae	7/19/2019
Eriophyllum lanatum	Common woolly sunflower	Asteraceae	5/22/2019
Erodium botrys	Big heron bill	Geraniaceae	5/22/2019
Erodium cicutarium	Coastal heron's bill	Geraniaceae	5/22/2019
Erysimum capitatum	Western wallflower	Brassicaceae	5/22/2019
Erythranthe cardinalis	Cardinal monkey flower	Phrymaceae	7/14/2019
Erythranthe guttata	Yellow monkey flower	Phrymaceae	5/22/2019
Erythronium californicum	California fawn lilly	Liliaceae	5/22/2019
Festuca californica	California fescue	Poaceae	5/22/2019
Fragaria vesca	Woodland strawberry	Rosaceae	5/22/2019
Fritillaria affinis	Checker lily	Lilaceae	5/22/2019
Galium ambiguum	Yolla bolly bedstraw	Rubiaceae	7/19/2019
Galium aparine	Common bedstraw	Rubiaceae	5/22/2019
Gilia capitata ssp. capitata	Blue field gilia	Polemoniaceae	7/19/2019
Gnaphalium palustre	Cudweed	Asteraceae	7/14/2019
Heuchera micrantha	Alumroot	Saxifragaceae	7/14/2019
Hieracium albiflorum	White hawkweed	Asteraceae	5/22/2019
Hordeum marinum	Seaside barley	Poaceae	5/22/2019
Hordeum murinum	Foxtail barley	Poaceae	5/22/2019
Hydrophyllum occidentale	California waterleaf	Boraginaceae	5/22/2019
Hypericum perforatum	St. John's wort	Hypericaceae	5/22/2019
Juncus bufonius	Common toad rush	Juncaceae	7/19/2019
Juncus covillei	Coville's rush	Juncaceae	7/14/2019
Juncus effusus	Bog rush	Juncaceae	5/22/2019
Juncus occidentalis	Western rush	Juncaceae	5/22/2019
Juncus patens	Common rush	Juncaceae	5/22/2019
Lactuca saligna	Willow lettuce	Asteraceae	7/14/2019
Lathyrus vestitus	Common pacific pea	Fabaceae	5/22/2019

