Endangered, Threatened, Rare, and Special Plants



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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). 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 NDDB, transferred the project to the Department of Fish and Game. The NDDB contains current information on the endangered, rare, and threatened species, as well as other species of concern. The NDDB 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, NDDB. The NDDB 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.

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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. 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 (FR: 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.

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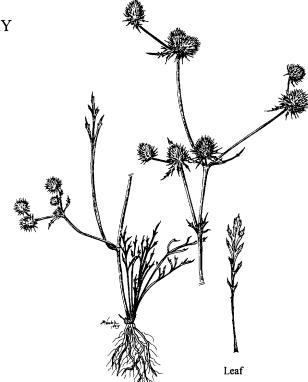
ERYNGIUM SPINOSEPALUM

Category 2

None

None, 2/28/96

SPINY-SEPALED BUTTON-CELERY Apiaceae (carrot) Family



Description

Ranking

Federal: Change:

State:

Life Cycle:	Biennial to perennial	
Flowers:	Greenish white to white tiny flowers in spiny head	ls
Height:	12-30 inches	
Growth:	Erect; branched herb	

Habitat

General:	Vernal pools, valley grassland
Microhabitat:	Not available at this time

Township	Range	Section	
T15S	R25E	S16 SW Qtr	
T16S	R25E	S34 SE Qtr	
T17S	R27E	S26 N Qtr	
T17S	R28E	S34 NW Qtr	
T17S	R28E	S23 SE Qtr	
T17S	R26E	S02 SW Qtr	
T17S	R27 E	S14 SW Qtr	
T18S	R27E	S21 SE Qtr	
T19S	R26E	SUN XX Qtr	
T19S	R27E	S05 SE Qtr	
	T15S T16S T17S T17S T17S T17S T17S T17S T18S T18S T19S	T15S R25E T16S R25E T17S R27E T17S R28E T17S R28E T17S R26E T17S R27E T17S R26E T17S R27E T18S R27E T19S R26E	T15S R25E S16 SW Qtr T16S R25E S34 SE Qtr T17S R27E S26 N Qtr T17S R28E S34 NW Qtr T17S R28E S23 SE Qtr T17S R26E S02 SW Qtr T17S R27E S14 SW Qtr T17S R27E S14 SW Qtr T18S R27E S21 SE Qtr T19S R26E SUN XX Qtr

OREONANA PURPURASCENS

PURPLE MOUNTAIN PARSLEY Apiaceae (carrot) Family

Ranking Federal: Change: State:	Category 3c None, 2/28/96 None]2 cm inflorescence 3/4 in	
Description			
Life Cycle	: Perennial		
Flowers:	Tiny purple and white flowe in spherical inflorescence	1/32 in 3/16 i	in
Height:	1/3-1 inch	fruit 100 m 0.101	
Growth:	Erect herb	14	

Habitat

General:	Subalpine coniferous forest, upper montane coniferous forest
Microhabitat	Open, metamorphic ridgetops in red fir forest, about 7500-9000 feet

Known Locations

Known Locations				
	Township	Range	Section	
				· · ·
	T14S	R29E	S15 NE Qtr	
	T14S	R29E	S23 SW Qtr	
	T14S	R30E	S19 NW Qtr	
	T14S	R29E	S26 SE Qtr	
	T14S	R29E	S15 SW Qtr	
	T14S	R29E	S23 NE Qtr	
	T14S	R29E	S22 NE Qtr	
	T14S	R29E	S14 NW Qtr	
	T14S	R29E	S24 S Qtr	
	T18S	R31E	S29 E Qtr	
	T18S	R30E	SUN XX Qtr	
	T18S	R31E	S07 XX Qtr	
	T19S	R31E	S21 SE Qtr	
			-	

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OREONANA PURPURASCENS (continued)

PURPLE MOUNTAIN PARSLEY Apiaceae (carrot) Family

Known Locations

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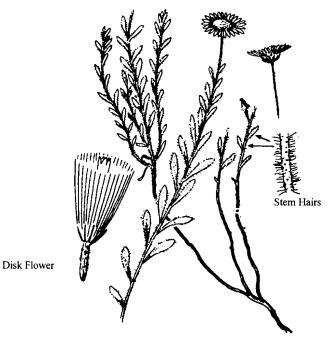
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	Township	Range	Section	
·····				
	T19S	R30E	S01 SWQtr	
	T19S	R31E	S22 SW Qtr	
	T19S	R31E	S27 NW Qtr	
	T20S	R31E	S10 N Qtr	
	T20S	R31E	S03 NE Qtr	
	T21S	R31E	S14 SW Qtr	
	T21S	R32E	S31 SW Qtr	
	T21S	R32E	S19 XX Qtr	
	T21S	R32E	S30 NE Qtr	
	T21S	R32E	S10 NW Qtr	
	T21S	R31E	S14 E Qtr	
	T21S	R31E	S36 SE Qtr	
	T21S	R32E	S31 NE Qtr	

