

CALIFORNIA CASCADES ECOREGION

G1 and G2 Species Habitat Management Guidelines



INTRODUCTION

The Sustainable Forestry Initiative® (SFI) [2022 Standards](#) include requirements that promote and conserve Forests with Exceptional Conservation Value (FECV), which includes critically imperiled (G1) and imperiled (G2) species. This fact sheet summarizes the analysis of FECV habitat within this ecoregion and provides habitat management recommendations that would benefit species potentially found here.

HABITAT TYPES

- Mixed Conifer Forest
- Riparian/Streams/Wetlands/Temporary Pools
- Special Sites (Bare Rock/Talus, Barrens, Bog/Fen, Cliff, Forest Edge, Grassland, Savanna, Shrubland/Chapparal)

MIXED CONIFER FOREST MANAGEMENT

- Protect known locations
- Retain legacy trees, stumps, and logs
- Retain large diameter trees with cavities or broken tops
- Leave skips and gaps with dense shrub component
- Retain large slash into piles

RIPARIAN/STREAMS/WETLANDS/TEMPORARY POOLS MANAGEMENT

- Protect known locations
- Maintain well vegetated riparian buffers
- Plant a diversity of both hardwood and conifer trees
- Retain large diameter trees near streams, rivers and wetlands
- Buffer wetlands, springs, and headwater areas

SPECIAL SITES MANAGEMENT

- Protect known locations
- Maintain and buffer special sites
- Provide floral resources for sensitive bees



Suckley Cuckoo Bumble Bee



California Condor



**Sierra Nevada
Yellow-legged Frog**

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA CASCADES ECOREGION

G1 and G2 Species Habitat Management Guidelines



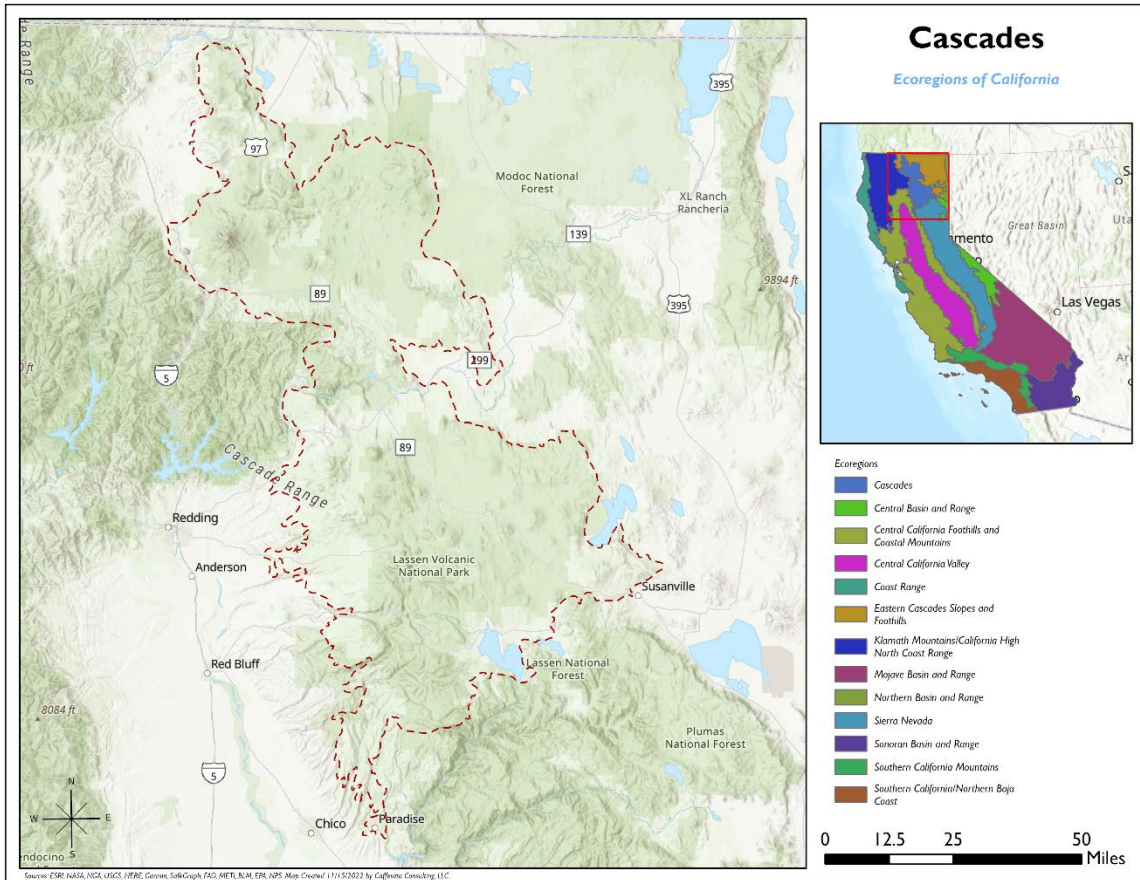
SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Haplodontium tehamense</i>	Lassen Peak Copper Moss	Bare Rock/Talus	G2
<i>Boechera constancei</i>	Constance's Rockcress	Barrens	G2
<i>Oreostemma elatum</i>	Plumas Mountaincrown	Bog/Fen	G2
<i>Bombus suckleyi</i>	Suckley's Cuckoo Bumble Bee	Forest Edge	G2
<i>Bombus franklini</i>	Franklin Bumble Bee	Grassland	G1
<i>Phacelia cookie</i>	Cooke's Phacelia	Mixed Conifer Forest	G1
<i>Gymnogyps californianus</i>	California Condor	Mixed Conifer Forest	G1
<i>Carex xerophila</i>	Chaparral Sedge	Mixed Conifer Forest	G2
<i>Rupertia hallii</i>	Hall's Rupertia	Mixed Conifer Forest	G2
<i>Allium jepsonii</i>	Jepson's Onion	Mixed Conifer Forest	G2
<i>Draba carnosula</i>	Mt. Eddy Draba	Mixed Conifer Forest	G2
<i>Monardella follettii</i>	Serpentine Mountainbalm	Mixed Conifer Forest	G2
<i>Campanula wilkinsiana</i>	Wilkins' Harebell	Mixed Conifer Forest	G2
Calochortus syntrophus		Mixed Conifer Forest	G2
<i>Pyrgulopsis archimedis</i>	Archimedes Pyrg	Riparian/Streams	G1
<i>Helisoma newberryi</i>	Great Basin Ramshorn	Riparian/Streams	G1
<i>Tuctoria greenei</i>	Green's Awnless Orcutt Grass	Riparian/Streams	G1
<i>Pisidium ultramontanum</i>	Montane Peaclam	Riparian/Streams	G1
<i>Hesperoleucus mitrulus</i>	Northern Roach	Riparian/Streams	G1
<i>Pacifastacus fortis</i>	Shasta Crayfish	Riparian/Streams	G1
<i>Rhyacophila spinata</i>	Spiny Rhyacophilan Caddisfly	Riparian/Streams	G1
<i>Desmona bethula</i>	Amphibious Caddisfly	Riparian/Streams	G2
<i>Colligyrus convexus</i>	Canary Dusksnail	Riparian/Streams	G2
<i>Ecclisomyia bilera</i>	King's Creek Ecclisomyian Caddisfly	Riparian/Streams	G2
<i>Lanx patelloides</i>	Kneecap Lanx	Riparian/Streams	G2
<i>Fluminicola seminalis</i>	Nugget Pebblesnail	Riparian/Streams	G2
<i>Monadenia infumata</i>	Redwood Sideband	Riparian/Streams	G2
<i>Cottus asperimus</i>	Rough Sculpin	Riparian/Streams	G2
<i>Rana sierrae</i>	Sierra Nevada Yellow-legged Frog	Riparian/Streams	G2
<i>Pyrgulopsis eremica</i>	Smoke Creek Pyrg	Riparian/Streams	G2
<i>Juga acutifilosa</i>	Topaz Juga	Riparian/Streams	G2
<i>Sidalcea robusta</i>	Butte County Checker-mallow	Savanna	G2
<i>Packera layneae</i>	Layne's Butterweed	Shrubland/Chaparral	G2
<i>Trifolium piorkowskii</i>	Piorkowski's Clover	Temporary Pools	G2
<i>Juncus leiospermus</i>	Red Bluff Rush	Temporary Pools	G2
<i>Orcuttia tenuis</i>	Slender Orcutt Grass	Temporary Pools	G2
<i>Juncus digitatus</i>	Finger Rush	Wetland	G1
<i>Gratiola heterosepala</i>	Boggs Lake Hedge-hyssop	Wetland	G2
<i>Epilobium oreganum</i>	Oregon Willowherb	Wetland	G2
<i>Cryptantha crinite</i>	Silky Cryptantha	Wetland	G2