Leucanthemum vulgareOx-eye daisyAsteraceae7/14/2019Ligusticum apifoliumCelery leaved lovageAplaceae7/14/2019Linnum biennePale flaxLinnacthecee5/22/2019Linnum biennePale flaxLinacteae5/22/2019Lomatium dasycarpumHog fennelAplaceae5/22/2019Lomatium dissectumFern leaved lomatiumAplaceae5/22/2019Lomatium dissectumFern leaved lomatiumAplaceae5/22/2019Lupinus albifronsSilver bush lupineFabaceae5/22/2019Lupinus albifronsCommon wood rushJuncaceae5/22/2019Luzia comosaCommon wood rushJuncaceae5/22/2019Marah oreganaCoast man-rootCucurbitaceae5/22/2019Motiag gracilisGumweedAsteraceae7/14/2019Mochringia macrophyllaLarge leaved sandwortCaryophyllaceae5/22/2019Monatella odoratisimaDesert mintLamiaceae7/14/2019Montia fontanaWater montiaMontiaceae7/14/2019Movingteris gracillimaLace lip fernPelemoniaceae7/14/2019Navarretia intertextaNeedle leaved navarretiaBoraginaceae5/22/2019Navarretia intertextaNeedle leaved navarretiaBoraginaceae5/22/2019Navarretia intertextaNeedle leaved navarretiaBoraginaceae5/22/2019Nemophila menziesiiBaby blue eyesBoraginaceae5/22/2019Nemophila menziesiiBaby blue eyesBoraginaceae5	Leontodon saxatilis	Hawkbit	Asteraceae	5/22/2019
Ligusticum apilfoliumCelery leaved lovageApiaceae7/19/2019Linnanthes douglasii sp. niveaSnow white meadowfoamLinnanthaceae5/22/2019Linum biennePale flaxLinacreae5/22/2019Lintophragma affineCommon woodland starSaxifragaceae5/22/2019Lomatium dasycarpumHog fennelApiaceae5/22/2019Lomatium macrocarpumLarge fruited lomatiumApiaceae5/22/2019Lupinus albifronsSilver bush lupineFabaceae5/22/2019Lupinus bicolorMiniature lupineFabaceae5/22/2019Luzula comosaCommon wood rushJuncaceae5/22/2019Madia gracilisGumwedAsteraceae7/14/2019March oreganaCoast man-rootCucurbitaceae5/22/2019Modelag sativaAlfalfaFabaceae5/22/2019Moropus californicusQ-tipsAsteraceae7/14/2019Monardella dorattisimaDesert mintLanaiceae5/22/2019Monardella dorattisimaDesert mintLanaiceae5/22/2019Navarretia intertextaNeedle leaved navarretiaPolemoniaceae7/14/2019Navarretia isinstraAlva day's pincushionplantPolemoniaceae7/14/2019Nemophila parvifforaSmall flowered nemophilaBoraginaceae5/22/2019Nemophila parvifforaSmall flowered nemophilaBoraginaceae5/22/2019Navarretia sinistraAlva day's pincushionplantPolemoniaceae7/14/2019Nectorya pusillaLittle combseed <td>Leucanthemum vulgare</td> <td>Ox-eye daisy</td> <td>Asteraceae</td> <td>7/14/2019</td>	Leucanthemum vulgare	Ox-eye daisy	Asteraceae	7/14/2019
Limnanthes douglasii ssp. niveaSnow white meadowfoamLimnanthaceae5/22/2019Linum biennePale faxLinaceae7/14/2019Lindphragma affineCommon woodland starSaxifragaceae5/22/2019Lomatium disycarpumHog fennelApiaceae5/22/2019Lomatium disycarpumLarge fruited lomatiumApiaceae5/22/2019Lupinus biofronsSilver bush lupineFabaceae5/22/2019Lupinus bioforoMiniature lupineFabaceae5/22/2019Luzinus dibifronsGumweedAsteraceae7/19/2019Madia gracilisGumweedAsteraceae5/22/2019Madia gracilisGumweedAsteraceae5/22/2019Micropus californicusQ-tipsAsteraceae5/22/2019Mochringia macrophyllaLarge leaved sandwortCaryophyllaceae5/22/2019Mortia fontanaWater montiaMontiaceae5/22/2019Mortia fontanaWater montiaMontiaceae5/22/2019Mavaretia intertextaNeedle leaved navaretiaPolemoniaceae7/14/2019Navaretia intertextaSweet cicelyApiaceae5/22/2019Navaretia intertextaSweet cicelyApiaceae5/22/2019Nemophila menziesiiBaby blue eyesBoraginaceae5/22/2019Nemophila parvifforaSmall fiowered nemophilaBoraginaceae5/22/2019Nemophila parvifforaSmall fowered nemophilaBoraginaceae5/22/2019Perideridia kelloggiiYampahApiaceae7/19/2019 <tr< td=""><td>Ligusticum apiifolium</td><td>Celery leaved lovage</td><td>Apiaceae</td><td>7/19/2019</td></tr<>	Ligusticum apiifolium	Celery leaved lovage	Apiaceae	7/19/2019