ERIGERON AEQUIFOLIUS

HALL'S DAISY Asteraceae (sunflower) Family



Ranking

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

Description

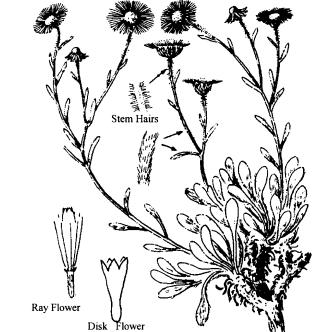
Life Cycle:	Perennial
Flowers:	Center yellow with outer blue petals
Height:	4-8 inches
Growth:	Ascending to erect herb from woody base

Habitat

General:Broadleafed upland forest, lower montane coniferous forestMicrohabitat:On dry rock outcrops in granite walls and canyons, 6000-7000 feet

Township	Range	Section	
T18S	R33E	S21 NE Qtr	
T20S	R33E	S08 XX Qtr	
T20S	R32E	S18 NW Qtr	
T21S	R32E	S13 NE Qtr	
		-	

ERIGERON MULTICEPS KERN RIVER DAISY Asteraceae (sunflower) Family



Ranking

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

escription	Disk	Flower	44	() TH
Life Cycle:	Perennial			,
Flowers:	Tiny flowers in head, the center white	flowers yell	low, the out	er ones purple to
Height:	5-8 inches			
Growth:	Low growing herb with decum	bent to ascen	nding branc	hes

Habitat

General:	Dry meadows
Microhabitat:	River banks and dry meadow borders

INDUM LUCATIONS			
	wnship	Range	Section
	T 400	D a a F	
	T19S	R33E	SUN XX Qtr
	T20S	R33E	S14 XX Qtr
	T21S	R35E	S17 W Qtr
	T21S	R35E	S21 XX Qtr

PSEUDOBAHIA PEIRSONII

SAN JOAQUIN ADOBE SUNBURST Asteraceae (sunflower) Family

Ranking

Federal: Proposed State: Endangered

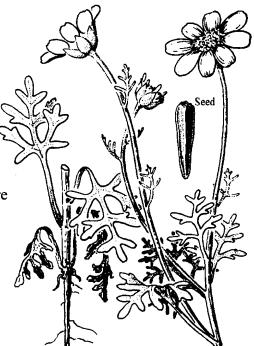
Description

Life Cycle: Flowers:

Height:

Growth:

Annual Center and petals of flower are yellow 8 inches-2 feet Erect herb branching above the base



Habitat

Valley and foothill grassland

General: Microhabitat:

Grassy valley floors and rolling foothills in heavy clay soil, 500-2500 feet

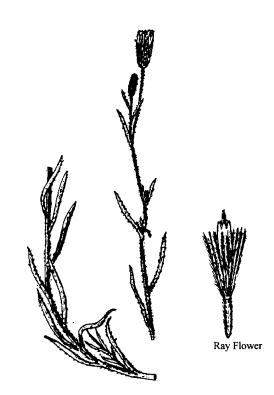
Township	Range	Section	
T16S	R24 E	S17 XX Qtr	
T19S	R27 E	S06 XX Qtr	
T20S	R27 E	S07 XX Qtr	
T20S	R24 E	S11 XX Qtr	
T21S	R28E	S34 NE Qtr	
T21S	R28E	S19 E Qtr	
T21S	R28E	S18 NW Qtr	
T21S	R28E	S26 NW Qtr	
T21S	R29E	S30 SW Qtr	
T21S	R28E	S08 S Qtr	
T21S	R28E	S07 W Qtr	
T21S	R27E	S11 SE Qtr	
T21S	R27 E	S12 SE Qtr	
T21S	R27 E	S13 SW Qtr	
T23S	R28E	S26 SE Qtr	
T23S	R28E	S35 SE Qtr	
T23S	R28E	S28 S Qtr	
T24S	R27E	S17 SW Qtr	
T24S	R27E	S34 NW Qtr	

RAILLARDIOPSIS MUIRII MUIR'S RAILLARDELLA

Asteraceae (sunflower) Family

Ranking

Federal:Category 3cChange:None, 2/28/96State:None



Description

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

Habitat

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

Known Locations _____

Township	Range	Section	
T15S	R30E	S34 E Qtr	
T16S	R30E	S04 S Qtr	
T16S	R30E	S01 N Qtr	
T16S	R31E	S02 NW Qtr	
T24S	R32E	S10 S Qtr	
T24S	R34 E	S12 SW Qtr	

HACKELIA SHARSMITHII

SHARSMITH'S STICKSEED Boraginaceae (borage) Family

Ranking

Federal:Category 3cChange:None, 2/28/96State:None

Description

Life Cycle: Flowers:

Height:

Growth:

Perennial Small pale blue flowers with yellow centers 4-12 inches Erect herb



Habitat

General: Microhabitat: Subalpine coniferous forest, alpine boulder and rock fields Cracks, crevices in granite cliffs, large boulder talus, 9,000-12,000 feet

MIUWH LOCATIONS				
	Township	Range	Section	
	T13S	R33E	S35 SW Qtr	
	T14S	R33E	S25 SE Qtr	
	T16S	R33E	S13 N Qtr	
	T16S	R33E	S12 NW Qtr	
	T16S	R34E	S07 NE Qtr	
	T16S	R34E	S34 N Qtr	
	T16S	R34E	S33 NE Qtr	
	T16S	R33E	S26 N Qtr	
	T16S	R34E	S04 SW Qtr	
	T16S	R34E	S36 SE Qtr	
	T16S	R34E	S35 NW Qtr	
	T17S	R34E	S08 SE Qtr	
	T17S	R34E	S09 S Qtr	
	T19S	R36E	S30 SE Qtr	

