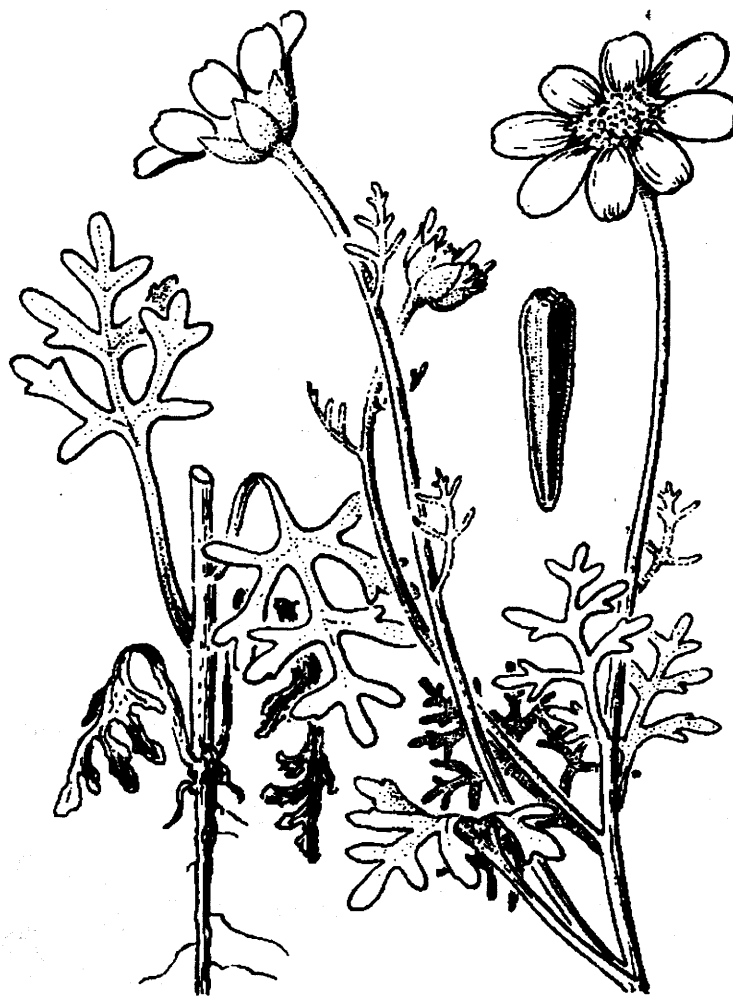


*Endangered, Threatened, Rare
and Special Plants*



Kern County, California

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INTRODUCTION

California has over 5800 species of native flowering plants, needled evergreens (pine, cedar, etc.), ferns, and species related to ferns. This concentration of so many plant species is found nowhere else on the North American continent. Another unique feature of California's plants is that about 24 percent of the native species are classified as endemic (plants that are restricted to a particular locality or habitat within the state). Also, California has approximately 1000 plant species that have been introduced or escaped from gardens or agriculture fields.

California's unique climate, diverse topography, and varied geological formations have provided the environment for such a large number of plant species. Plants grow from sea level to above timberline. They are found from subtropical to desert conditions and from deep rich valley soils to rocky outcroppings. The condition that makes California unique in the large number of plant species and the large percentage of endemic species also provides the potential for a large number of endangered species.

This publication was written to help landowners become aware of the number of "special" plant species in the southern San Joaquin Valley. It will also help landowners become familiar with the endangered, threatened, and rare plant species. Landowners, equipped with this knowledge, can become aware of these species on their land and make the necessary adjustments in their management practices to accommodate these special plant species. Also, if landowners know there is an endangered, threatened, or rare species on their land, they can prevent destroying a population.

The publication is not intended to be used for positive identification of species shown. Landowners should use the expertise of a highly trained plant taxonomist for positive identification of plants of concern. Many plant species look alike to the untrained eye. The trained professional can make the distinction between a rare species and a very common species that looks similar.

Rare plant studies have been the focus of the California Native Plant Society since its beginning. In 1968, G. Ledyard Stebbins started a card file on plants with a distribution of less than 100 miles. In 1980, the California Native Plant Society, in cooperation with the Natural Diversity Data Base, developed its "species-of-concern" list. By 1981, the Nature Conservancy, which had until then staffed the California NDDDB, transferred the project to the Department of Fish and Game. The NDDDB contains current information on the endangered, rare, and threatened species, as well as other species of concern. The NDDDB is constantly updated and new records entered. People wanting up-to-date information should contact the California Department of Fish and Game directly.

The information in this publication was taken from the February 15, 1995, NDDDB. The NDDDB contains volumes of information on species of plants that are of concern. The

information used in this publication is limited to: family, scientific name, common name, habitat, listing status for state and federal, and known locations.

California's listing, ranking, and tracking of plant species is conducted under the guidelines of the California Endangered Species Act of 1984. The federal listing, ranking, and tracking of plants is conducted under the Federal Endangered Species Act of 1973. The state and federal endangered species acts define endangered, threatened, and rare a little differently. There is a difference in the status rating system between the two acts. The following is a discussion of the state and federal interpretation of the two acts.

California

Rare: a native plant species, although not presently threatened with extinction, is in such small numbers through its range that it may become endangered if its present environment worsens.

Threatened: a native plant species or subspecies, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of special protection and management.

Endangered: the prospects of survival and reproduction of a native species or subspecies are in immediate jeopardy from one or more causes. "Candidate" species sometimes refers to sensitive species that have been officially identified for review to be listed as threatened or endangered. This group is protected from taking under the California Endangered Species Act.

Federal

Endangered: any species, including subspecies, in danger of extinction throughout all or a significant portion of its range. The U.S. Fish and Wildlife Service considers varieties to be subspecies.

Threatened: any species likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.

Proposed endangered and threatened species: those species for which a proposed regulation has been published in the Federal Register, but not a final rule.

Category 1: species for which the U.S. Fish and Wildlife Service currently has on file substantial information indicating the biological vulnerability and threat(s) to support the appropriateness of proposing to list the species as endangered or threatened.

Category 2: species for which information, now in the possession of the U.S. Fish and Wildlife Service, indicates that proposing to list them as endangered or threatened species is possibly appropriate; but for which substantial data on biological vulnerability and threat(s) are not currently known or on file to support the immediate preparation of rules.

Category 3: plant species that have been petitioned for listing, but did not meet the criteria for listing as endangered or threatened. Category 3 has three subcategories: 3A, extinct; 3B, do not meet the definition of a species; and 3C, too widespread or not threatened at this time.

The above categories will appear in this publication. However, the U.S. Fish and Wildlife Service changed its categories. The changes are listed in the *Federal Register* (Vol. 16, No. 4), February 28, 1996. The changes have moved most Category 1 plant species to simple "candidate" status. Categories 2 and 3 have been dropped from any list but are considered as species of concern. There is one exception: mexican flannelbush was moved from a Category 2 to a proposed candidate for listing as endangered or threatened. Also, the May 1996 lifting of the moratorium to list endangered species will move some of the proposed candidates to endangered or threatened.¹

¹In the most recent candidate notice of review (FR61: 7596) the Service announced its decision to discontinue the list of Category 2 candidates to reduce confusion about the conservation status of these species and to clarify that the Service does not regard these species as candidates for listing. The Service remains concerned about these species and will continue to work with other Federal and State agencies, knowledgeable scientists, public and private natural resource interests to identify candidate species.

Personal comments by Jan Knight, U.S. Fish and Wildlife Service.

CYMOPTERUS DESERTICOLA

DESERT CYMOPTERUS

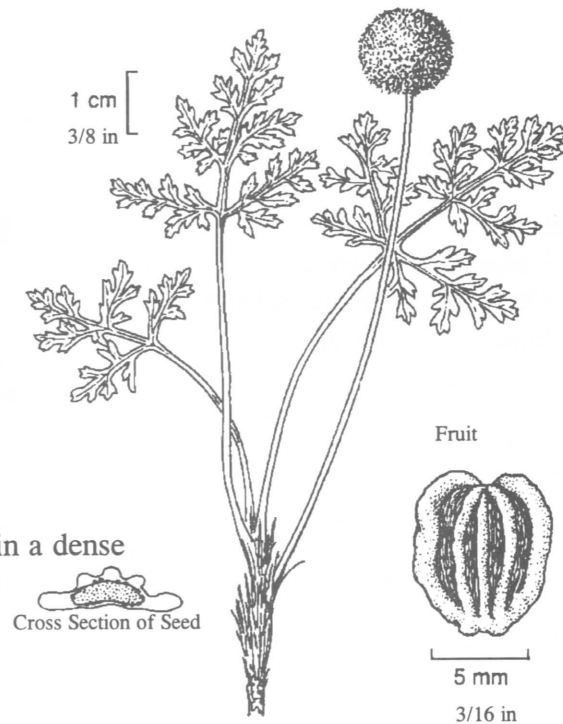
Apiaceae (carrot) Family

Ranking

Federal: Category 1
Change: None, 2/28/96
State: None

Description

Life Cycle: Perennial
Flowers: Tiny purple flowers in a dense
spheric inflorescence
Height: \pm 6 inches
Growth Form: Erect herb



Habitat

General: Joshua Tree woodland, Mojavean desert shrub
Microhabitat: On fine to coarse, loose, sandy soil of flats in old dune areas with well-drained sand, 2300-2900 feet

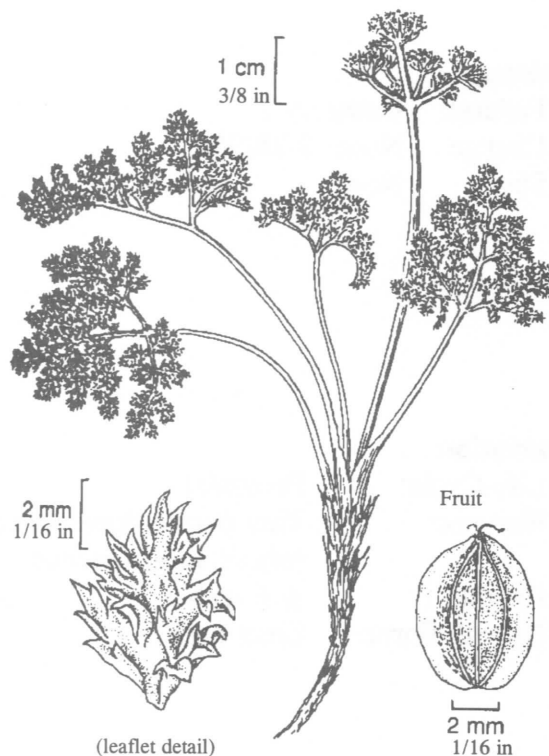
Known Locations

	Township	Range	Section
	T09N	R07E	S20 S Qtr
	T09N	R08W	S25 W Qtr
	T09N	R10W	S36 NW Qtr
	T09N	R10W	S23 E Qtr
	T10N	R08W	S29 XX Qtr
	T10N	R09W	S04 XX Qtr
	T11N	R09W	S04 XX Qtr