*Species links provided when available

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CALIFORNIA CASCADES ECOREGION

G1 and G2 Species Habitat Management Guidelines



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CALIFORNIA

CENTRAL BASIN & RANGE Ecoregion

G1 and G2 Species Habitat Management Guidelines



INTRODUCTION

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HABITAT TYPES

- Mixed Conifer Forest
- Riparian/Streams/Wetland
- Special Sites (Bare Rock/Talus, Cliff, Desert, Grassland, Shrubland/Chaparral)

MIXED CONIFER FOREST MANAGEMENT

- Protect known locations
- Retain legacy trees, stumps, and logs
- Retain large diameter trees with cavities or broken tops
- Leave skips and gaps with dense shrub component
- Retain large slash into piles

RIPARIAN/STREAMS/WETLANDS MANAGEMENT

- Protect known locations
- Maintain well vegetated riparian buffers
- Plant a diversity of both hardwood and conifer trees
- Retain large diameter trees near streams, rivers and wetlands
- Buffer wetlands, springs, and headwater areas

SPECIAL SITES MANAGEMENT

- Protect known locations
- Maintain and buffer special sites



Bright Yellow Violet



California Condor



**Sierra Nevada
Yellow-legged Frog**

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CALIFORNIA CENTRAL BASIN & RANGE Ecoregion G1 and G2 Species Habitat Management Guidelines

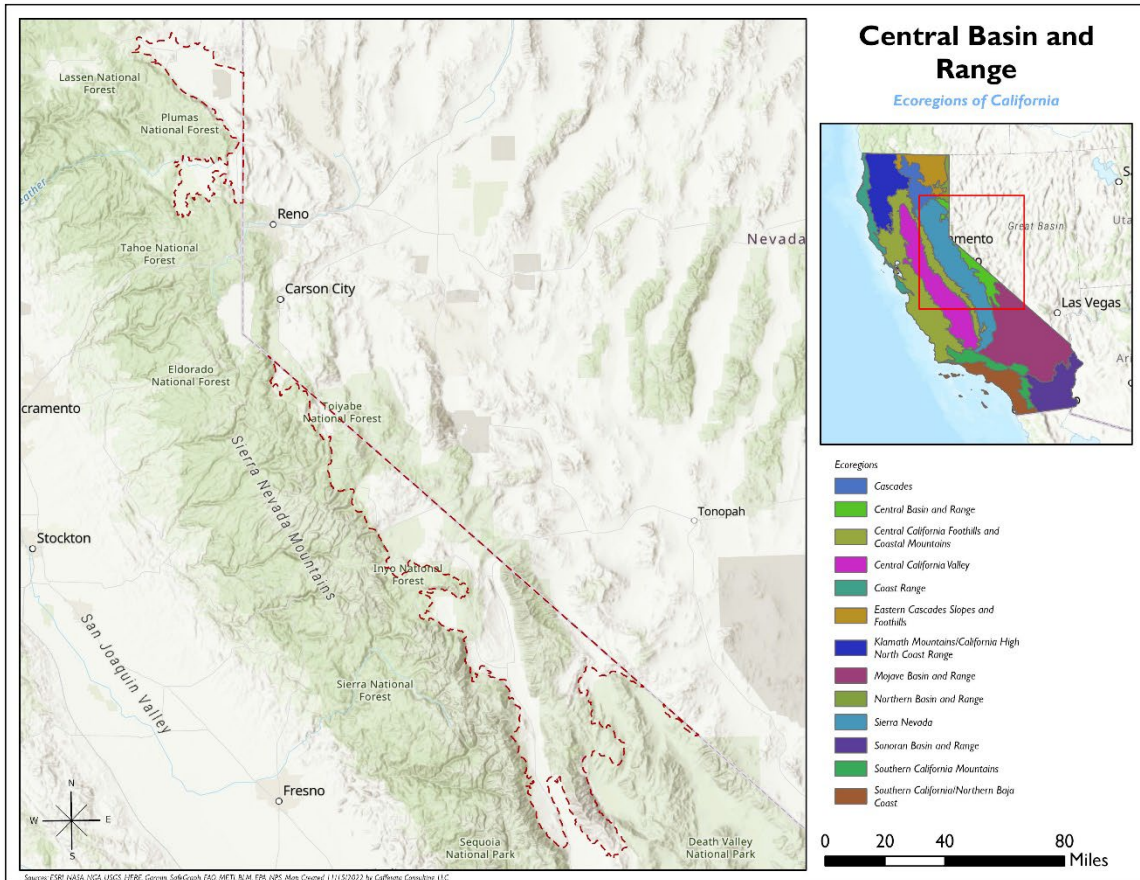


SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Polemonium chartaceum</i>	Mason's Sky Pilot	Bare Rock/Talus	G2
<i>Hackelia sharsmithii</i>	Sharsmith's Stickseed	Bare Rock/Talus	G2
<i>Hesperia miriamae</i>	Sierra Skipper	Bare Rock/Talus	G2
<i>Hesperidanthus jaegeri</i>	Jaeger's Caulostramina	Cliff	G2
<i>Lupinus holmgrenianus</i>	Holmgren's Lupine	Desert	G2
Nemacladus inyoensis		Desert	G2
<i>Bombus crotchii</i>	Crotch's Bumble Bee	Grassland/herbaceous	G2
<i>Draba monoensis</i>	White Mountains Draba	Grassland/Herbaceous	G2
<i>Gymnogyps californianus</i>	California Condor	Mixed Conifer Forest	G1
<i>Boechera pinzliae</i>	Pinzl's Rockcress	Mixed Conifer Forest	G1
<i>Cryptantha roosiorum</i>	Bristlecone Cryptantha	Mixed Conifer Forest	G2
<i>Trifolium dedeckerae</i>	Dedecker's Clover	Mixed Conifer Forest	G2
<i>Ericameria gilmanii</i>	Gilman Goldenweed	Mixed Conifer Forest	G2
<i>Perityle inyoensis</i>	Inyo Rockdaisy	Mixed Conifer Forest	G2
<i>Astragalus monoensis</i>	Mono Milkvetch	Mixed Conifer Forest	G2
<i>Ivesia aperta</i>	Sierra Valley Ivesia	Mixed Conifer Forest	G2
<i>Pyrgulopsis aardahli</i>	Benton Valley Springsnail	Riparian/Streams	G1
<i>Pyrgulopsis perturbata</i>	Fish Slough Springsnail	Riparian/Streams	G1
<i>Pyrgulopsis owensensis</i>	Owens Valley Springsnail	Riparian/Streams	G1
<i>Desmona bethula</i>	Amphibious Caddisfly	Riparian/Streams	G2
<i>Ivesia sericoleuca</i>	Plumas Ivesia	Riparian/Streams	G2
<i>Rana sierrae</i>	Sierra Nevada Yellow-legged Frog	Riparian/Streams	G2
<i>Pyrgulopsis wongi</i>	Wong's Springsnail	Riparian/Streams	G2
<i>Eriogonum eremicola</i>	Wildrose Canyon Buckwheat	Shrubland/Chaparral	G1
<i>Cusickiella quadricostata</i>	Bodie Hills Cusickiella	Shrubland/Chaparral	G2
<i>Viola aurea</i>	Bright Yellow Violet	Shrubland/Chaparral	G2
<i>Lupinus duranii</i>	Mono Lake Lupine	Shrubland/Chaparral	G2
<i>Ivesia webberi</i>	Webber Ivesia	Shrubland/Chaparral	G2
<i>Cyprinodon radiusus</i>	Owens Pupfish	Wetland	G1
<i>Plagiobothrys parishii</i>	Parish's Popcorn-flower	Wetland	G1