PINYON ROCK CRESS Brassicaceae (mustard) Family

Ranking

Federal: None State: None



Description

Life Cycle:	Perennial
Flowers:	Small purple flowers with four petals
Height:	4-10 inches
Growth:	Herb, several stemmed from woody base

Habitat

General: Microhabitat: Joshua tree woodland, pinyon juniper woodland, creosote bush scrub Granitic, gravelly slopes and mesas between 4000-8000 feet. Often under desert shrubs which support it as it grows

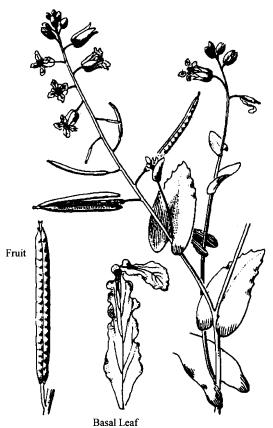
Known Locations				
	Township	Range	Section	
	T238 T248	R35E R35E	SUN XX Qtr SUN XX Qtr	

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 grasslandMicrohabitat:Not available at this time

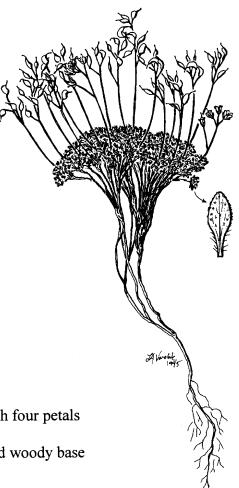
 Township	Range	Section	
T22S T24S	R25E R27E	S13 SE Qtr S07 NW Qtr	

DRABA SHARSMITHII MT. WHITNEY DRABA

Brassicaceae (mustard) Family

Ranking

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



Life Cycle:

Description

Flowers: Height: Growth:

Perennial Small yellow flowers with four petals Less then 4 inches Herb with dense mats and woody base

Habitat

General:Alpine boulder and rock field, subalpine coniferous forestMicrohabitat:Protected rock crevices, over 1500 feet

Known Locations _____

 Township	Range	Section	
T13S	R33E	S34 XX Qtr	
T14S	R33E	S03 XX Qtr	
T16S T16S	R34E R34E	S04 XX Qtr S03 XX Qtr	
T14S T16S	R33E R34E	S03 XX Qtr S04 XX Qtr	

NEMACLADUS TWISSELMANNII

TWISSELMANN'S NEMACLADUS Campanulaceae (bellflower) Family

Ranking

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



Description

Life Cycle: Flowers:

Height: Growth Form: Annual Small flowers with white, hairy petals in head-like inflorescence 1-4 inches Herb, the erect stems forming small cushions

Habitat

General:Jeffrey pine forestMicrohabitat:Granitic soils, open ridgetops and gentle slopes, about 7300 feet

Known Locations				
	Township	Range	Section	
	T238	R35E	33 SW Qtr	

ATRIPLEX CORDULATA

HEARTSCALE Chenopodiaceae (goosefoot) Family

Chenopodiaceae	(goosefoot) Family		m
Ranking Federal: Categ Change: None,	ory 2 , 2/28/96	Fr Bracts	in
State: None	, 2/28/90	Pr Bracis	
Description			
Life Cycle:	Annual		
Flowers:	Minute green flowers in small clusters in the leaf axils		
Height:	4-20 inches	Nos 9	
Growth Form:	Herb, branches from the base, ascending to erect, leaves and stems greyish, rigid		
Habitat		S mm	
General:	Chenopod scrub, valley and foothill grassland	3/16 in	
Microhabitat:	Alkaline flats in the central valley	Leaf	
Known Locations .		•	_

KIIUWII LUCAUUIIS				
	Township	Range	Section	
	T100	DOOD	004333 04	
	T18S	R23E	S24XX Qtr	
	T22S	R26E	S30 SW Qtr	
	T23S T24S	R25E R24E	S33 XX Qtr S33 XX Qtr	
	T245 T23S	R24E R24E	S16 XX Qtr	
	1233	1/2415	DIO VV Cu	

ATRIPLEX DEPRESSA

BRITTLESCALE Chenopodiaceae (goosefoot) Family

Ranking Federal: None None State:



Description

Life Cycle:	Annual
Flowers:	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 grassland
Microhabitat:	Alkaline or clay soils, under 600 feet

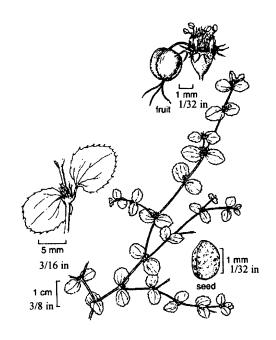
 Township	Range	Section	
T18S	R25E	SUN XX Qtr	
T24S	R24E	S33 NW Qtr	