LOMATIUM SHEVOCKII
OWENS PEAK LOMATIUM
Apiaceae (carrot) Family

Ranking

Federal: Category 1
Change: None, 2/28/96
State: None



Description

Life Cycle: Perennial from taproot
Flowers: Tiny purple flowers in an umbrellate inflorescence
Height: 2-5 inches
Growth Form: Erect herb

Habitat

General: Lower montane coniferous forest, upper montane coniferous forest
Microhabitat: In colluvial slopes and talus, usually along contact zones of metamorphic and granitic rock, 7300-8200 feet

Known Locations

Township	Range	Section
T25S	R37E	S21 SE Qtr
T25S	R37E	S34 NW Qtr

CIRSIUM CRASSICAULE
SLOUGH THISTLE
 Asteraceae (sunflower) Family

Ranking

Federal: Category 2
 Change: None, 2/28/96
 State: None

Description

Life Cycle: Annual or biennial
 Flowers: Many rose-purple to white
 flowers
 Height: 3.25-10 feet
 Growth Form: Erect herb



Leaf Tip

Habitat

General: Chenopod Scrub
 Microhabitat: Sloughs and marshy areas in the Central Valley

Known Locations

	Township	Range	Section
	T25S	R22E	S34 NW Qtr
	T25S	R22E	S32 SW Qtr
	T25S	R22E	S31 XX Qtr
	T26S	R22E	SUN XX Qtr
	T26S	R21E	SUN XX Qtr
	T26S	R21E	SUN XX Qtr
	T26S	R22E	SUN XX Qtr
	T26S	R21E	SUN XX Qtr
	T26S	R22E	SUN XX Qtr
	T26S	R21E	SUN XX Qtr
	T30S	R24E	S23 N Qtr
	T30S	R25E	S33 SW Qtr

ERIGERON AEQUIFOLIUS

HALL'S DAISY

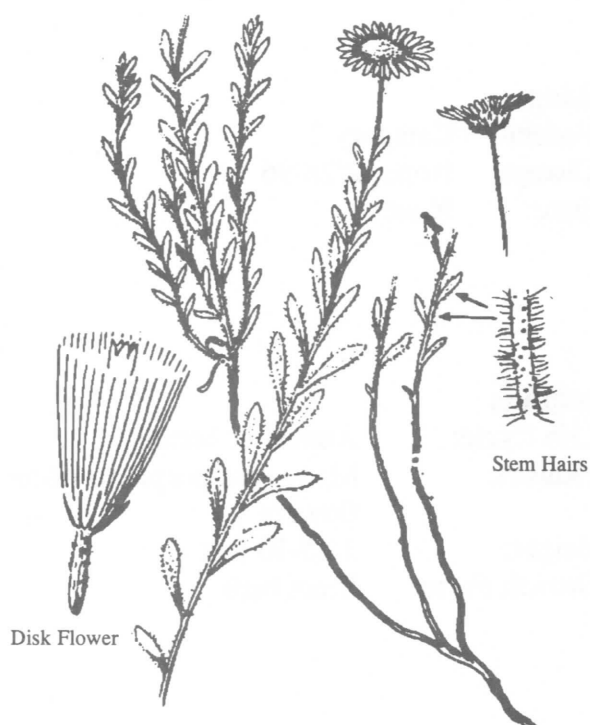
Asteraceae (sunflower) Family

Ranking

Federal: Category 3c

Change: None, 2/28/96

State: None



Description

Life Cycle: Perennial

Flowers: Center yellow with blue petals

Height: 4-8 inches

Growth Form: Ascending to erect herb from woody base

Habitat

General: Broadleafed upland forest, lower montane coniferous

Microhabitat: On dry rock outcrops in granite walls and canyons, 6000-7000 feet

Known Locations

Township	Range	Section
T21S	R37E	S21 NE Qtr

ERIOPHYLLUM LANATUM* var. *HALLII

FT. TEJON WOOLLY SUNFLOWER

Asteraceae (sunflower) Family

Ranking

Federal: Category 1
Change: None, 2/28/96
State: None

Description

Life Cycle: Perennial
Flowers: Center and petals yellow
Height: 4 inches-3 feet
Growth Form: Shrub or Subshrub



Habitat

General: Chaparral, Cismontane Woodland
Microhabitat: Not available at this time

Known Locations

Township	Range	Section
T09N	R19W	S17 XX Qtr
T09N	R19W	SUN XX Qtr

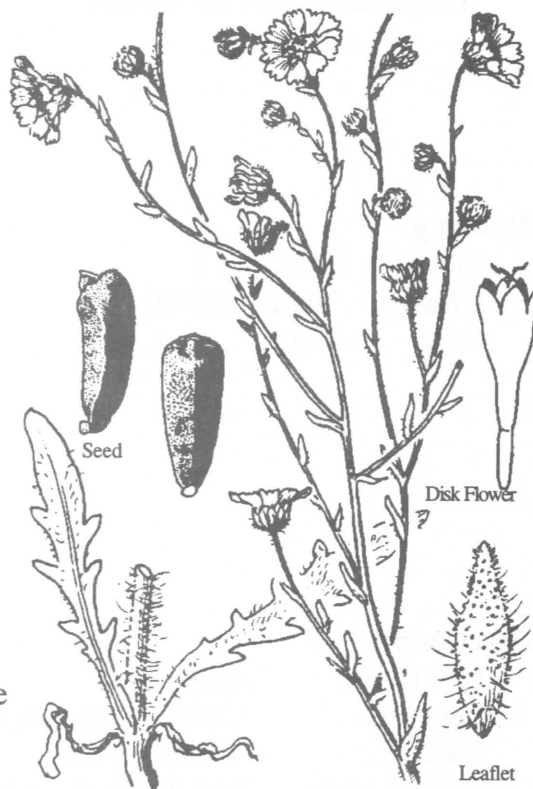
HEMIZONIA ARIDA
RED ROCK TARPLANT
 Asteraceae (sunflower) Family

Ranking

Federal: Category 1
 Change: None, 2/28/96
 State: Rare

Description

Life Cycle: Annual
 Flowers: Center and petals of flower are
 pale yellow
 Height: 8 inches-3.25 feet
 Growth Form: Erect



Habitat

General: Creosote Bush Scrub
 Microhabitat: Dry to moist sites where water has collected along ephemeral streams,
 ruts and along the edge of highway pavement

Known Locations

Township	Range	Section
T29S	R37E	S25 NW Qtr
T29S	R38E	SUN XX Qtr
T29S	R37E	S26 SE Qtr
T30S	R37E	S03 SW Qtr
T30S	R37E	S02 NW Qtr

LASTHENIA GLABRATA* ssp. *COULTERI
COULTER'S GOLDFIELDS
 Asteraceae (sunflower) Family

Ranking

Federal: Category 2
 Change: None, 2/28/96
 State: None

Description

Life Cycle: Annual
 Flowers: Center and petals yellow
 Height: Less than 2 feet
 Growth Form: Erect herb



Habitat

General: Coastal salt marshes, playas, valley and foothill grassland, vernal pools
 Microhabitat: Mostly in alkali playas and alkali grasslands; under 1800 feet

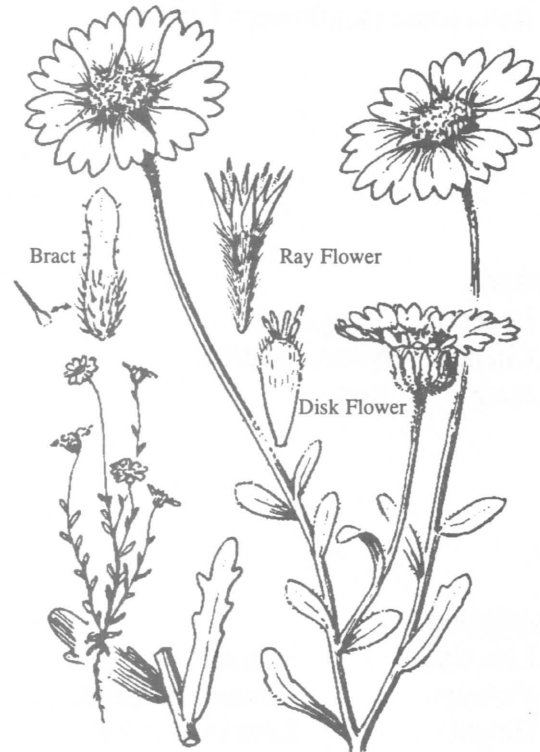
Known Locations

Township	Range	Section
T32S	R33E	S20 SE Qtr

LAYIA LEUCOPAPPA
COMANCHE POINT LAYIA
 Asteraceae (sunflower) Family

Ranking

Federal: Category 1
 Change: None, 2/28/96
 State: None



Description

Life Cycle: Annual
 Flowers: Center is yellow, the outer petals white to cream color
 Height: 3 inches-2 feet
 Growth Form: Erect herb, branched from base

Habitat: Chenopod scrub, valley and foothill grassland
 Microhabitat: Dry hills in clayey soils, open slopes, 500-1200 feet

Known Locations

Township	Range	Section
T11N	R18W	S01 NE Qtr
T11N	R18W	S09 NW Qtr
T32S	R30E	S30 S Qtr
T32S	R29E	SUN XX Qtr
T32S	R27E	S33 N Qtr
T32S	R29E	SUN XX Qtr