Linum biennePale flaxLinaceae7/14/2019Lithophragma affineCommon woodland starSaxifragaceae5/22/2019Lomatium dissectumFern leavel lomatiumApiaceae5/22/2019Lomatium dissectumEren leavel lomatiumApiaceae5/22/2019Lomatium macrocarpumLarge fruited lomatiumApiaceae5/22/2019Lupinus albifronsSilver bush lupineFabaceae5/22/2019Lupinus bicolorMiniature lupineFabaceae5/22/2019Madia gracilisGumweedAsteraceae7/19/2019Marah oreganaCoast man-rootCucurbitaceae5/22/2019Medicago sativaAlfalfaFabaceae5/22/2019Moropus californicusQ-tipsAsteraceae7/14/2019Moehringia macrophyllaLarge leaved sandwortCaryophyllaceae5/22/2019Montaf oftanaWater montiaMontiaceae5/22/2019Mavarretia intertextaNeedle leaved navarretiaPolemoniaceae7/14/2019Navarretia intertextaNeedle leaved navarretiaPolemoniaceae7/14/2019Navarretia intertextaNeedle leaved navarretiaPolemoniaceae5/22/2019Navarretia intertextaNeedle leaved navarretiaPolemoniaceae5/22/2019Navarretia intertextaNeedle leaved navarretiaPolemoniaceae5/22/2019Nemophila menziesiiBaby blue eyesBoraginaceae5/22/2019Nemophila parvifloraSmall flowered nemophilaBoraginaceae5/22/2019Pentecrida kelloggii <td>Limnanthes douglasii ssp. nivea</td> <td>Snow white meadowfoam</td> <td>Limnanthaceae</td> <td>5/22/2019</td>	Limnanthes douglasii ssp. nivea	Snow white meadowfoam	Limnanthaceae	5/22/2019
Lithophragma affineCommon woodland starSaxifragaceae\$/22/2019Lomatium dasycarpumHog FenelApiaceae\$/22/2019Lomatium dissectumFern leaved lomatiumApiaceae\$/22/2019Lupinus dissectumLarge fruited lomatiumApiaceae\$/22/2019Lupinus bicolorMiniature lupineFabaceae\$/22/2019Luzia comosaCommon wood rushJuncaceae\$/22/2019Madia gracilisGumweedAsteraceae\$/22/2019Madia gracilisGumweedAsteraceae\$/22/2019Micropus californicusQ-tipsAsteraceae\$/22/2019Mochringia macrophyllaLarge leaved sandwortCaryophyllaceae\$/22/2019Montia fontanaWater montiaMontiaceae\$/22/2019Montia fontanaWater montiaMontiaceae\$/22/2019Navarretia intertextaNeedle leaved navarretiaPolemoniaceae7/14/2019Navarretia intertextaNeedle leaved navarretiaPolemoniaceae7/14/2019Navarretia intertextaSweet cicelyApiaceaee\$/22/2019Nemophila maripisiBaby blue eyesBoraginaceae\$/22/2019Nemophila parvifloraSmet cicelyApiaceaee7/14/2019Nemophila parvifloraSmet cicelyApiaceaee7/14/2019Nemophila parvifloraSmet cicelyApiaceaee7/14/2019Peltaca mucronataBird's foot fernPteridaceaee7/19/2019Phacelia egenaRock phaceliaBoraginaceae\$/22/2019Phac	Linum bienne	Pale flax	Linaceae	7/14/2019
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Moehringia macrophyllaLarge leaved sandwortCaryophyllaceae5/22/2019Monardella odoratissimaDesert mintLamiaceae7/14/2019Montia fontanaWater montiaMontiaceae5/22/2019Myriopteris gracillimaLace lip fernPteridaceae5/22/2019Navarretia intertextaNeedle leaved navarretiaPolemoniaceae7/14/2019Navarretia sinistraAlva day's pincushionplantPolemoniaceae7/14/2019Nemophila menziesiiBaby blue eyesBoraginaceae5/22/2019Osmorrhiza berteroiSweet cicelyApiaceae7/14/2019Pectocarya pusillaLittle combseedBoraginaceae5/22/2019Pellaea mucronataBird's foot fernPteridaceae7/19/2019Perideridia kelloggiiYampahApiaceae7/19/2019Phacelia egenaRock phaceliaBoraginaceae5/22/2019Phacelia heterophyllaVarileaf phaceliaBoraginaceae5/22/2019Phoradendron leucarpumAmerican mistletoeViscaceae5/22/2019Piperia transversaMountain piperiaOrchidaceae5/22/2019Piperia unalascensisAlaska piperiaOrchidaceae5/22/2019Plagiobothrys sp.PopcornflowerBoraginaceae5/22/2019Polygonum aviculareProstrate knotweedPolygonaceae5/22/2019Polygonum aviculareProstrate knotweedPolygonaceae5/22/2019Polygonum aviculareProstrate knotweedPolygonaceae5/22/2019Polygonium glycyrrhiza <td>Micropus californicus</td> <td>Q-tips</td> <td>Asteraceae</td> <td>7/14/2019</td>	Micropus californicus	Q-tips	Asteraceae	7/14/2019
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	Rorippa curvisiliqua	Curvepod yellow cress	Brassicaceae	7/19/2019
Rumex acetosella Common sheep sorrel Polygoniaceae 5/22/2019	Rumex acetosella	Common sheep sorrel	Polygoniaceae	5/22/2019