CHAMAESYCE HOOVERI

HOOVER'S SPURGE Euphorbiaceae (spurge) Family

Ranking

Federal: Proposed State: None



Description

Life Cycle:	Annual
Flowers:	Tiny flowers surrounded by white bracts
Height:	Stems 2-8 inches long
Growth Form:	Herb, stems prostrate to decumbent

Habitat

General:Vernal PoolsMicrohabitat:Not available at this time

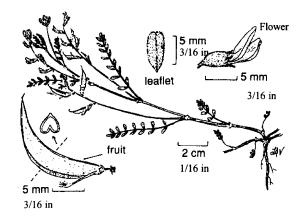
Known Locations				
	Township	Range	Section	
	T16S	R25E	S34 SE Qtr	
	T17S	R25E	S18 NE Qtr	

ASTRAGALUS SHEVOCKII

SHEVOCK'S MILKVETCH Fabaceae (legume) Family

Ranking

Federal:Category 3cChange:None, 2/28/96State:None



Description

Life Cycle:	Perennial pea-shaped
Flowers:	Small cream colored flowers
Height:	Stems 4-10 inches long
Growth Form:	Herb, stems decumbent to ascending

Habitat

General:Upper montane coniferous forestMicrohabitat:Open Jeffrey pine forest, in granitic sand and pine needle tuff, near
6200 feet

Known Locations _____

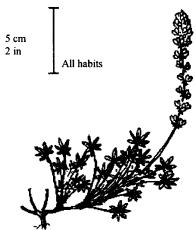
 Township	Range	Section	
T19S	R32E	S34 SW Qtr	
T19S	R???	SUN XX Qtr	
T20S	R32E	S11 NW Qtr	
T20S	R33E	S07 NW Qtr	
T20S	R33E	S16 NW Qtr	
T20S	R33E	S15 SW Qtr	

LUPINUS LEPIDUS var. CULBERTSONII

HOCKETT MEADOWS LUPINE Fabaceae (legume) Family

Ranking

Federal:Category 3cChange:None, 2/28/96State:None



Description

Life Cycle:	Perennial
Flowers:	Pink, violet, or blue pea-shaped flowers with white or yellow patch on upper petal
Height:	6-16 inches
Growth Form:	Herb, stems short, decumbent, forming mats

Habitat

General:	Meadows
Microhabitat:	Not available at this time

Known Locations				
	Township	Range	Section	
	T16S	R33E	S05 XX Qtr	
	T18S	R31E	S20 XX Qtr	

LUPINUS PADRE-CROWLEYI

FATHER CROWLEY'S LUPINE Fabaceae (legume) Family



Ranking

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

Description

Life Cycle:	Perennial
Flowers:	Cream-pale yellow pea-shaped flowers
Height:	20-30 inches
Growth:	Herbs with erect stems form a woolly mat

Habitat

General:Great basin scrub, riparian scrub, upper montane coniferous forestMicrohabitat:Scattered on steep avalanche chutes, in sunny sites, drainages and in
valley bottoms, 8,200-10,200 feet

Known Locations				
	Township	Range	Section	
	T19S	R35E	S36 XX 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: Flowers: Height: Growth Form:

Perennial Pea-shaped pink or pale violet flowers 8 inches Herb, stems ascending Flower

2 mm 1/16 in

2 cm 3/4 in

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

 Township	Range	Section	
T19S T21S	R36E R34E	S30 NE Qtr S30 SE Qtr	

RIBES TULARENSE

SEQUOIA GOOSEBERRY Grossulariaceae (gooseberry) Family

Ranking

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



Description

Life Cycle:	Perennial	11	
Flowers:	Greenish-white flowers	()	
Height:	Less than 6 feet		
Growth Form:	Low spreading shrub with 3 spines at eac	h node	

Habitat

General:	Lower and upper montane coniferous forests
Microhabitat:	Between 5000-6000 feet in the Southern Sierra

 Township	Range	Section	
T15S	R29E	S34 SE Qtr	
T15S	R29E	S20 SW Qtr	
T15S	R29E	S17 SE Qtr	
T15S	R29E	S20 NW Qtr	
T17S	R30E	S05 XX Qtr	
T17S	R29E	S26 SE Qtr	
T17S	R29E	S01 XX Qtr	
		-	

PHACELIA NASHIANA CHARLOTTE'S PHACELIA Hydrophyllaceae (waterleaf) Family

Ranking

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

Description		V2S
Life Cycle:	Annual	J.
Flowers:	Bell-shaped flowers with white tube,	
	blue throat with white spots and blue lobes	N.S.
Height:	2-7 inches	
Growth Form:	Herb, ascending to erect	2 cm 3/4 in

Habitat

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

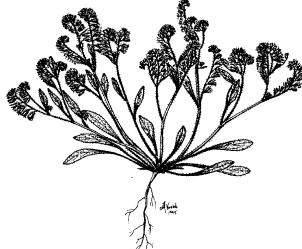
Known Locations			
	Township	Range	Section
	T24S	R37E	S32 XX Qtr