MADIA RADIATA

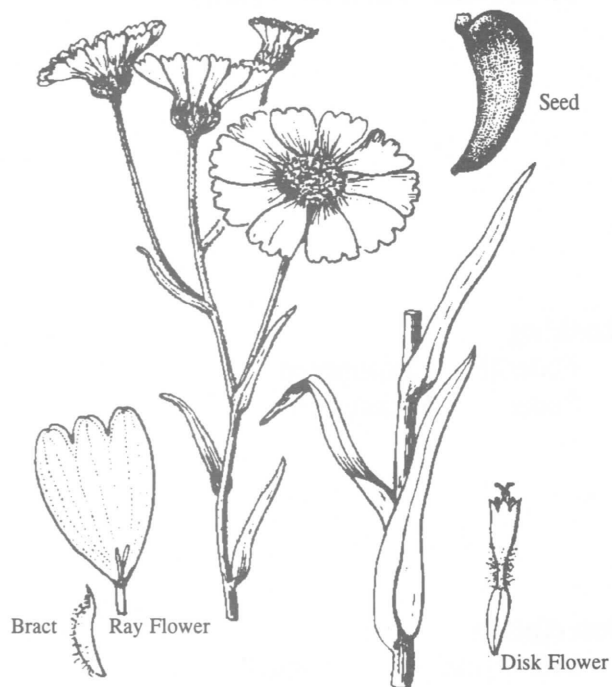
SHOWY MADIA

Asteraceae (sunflower) Family

Ranking

Federal: None

State: None



Description

Life Cycle: Annual

Flowers: Center and petals are golden yellow

Height: 4 inches-3 feet

Growth Form: Erect herb

Habitat

General: Valley and foothill grassland, cismontane woodland

Microhabitat: Grassy slopes, under 3000 feet

Known Locations

Township	Range	Section
T26S	R16E	S25 XX Qtr

PSEUDOBABIA PEIRSONII
 SAN JOAQUIN ADOBE SUNBURST
 Asteraceae (sunflower) Family

Ranking

Federal: Endangered
 State: Endangered

Description

Life Cycle: Annual
 Flowers: Center and petals of flower
 are yellow
 Height: 8 inches-2 feet
 Growth Form: Erect herb, branching above base



Habitat

General: Valley and foothill grassland
 Microhabitat: Grassy valley floors and rolling foothills in heavy clay soil, 500-2500 feet

Known Locations

Township	Range	Section
T25S	R28E	S36 NW Qtr
T25S	R28E	S22 NE Qtr
T27S	R29E	S24 S Qtr
T27S	R29E	S22 W Qtr
T28S	R29E	S23 NE Qtr
T28S	R29E	S14 SE Qtr
T28S	R29E	S13 S Qtr

STYLOCLINE MASONII

MASON'S NESTSTRAW

Asteraceae (sunflower) Family

Ranking

Federal: Category 2
Change: None, 2/28/96
State: None

Description

Life Cycle: Annual
Flowers: Tiny greenish flowers in small woolly heads
Height: Less than 4 inches
Growth Form: Erect herb



Habitat

General: Chenopod scrub, Pinyon-Juniper woodland
Microhabitat: Sandy washes 300-1300 feet

Known Locations

Township	Range	Section
T25S	R34E	SUNXX Qtr
T29S	R25E	S25NE Qtr
T30S	R27E	SUNXX Qtr

LEMBERTIA CONGDONII

SAN JOAQUIN WOOLLY THREADS

Asteraceae (sunflower) Family

Ranking

Federal: Endangered
State: None

Description

Life Cycle: Annual
Flowers: Many yellow flowers
Height: 2-12 inches
Growth Form: Loosely woolly herb, decumbent to ascending



Habitat

General: Chenopod scrub and valley and foothill grassland
Microhabitat: Alkaline or loamy plains

Known Locations

Township	Range	Section
T25S	R21E	S34 NE Qtr
T26S	R21E	S36 SE Qtr
T28S	R20E	S23 NW Qtr
T28S	R20E	S09 SE Qtr
T28S	R26E	S31 NE Qtr
T28S	R27E	S20 SW Qtr
T29S	R26E	S24 SW Qtr
T29S	R28E	S10 NE Qtr
T29S	R26E	S21 SE Qtr
T29S	R25E	S24 SE Qtr
T30S	R30E	S19 SW Qtr
T30S	R30E	S16 NW Qtr

RAILLARDIOPSIS MUIRII
MUIR'S RAILLARDELLA
 Asteraceae (sunflower) Family

Ranking

Federal: Category 3c
 Change: None, 2/28/96
 State: None



Ray Flower

Description

Life Cycle: Perennial
 Flowers: Yellow flowers in narrow heads
 Height: Less than 2 feet
 Growth Form: Herb from woody rhizome, the stems often matted, ascending to erect

Habitat

General: Chaparral, lower montane coniferous forest, upper montane coniferous forest
 Microhabitat: Crevices of granite ledges and dry, sandy soils, 4000-7000 feet

Known Locations

Township	Range	Section
T25S	R37E	S21 NE Qtr

STREPTANTHUS CORDATUS* var. *PIUTENSIS

PIUTE MOUNTAINS JEWELFLOWER

Brassicaceae (mustard) Family

Ranking

Federal: Category 2
Change: None, 2/28/96
State: None



Description

Life Cycle: Perennial
Flowers: Small flowers, the petals yellow-green in bud, purple when mature
Height: 19 inches-3 feet
Growth Form: Erect herb

Habitat

General: Broadleaved upland forests, closed-cone coniferous
Microhabitat: Along road banks and cliffs, metamorphic-red clay soils, 4000-5700 feet

Known Locations

Township	Range	Section
T27S	R33E	S19 SW Qtr
T27S	R32E	S23 NE Qtr
T27S	R33E	S24 SW Qtr
T31S	R35E	S20 NE Qtr
T31S	R35E	S33 NE Qtr

CAULANTHUS CALIFORNICUS

CALIFORNIA JEWELFLOWER

Brassicaceae (mustard) Family

Ranking

Federal: Endangered

State: Endangered

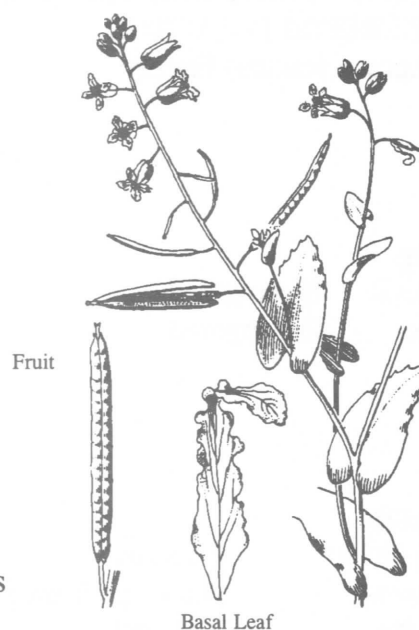
Description

Life Cycle: Annual

Flowers: Small flowers, four white petals
with purple veins

Height: 8-16 inches

Growth Form: Herb, decumbent to erect, often much-branched



Habitat

General: Chenopod scrub, valley and foothill grassland

Microhabitat: Not available at this time

Known Locations

Township	Range	Section
T10N	R24W	S20 NW Qtr
T10N	R25W	S24 NE Qtr
T25S	R25E	S11 SE Qtr
T25S	R17E	S03 SW Qtr
T26S	R25E	S31SW Qtr
T26S	R22E	S26 NW Qtr
T26S	R19E	S26 NE Qtr
T26S	R21E	S35 SE Qtr
T26S	R22E	S31 SE Qtr
T28S	R29E	S03 NE Qtr
T29S	R26E	S24 SW Qtr
T29S	R22E	S06 XX Qtr
T31S	R24E	S15 SE Qtr

OPUNTIA BASILARIS* var. *TRELEASEI

BAKERSFIELD CACTUS

Cactaceae (cactus) Family

Ranking

Federal: Endangered

State: Endangered

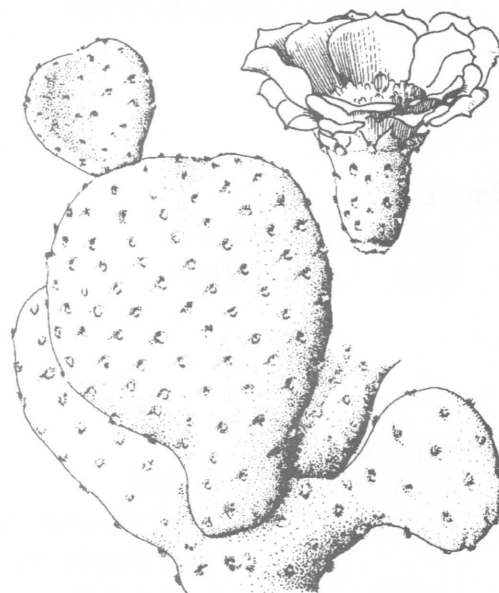
Description

Life Cycle: Perennial

Flowers: Showy pink-magenta flowers

Height: 3-19 inches

Growth Form: Shrub, clumped, ascending to erect



Habitat

General: Chenopod scrub, valley and foothill grassland

Microhabitat: Coarse or cobbly well-drained granitic sand on hills and flats within grassland, 500-1800 feet

Known Locations

Township	Range	Section
T28S	R27E	S36 SE Qtr
T28S	R27E	S35 NW Qtr
T28S	R28E	S35 SE Qtr
T28S	R28E	S35 NW Qtr
T28S	R29E	S31 SW Qtr
T28S	R28E	S35 NE Qtr
T28S	R28E	S34 NW Qtr
T28S	R28E	S32 NE Qtr
T30S	R29E	S08 NE Qtr
T30S	R30E	S18 NE Qtr
T30S	R30E	S19 SW Qtr

(continued)

***OPUNTIA BASILARIS* var. *TRELEASEI*(continued)**

BAKERSFIELD CACTUS

Cactaceae (cactus) Family

Known Locations

Township	Range	Section
T29S	R29E	S06 SE Qtr
T29S	R28E	S14 NE Qtr
T29S	R29E	S33 SE Qtr
T29S	R28E	S24 SW Qtr
T29S	R28E	S24 NE Qtr
T29S	R28E	S08 E Qtr
T29S	R28E	S11 NW Qtr
T29S	R28E	S03 NW Qtr
T29S	R28E	S01 NW Qtr
T29S	R28E	S25 NE Qtr
T29S	R28E	S21 NE Qtr
T29S	R29E	S20 NE Qtr
T29S	R29E	S24 NE Qtr
T29S	R28E	S24 SE Qtr
T29S	R28E	S11 NW Qtr
T29S	R30E	S06 NE Qtr
T30S	R31E	SUN XX Qtr
T30S	R32E	S16 SE Qtr
T30S	R31E	SUN XX Qtr
T30S	R30E	SUN XX Qtr
T30S	R31E	SUN XX Qtr
T30S	R32E	S18 SE Qtr
T32S	R29E	SUN XX Qtr