*species links provided when available

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CALIFORNIA CENTRAL BASIN & RANGE Ecoregion G1 and G2 Species Habitat Management Guidelines



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CENTRAL CALIFORNIA FOOTHILLS AND COASTAL MOUNTAINS Ecoregion

G1 and G2 Species Habitat Management Guidelines



INTRODUCTION

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HABITAT TYPES

- Grassland
- Mixed Conifer Forest
- Riparian/Streams/Wetlands/Temporary Pools/Springs/Bog/Fen
- Shrubland/Chaparral
- Special Sites (Bare Rock/Talus, Barrens, Cave, Cliff, Forest Edge, Sand/Dunes, Savanna)

GRASSLAND MANAGEMENT

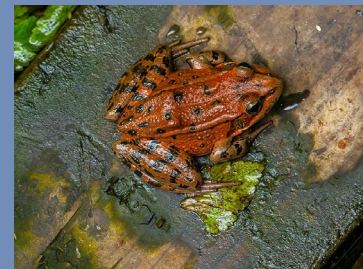
- Protect known locations
- Buffer grassland areas

MIXED CONIFER FOREST MANAGEMENT

- Protect known locations
- Retain legacy trees, stumps, and logs
- Retain large diameter trees with cavities or broken tops
- Leave skips and gaps with dense shrub component
- Retain large slash into piles

RIPARIAN/STREAMS, WETLANDS, TEMPORARY POOLS, SPRINGS, BOG/FEN MANAGEMENT

- Protect known locations
- Maintain well vegetated riparian buffers
- Plant a diversity of both hardwood and conifer trees
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- Buffer wetlands, springs, and headwater areas



California Reg-legged Frog



Shaggy Hair Lupine



Western Lily

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CENTRAL CALIFORNIA FOOTHILLS AND COASTAL MOUNTAINS ECOREGION

G1 and G2 Species Habitat Management Guidelines

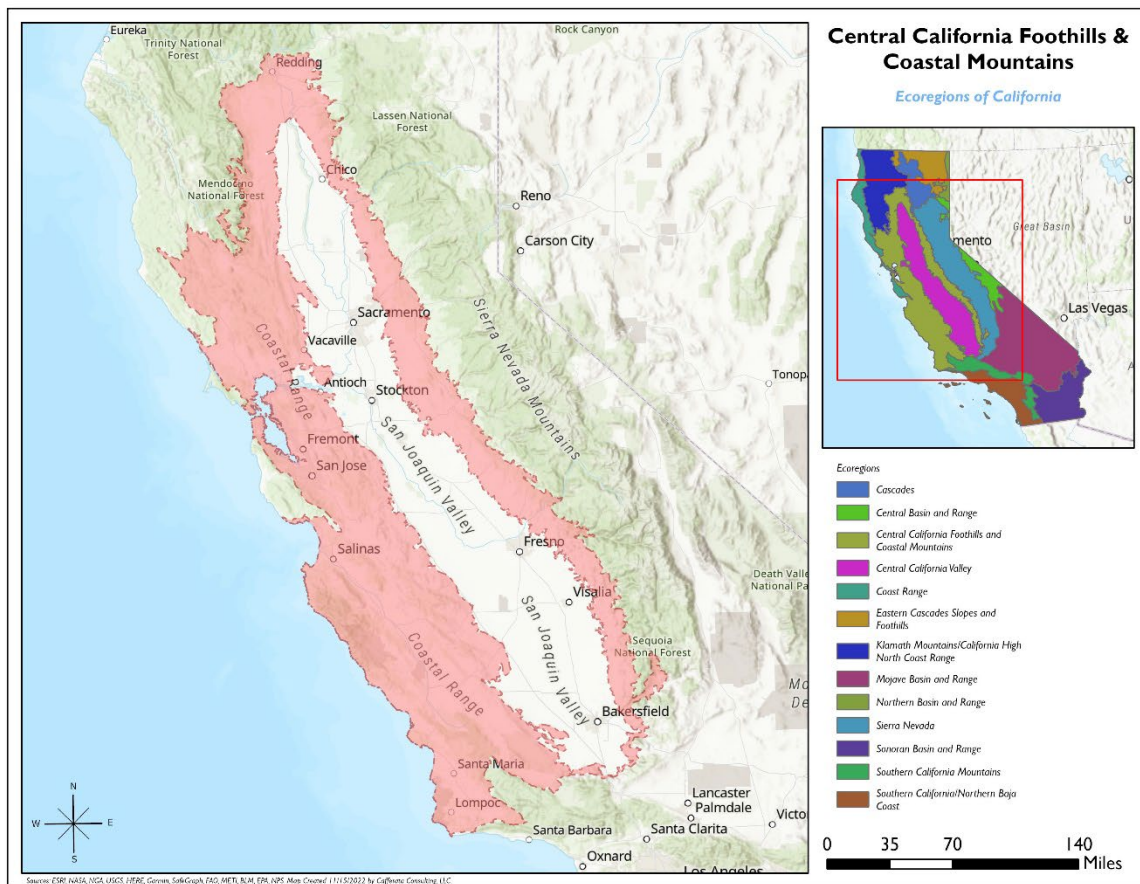


SHRUBLAND/CHAPARRAL MANAGEMENT

- Protect known locations
- Buffer shrubland and chaparral areas

SPECIAL SITES MANAGEMENT

- Protect known locations
- Maintain and buffer special sites



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CENTRAL CALIFORNIA FOOTHILLS AND COASTAL MOUNTAINS Ecoregion