PHACELIA NOVENMILLENSIS

NINE MILE CANYON PHACELIA Hydrophyllaceae (waterleaf) Family

Ranking

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



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Description

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

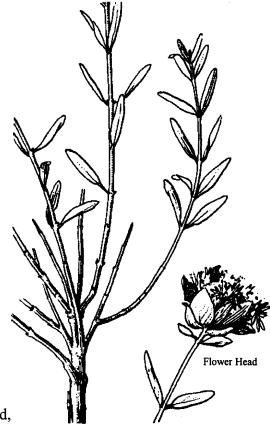
Habitat

General:	Broadleafed upland forests, Pinyon and Juniper woodland, upper
	montane coniferous forest
Microhabitat:	Dry disturbed banks, granitic or metamorphic soils, 6500-8300 feet

Township	Range	Section	
T21S	R36E	S07 XX Qtr	
T22S	R34E	SUN XX Qtr	
T22S	R34E	SUN XX Qtr	
T24S	R36E	SUN XX Qtr	
T24S	R36E	SUN XX Qtr	
T24S	R37E	SUN XX Qtr	
T24S	R37E	S20 NE Qtr	
T24S	R37E	S32 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:	Perennial Tubular flowers in large head,
	corollas rose-purple
Height:	4-20 inches
Growth Form:	Erect herb with many stems from woody base

Habitat

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

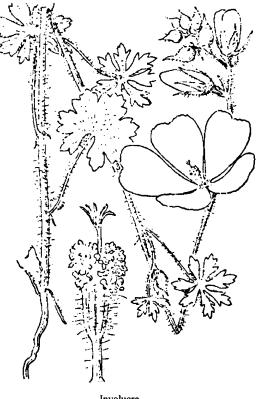
Known Locations				
	Township	Range	Section	
	T23S	R32E	S28 SW Qtr	

SIDALCEA KECKII **KECK'S CHECKERBLOOM**

Malvaceae (mallow) Family)

Ranking

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



Involucre

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Description

Life Cycle: Flowers: Height: Growth Form:

Annual Small deep pink flowers 6-14 inches Erect herb

Habitat

General: Cismontane woodland Microhabitat: Grassy slopes in blue oak woodland, 1200 feet

Known Locations _____

• <u>••••••••••••••••••••••••••••••••••••</u>	Township	Range	Section	
	T22S T24S	R28E R29E	S11 NW Qtr S27 SW Qtr	

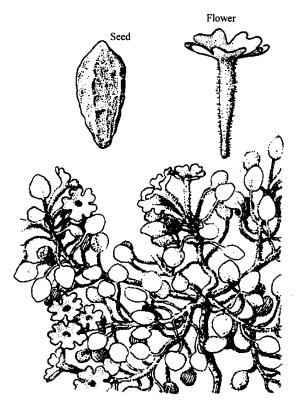
ABRONIA ALPINA

RAMSHAW MEADOWS ABRONIA

Nyctaginaceae (four o'clock) Family

Ranking

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



Description

Life Cycle:	Perennial
Flowers:	Small white to lavender-pink flowers
Height:	Forming mats, 4-8 inches in diameter
Growth:	Mat-forming herb; stems prostrate

Habitat

General:	Meadows
Microhabitat:	Gravelly margins of meadows

Known Locations _____

 Township	Range	Section	
T18S	R35E	S30 NW Qtr	
T18S	R34E	S24 XX Qtr	

CLARKIA SPRINGVILLENSIS SPRINGVILLE CLARKIA Onagraceae (evening primrose) Family Ranking

Federal: Category 1 Change: Candidate, 2/28/96 State: Endangered

Description

Life Cycle: Flowers:

Height: Growth Form: Annual Small dark red-purple flowers with 4 petals Less than 39 inches Erect herb

Habitat

General:	Chaparral, cismontane woodland Road banks and openings in blue oak woodla	
Microhabitat:	Road banks and openings in blue oak woodla	nd

Known Locations _

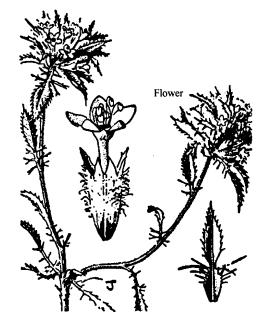
 Township	Range	Section	
T17S	R29E	S17 XX Qtr	
T19S	R29E	S25 NE Qtr	
T20S	R30E	S23 NE Qtr	
T20S	R30E	SUN XX Qtr	
T20S	R30E	S06 E Qtr	
T20S	R30E	SUN XX Qtr	
T20S	R29E	S12 NE Qtr	
T20S	R30E	S07 NE Qtr	
T20S	R31E	SUN XX Qtr	
T20S	R29E	S26 E Qtr	
T20S	R30E	S07 NW Qtr	

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 Location	Township	Range	Section	
	T24S	R30E	S25 SE Qtr.	