NEMACLADUS TWISSELMANNII

TWISSELMANN'S NEMACLADUS

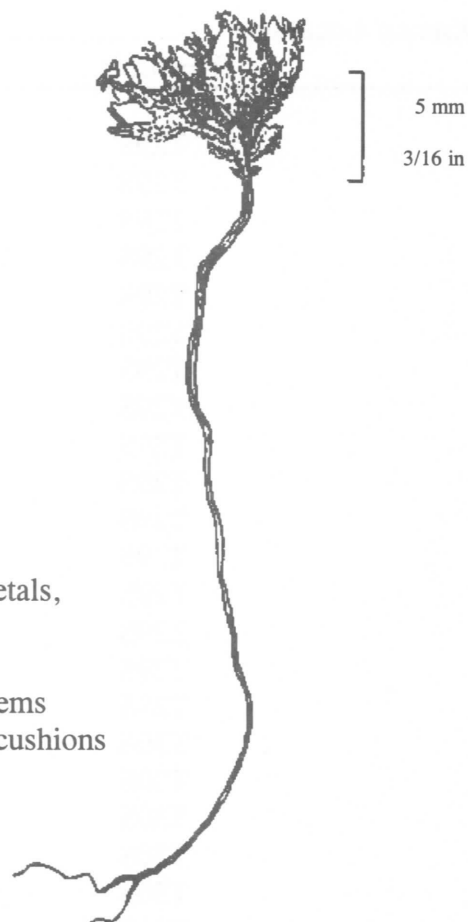
Campanulaceae (bellflower) Family

Ranking

Federal: Category 2
Change: None, 2/28/96
State: Rare

Description

Life Cycle: Annual
Flowers: Small flowers with white, hairy petals,
in head-like inflorescence
Height: 1-4 inches
Growth Form: Forms small cushion with erect stems
Herb, the erect stems form small cushions



Habitat

General: Jeffrey Pine Forest
Microhabitat: Granitic soils, open ridgetops and gentle slopes; about 7300 feet

Known Locations

Township	Range	Section
T25S	R34E	S06 NE Qtr

ATRIPLEX CORDULATA

HEARTSCALE

Chenopodiaceae (goosefoot) Family

Ranking

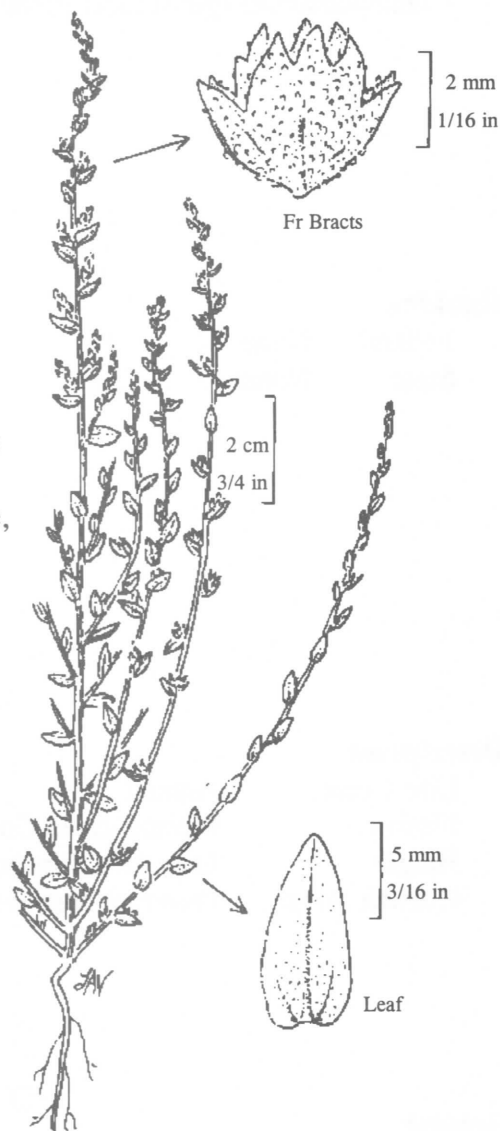
Federal: Category 2
Change: None, 2/28/96
State: None

Description

Life Cycle: Annual
Flowers: Minute green flowers in small clusters in the leaf axils
Height: 4-20 inches
Growth Form: Herb, branches from the base, ascending to erect, leaves and stems greyish, rigid

Habitat

General: Chenopod scrub, valley and foothill grassland
Microhabitat: Alkaline flats in the Central Valley



Known Locations

Township	Range	Section
T24S	R24E	S33 XX Qtr
T25S	R25E	S16 XX Qtr
T25S	R24E	S31 XX Qtr
T31S	R25E	S18 NE Qtr
T31S	R24E	S24 XX Qtr
T32S	R24E	SUN XX Qtr

ATRIPLEX DEPRESSA

BRITTLESCALE

Chenopodiaceae (goosefoot) Family

Ranking

Federal: None

State: None



Description

Life Cycle: Annual

Flower: Minute green flowers in clusters in the leaf axils

Height: Less than 8 inches

Growth Form: Prostrate herb with whitish stems

Habitat

General: Chenopod scrub, playas, valley and foothill

Microhabitat: Alkaline or clay soils under 600 feet

Known Locations

Township	Range	Section
T26S	R22E	S26 NW Qtr

ATRIPLEX TULARENSIS
BAKERSFIELD SMALLSCALE
 Chenopodiaceae (goosefoot) Family

Ranking

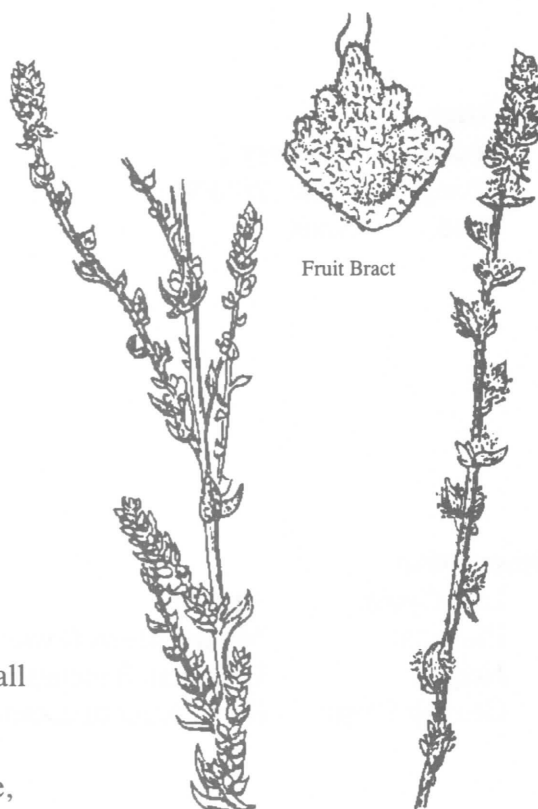
Federal: Category 2
 Change: None, 2/28/96
 State: Endangered

Description

Life Cycle: Annual
 Flowers: Minute green flowers in small clusters in the leaf axils
 Height: 4 inches-3 feet
 Growth Form: Erect herb with rigid, brittle, whitish stems

Habitat

General: Chenopod scrub, alkali meadow
 Microhabitat: Saltgrass Meadows



Known Locations

Township	Range	Section
T31S	R28E	S34 W Qtr
T31S	R28E	S27 NW Qtr
T31S	R28E	S21 S Qtr
T32S	R27E	S26 E Qtr

ATRIPLEX VALLICOLA

LOST HILLS CROWNSCALE

Chenopodiaceae (goosefoot) Family

Ranking

Federal: Category 2

Change: None, 2/28/96

State: None



Description

Life Cycle: Annual

Flowers: Minute green flowers in small clusters in the leaf axis

Height: Less than 8 inches

Growth Form: Herb, erect to ascending, stems grayish to green

Habitat

General: Chenopod scrub which is vernaly moist

Microhabitat: In powdery, alkaline soils with Frankenia, Atriplex SPP and Distichlis

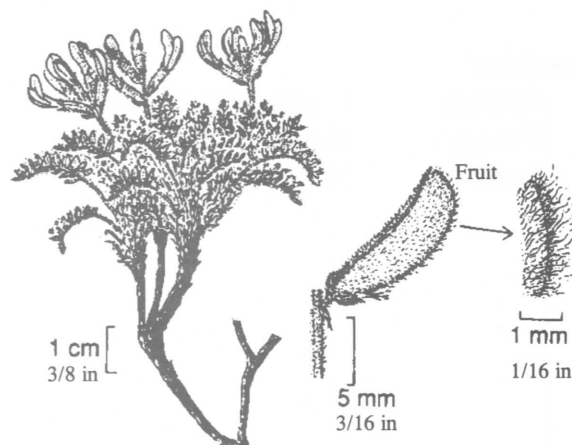
Known Locations

Township	Range	Section
T24S	R20E	S35 SE Qtr
T25S	R21E	S19 SE Qtr
T26S	R21E	S03 SE Qtr
T29S	R23E	S20 NW Qtr
T29S	R23E	S29 NE Qtr
T30S	R22E	S28 SW Qtr

ASTRAGALUS LEUCOLOBUS
BIG BEAR VALLEY WOOLLYPOD
 Fabaceae (legume) Family

Ranking

Federal: Category 2
 Change: None, 2/28/96
 State: None



Description

Life Cycle: Perennial
 Flowers: Small pink-purple pea-shaped flowers
 Height: Up to 20 inches
 Growth Form: Herb, from woody base, forming mats

Habitat

General: Lower montane coniferous forest, pebble plain, upper montane coniferous forest
 Microhabitat: Dry pine woods, gravelly knolls among sagebrush or stony lake shores in the pine belt, 5800-8100 feet

Known Locations

Township	Range	Section
T09N	R20W	SUN XX Qtr

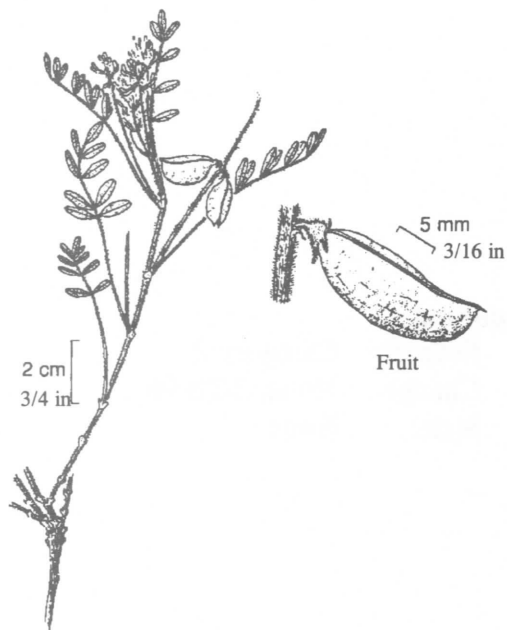
ASTRAGALUS ERTTERAE

WALKER PASS MILKVETCH

Fabaceae (legume) Family

Ranking

Federal: Category 2
Change: None, 2/28/96
State: None



Description

Life Cycle: Perennial
Flowers: Small pea-shaped flowers with cream colored petals
Height: 4 inches
Growth Form: Stem erect below the ground, prostrate above the ground

Habitat

General: Pinyon juniper woodland
Microhabitat: Sandy, gravelly soil in Pinyon pine canyon oak woodland

Known Locations

Township	Range	Section
T26S	R37E	S09 SE Qtr
T26S	R37E	S19 NW Qtr
T26S	R37E	S19 NW Qtr