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Chorizanthe minutiflora</i>	Fort Ord Spineflower	Bare Rock/Talus	G1
<i>Hypogymnia schizidiata</i>	Island Tube Lichen	Bare Rock/Talus	G1
<i>Calicina macula</i>	Marbled Harvestman	Bare Rock/Talus	G1
<i>Streptanthus callistus</i>	Mt. Hamilton Jewelflower	Bare Rock/Talus	G1
<i>Ceanothus decornutus</i>	Nicasio Ceanothus	Bare Rock/Talus	G1
<i>Calicina piedra</i>	Piedra Harvestman	Bare Rock/Talus	G1
<i>Calicina arida</i>	San Benito Harvestman	Bare Rock/Talus	G1
<i>Calicina breva</i>	Stanislaus Harvestman	Bare Rock/Talus	G1
<i>Calicina dimorphica</i>	Watts Valley Harvestman	Bare Rock/Talus	G1
<i>Tortula californica</i>	California Screw Moss	Bare Rock/Talus	G2
<i>Campanula exigua</i>	Chaparral Harebell	Bare Rock/Talus	G2
<i>Orthotrichum kellmanii</i>	Kellman's Bristle Moss	Bare Rock/Talus	G2
<i>Mielichhoferia shevockii</i>	Shevock's Copper Moss	Bare Rock/Talus	G2
<i>Dacryophyllum falcifolium</i>	Teardrop Moss	Bare Rock/Talus	G2
<i>Trilobopsis tehamana</i>	Tehama Chaparral	Bare Rock/Talus	G2
<i>Ceanothus ferrisiae</i>	Coyote Ceanothus	Barrens	G1
<i>Arctostaphylos myrtifolia</i>	lone Manzanita	Barrens	G1
<i>Ceanothus masonii</i>	Mason's Ceanothus	Barrens	G1
<i>Ceanothus roderickii</i>	Pine Hill Ceanothus	Barrens	G1
<i>Trifolium amoenum</i>	Showy Indian Clover	Barrens	G1
<i>Cryptantha mariposae</i>	Mariposa Cryptantha	Barrens	G2
<i>Horkelia parryi</i>	Parry's Horkelia	Barrens	G2
<i>Layia discoidea</i>	Rayless Layia	Barrens	G2
<i>Allium sharsmithiae</i>	Sharsmith's Onion	Barrens	G2
<i>Hesperolinon bicarpellatum</i>	Two-carpel Dwarf-flax	Barrens	G2
<i>Arenaria paludicola</i>	Marsh Sandwort	Bog/Fen	G1
<i>Linderiella occidentalis</i>	California Fairy Shrimp	Bog/Fen	G2
<i>Stygobromus gradyi</i>	Grady's Cave Amphipod	Cave	G1
<i>Monadenia yosemitensis</i>	Indian Yosemite Snail	Cliff	G1
<i>Arctostaphylos edmundsii</i>	Little Sur Manzanita	Cliff	G2
<i>Raillardiopsis muirii</i>	Muir's Tarplant	Cliff	G2
<i>Eucerceris ruficeps</i>	Redheaded Sphecicid Wasp	Dunes	G2
<i>Sidalcea keckii</i>	Keck's Checker-mallow	Forest Edge	G1
<i>Clarkia springvillensis</i>	Springville Clarkia	Forest Edge	G2
<i>Pedicularis rigginsiae</i>	Arroyo de la Cruz Lousewort	Grassland	G1
<i>Fritillaria grayana</i>	Gray's Fritillary	Grassland	G1
<i>Aristocapsa insignis</i>	Indian Valley Centrostegia	Grassland	G1
<i>Pseudobahia peirsonii</i>	San Joaquin Adobe Sunburst	Grassland	G1
<i>Fritillaria striata</i>	Striped Adobe Lily	Grassland	G1

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CENTRAL CALIFORNIA FOOTHILLS AND COASTAL MOUNTAINS Ecoregion

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Clarkia imbricata</i>	Vine Hill Clarkia	Grassland	G1
<i>Helianthus winteri</i>	Winter's Sunflower	Grassland	G1
<i>Tracyina rostrata</i>	Beaked Tracyina	Grassland	G2
<i>Balsamorhiza macrolepis</i>	Big-scale Balsamroot	Grassland	G2
<i>Agrostis blasdalei</i>	Cliff Bentgrass	Grassland	G2
<i>Layia septentrionalis</i>	Colusa Tidy-tips	Grassland	G2
<i>Bombus crotchii</i>	Crotch's Bumble Bee	Grassland	G2
<i>Lagophylla diabolensis</i>	Diablo Range Hare-leaf	Grassland	G2
<i>Hesperolinon drymarioides</i>	Drymary Dwarf-flax	Grassland	G2
<i>Hesperolinon adenophyllum</i>	Glandular Western Flax	Grassland	G2
<i>Calycadenia hooveri</i>	Hoover's Rosinweed	Grassland	G2
<i>Adela oplerella</i>	Opler's Longhorn Moth	Grassland	G2
<i>Lotus rubriflorus</i>	Red-flowered Lotus	Grassland	G2
<i>Symphyotrichum defoliatum</i>	San Bernardino Aster	Grassland	G2
<i>Calochortus obispoensis</i>	San Luis Mariposa Lily	Grassland	G2
<i>Eriogonum nervulosum</i>	Snow Mountain Buckwheat	Grassland	G2
<i>Sanicula maritima</i>	Adobe Sanicle	Herbaceous Wetland	G2
<i>Efferia antiochi</i>	Antioch Efferian Robberfly	Mixed Conifer Forest	G1
<i>Arctostaphylos cruzensis</i>	Arroyo de la Cruz Manzanita	Mixed Conifer Forest	G1
<i>Hubbardia secoensis</i>	Arroyo Seco Short-tailed Whipscorpion	Mixed Conifer Forest	G1
<i>Gymnogyps californianus</i>	California Condor	Mixed Conifer Forest	G1
<i>Cryptantha excavate</i>	Deep-scar Cryptantha	Mixed Conifer Forest	G1
<i>Hubbardia idria</i>	Idria Short-tailed Whipscorpion	Mixed Conifer Forest	G1
<i>Brodiaea insignis</i>	Kaweah Brodiaea	Mixed Conifer Forest	G1
<i>Entosthodon kochii</i>	Koch's Cord-moss	Mixed Conifer Forest	G1
<i>Cistanthe pulchella</i>	Mariposa Pussy-paws	Mixed Conifer Forest	G1
<i>Stylocline masonii</i>	Mason's Neststraw	Mixed Conifer Forest	G1
<i>Trifolium trichocalyx</i>	Monterey Clover	Mixed Conifer Forest	G1
<i>Pinus radiata</i>	Monterey Pine	Mixed Conifer Forest	G1
<i>Arctostaphylos morroensis</i>	Morro Manzanita	Mixed Conifer Forest	G1
<i>Streptanthus anomalus</i>	Mount Burdell Jewelflower	Mixed Conifer Forest	G1
<i>Lomatium observatorium</i>	Mt. Hamilton Lomatium	Mixed Conifer Forest	G1
<i>Astragalus claranus</i>	Napa Milkvetch	Mixed Conifer Forest	G1
<i>Arctostaphylos nissenana</i>	Nissenan Manzanita	Mixed Conifer Forest	G1
<i>Arctostaphylos osoensis</i>	Oso Manzanita	Mixed Conifer Forest	G1
<i>Trifolium polyodon</i>	Pacific Grove Clover	Mixed Conifer Forest	G1
<i>Fremontodendron decumbens</i>	Pine Hill Flannelbush	Mixed Conifer Forest	G1
<i>Ceanothus confusus</i>	Rincon Ridge Ceanothus	Mixed Conifer Forest	G1

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CENTRAL CALIFORNIA FOOTHILLS AND COASTAL MOUNTAINS Ecoregion