ERIOGONUM BREEDLOVEI var. SHEVOCKII

THE NEEDLES BUCKWHEAT Polygonaceae (buckwheat) Family

None



Ranking

Federal:

Change:

State:

Description

Life Cycle:	Perennial
Flowers:	Many tiny 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 forest
Microhabitat:	Granitic rock outcrops

 Township	Range	Section	
T20S	R32E	S12 SE Qtr	
T21S	R32E	S13 N Qtr	
T23S	R35E	S33 NW Qtr	
T23S	R34E	S13 SE Qtr	
T24S	R34E	S12 SE Qtr	
T24S	R35E	S07 NW Qtr	
T24S	R32E	S10 SE Qtr	
T24S	R35E	S04 SE Qtr	
T24S	R36E	S29 NE Qtr	
T24S	R37E	S36 SE Qtr	
T24S	R37E	S20 XX Qtr	

ERIOGONUM NUDUM var. MURINUM

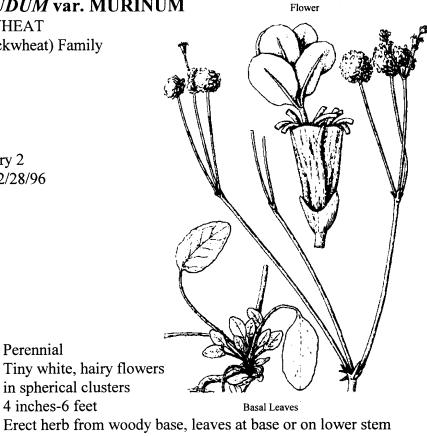
Perennial

4 inches-6 feet

MOUSE BUCKWHEAT Polygonaceae (buckwheat) Family

Ranking

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



Habitat

Description

Life Cycle:

Growth Form:

Flowers:

Height:

General:	Chaparral, cismontane woodland, valley and foothill grassland
Microhabitat:	Dry, sandy loam slopes in the Kaweah river drainage, 1800-2400 feet

Known Locations Township Range Section T16S R29E S23 SW Qtr T16S R29E S24 XX Qtr S11 E Qtr T16S **R29**E R29E T16S S34 SW Qtr R29E S34 NW Qtr T16S T17S R28E S25 SW Qtr S04 SE Qtr T17S **R29E** T17S R28E S01 NE Qtr T18S R30E S19 N Qtr R30E S18 SW Qtr **T18S**

ERIOGONUM TWISSELMANNII TWISSELMANN'S BUCKWHEAT Polygonaceae (buckwheat)Family

Ranking		of the p
Federal:	Category 2	Share she and
Change:	None, 2/28/96	
State:	Rare	
Description		Julai
Life Cycle	: Perennial	
Flowers:	Tiny yellow, hair	y flowers in spherical clusters
Height:	4-8 inches	*
Growth Fo	orm: Herb from loosely	y matted stems, mats 12-16 inches in diameter

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Habitat

General:	Upper montane coniferous forest
Microhabitat:	Dry, granitic outcrops, 8000-8200 feet

Known Locations _____

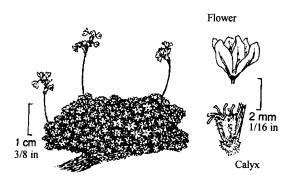
Known Location	s			
	Township	Range	Section	
	T21S	R32E	S09 NE Qtr	
	T21S	R32E	S18 SE Qtr	
	T21S	R32E	S18 SE Qtr	
	T21S	R31E	S13 SE Qtr	
	T21S	R31E	S13 W Qtr	
	T21S	R30E	S15 NW Qtr	
	T21S	R31E	S24 NE Qtr	
	T21S	R31E	S14 SW Qtr	
	T21S	R32E	S30 NW Qtr	
	T21S	R32E	S30 SW Qtr	
	T22S	R31E	S01 NE Qtr	

ERIOGONUM WRIGHTII var. OLANCHENSE

OLANCHA PEAK BUCKWHEAT Polygonaceae (buckwheat) Family

Ranking

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



Description

Life Cycle:	Perennial
Flowers:	Tiny white, pink or rose flowers in small clusters
Height:	1/2-3 inches
Growth Form:	Herb to sub-shrub, forming dense mats 2-12 inches in diameter

Habitat

General:	Subalpine coniferous forest
Microhabitat:	Dry, gravelly to rocky places, 11,500 to 11,800 feet

Township	Range	Section	
T19S T19S	R36E R36E	SUN XX Qtr S19 SE Qtr	

DELPHINIUM INOPINUM

UNEXPECTED LARKSPUR Ranunculaceae (buttercup) Family

Ranking

Federal:Category 3cChange:None, 2/28/96State:None

Description

Phone		
Life Cycle:	Perennial	Fruit Flower
Flowers:	Small white to light blue	
	flowers with nectar spur	
Height:	3-5 feet	
Growth Form:	Erect herb	1 cm 3/8 in Γ
		1/32 in 1/32 in

2 cm 3/4 in

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Seed

Habitat

General: Microhabitat: Upper montane coniferous forest ¹⁴ On open, rocky ridgetops, 5000-8000 feet