TRIFOLIUM MACILENTUM* var. *DEDECKERAE

DEDECKER'S CLOVER

Fabaceae (legume) Family

Ranking

Federal: Category 3c
Change: None, 2/28/96
State: None

Description

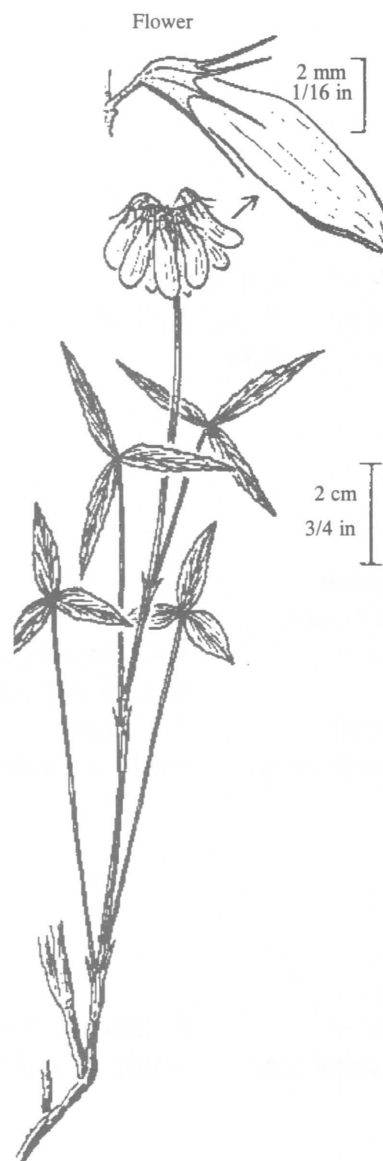
Life Cycle: Perennial
Flowers: Pea-shaped pink or pale violet
Height: 8 inches
Growth Form: Herb, stems ascending

Habitat

General: Pinyon juniper woodland, subalpine coniferous forest, upper montane coniferous forest
Microhabitat: Gravelly canyons and slopes, cracks in granite rock outcrops, and understory of pinyon pines, 7000-8500 feet

Known Locations

Township	Range	Section
T25S	R37E	S04 XX Qtr



PHACELIA NASHIANA

CHARLOTTE'S PHACELIA

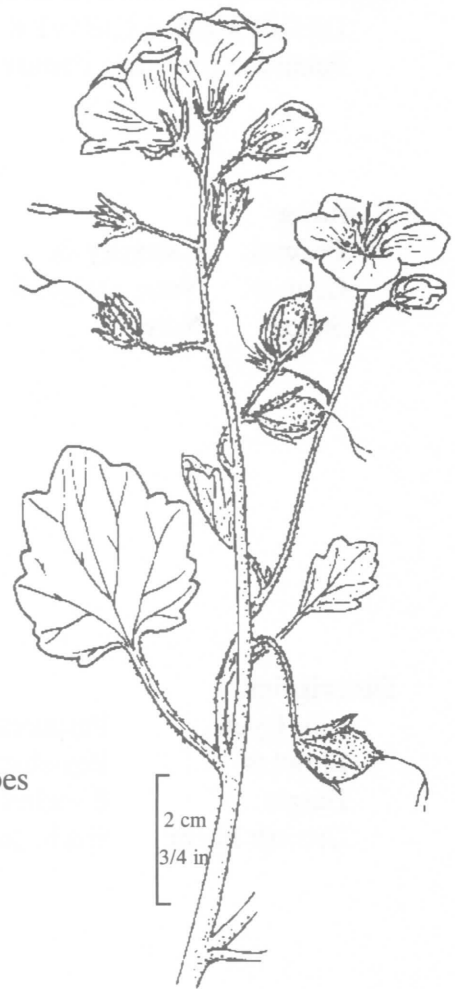
Hydrophyllaceae (waterleaf) Family

Ranking

Federal: Category 2
Change: None, 2/28/96
State: None

Description

Life Cycle: Annual
Flowers: Bell-shaped flowers with white tube,
blue throat with white spots and blue lobes
Height: 2-7 inches
Growth Form: Herb, ascending to erect



Habitat

General: Joshua tree woodland, Mojavean desert scrub, pinyon juniper woodland
Microhabitat: Sandy or rocky areas on steep slopes or flats, 2000-7200 feet

Known Locations

Township	Range	Section
T25S	R38E	S07 NE Qtr
T25S	R38E	S29 NE Qtr
T25S	R38E	S31 SE Qtr
T25S	R38E	S08 NW Qtr

(continued)

***PHACELIA NASHIANA* (continued)**
CHARLOTTE'S PHACELIA
 Hydrophyllaceae (waterleaf) Family

Known Locations		
Township	Range	Section
T26S	R37E	S02 NW Qtr
T26S	R37E	S01 SE Qtr
T26S	R37E	S09 SE Qtr
T26S	R37E	S03 NE Qtr
T26S	R37E	S30 NW Qtr
T26S	R37E	S21 NE Qtr
T26S	R38E	S16 NW Qtr
T26S	R38E	S07 NE Qtr
T26S	R36E	S02 NE Qtr
T27S	R36E	S21 SW Qtr
T27S	R36E	S20 SE Qtr
T27S	R37E	S04 NW Qtr
T27S	R???	SUN XX Qtr
T29S	R37E	S25 SW Qtr
T29S	R38E	S33 XX Qtr
T29S	R39E	SUN XX Qtr
T29S	R39E	SUN XX Qtr
T29S	R38E	SUN XX Qtr
T29S	R38E	SUN XX Qtr
T29S	R39E	SUN XX Qtr
T30S	R37E	S19 NW Qtr
T30S	R37E	S02 SE Qtr
T30S	R37E	S11 XX Qtr
T30S	R37E	S02 SW Qtr
T30S	R37E	S11 SW Qtr

PHACELIA NOVENMILLENSIS
NINE MILE CANYON PHACELIA
Hydrophyllaceae (waterleaf) Family

Ranking

Federal: Category 2
Change: None, 2/28/96
State: None



Description

Life Cycle: Annual
Flowers: Small flowers in curving inflorescence. Corollas bell-shaped, lavender
Height: 2-4 inches
Growth Form: Herb, ascending to erect

Habitat

General: Broadleaved upland forests, pinyon and juniper woodland, upper montane coniferous forest
Microhabitat: Dry, disturbed banks, granitic or metamorphic soils, 6500-8300 feet

Known Locations

Township	Range	Section
T25S	R37E	S28 NE Qtr
T25S	R37E	S21 SE Qtr
T25S	R37E	SUN XX Qtr

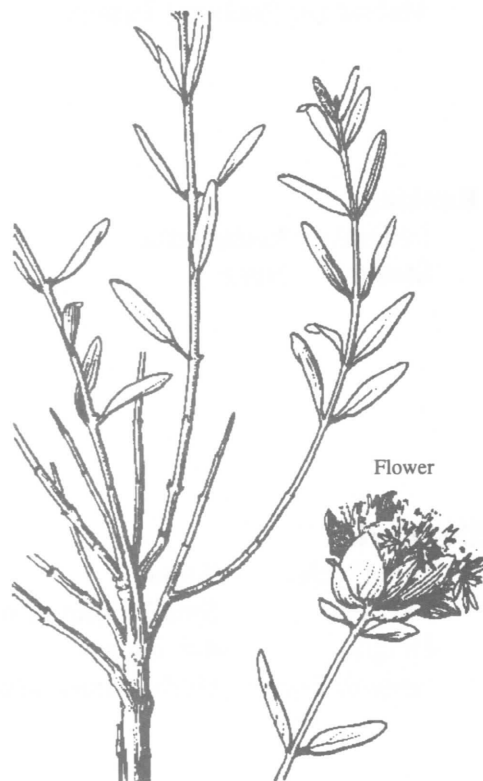
MONARDELLA LINOIDES ssp. OBLONGA

FLAX-LIKE MONARDELLA

Lamiaceae (mint) Family

Ranking

Federal: Category 2
Change: None, 2/28/96
State: None



Description

Life Cycle: Perennial
Flowers: Tubular flowers in large head, corollas rose-purple
Height: 4-20 inches
Growth Form: Erect herb with many stems from woody base

Habitat

General: Lower montane coniferous forest, upper montane coniferous forest
Microhabitat: On dry slopes of yellow pine forest, decomposed granitic soils, also in roadside disturbed areas, about 7000-8400 feet

Known Locations

Township	Range	Section
T09N	R22W	S35 NW Qtr
T09N	R22W	S34 NE Qtr
T09N	R22W	S34 NW Qtr
T09N	R22W	S33 NE Qtr

EREMALCHE KERNENSIS

KERN MALLOW

Malvaceae (mallow) Family

Ranking

Federal: Endangered

State: None

Description

Life Cycle: Annual

Flowers: Small violet to white flowers in leaf axils

Height: 4-8 inches

Growth Form: Herb, stems erect to ascending



Habitat

General: Chenopod scrub, valley & foothill grassland

Microhabitat: On dry, open, sandy to clayey soils, 600-900 feet

Known Locations

Township	Range	Section
T26S	R21E	S10 NE Qtr
T29S	R22E	S32 SW Qtr
T29S	R22E	S19 SW Qtr
T29S	R22E	S21 NW Qtr
T29S	R21E	S28 NW Qtr
T29S	R21E	S11 NW Qtr
T29S	R21E	S02 SE Qtr
T29S	R22E	S15 NE Qtr
T29S	R23E	S29 SW Qtr
T30S	R22E	S28 SW Qtr
T31S	R22E	S04 W Qtr
T31S	R22E	S17 NE Qtr

CLARKIA TEMBLORIENSIS* ssp. *CALIENTENSIS

VASEK'S CLARKIA

Onagraceae (evening primrose) Family

Ranking

Federal: Category 1
Change: None, 2/28/96
State: None

Description

Life Cycle: Annual
Flowers: Lavender-pink flowers with four petals
Height: Less than 3 feet
Growth Form: Herb with erect stem



Habitat

General: Valley and foothill grassland
Microhabitat: Not available at this time

Known Locations

Township	Range	Section
T30S	R30E	SUN XX Qtr
T30S	R30E	S15 SW Qtr
T30S	R30E	SUN XX Qtr

ESCHSCHOLZIA MINUTIFLORA* ssp. *TWISSELMANNII

RED ROCK POPPY

Papaveraceae (poppy) Family

Ranking

Federal: Category 2
Change: None, 2/28/96
State: None

Description

Life Cycle: Annual
Flowers: Yellow flowers with four petals
Height: 2-15 inches
Growth Form: Herb, erect to spreading