Rumex crispus	Curly dock	Polygonaceae	5/22/2019
Rupertia physodes	Common rupertia	Fabaceae	7/14/2019
Sanicula crassicaulis	Pacific sanicle	Apiaceae	5/22/2019
Scutellaria californica	California skullcap	Lamiaceae	7/14/2019
Sedum lanceolatum	Lance leaf stonecrop	Crassulaceae	7/19/2019
Senecio integerrimus	Lambstongue ragwort	Asteraceae	5/22/2019
Silene laciniata	California Indian pink	Caryophyllaceae	7/14/2019
Sonchus asper	Prickly sow thistle	Asteraceae	5/22/2019
Stellaria media	Chickweed	Caryophyllaceae	5/22/2019
Streptanthus tortuosus	Jewelweed	Brassicaceae	5/22/2019
Thlaspi arvense	Field pennycress	Brassicaceae	5/22/2019
Torilis arvensis	Tall sock destroyer	Apiaceae	7/14/2019
Toxicoscordion micranthum	Small flowered star lily	Melanthiaceae	5/22/2019
Tracyina rostrata (1B.2)	Beaked tracyina	Asteraceae	7/14/2019
Tragopogon dubius	Goat's beard	Asteraceae	7/14/2019
Trichostema laxum	Terpentine weed	Lamiaceae	7/14/2019
Trifolium albopurpureum	Indian clover	Fabaceae	5/22/2019
Trifolium fucatum	Bull clover	Fabaceae	5/22/2019
Trifolium oliganthum	Few flowered clover	Fabaceae	5/22/2019
Trifolium willdenovii	Tomcat clover	Fabaceae	5/22/2019
Trillium albidum	Giant white wakerobin	Melanthiaceae	5/22/2019
Triteleia hyacinthina	White brodiaea	Themidaceae	7/14/2019
Triteleia laxa	Ithuriel's spear	Themidaceae	7/19/2019
Turritis glabra	Tower rockcress	Brassicaceae	7/14/2019
Verbena lasiostachys	Western vervain	Verbenaceae	7/19/2019
Vicia americana	American vetch	Fabaceae	5/22/2019
Vicia gigantea	Giant vetch	Fabaceae	7/14/2019
Vicia sativa	Garden vetch	Fabaceae	5/22/2019
Viola glabella	Pioneer violet	Violaceae	7/14/2019
Viola purpurea	Goosefoot violet	Violaceae	5/22/2019