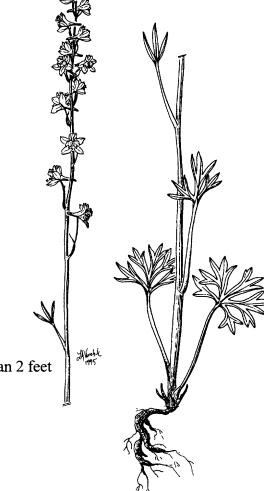
T	ownship	Range	Section
	T???	R???	SUN XX Qtr
	T18S	R32E	S32 NE Qtr
	T19S	R31E	S36 NE Qtr
	T19S	R32E	S07 NW Qtr
	T21S	R32E	S19 NW Qtr
	T21S	R32E	S19 NW Qtr
	T21S	R32E	S19 NE Qtr
	T21S	R32E	S30 NW Qtr
	T21S	R 31E	S13 SE Qtr
	T21S	R31E	S13 NE Qtr
	T21S	R32E	S18 NW Qtr
	T21S	R32E	S18 NE Qtr
	T21S	R32E	S30 SW Qtr
	T21S	R32E	S20 SW Qtr
	T21S	R32E	S07 SE Qtr
	T21S	R31E	S15 NE Qtr
	T21S	R31E	S06 NE Qtr
	T24S	R32E	S10 SE Qtr

DELPHINIUM RECURVATUM

RECURVED LARKSPUR Ranunculaceae (buttercup) Family

Ranking

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



Description

Life Cycle: Flowers:

Height: Growth Form:

Perennial Small light blue flowers, lower petals white with nectar spur 7 inches-3 feet, generally less than 2 feet : Erect herb

Habitat

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

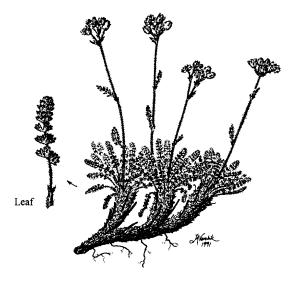
MUVIII LUCATIONS			
	Township	Range	Section
	T22S	R26E	S30 SW Qtr
	T23S	R25E	S21 NW Qtr
	T23S	R26E	S32 E Qtr
	T24S	R24E	S27 SE Qtr
	T24S	R24E	S35 SW Qtr

HORKELIA TULARENSIS

KERN PLATEAU HORKELIA Rosaceae (rose) Family



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



Description

Life Cycle:	Perennial
Flowers:	Small white flowers in clusters
Height:	Less than 10 inches
Growth Form:	Matted herb from woody base

Habitat

General:	Upper Montane coniferous forest
Microhabitat:	Metamorphic gravel along an exposed ridge top, 9400 feet

 Township	Range	Section
T21S	R35E	S17 NE Qtr
T22S	R34E	S12 SE Qtr

MIMULUS NORRISII

KAWEAH MONKEYFLOWER Scrophulariaceae (figwort) Family



Ranking

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

Description

Height:

Life Cycle: Flowers:

Annual Showy yellow tubular flowers with purple-maroon blotch on each corolla lobe 1-6 inches Growth Form: Erect herb

Habitat

General: Chaparral, cismontane woodland Marble outcrops, soil pockets, moss covered ledges, cracks in outcrops, Microhabitat: sometimes on S-facing cliffs, above 1970 feet

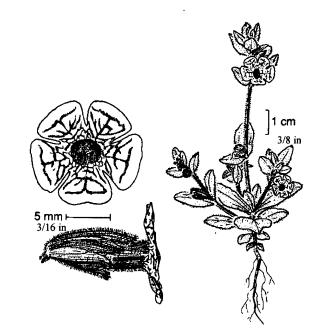
 Township	Range	Section	
T16S	R29E	S34 W Qtr	
T16S	R29E	S27 SW Qtr	
T16S	R29E	S23 SW Qtr	
T17S	R28E	S01 NE Qtr	
T17S	R28E	S25 SW Qtr	
T18S	R29E	S16 NE Qtr	
T18S	R30E	S19 N Qtr	
		-	

MIMULUS PICTUS

CALICO MONKEYFLOWER Scrophulariaceae (figwort) Family

Ranking

Federal:Category 3cChange:None, 2/28/96State:None



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Description

Life Cycle:	Annual
Flowers:	Tubular flowers, the tube dark-brownish maroon, the lobes white with
1100015.	
	maroon veins
Height:	3/4 to 15 inches
Growth Form:	Erect herb

Habitat

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

 Township	Range	Section	
T21S T21S	R28E R28E	SUN XX Qtr S27 NW 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:	Tree
Bark:	Fibrousnot peeling

Habitat

General: Closed cone coniferous forest Microhabitat: On dry slopes, 4000-6000 feet

 Township	Range	Section	
T24S	R32E	S07 W Qtr	
T24S	R32E	S23 NE Qtr	
T24S	R32E	S23 E Qtr	
T24S	R32E	S26 NE Qtr	
T24S	R32E	S25 NW Qtr	
T25S	R33E	S06 NW Qtr	

BRODIAEA INSIGNIS

KAWEAH BRODIAEA Liliaceae (lily) Family

Ranking

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

Description

Life Cycle: Flowers:

Height:

Growth:

Perennial Showy rose to pink-purple flowers in an umbrella 3-10 inches Erect herb from bulb

Flower

Flower Head

Habitat

General: Microhabitat: Cismontane woodland, valley and foothill grassland Granitic substates in deep, clayey soils on south-southwest facing slopes, 500-4500 feet