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Eriophyllum latilobum</i>	San Mateo Woolly-sunflower	Mixed Conifer Forest	G1
<i>Ancistrocarphus keilii</i>	Santa Ynez Groundstar	Mixed Conifer Forest	G1
<i>Trachykele hartmani</i>	Serpentine Cypress Wood-boring Beetle	Mixed Conifer Forest	G1
<i>Brodiaea matsonii</i>	Sulphur Creek Brodiaea	Mixed Conifer Forest	G2
<i>Fritillaria pluriflora</i>	Adobe Lily	Mixed Conifer Forest	G2
<i>Clarkia rostrata</i>	Beaked Clarkia	Mixed Conifer Forest	G2
<i>Scrophularia atrata</i>	Black-flower Figwort	Mixed Conifer Forest	G2
<i>Chorizanthe blakleyi</i>	Blakey's Spineflower	Mixed Conifer Forest	G2
<i>Arctostaphylos virgata</i>	Bolin's Manzanita	Mixed Conifer Forest	G2
<i>Hesperolinon breweri</i>	Brewer's Dwarf-flax	Mixed Conifer Forest	G2
<i>Streptanthus hesperidis</i>	Brewer's Twistflower	Mixed Conifer Forest	G2
<i>Abies bracteata</i>	Bristlecone Fir	Mixed Conifer Forest	G2
<i>Eriogonum butterworthianum</i>	Butterworth's Buckwheat	Mixed Conifer Forest	G2
<i>Mimulus pictus</i>	Calico Monkeyflower	Mixed Conifer Forest	G2
<i>Ceanothus divergens</i>	Calistoga Ceanothus	Mixed Conifer Forest	G2
<i>Carex xerophila</i>	Chaparral Sedge	Mixed Conifer Forest	G2
<i>Lomatium congdonii</i>	Congdon's Lomatium	Mixed Conifer Forest	G2
<i>Lessingia arachnoidea</i>	Crystal Springs Lessingia	Mixed Conifer Forest	G2
<i>Poa diaboli</i>	Diablo Canyon Bluegrass	Mixed Conifer Forest	G2
<i>Wyethia reticulata</i>	El Dorado Mule's-ears	Mixed Conifer Forest	G2
<i>Lagophylla dichotoma</i>	Forked Hare-leaf	Mixed Conifer Forest	G2
<i>Cupressus goveniana</i>	Gowen Cypress	Mixed Conifer Forest	G2
<i>Madia hallii</i>	Hall's Madia	Mixed Conifer Forest	G2
<i>Rupertia hallii</i>	Hall's Rupertia	Mixed Conifer Forest	G2
<i>Camissonia hardhamiae</i>	Hardham's Evening-primrose	Mixed Conifer Forest	G2
<i>Allium hickmanii</i>	Hickman's Onion	Mixed Conifer Forest	G2
<i>Arctostaphylos hookeri</i>	Hooker's Manzanita	Mixed Conifer Forest	G2
<i>Delphinium hutchinsoniae</i>	Hutchinson's Larkspur	Mixed Conifer Forest	G2
<i>Linanthus jepsonii</i>	Jepson's Desert-trumpets	Mixed Conifer Forest	G2
<i>Allium jepsonii</i>	Jepson's Onion	Mixed Conifer Forest	G2
<i>Clarkia jolonensis</i>	Jolon Clarkia	Mixed Conifer Forest	G2
<i>Mimulus shevockii</i>	Kelso Creek Monkeyflower	Mixed Conifer Forest	G2
<i>Arctostaphylos regismontana</i>	Kings Mountain Manzanita	Mixed Conifer Forest	G2
<i>Hoita strobilina</i>	Loma Prieta Scurfpea	Mixed Conifer Forest	G2
<i>Chorizanthe pungens</i>	Monterey Spineflower	Mixed Conifer Forest	G2
<i>Streptanthus morrisonii</i>	Morrison's Jewelflower	Mixed Conifer Forest	G2
<i>Clarkia mosquinii</i>	Mosquin's Clarkia	Mixed Conifer Forest	G2
<i>Calochortus pulchellus</i>	Mt. Diablo Fairy Lantern	Mixed Conifer Forest	G2

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CENTRAL CALIFORNIA FOOTHILLS AND COASTAL MOUNTAINS Ecoregion

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Phacelia phacelioides</i>	Mt. Diablo Phacelia	Mixed Conifer Forest	G2
<i>Coreopsis hamiltonii</i>	Mt. Hamilton Coreopsis	Mixed Conifer Forest	G2
<i>Iris munzii</i>	Munz's Iris	Mixed Conifer Forest	G2
<i>Lupinus citrinus</i>	Orange-flowered Lupine	Mixed Conifer Forest	G2
<i>Layia heterotricha</i>	Pale-yellow Layia	Mixed Conifer Forest	G2
<i>Monardella palmeri</i>	Palmer's Monardella	Mixed Conifer Forest	G2
<i>Hesperolinon tehamense</i>	Paskenta Grade Dwarf-flax	Mixed Conifer Forest	G2
<i>Navarretia setiloba</i>	Piute Mountains Navarretia	Mixed Conifer Forest	G2
<i>Chlorogalum purpureum</i>	Purple Amole	Mixed Conifer Forest	G2
<i>Allium tuolumnense</i>	Rawhide Hill Onion	Mixed Conifer Forest	G2
<i>Helminthoglypta sequoicola</i>	Redwood Shoulderband	Mixed Conifer Forest	G2
<i>Camissonia benitensis</i>	San Benito Evening-primrose	Mixed Conifer Forest	G2
<i>Collinsia multicolor</i>	San Francisco Collinsia	Mixed Conifer Forest	G2
<i>Calochortus simulans</i>	San Luis Obispo Mariposa Lily	Mixed Conifer Forest	G2
<i>Solanum wallacei</i>	Santa Catalina Nightshade	Mixed Conifer Forest	G2
<i>Arctostaphylos andersonii</i>	Santa Cruz Manzanita	Mixed Conifer Forest	G2
<i>Stebbinsoseris decipiens</i>	Santa Cruz Silverpuffs	Mixed Conifer Forest	G2
<i>Galium clementis</i>	Santa Lucia Bedstraw	Mixed Conifer Forest	G2
<i>Lewisia serrata</i>	Saw-toothed Lewisia	Mixed Conifer Forest	G2
<i>Lupinus spectabilis</i>	Shaggy Hair Lupine	Mixed Conifer Forest	G2
<i>Hesperolinon sharsmithiae</i>	Sharsmith's Dwarf-flax	Mixed Conifer Forest	G2
<i>Calycadenia micrantha</i>	Small-flower Calycadenia	Mixed Conifer Forest	G2
<i>Streptanthus brachiatus</i>	Socrates Mine Streptanthus	Mixed Conifer Forest	G2
<i>Madia stebbinsii</i>	Stebbins' Madia	Mixed Conifer Forest	G2
<i>Fritillaria falcata</i>	Talus Fritillary	Mixed Conifer Forest	G2
<i>Arctostaphylos montereyensis</i>	Toro Manzanita	Mixed Conifer Forest	G2
<i>Githopsis tenella</i>	Tube-flower Bluecup	Mixed Conifer Forest	G2
<i>Eriastrum luteum</i>	Yellow-flower Woolstar	Mixed Conifer Forest	G2
Calochortus syntrophus		Mixed Conifer Forest	G2
Grimmia torenii		Mixed Conifer Forest	G2
Erythranthe marmorata		Mixed Conifer Forest	G2
<i>Malacothamnus abbottii</i>	Abbott's Bushmallow	Riparian/Streams	G1
<i>Anaxyrus exsul</i>	Black Toad	Riparian/Streams	G1
<i>Horkelia bolanderi</i>	Bolander's Horkelia	Riparian/Streams	G1
<i>Rhynchospora californica</i>	California Beakrush	Riparian/Streams	G1
<i>Syncaris pacifica</i>	California Freshwater Shrimp	Riparian/Streams	G1
<i>Eryngium racemosum</i>	Delta Coyote-thistle	Riparian/Streams	G1
<i>Elaphrus viridis</i>	Delta Green Ground Beetle	Riparian/Streams	G1
<i>Cryptochia denningi</i>	Denning's Cryptic Caddisfly	Riparian/Streams	G1

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CENTRAL CALIFORNIA FOOTHILLS AND COASTAL MOUNTAINS Ecoregion