Attachment D. Botanical Survey Maps

Figure 1. Southern parcel.



Figure 2. Northern parcel.

Attachment E. Habitat Photos



Figure 3. Grasslands bordered by oak woodland typical of the southern parcel.



Figure 4. Large hoop houses on the edge of the grasslands on the southern property.



Figure 5. The *Tracyina rostrata* population in the northern parcel. Flags showing the extent of the population (above).



Figure 6. The large *Tracyina rostrata* population in the southern parcel.



Figure 7. Approximately 35 Oregon white oaks (*Quercus garryana*) were recently cut around the cultivation area on parcel APN 210-144-011.



Figure 8. Erosion from the dug-out stream beds and adjacent cultivation areas on APN 210-144-011 and APN 210-144-012 has the potential to negatively impact riparian plant communities and facilitate the spread of invasive plants.

Attachment F. Rank Definitions Global Conservation Status Definition

Listed below are definitions for interpreting NatureServe global (range-wide) conservation status ranks. These ranks are assigned by NatureServe scientists or by a designated lead office in the NatureServe network.

- G1 Critically Imperiled At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
- **G2** Imperiled At high risk of extinction or elimination due to very restricted range, very few populations, steep declines, or other factors.
- **G3 Vulnerable** At moderate risk of extinction or elimination due to a restricted range, relatively few populations, recent and widespread declines, or other factors.
- G4 Apparently Secure Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- G5 Secure Common; widespread and abundant.
- **G#G# Range Rank** A numeric range range (e.g. G2G3, G1G3) is used to indicate the range of uncertainty about the exact status of a taxon or ecosystem type. Ranges cannot skip more than two ranks (e.g., GU should be used rather than G1G4).

Infraspecific Taxon Conservation Status Ranks

T# Infraspecific Taxon (trimonial) – The status of infraspecific taxa (subspecies or varieties) are indicated by a "T-rank" following the species global rank. Rules for assigning T-ranks follow the same principles outlined above. For example, the global rank of a critically imperiled subspecies of an otherwise widespread and common species would be G5T1. A T subrank cannot imply the subspecies or variety is more abundant than the species. For example, a G1T2 subrank should not occur. A vertebrate animal population, (e.g., listed under the U.S. Endangered Species Act or assigned candidate status) may be tracked as an infraspecific taxon and given a T-rank; in such cases a Q is used after the T-rank to denote the taxon's informal taxonomic status.

Subnational (S) Conservation Status Ranks

- S1 Critically Imperiled Critically imperiled in the jurisdiction because of extreme rarity or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the jurisdiction.
- **S2 Imperiled** Imperiled in the jurisdiction because of rarity due to very restricted range, very few populations, steep declines, or other factors making it very vulnerable to extirpation from jurisdiction.
- **S3 Vulnerable** Vulnerable in the jurisdiction due to a restricted range, relatively few populations, recent and widespread declines, or other factors making it vulnerable to extirpation.
- S4 Apparently Secure Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- **S5** Secure Common, widespread, and abundant in the jurisdiction.
- S#S# Range Rank A numeric range rank (e.g., S2S3 or S1S3) is used to indicate any range of uncertainty about the status of the species or ecosystem. Ranges cannot skip more than two ranks (e.g., SU is used rather than S1S4).

Rank Qualifiers

- ? Inexact Numeric Rank Denotes inexact numeric rank; this should not be used with any of the Variant Global Conservation Status
- Q Questionable taxonomy that may reduce conservation priority Distinctiveness of this entity as a taxon or ecosystem type at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, or inclusion of this taxon or type in another taxon or type, with the resulting taxon having a

lower-priority (numerically higher) conservation status rank. The "Q" modifier is only used at a global level and not at a national or subnational level.

The California Rare Plant Ranks

1A. Presumed extirpated in California and either rare or extinct elsewhere

1B. Rare or Endangered in California and elsewhere

2A. Presumed extirpated in California, but more common elsewhere

- 2B. Rare or Endangered in California, but more common elsewhere
- 3. Plants for which we need more information Review list
- 4. Plants of limited distribution Watch list

1A: Plants Presumed Extirpated in California and either rare or extinct elsewhere

The plants of Rank 1A are presumed extirpated because they have not been seen or collected in the wild in California for many years. This rank includes those plant taxa that are both presumed extinct, as well as those plants which are presumed extirpated in California and rare elsewhere. A plant is extinct if it no longer occurs anywhere. A plant that is extirpated from California has been eliminated from California, but may still occur elsewhere in its range.

1B: Plants Rare, Threatened or Endangered in California and Elsewhere

(Includes Rare Plant Ranks 1B.1, 1B.2, 1B.3)

The plants of Rank 1B are rare throughout their range with the majority of them endemic to California. Most of the plants that are ranked 1B have declined significantly over the last century. California Rare Plant Rank 1B plants constitute the majority of plant taxa tracked by the CNDDB, with more than 1,000 plants assigned to this category of rarity.