Seed

 Township	Range	Section	-
T17S	R29E	S32 W Qtr	
T17S	R27E	S26 NE Qtr	
T17S	R29E	S29 NW Qtr	
T17S	R28E	S26 SE Qtr	
T17S	R29E	S05 SE Qtr	
T18S	R29E	S05 SW Qtr	
T18S	R29E	S16 NE Qtr	
T18S	R29E	S14 SW Qtr	
T18S	R29E	S08 XX Qtr	
T18S	R28E	S02 SE Qtr	
T18S	R29E	S19 NW Qtr	
T18S	R29E	S06 S Qtr	
T18S	R29E	S17 SW Qtr	
T18S	R28E	S12 SE Qtr	
T18S	R29 E	S33 NW Qtr	
T18S	R29E	S29 SW Qtr	
T20S	R30E	S32 NE Qtr	

ERYTHRONIUM PUSATERII

HOCKETT LAKES FAWN LILY Liliaceae (lily) Family

Ranking

Federal:Category 3cChange:None, 2/28/96State:None

Description

Life Cycle:	Perennial, bulb
Flowers:	Showy white flowers with six petals, base of
	each petal yellow aging to pink
Height:	8-10 inches
Growth:	Erect herb from narrow bulb

Habitat

General:	Upper montane coniferous forest, meadows
Microhabitat:	Often on rock outcrops, meadows, rocky ledges, 7000-8000 feet

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Known Locations _____

 Township	Range	Section	
T18S	R30E	SUN XX Qtr	
T19S	R30E	S12 XX Qtr	
T19S	R30E	S19 W Qtr	
T20S	R31E	S15 SE Qtr	
T20S	R31E	S03 NW Qtr	
T21S	R32E	S18 NW Qtr	
T21S	R31E	S13 NW Qtr	
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FRITILLARIA STRIATA

STRIPED ADOBE-LILY Liliaceae (lily) Family

Ranking

Federal:Category 1Change:Candidate, 2/28/96State:Threatened



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Description

scription	10	
Life Cycle:	Perennial	
Flowers:	Nodding, showy flowers with six petals, pink, white or burgundy,	
	fragrant	
Height:	10-25 inches	
Growth:	Erect herb from bulb	

Habitat

General:	Blue oak woodland, valley and foothill grassland
Microhabitat:	Heavy clay adobe soils, 1000-4000 feet

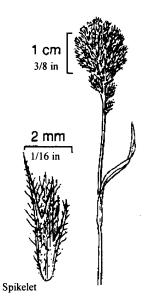
 Township	Range	Section	
T210	D.275	825 XX Ota	
T21S T21S	R27E R28E	S25 XX Qtr S36 SE Qtr	
T215 T21S	R28E	S08 SW Qtr	
T21S	R28E	S27 SE Qtr	
T21S	R27E	S13 NW Qtr	

ORCUTTIA INAEQUALIS

SAN JOAQUIN VALLEY ORCUTT GRASS Poaceae (grass) Family

Ranking

Federal: Proposed State: Endangered



Description

Life Cycle:	Annual
Growth:	Erect, spreading to form a mat 2 to 6 inches
Height:	2-6 inches

Habitat

General:	Vernal pools
Microhabitat:	Not available at this time

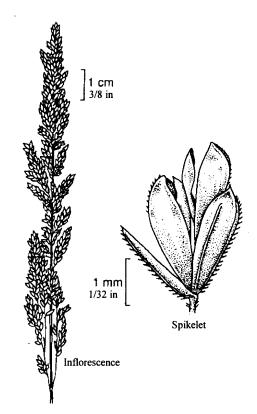
Known Locations				
	Township	Range	Section	
	T17S	R26E	S03 SE Qtr	

SPHENOPHOLIS OBTUSATA

PRAIRIE WEDGEGRASS Poaceae (grass) Family

Ranking

Federal:	None
State:	None



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Description

Life Cycle:	Perennial
Height:	8-31 inches
Growth:	Erect herb

Habitat

General: Microhabitat: Cismontane woodland, meadows, riparian scrub Open, moist sites, along rivers and springs, sometimes on alkaline soil, 950-6500 feet

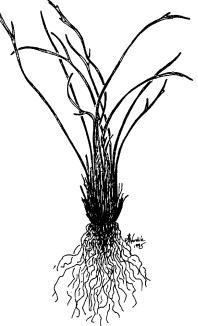
 Township	Range	Section	
T22S T22S	R 32E R 32E	S23 SE Qtr S36 SW Qtr	

ASPLENIUM SEPTENTRIONALE

NORTHERN SPLEENWORT Aspleniaceae (spleenwort) Family

Ranking

Federal: None State: None



Description

Life Cycle:Perennial FeHeight:3-1/2 inchesGrowth:Herb with gr

Perennial Fern 3-1/2 inches Herb with grass-like leaves from the base, 2-6 inches long

Habitat

General:Lower Montane coniferous forest, subalpine coniferous forest, upper
montane coniferous forestMicrohabitat:Rock outcrops

Known Locations				
	Township	Range	Section	
	T17S	R31E	SUN XX Qtr	
	T17S	R31E	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 a 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 make up the inflorescence.

Inflorescence — The flowering part of a plant, a flower cluster.

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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