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Pyrgulopsis diablensis</i>	Diablo Range Pyrg	Riparian/Streams	G1
<i>Rorippa gambelii</i>	Gambel's Watercress	Riparian/Streams	G1
<i>Tuctoria greenei</i>	Green's Awnless Orcutt Grass	Riparian/Streams	G1
<i>Stygobromus harai</i>	Hara's Cave Amphipod	Riparian/Streams	G1
<i>Potentilla hickmanii</i>	Hickman's Cinquefoil	Riparian/Streams	G1
<i>Batrachoseps minor</i>	Lesser Slender Salamander	Riparian/Streams	G1
<i>Batrachoseps relictus</i>	Relictual Slender Salamander	Riparian/Streams	G1
<i>Plebulina emigdionis</i>	San Emigdio Blue	Riparian/Streams	G1
<i>Pyrgulopsis taylori</i>	San Luis Obispo Pyrg	Riparian/Streams	G1
<i>Carpenteria californica</i>	Tree Anemone	Riparian/Streams	G1
<i>Saldula usingeri</i>	Wilbur Springs Shorebug	Riparian/Streams	G1
<i>Protodufourea zavortinki</i>	Zavortink's Protodufourea Bee	Riparian/Streams	G1
<i>Gila orcuttii</i>	Arroyo Chub	Riparian/Streams	G2
<i>Anaxyrus californicus</i>	Arroyo Toad	Riparian/Streams	G2
<i>Rana draytonii</i>	California Red-legged Frog	Riparian/Streams	G2
<i>Ambystoma californiense</i>	California Tiger Salamander	Riparian/Streams	G2
<i>Verbena californica</i>	California Vervain	Riparian/Streams	G2
<i>Cosumnoperla hypocrena</i>	Cosumnes Stripetail	Riparian/Streams	G2
<i>Malacothamnus davidsonii</i>	Davidson's Bushmallow	Riparian/Streams	G2
<i>Legenere limosa</i>	False Venus'-looking-glass	Riparian/Streams	G2
<i>Collomia rawsoniana</i>	Flaming Trumpet	Riparian/Streams	G2
<i>Cirsium fontinale</i>	Fountain Thistle	Riparian/Streams	G2
<i>Thamnophis gigas</i>	Giant Gartersnake	Riparian/Streams	G2
<i>Pseudobahia bahiifolia</i>	Hartweg's Golden Sunburst	Riparian/Streams	G2
<i>Batrachoseps simatus</i>	Kern Canyon Slender Salamander	Riparian/Streams	G2
<i>Erigeron multiceps</i>	Kern River Fleabane	Riparian/Streams	G2
<i>Batrachoseps regius</i>	Kings River Slender Salamander	Riparian/Streams	G2
<i>Lanx patelloides</i>	Kneecap Lanx	Riparian/Streams	G2
<i>Hydromantes brunus</i>	Limestone Salamander	Riparian/Streams	G2
<i>Lytta molesta</i>	Molestan Blister Beetle	Riparian/Streams	G2
<i>Fluminicola seminalis</i>	Nugget Pebblesnail	Riparian/Streams	G2
<i>Optioservus canus</i>	Pinnacles Optioservus Riffle Beetle	Riparian/Streams	G2
<i>Navarretia prostrata</i>	Prostrate Navarretia	Riparian/Streams	G2
<i>Taricha rivularis</i>	Red-bellied Newt	Riparian/Streams	G2
<i>Monadenia infumata</i>	Redwood Sideband	Riparian/Streams	G2
<i>Hydrochara rickseckeri</i>	Ricksecker's Water Scavenger Beetle	Riparian/Streams	G2
<i>Archoplites interruptus</i>	Sacramento Perch	Riparian/Streams	G2
<i>Nevusia cliftonii</i>	Shasta Snow-wreath	Riparian/Streams	G2
<i>Symphotrichum lentum</i>	Suisun Marsh Aster	Riparian/Streams	G2

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CENTRAL CALIFORNIA FOOTHILLS AND COASTAL MOUNTAINS Ecoregion

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Batrachoseps stebbinsi</i>	Tehachapi Slender Salamander	Riparian/Streams	G2
<i>Caecidotea tomalensis</i>	Tomales Isopod	Riparian/Streams	G2
<i>Eryngium pinnatisectum</i>	Tuolumne Coyote-thistle	Riparian/Streams	G2
<i>Dirca occidentalis</i>	Western Leatherwood	Riparian/Streams	G2
<i>Spea hammondi</i>	Western Spadefoot	Riparian/Streams	G2
Navarretia paradoxiclara		Riparian/Streams	G2
<i>Triquetrella californica</i>	California Triquetrella Moss	Sand/Dune	G2
<i>Sidalcea robusta</i>	Butte County Checker-mallow	Savanna	G2
<i>Arctostaphylos pallida</i>	Alameda Manzanita	Shrubland/Chaparral	G1
<i>Banksula incredula</i>	Incredible Harvestman	Shrubland/Chaparral	G1
<i>Eriodictyon altissimum</i>	Indian Knob Mountainbalm	Shrubland/Chaparral	G1
<i>Chorizanthe aphanantha</i>	Irish Hills Spineflower	Shrubland/Chaparral	G1
<i>Hesperolinon congestum</i>	Marin Western Flax	Shrubland/Chaparral	G1
<i>Arctostaphylos montaraensis</i>	Montara Manzanita	Shrubland/Chaparral	G1
<i>Eriogonum truncatum</i>	Mt. Diablo Buckwheat	Shrubland/Chaparral	G1
<i>Trichostema ruygtii</i>	Napa Bluecurls	Shrubland/Chaparral	G1
<i>Arctostaphylos pacifica</i>	Pacific Manzanita	Shrubland/Chaparral	G1
<i>Arctostaphylos pajaroensis</i>	Pajaro Manzanita	Shrubland/Chaparral	G1
<i>Arctostaphylos imbricata</i>	San Bruno Mountain Manzanita	Shrubland/Chaparral	G1
<i>Lupinus ludovicianus</i>	San Luis Obispo County Lupine	Shrubland/Chaparral	G1
<i>Arctostaphylos pumila</i>	Sandmat Manzanita	Shrubland/Chaparral	G1
<i>Campanula sharsmithiae</i>	Sharsmith's Harebell	Shrubland/Chaparral	G1
<i>Sulcaria isidiifera</i>	Splitting Yarn Lichen	Shrubland/Chaparral	G1
<i>Calystegia stebbinsi</i>	Stebbins' Morning-glory	Shrubland/Chaparral	G1
<i>Piperia yadonii</i>	Yadon's Rein Orchid	Shrubland/Chaparral	G1
<i>Delphinium luteum</i>	Yellow Larkspur	Shrubland/Chaparral	G1
Eriastrum erterae		Shrubland/Chaparral	G1
<i>Arctostaphylos bakeri</i>	Baker's Manzanita	Shrubland/Chaparral	G2
<i>Crocانthemum suffrutescens</i>	Bisbee Peak Rushrose	Shrubland/Chaparral	G2
<i>Sidalcea hickmanii</i>	Chaparral Checkerbloom	Shrubland/Chaparral	G2
<i>Lupinus sericatus</i>	Cobb Mountain Lupine	Shrubland/Chaparral	G2
<i>Helianthella castanea</i>	Diablo Rockrose	Shrubland/Chaparral	G2
<i>Ericameria fasciculata</i>	Eastwood's Goldenweed	Shrubland/Chaparral	G2
<i>Fritillaria brandegeei</i>	Greenhorn Fritillary	Shrubland/Chaparral	G2
<i>Malacothamnus hallii</i>	Hall's Bushmallow	Shrubland/Chaparral	G2
<i>Ceanothus hearstiorum</i>	Hearst's Ceanothus	Shrubland/Chaparral	G2
<i>Plagiobothrys uncinatus</i>	Hooked Popcorn-flower	Shrubland/Chaparral	G2
<i>Agrostis hooveri</i>	Hoover's Bentgrass	Shrubland/Chaparral	G2
<i>Layia jonesii</i>	Jones' Layia	Shrubland/chaparral	G2

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CENTRAL CALIFORNIA FOOTHILLS AND COASTAL MOUNTAINS Ecoregion