2A: Plants Presumed Extirpated in California, but more common elsewhere

The plants of Rank 2A are presumed extirpated because they have not been seen or collected in the wild in California for many years. This rank includes only those plant taxa that are presumed extirpated in California, but that are more common elsewhere in their range. Note: Plants of both Rank 1A and 2A are presumed extirpated in California; the only difference is the status of the plants outside of the state.

2B: Plants Rare, Threatened or Endangered in California, but More Common Elsewhere (Includes Rare Plant Ranks 2B.1, 2B.2 2B.3)

The plants of Rank 2B are rare, threatened or endangered in California, but more common elsewhere. Plants common in other states or countries are not eligible for consideration under the provisions of the Federal Endangered Species Act; however they are eligible for consideration under the California Endangered Species Act. This rank is meant to highlight the importance of protecting the geographic range and genetic diversity of more widespread species by protecting those species whose ranges just extend into California. Note: Plants of both Rank 1B and 2B are rare, threatened or endangered in California; the only difference is the status of the plants outside of the state.

Threat Ranks:

The California Rare Plant Ranks (CRPR) use a decimal-style threat rank. The threat rank is an extension added onto the CRPR and designates the level of threats by a 1 to 3 ranking with 1 being the most threatened and 3 being the least threatened. So most CRPRs read as 1B.1, 1B.2, 1B. 3, etc. Note that some Rank 3 plants do not have a threat code extension since there are no known extant populations of the plants in California.

Threat Code extensions and their meanings:

.1 - Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)

.2 - Moderately threatened in California (20-80% of occurrences threatened / moderate degree and immediacy of threat)

.3 - Not very threatened in California (<20% of occurrences threatened / low degree of immediacy of threat or no current threats known)

Revised Attachment G.

Table G-1 below compares the traits of the *Crepis* species found by Claire Brown on June 19, 2020 with the trait descriptions of *Tracyina rostrata* from the Jepson Manual (Baldwin et.al 2012) and those of *Crepis puchra* from the eFlora of North America (eFNA2020).

At time of collection on June 19, 2020, the *Crepis sp.* specimens were 100% in flower, with none having yet set mature fruit. However, the corollas of almost all individuals were somewhat gummy and withered. Some heads still had immature flowers with rolled-up corollas at their center, while most heads contained flowers that were all mature with expanded ligules. All flowers in all heads were bisexual. Collected specimens were allowed to dry, and fruit did at least partially mature on these plants. These fruits were used for keying and the description below.

The main difference between *Crepis pulchra* and the specimens collected is the lack of viscid stipitate glands on the proximal stem and leaf faces. According to Alison Colwell of the UC Davis Center for Plant Diversity, "The Lactuceae tend to have apomictic swarms so lots of confusing microvariation that makes ID unsatisfactory" (Colwell, pers.comm. July 2020). Digitized herbarium specimens of *Crepis pulchra* found in CCH2 are visually similar (CCH2 2020).