Habitat

General: Mojave Desert scrub
Microhabitat: Volcanic tuff



Known Locations

Township	Range	Section
T29S	R38E	SUN XX Qtr
T29S	R38E	SUN XX Qtr
T29S	R38E	SUN XX Qtr
T29S	R38E	SUN XX Qtr
T29S	R39E	SUN XX Qtr
T29S	R39E	SUN XX Qtr
T29S	R39E	SUN XX Qtr
T29S	R39E	SUN XX Qtr
T29S	R39E	SUN XX Qtr
T29S	R38E	SUN XX Qtr
T29S	R38E	SUN XX Qtr
T30S	R40E	S01 SE Qtr
T30S	R40E	S01 NW Qtr
T30S	R37E	S02 W Qtr
T30S	R37E	S01 SE Qtr

ESCHSCHOLZIA RHOMBIPETALA
DIAMOND-PETALED CALIFORNIA POPPY
 Papaveraceae (poppy) Family

Ranking

Federal: Category 2
 Change: None, 2/28/96
 State: None

Description

Life Cycle: Annual
 Flowers: Yellow flowers with four petals
 Height: 2-12 inches
 Growth Form: Erect herb



Habitat

General: Valley and foothill grassland
 Microhabitat: Not available at this time

Known Locations

Township	Range	Section
T29S	R19E	S05 NE Qtr

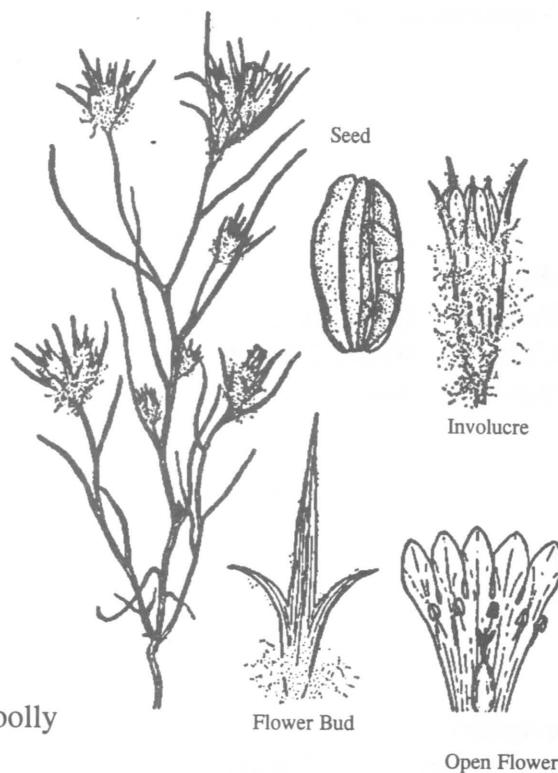
ERIASTRUM HOOVERI
HOOVER'S ERIASTRUM
Polemoniaceae (phlox) Family

Ranking

Federal: Threatened
State: None

Description

Life Cycle: Annual
Flower: Tiny white flowers in woolly heads
Height: 1-6 inches
Growth Form: Erect herb



Habitat

General: Chenopod scrub, valley and foothill grasslands
Microhabitat: On sparsely vegetated alkaline alluvial fans, below 500 feet Also in the trembler range on sandy soils, above 2000 feet

Known Locations

Township	Range	Section
T26S	R22E	S26 NE Qtr
T26S	R22E	S26 NW Qtr
T26S	R21E	S36 XX Qtr
T26S	R22E	S27 NE Qtr
T27S	R18E	S34 XX Qtr
T28S	R19E	S16 XX Qtr
T28S	R18E	S12 NE Qtr
T28S	R21E	S32 SW Qtr
T28S	R24E	S36 SE Qtr

(continued)

***ERIASTRUM HOOVERI* (continued)**

HOOVER'S ERIASTRUM

Polemoniaceae (phlox) Family

Known Locations

Township	Range	Section
T28S	R23E	S18 NW Qtr
T29S	R23E	S20 SE Qtr
T29S	R23E	S19 N Qtr
T29S	R25E	S19 NE Qtr
T29S	R26E	S33 SW Qtr
T29S	R24E	S16 SW Qtr
T29S	R23E	S29 NE Qtr
T29S	R24E	S18 SW Qtr
T29S	R23E	S31 NE Qtr
T29S	R24E	S03 NE Qtr
T29S	R25E	S24 SW Qtr
T30S	R23E	S02 NE Qtr
T30S	R23E	S10 NE Qtr
T30S	R25E	S01 NW Qtr
T30S	R23E	S03 NE Qtr
T30S	R25E	S31 SE Qtr
T31S	R26E	S05 SW Qtr
T31S	R25E	S03 NE Qtr
T31S	R28E	S25 SE Qtr
T31S	R24E	S15 SE Qtr

LINANTHUS ARENICOLA

SAND LINANTHUS

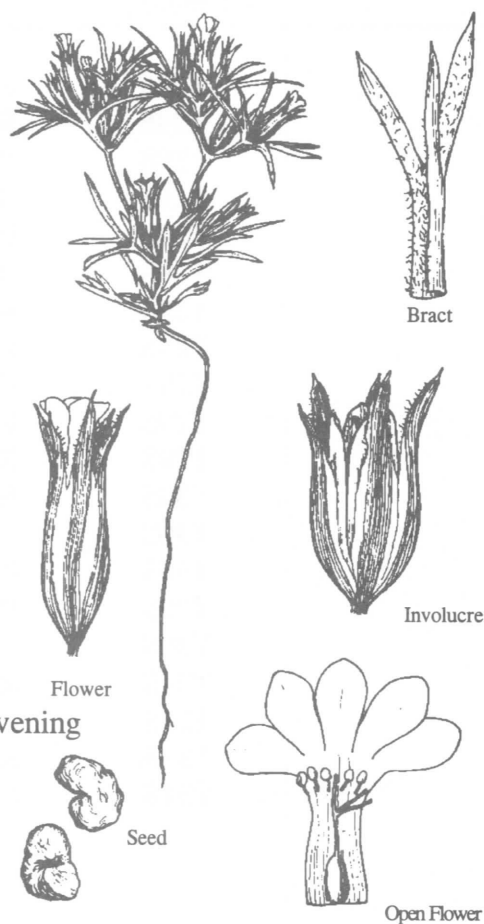
Polemoniaceae (phlox) Family

Ranking

Federal: Category 3c
Change: None, 2/28/96
State: None

Description

Life Cycle: Annual
Flowers: Small flowers, light yellow with
purple throat, open only in the evening
Height: 1/2-3 inches
Growth Form: Erect herb



Habitat

General: Joshua tree woodland, creosote bush scrub, desert chenopod scrub
Microhabitat: Often in Larrea-Atriplex association

Known Locations

Township	Range	Section
T25S	R40E	S27 N Qtr
T25S	R39E	S25 NE Qtr

NAVARRETIA SETILOBA
 PIUTE MOUNTAINS NAVARRETIA
 Polemoniaceae (phlox) Family

Ranking

Federal: Category 1
 Change: Candidate, 2/28/96
 State: None



Description

Life Cycle: Annual
 Flowers: Small mostly white flowers in dense spiny heads
 Height: 4-8 inches
 Growth Form: Erect herb

Habitat

General: Cismontane woodland, pinyon-juniper woodland valley and foothill grassland
 Microhabitat: Red clay soils, other clay soils (?), 5000-7000 feet

Known Locations

	Township	Range	Section
	T09N	R19W	SUN XX Qtr.
	T27S	R32E	S26 NE Qtr.
	T27S	R32E	S13 NW Qtr.
	T27S	R29E	S24 SE Qtr.
	T28S	R29E	S02 S Qtr.
	T30S	R32E	S07 NW Qtr.

ERIOGONUM BREEDLOVEI* var. *BREEDLOVEI

BREEDLOVE'S BUCKWHEAT

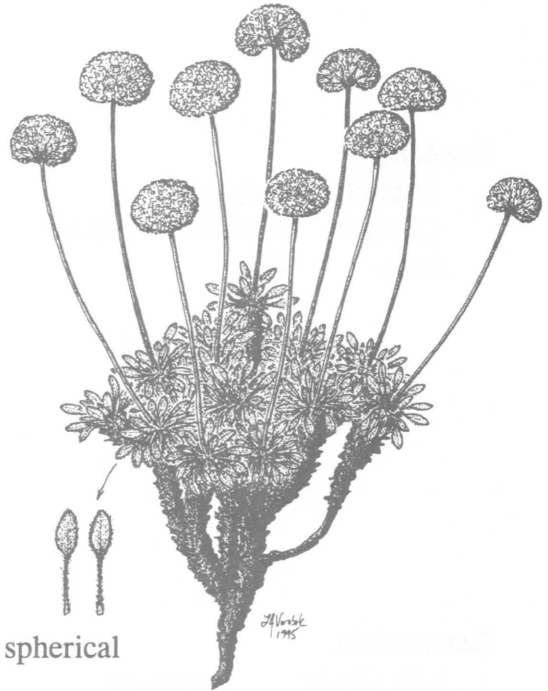
Polygonaceae (buckwheat) Family

Ranking

Federal: Category 1
Change: None, 2/28/96
State: None

Description

Life Cycle: Perennial
Flowers: Many whitish-reddish flowers in spherical inflorescence
Height: Less than 4 inches
Growth Form: Forming mats 4-8 inches in diameter, woody at the base



Habitat

General: Upper montane coniferous forest
Microhabitat: Often on carbonate

Known Locations

Township	Range	Section
T28S	R33E	S25 NW Qtr
T28S	R33E	S36 NE Qtr
T28S	R33E	S23 SE Qtr
T28S	R33E	S14 SE Qtr
T28S	R34E	S19 NW Qtr
T28S	R34E	S08 SW Qtr
T28S	R34E	S07 SE Qtr

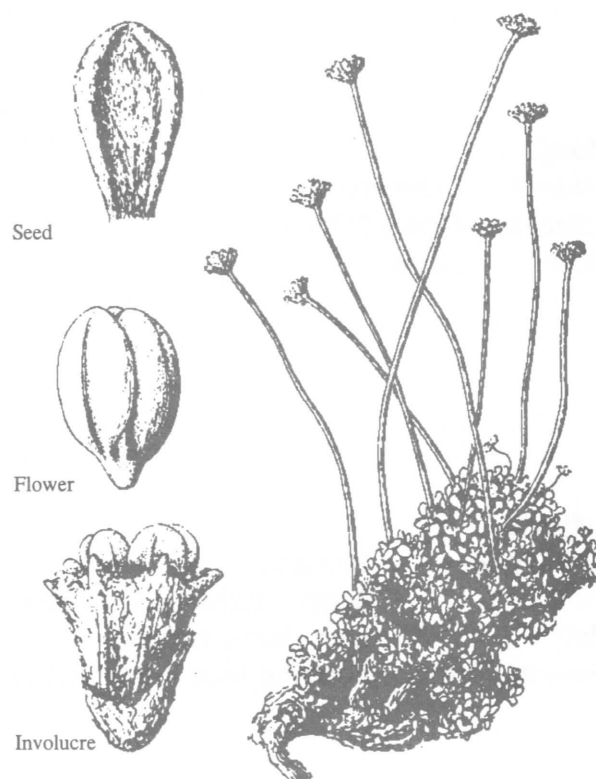
ERIOGONUM KENNEDYI* var. *PINICOLA

KERN BUCKWHEAT

Polygonaceae (buckwheat) Family

Ranking

Federal: Category 2
Change: None, 2/28/96
State: None



Description

Life Cycle: Perennial
Flowers: Many tiny white-rose flowers in small heads
Height: 2-6 inches
Growth Form: Forming cushions 4-20 inches in diameter, woody at the base