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Mimulus norrisii</i>	Kaweah Monkeyflower	Shrubland/Chaparral	G2
<i>Eriodictyon capitatum</i>	Lompoc Yerba Santa	Shrubland/Chaparral	G2
<i>Navarretia rosulata</i>	Marin County Navarretia	Shrubland/Chaparral	G2
<i>Streptanthus hispidus</i>	Mt. Diablo Jewelflower	Shrubland/Chaparral	G2
<i>Arctostaphylos auriculata</i>	Mt. Diablo Manzanita	Shrubland/Chaparral	G2
<i>Ceanothus purpureus</i>	Napa Ceanothus	Shrubland/Chaparral	G2
<i>Chorizanthe rectispina</i>	One-awned Chorizanthe	Shrubland/Chaparral	G2
<i>Arctostaphylos pechoensis</i>	Pecho Manzanita	Shrubland/Chaparral	G2
<i>Sanicula saxatilis</i>	Rock Sanicle	Shrubland/Chaparral	G2
<i>Fritillaria viridea</i>	San Benito Fritillary	Shrubland/Chaparral	G2
<i>Arctostaphylos luciana</i>	Santa Lucia Manzanita	Shrubland/Chaparral	G2
<i>Arctostaphylos pilosula</i>	Santa Margarita Manzanita	Shrubland/Chaparral	G2
<i>Horkelia tenuiloba</i>	Santa Rosa Oceanspray	Shrubland/Chaparral	G2
<i>Arctostaphylos rudis</i>	Shagbark Manzanita	Shrubland/Chaparral	G2
<i>Mimulus gracilipes</i>	Slenderstalk Monkeyflower	Shrubland/Chaparral	G2
<i>Ceanothus sonomensis</i>	Sonoma Ceanothus	Shrubland/Chaparral	G2
<i>Lessingia micradenia</i>	Tamalpais Lessingia	Shrubland/Chaparral	G2
<i>Stygobromus cherylae</i>	Barr's Amphipod	Springs	G1
<i>Hygrotus curvipes</i>	Curved-foot Hygrotus Diving Beetle	Temporary Pools	G1
<i>Sedella leiocarpa</i>	Lake County Mock Stonecrop	Temporary Pools	G1
<i>Branchinecta longiantenna</i>	Longhorn Fairy Shrimp	Temporary Pools	G1
<i>Orcuttia viscida</i>	Sacramento Orcutt Grass	Temporary Pools	G1
<i>Orcuttia inaequalis</i>	San Joaquin Valley Orcutt Grass	Temporary Pools	G1
<i>Agrostis lacuna-vernalis</i>	Vernal Pool Bentgrass	Temporary Pools	G1
<i>Trifolium jokerstii</i>	Butte County Golden Clover	Temporary Pools	G2
<i>Delphinium recurvatum</i>	Byron Larkspur	Temporary Pools	G2
<i>Branchinecta conservatio</i>	Conservancy Fairy Shrimp	Temporary Pools	G2
<i>Fritillaria liliacea</i>	Fragrant Fritillary	Temporary Pools	G2
<i>Dumontia oregonensis</i>	Hairy Water Flea	Temporary Pools	G2
<i>Agrostis hendersonii</i>	Henderson's Bentgrass	Temporary Pools	G2
<i>Heterotheca shevockii</i>	Kern Canyon False Goldenaster	Temporary Pools	G2
<i>Microseris paludosa</i>	Marsh Silverpuffs	Temporary Pools	G2
<i>Branchinecta mesovallensis</i>	Midvalley Fairy Shrimp	Temporary Pools	G2
<i>Mimulus pulchellus</i>	Pansy Monkeyflower	Temporary Pools	G2
<i>Navarretia myersii</i>	Pincushion Navarretia	Temporary Pools	G2
<i>Trifolium piorkowskii</i>	Piorkowski's Clover	Temporary Pools	G2
<i>Juncus leiospermus</i>	Red Bluff Rush	Temporary Pools	G2
<i>Atriplex persistens</i>	Sacramento Saltbush	Temporary Pools	G2
<i>Trifolium buckwestiorum</i>	Santa Cruz Clover	Temporary Pools	G2

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CENTRAL CALIFORNIA FOOTHILLS AND COASTAL MOUNTAINS Ecoregion

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Orcuttia tenuis</i>	Slender Orcutt Grass	Temporary Pools	G2
<i>Eryngium spinosepalum</i>	Spiny Sepaled Coyote-thistle	Temporary Pools	G2
<i>Navarretia fossalis</i>	Spreading Navarretia	Temporary Pools	G2
<i>Meconella oregana</i>	White Meconella	Temporary Pools	G2
<i>Andrena blennospermatis</i>	a vernal pool andrenid bee	Upland	G2
<i>Limnanthes bakeri</i>	Baker's Meadowfoam	Wetland	G1
<i>Brodiaea pallida</i>	Chinese Camp Brodiaea	Wetland	G1
<i>Sidalcea stipularis</i>	Scadden Flat Checkerbloom	Wetland	G1
<i>Lilium occidentale</i>	Western Lily	Wetland	G1
<i>Atriplex depressa</i>	Bittlescale	Wetland	G2
<i>Gratiola heterosepala</i>	Boggs Lake Hedge-hyssop	Wetland	G2
<i>Lilaeopsis masonii</i>	Mason's Lilaeopsis	Wetland	G2
<i>Tryonia imitator</i>	Mimic Tryonia	Wetland	G2
<i>Layia munzii</i>	Munz's Tidy-tips	Wetland	G2
<i>Pleuropogon hooverianus</i>	North Coast False Semaphore Grass	Wetland	G2
<i>Ischnura gemina</i>	San Francisco Forktail	Wetland	G2
<i>Pogogyne clareana</i>	Santa Lucia Pogogyne	Wetland	G2
<i>Cryptantha crinite</i>	Silky Cryptantha	Wetland	G2
<i>Cirsium hydrophilum</i>	Suisun Thistle	Wetland	G2
Carex klamathensis		Wetland	G2

*Species links provided when available

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CENTRAL CALIFORNIA VALLEY ECOREGION

G1 and G2 Species Habitat Management Guidelines



INTRODUCTION

The Sustainable Forestry Initiative® (SFI) [2022 Standards](#) include requirements that promote and conserve Forests with Exceptional Conservation Value (FECV), which includes critically imperiled (G1) and imperiled (G2) species. This fact sheet summarizes the analysis of FECV habitat within this ecoregion and provides habitat management recommendations that would benefit species potentially found here.

HABITAT TYPES

- Grassland
- Mixed Conifer Forest
- Riparian/Streams/Wetlands/Temporary Pools/Bog/Fen
- Special Sites (Bare Rock/Talus, Barrens, Dunes, Savanna, Shrubland/Chapparal)

GRASSLAND MANAGEMENT

- Protect known locations
- Buffer grassland areas

MIXED CONIFER FOREST MANAGEMENT

- Protect known locations
- Retain legacy trees, stumps, and logs
- Retain large diameter trees with cavities or broken tops
- Leave skips and gaps with dense shrub component
- Retain large slash into piles

RIPARIAN/STREAMS/TEMPORARY POOLS/BOG/FEN MANAGEMENT

- Protect known locations
- Maintain well vegetated riparian buffers
- Plant a diversity of both hardwood and conifer trees
- Retain large diameter trees near streams, rivers and wetlands
- Buffer wetlands, springs, and headwater areas

SPECIAL SITES MANAGEMENT

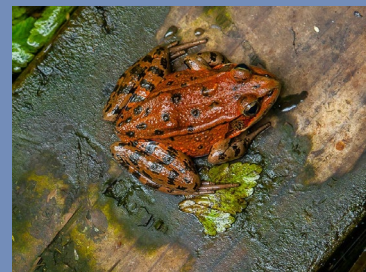
- Protect known locations
- Maintain and buffer special sites