Trait		Granic on anosimons found	
Trait	(Janson official 2020)	c 10 2020	Crepis pulchra (eFNA 2020)
Ushite	(Jepson eriora 2020)	6-19-2020	Annuale E 100 ere (terrere ete elevater)
паріс	taproot: goporally colf pollipated	hotwoon 40 cm and 80 cm in	Annuals, 3–100 cm (taproots siender)
	taproot, generally sen-poliniated.	beight	
Store	aract, simple or branched distally	Frost branchod distally	aract simple provimally hispid and
Stem:	branches often exceeding main	forming compound	stipitate glandular (viscid) distally
	stom, alabrauc	syme/servmb_Brovingl.stom	debrous
	stem, glabrous	cyme/corymb. Proximal stem	giabrous.
		baing distal glabrage	
Last	head and at flavour meaths	hairy, distal glabrous	
Lear:	basal and at nower mostly	Almost all leaves >5 mm wide,	Leaves basar and cauline; petiolate;
	cauline, alternate, +- sessile, 10	coarsely toothed, coarsely	blades oblanceolate or runcinate, 1–
	25(35+) mm, $1-2(5+)$ mm wide,	white- hairy on adaxial and	24 × 1–5 cm, (bases attenuate)
	narrowly lanceolate to linear,	abaxial surfaces, semi-clasping	margins deeply pinnately lobed to
	entire, ciliate, glabrous of	base. Basal 50 to 80 mm long,	denticulate (lobes triangular, terminal
	sparsery, minutery coarse-many.	distal cauline so to 75 mm,	fores densely, apices obtuse to acute,
		distal cauline much reduced.	
Inflorescence	heads radiate 1 at branch ting:	Heads 10-30 arranged in	Heads 10-40 in loose conumbiform
Innorescence	nedus radiate, 1 at branch tips,	more or loss flat tenned loose	arrays Calyculi of 5–7 ovato or
	pedulcie +- mildely solution in a	compound cyme/corymb	lanceolate glabrous bractlets 1–2 mm
	13+ mm diam +- cylindric to	Involucre 9 mm Phyllaries are	Involucres cylindric (turbinate in fruit)
	$\frac{1}{2}$ obconic: phyllaries (6)2030+	in 3 series lanceolate	$8-12 \times 3-5$ mm Phyllaries 10-14
	graduated in (2)34+ series	(outermost ovate to almost	(green medially) lanceolate 8–10 mm
	appressed, linear to awl-shaped.	deltate) distinctly keeled	(bases strongly keeled and thickened
	green, flat, glabrous or sparsely	green with white-translucent	marging scarious) anices acute faces
	and minutely coarse-hairy.	margins, glabrous except	glabrous.
	persistent: receptacle convex.	ciliate at tip. Receptacle	8.00.000
	pitted or smooth, epaleate.	epaleate, heads liguliflorous	
Ray Flower:	(3)12 - 15(20 +); corolla +-	None, all flowers ligulate.	Florets 15–30: corollas light vellow, 5–
,	vellow, often purple-tinged, tube	Corolla tube 3.5mm, ligule 3-4	12 mm
	2.5-3+ mm, ray inconspicuous,	mm.15 to 25 flowers total per	
	11.5+ mm, narrowly elliptic.	head. All flowers bisexual	
Disk Flower:	(4)1525+; corolla pale yellow to	None, heads liguliflorous	
	+- purple, tube 11.5 mm, <		
	throat, throat 22.5 mm, lobes		
	erect, 0.10.3 mm, lance-deltate;		
	anther tip reduced, +- triangular;		
	style branch tips long-tapering		
	distally.		
Fruit:	: 56 mm, +- spindle-shaped,	Fusiform but not long-tapered	Cypselae (monomorphic or dimorphic)
	long-tapered distally (almost	distally, not beaked. Outer	green to yellowish brown,
	beaked), glabrous or (ray fruit)	longer than inner (none totally	subcylindric, outer 5–6 mm, inner 4–5
	glabrous in age or (disk fruit) +-	mature at collection). Outer	mm, apices attenuate (not beaked),
	minutely coarse-hairy; pappus of	5.5 mm, inner 5 mm	ribs 10–12; pappi dusky white (very
	(12)3040 long-tapered bristles in		fine, fluffy), 4–5 mm. 2n = 8.
	1(2) series, 14+ mm, +- equal		
	or outer shorter, minutely barbed,		
	persistent, fragile.		

Table G-1. Specimen Trait Comparison Chart (Jepson eFlora 2020, eFNA 2020)

Speciman Photos



Taken onsite 6-19-2020



Taken onsite 6-19-2020



Taken onsite 6-19-2020



Taken onsite 6-19-2020



Taken onsite 6-19-2020



Taken onsite 6-19-2020



Taken onsite 6-19-2020



Taken onsite 6-19-2020



Taken under scope 6-24-2020



Taken under scope 6-24-2020



Taken in office 6-24-2020



Taken under scope 6-24-2020



Taken under scope 6-24-2020



Taken under scope 6-24-2020