Habitat

General: Chaparral, pinyon, Juniper woodland, grows on dry ridges
Microhabitat: Not available at this time

Known Locations

Township	Range	Section
T12N	R14W	S34 SE Qtr
T31S	R35E	S33 NE Qtr
T32S	R35E	SUN XX Qtr
T32S	R34E	S23 SE Qtr

ERIOGONUM BREEDLOVEI* var. *SHEVOCKII

THE NEEDLES BUCKWHEAT

Polygonaceae (buckwheat) Family

Ranking

Federal: Category 3c
Change: None, 2/28/96
State: None



Description

Life Cycle: Perennial
Flowers: Many whitish-reddish flowers in spherical inflorescence
Height: Less than 4 inches
Growth Form: Forming mats 4-8 inches in diameter, woody at the base

Habitat

General: Pinyon Juniper woodland, upper montane coniferous
Microhabitat: Granitic rock outcrops

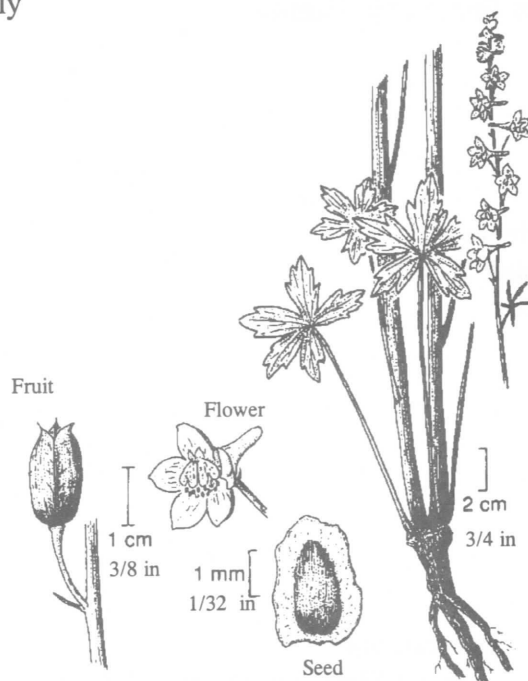
Known Locations

Township	Range	Section
T24S	R37E	S36 SE Qtr
T25S	R36E	S02 NE Qtr
T25S	R35E	S01 W Qtr
T25S	R35E	S19 SE Qtr
T25S	R37E	S21 NE Qtr
T25S	R37E	S04 XX Qtr
T25S	R37E	S14 NW Qtr
T26S	R36E	S01 SW Qtr

DELPHINIUM INOPINUM
 UNEXPECTED LARKSPUR
 Ranunculaceae (buttercup) Family

Ranking

Federal: Category 3c
 Change: None, 2/28/96
 State: None



Description

Life Cycle: Perennial
 Flowers: Small white to light blue flowers with nectar spur
 Height: 3-5 feet
 Growth Form: Erect herb

Habitat

General: Upper montane coniferous forest
 Microhabitat: On open rocky ridgetops, 5000-8000 feet

Known Locations

Township	Range	Section
T28S	R33E	S25 NW Qtr
T28S	R33E	S23 SE Qtr
T28S	R33E	S14 SE Qtr
T28S	R34E	S19 NW Qtr
T28S	R34E	S30 NE Qtr

DELPHINIUM RECURVATUM

RECURVED LARKSPUR

Ranunculaceae (buttercup) Family

Ranking

Federal: Category 2
Change: None, 2/28/96
State: None

Description

Life Cycle: Perennial
Flowers: Small light blue flowers, lower petals white, with nectar spur
Height: 7 inches-3 feet (generally less than 2 feet)
Growth Form: Erect herb

Habitat

General: Chenopod scrub, valley and foothill grassland
Microhabitat: On alkaline soils



Known Locations

Township	Range	Section
T24S	R24E	S35 SW Qtr
T25S	R24E	S25 SE Qtr
T25S	R17E	S03 NW Qtr
T26S	R21E	S10 NW Qtr
T26S	R25E	S31 SW Qtr
T26S	R22E	S26 NW Qtr
T27S	R23E	SUN XX Qtr
T30S	R25E	S36 SW Qtr

ANTIRRHINUM OVATUM
OVAL-LEAVED SNAPDRAGON
 Scrophulariaceae (figwort) Family

Ranking

Federal: Category 3c
 Change: None, 2/28/96
 State: None



Description

Life Cycle: Annual
 Flowers: Cream and pink tubular flowers
 Height: 16 inches
 Growth Form: Herb, stem erect but weak, often clinging to other plants

Habitat

General: Cismontane woodland, pinyon Juniper woodland, valley and foothill grassland
 Microhabitat: Clay or gypsum soils, often in alkaline sites

Known Locations

Township	Range	Section
T27S	R17E	S36 SE Qtr
T28S	R19E	S01 NW Qtr
T28S	R18E	S11 SE Qtr

CORDYLANTHUS MOLLIS* ssp. *HISPIDUS

HISPID BIRD'S-BEAK

Scrophulariaceae (figwort) Family

Ranking

Federal: Category 2
Change: None, 2/28/96
State: None



Description

Life Cycle: Annual
Flowers: Small whitish hardy flowers in dense inflorescences
Height: 4-16 inches
Growth Form: Erect herb, branched from the base

Habitat

General: Meadows
Microhabitat: In damp, alkaline soils

Known Locations

Township	Range	Section
T32S	R27E	S26 SW Qtr

MIMULUS PICTUS

CALICO MONKEYFLOWER

Scrophulariaceae (figwort) Family

Ranking

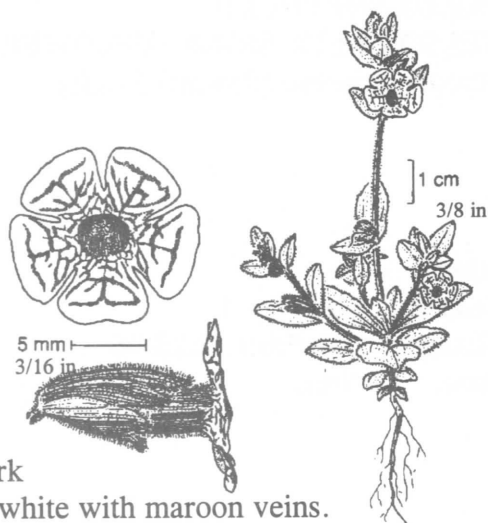
Federal: Category 3c
Change: None, 2/28/96
State: None

Description

Life Cycle: Annual
Flowers: Tubular flowers, the tube dark brownish-maroon, the lobes white with maroon veins.
Height: 3/4-15 inches
Growth Form: Erect herb

Habitat

General: Broad leaved upland forest, cismontane woodland
Microhabitat: In bare ground around gooseberry bushes or around granite rock outcrops, 1000-4000 feet



Known Locations

Township	Range	Section
T11N	R17W	SUN XX Qtr
T11N	R16W	S30 NW Qtr
T11N	R17W	S13 N Qtr
T25S	R30E	S32 SW Qtr
T26S	R35E	S05 SW Qtr
T26S	R29E	S27 E Qtr
T26S	R29E	S01 XX Qtr
T26S	R30E	S04 XX Qtr
T27S	R32E	S17 NE Qtr
T27S	R29E	S26 NW Qtr
T27S	R30E	S30 NW Qtr
T27S	R30E	S18 NW Qtr
T28S	R29E	S11 NE Qtr
T28S	R30E	S23 XX Qtr
T28S	R31E	S32 SW Qtr
T29S	R29E	S05 S Qtr
T31S	R32E	S21 SW Qtr
T31S	R31E	S01 XX Qtr

MIMULUS SHEVOCKII**KELSO CREEK MONKEYFLOWER**

Scrophulariaceae (figwort) Family

Ranking

Federal: Category 1
Change: Candidate, 2/28/96
State: None

Description

Life Cycle: Annual
Flowers: Tubular flowers with two lips, the upper lip maroon-purple, the lower lip yellow with maroon dots at the base
Height: 3/4-5 inches
Growth Form: Erect herb

**Habitat**

General: Joshua tree woodland, Pinyon Juniper woodland
Microhabitat: Mostly known from the Joshua Tree-xeric conifer woodland community in the high desert, in loose, granitic, sandy soil

Known Locations

Township	Range	Section
T25S	R33E	S15 XX Qtr
T26S	R33E	S01 NW Qtr
T27S	R35E	S34 W Qtr
T27S	R35E	S33 SE Qtr
T27S	R35E	S28 NE Qtr
T27S	R35E	S34 SW Qtr
T27S	R25E	S20 SW Qtr
T28S	R35E	S05 NW Qtr

FREMONTODENDRON MEXICANUM

MEXICAN FLANNELBUSH

Sterculiaceae (cacao) Family

Ranking

Federal: Category 2

Change: Candidate, 2/28/96

State: None



Description

Life Cycle: Perennial

Flowers: Large, showy flowers, generally orange, reddish at base

Height: Less than 23 feet

Growth Form: Shrub, small tree, erect and unbranched near ground.

Habitat

General: Closed cone coniferous forest, chaparral, cismontane woodland

Microhabitat: Usually scattered along the borders of creeks or in dry canyons, sometimes on gabbro soils, about 1000 foot elevation

Known Locations

Township	Range	Section
T09N	R18W	S24 XX Qtr

CUPRESSUS ARIZONICA* ssp. *NEVADENSIS

PIUTE CYPRESS

Cupressaceae (cypress) Family

Ranking

Federal: Category 3c

Change: None, 2/28/96

State: None

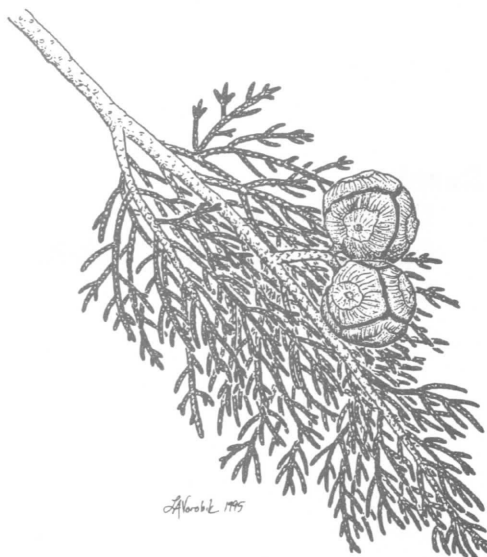
Description

Life Cycle: Perennial

Height: 16-80 feet

Growth Form: Tree

Bark: Fibrous--not peeling



Habitat

General: Closed cone coniferous forest

Microhabitat: On dry slopes, 4000-6000 feet

Known Locations

Township	Range	Section
T25S	R32E	S25 SE Qtr
T25S	R32E	S26 SE Qtr
T25S	R32E	S25 NW Qtr
T25S	R33E	S02 NE Qtr
T25S	R33E	S06 NW Qtr
T27S	R32E	S28 NW Qtr
T27S	R32E	S28 NE Qtr
T27S	R32E	S28 SW Qtr
T27S	R32E	SUN XX Qtr
T27S	R33E	S19 SW Qtr
T27S	R34E	S06 N Qtr
T27S	R34E	S04 SW Qtr
T27S	R34E	S09 E Qtr
T28S	R32E	S04 SE Qtr
T28S	R32E	S04 NE Qtr
T30S	R34E	S26 XX Qtr

ALLIUM SHEVOCKII

SPANISH NEEDLE ONION

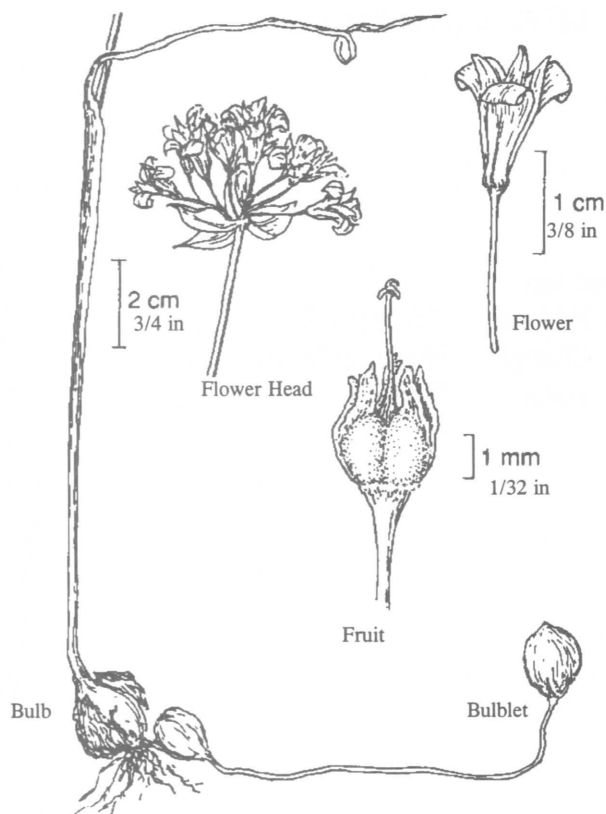
Liliaceae (lily)Family

Ranking

Federal: Category 2

Change: None, 2/28/96

State: None



Description

Life Cycle: Perennial

Flowers: 12-30 flowers in an umbel flower, white or green below, maroon near the tips

Height: 4-8 inches

Growth Form: Erect herb with onion smell

Bulb: 1/4-3/5 inches

Habitat

General: Upper montane coniferous forest, 7200 to 7700 feet

Microhabitat: In soil pockets on rock outcrops and talus slopes, bulbs mostly on margins of outcrops where it is more stable

Known Locations

Township	Range	Section
T25S	R37E	S04 SW Qtr
T25S	R37E	S04 XX Qtr

CALOCHORTUS STRIATUS

ALKALI MARIPOSA LILY

Liliaceae (lily) Family

Ranking

Federal: Category 2
Change: None, 2/28/96
State: None

Description

Life Cycle: Perennial
Flowers: Showy flowers with three white-lavender petals with purple veins
Height: 4-18 inches
Growth Form: Erect herb from bulb, no bulblets



Habitat

General: Chenopod scrub, meadows (alkaline)
Microhabitat: Alkaline meadows and ephemeral washes, 2500-4500 feet

Known Locations

Township	Range	Section
T09N	R10W	S36 SW Qtr
T09N	R10W	S36 SE Qtr
T09N	R10W	S22 SE Qtr
T09N	R10W	S36 NW Qtr
T09N	R10W	S26 SW Qtr
T09N	R10W	S33 NW Qtr
T25S	R33E	S27 NE Qtr
T25S	R33E	S15 SE Qtr
T25S	R36E	S08 SE Qtr
T26S	R33E	S31 SE Qtr
T26S	R34E	S31 SW Qtr

(continued)

CALOCHORTUS STRIATUS (continued)

ALKALI MARIPOSA LILY

Liliaceae (lily) Family

Known Locations

Township	Range	Section
T26S	R34E	S32 NE Qtr
T26S	R35E	S07 NE Qtr
T26S	R33E	S31 N Qtr
T26S	R34E	S16 NW Qtr
T26S	R34E	S11 SE Qtr
T27S	R33E	S06 SW Qtr
T29S	R35E	S23 SE Qtr
T30S	R37E	S10 NE Qtr
T31S	R25E	S13 NE Qtr

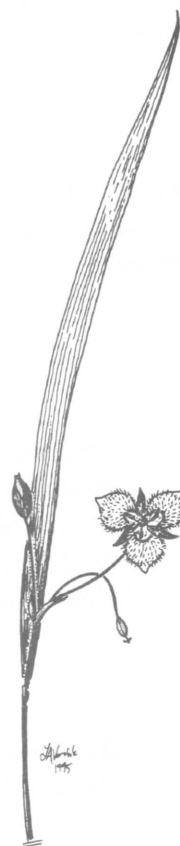
CALOCHORTUS WESTONII
 SHIRLEY MEADOWS STAR-TULIP
 Liliaceae (lily) Family

Ranking

Federal: Category 1
 Change: None, 2/28/96
 State: None

Description

Life Cycle:
 Flowers: Showy flowers with three petals,
 color varies from white to purple
 or blue
 Height: 4-8 inches
 Growth Form: Erect herb from bulb



Habitat

General: Broadleaved upland forest, lower montane coniferous forest
 Microhabitat: Meadows, open woodlands, 5000-6500 feet

Known Locations

Township	Range	Section
T25S	R32E	S32 XX Qtr
T25S	R32E	S29 SE Qtr
T25S	R32E	S16 E Qtr
T26S	R32E	S07 SE Qtr
T26S	R32E	S04 NW Qtr

FRITILLARIA STRIATA

STRIPED ADOBE-LILY

Liliaceae (lily) Family

Ranking

Federal: Category 1

Change: Candidate, 2/28/96

State: Threatened

Description

Life Cycle: Perennial

Flowers: Nodding, showy flowers with six petals, pink, white, or burgundy, fragrant

Height: 10-25 inches

Growth Form: Erect herb from bulb



Habitat

General: Blue oak woodland, valley and foothill grassland

Microhabitat: Heavy clay adobe soils, 1000-4000 feet

Known Locations

Township	Range	Section
T12N	R17W	SUN XX Qtr
T12N	R17W	SUN XX Qtr
T12N	R17W	SUN XX Qtr
T26S	R29E	S30 NW Qtr
T27S	R29E	S10 NW Qtr
T27S	R29E	S24 SW Qtr
T27S	R31E	S19 SE Qtr
T27S	R29E	S03 SE Qtr
T27S	R29E	S21 SE Qtr
T27S	R29E	S04 NE Qtr
T28S	R29E	S13 SE Qtr
T28S	R30E	S18 NE Qtr
T28S	R29E	S36 NW Qtr
T28S	R29E	S14 SE Qtr
T28S	R29E	S13 SW Qtr

PUCCINELLIA PARISHII
PARISH'S ALKALI GRASS
Poaceae (grass) Family

NO PICTURE

Ranking

Federal: Proposed
State: None

Description

Life Cycle: Annual
Flowers: Green minute flowers
Height: 1-3 inches
Growth Form: Herb with decumbent to erect stems

Habitat

General: Meadows, Joshua tree woodland, Mojave desert scrub
Microhabitat: Alkali seeps in deserts, 2900 feet

Known Locations

Township	Range	Section
T09N	R11W	SUN XX Qtr

GLOSSARY

- Alkaline** — Soils containing high levels of soluble salts.
- Ascending** — Curving or angling upward from base as in the stems of a plant.
- Asteraceae (composital) Sunflower family** — There are two types (ray and disk) of tiny flowers that make up the flower head--this publication treats the head as the flower.
- Bract** — A leaflike structure at the base of a flower.
- Bulb** — Short underground stem and the fleshy leaves or leaf bases attached to and surrounding it, e.g., an onion.
- Bulblet** — Small bulb generally produced at the base of a bulb.
- Chaparral** — A vegetation type made up of thick stands of shrubs.
- Chenopod Scrub** — Scrubland dominated by plants in the goosefoot family.
- Colluvial** — Series of washes in an area.
- Corolla** — Collective term for flower petals.
- Decumbent** — Mostly lying flat on the ground but with tips curving up.
- Disk Flower** — Small tube flowers in the center of the flower head.
- Ephemeral** — Intermittent ephemeral pools or streams that only exist for part of a year or after heavy storms.
- Fruit** — Seed Pod.
- Head** — A dense cluster of small flowers that makeup the inflorescence.
- Inflorescence** — The flowering part of a plant, a flower cluster.
- Involucre** — Group of bracts more or less held together as a unit.
- Leaf Axil** — The upper angle between the stems and leaf.
- Montane** — Mountains.
- Nectar Spur** — A spur or projection on the back of a flower that may or may not contain nectar.
- Nodes** — The position on the stem where leaves or branches originate.
- Playas** — The flat, floored bottom of an undrained desert basin.
- Prostrate** — Lying flat on the ground.
- Ray Flower** — Showy flowers found on the outside of the asteraceae flower head.
- Stamen** — Male reproductive part of flower.
- Sub alpine** — Below alpine but above mountain.
- Subshrub** — A small shrub.
- Talus** — Rock debris at the base of a cliff or slope.
- Umbel** — The flowers are arranged like an umbrella.
- Vernal Pool** — Ephemeral pool which contains water in the spring.
- Volcanic Tuff** — A rock composed of the finer kinds of volcanic destructus usually more or less stratified.

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