Western Spadefoot



Calico Monkeyflower



California Reg-legged Frog

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CENTRAL CALIFORNIA VALLEY ECOREGION

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Tortula californica</i>	California Screw Moss	Bare Rock/Talus	G2
<i>Trifolium amoenum</i>	Showy Indian Clover	Barrens	G1
<i>Linderiella occidentalis</i>	California Fairy Shrimp	Bog/Fen	G2
<i>Eucerceris ruficeps</i>	Redheaded Sphecid Wasp	Dunes	G2
<i>Atriplex subtilis</i>	Deltoid-bract Saltbush	Grassland	G1
<i>Pseudobahia peirsonii</i>	San Joaquin Adobe Sunburst	Grassland	G1
<i>Fritillaria striata</i>	Striped Adobe Lily	Grassland	G1
<i>Helianthus winteri</i>	Winter's Sunflower	Grassland	G1
<i>Balsamorhiza macrolepis</i>	Big-scale Balsamroot	Grassland	G2
<i>Layia septentrionalis</i>	Colusa Tidy-tips	Grassland	G2
<i>Bombus crotchii</i>	Crotch's Bumble Bee	Grassland	G2
<i>Calycadenia hooveri</i>	Hoover's Rosinweed	Grassland	G2
<i>Efferia antiochi</i>	Antioch Efferian Robberfly	Mixed Conifer Forest	G1
<i>Gymnogyps californianus</i>	California Condor	Mixed Conifer Forest	G1
<i>Brodiaea insignis</i>	Kaweah Brodiaea	Mixed Conifer Forest	G1
<i>Stylocline masonii</i>	Mason's Neststraw	Mixed Conifer Forest	G1
<i>Fritillaria pluriflora</i>	Adobe Lily	Mixed Conifer Forest	G2
<i>Clarkia rostrata</i>	Beaked Clarkia	Mixed Conifer Forest	G2
<i>Mimulus pictus</i>	Calico Monkeyflower	Mixed Conifer Forest	G2
<i>Lagophylla dichotoma</i>	Forked Hare-leaf	Mixed Conifer Forest	G2
<i>Sidalcea keckii</i>	Keck's Checker-mallow	Mixed Conifer Forest	G2
<i>Navarretia setiloba</i>	Piute Mountains Navarretia	Mixed Conifer Forest	G2
<i>Lewisia serrata</i>	Saw-toothed Lewisia	Mixed Conifer Forest	G2
<i>Eryngium racemosum</i>	Delta Coyote-thistle	Riparian/Streams	G1
<i>Elaphrus viridis</i>	Delta Green Ground Beetle	Riparian/Streams	G1
<i>Tuctoria greenei</i>	Green's Awnless Orcutt Grass	Riparian/Streams	G1
<i>Lampetra hubbsi</i>	Kern Brook Lamprey	Riparian/Streams	G1
<i>Cirsium crassicaule</i>	Slough Thistle	Riparian/Streams	G1
<i>Protodufourea zavortinki</i>	Zavortink's Protodufourea Bee	Riparian/Streams	G1
<i>Rana draytonii</i>	California Red-legged Frog	Riparian/Streams	G2
<i>Ambystoma californiense</i>	California Tiger Salamander	Riparian/Streams	G2
<i>Legenere limosa</i>	False Venus'-looking-glass	Riparian/Streams	G2
<i>Thamnophis gigas</i>	Giant Gartersnake	Riparian/Streams	G2
<i>Pseudobahia bahiifolia</i>	Hartweg's Golden Sunburst	Riparian/Streams	G2
<i>Lanx patelloides</i>	Kneecap Lanx	Riparian/Streams	G2
<i>Lytta molesta</i>	Molestan Blister Beetle	Riparian/Streams	G2
<i>Navarretia prostrata</i>	Prostrate Navarretia	Riparian/Streams	G2
<i>Monadenia infumata</i>	Redwood Sideband	Riparian/Streams	G2
<i>Hydrochara rickseckeri</i>	Ricksecker's Water Scavenger Beetle	Riparian/Streams	G2
<i>Archoplites interruptus</i>	Sacramento Perch	Riparian/Streams	G2
<i>Symphotrichum lentum</i>	Suisun Marsh Aster	Riparian/Streams	G2

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CENTRAL CALIFORNIA VALLEY ECOREGION

G1 and G2 Species Habitat Management Guidelines



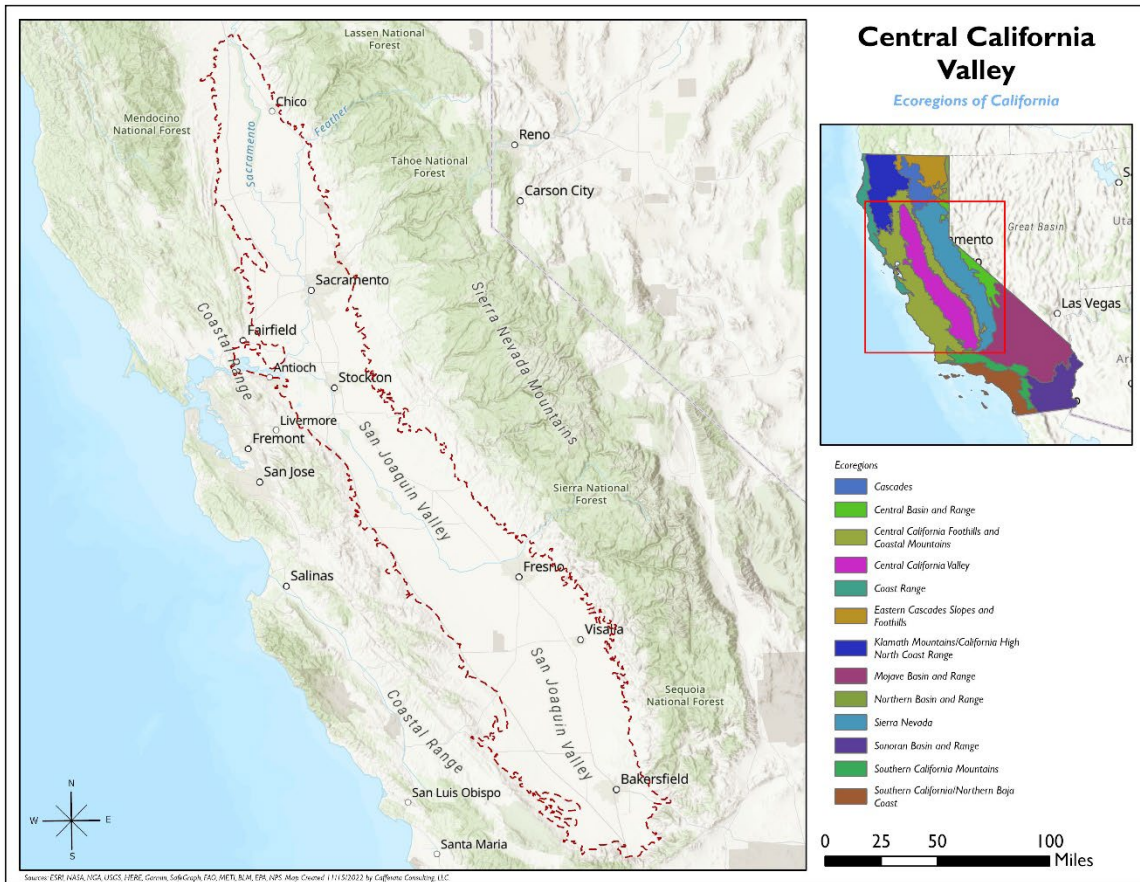
SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Spea hammondii</i>	Western Spadefoot	Riparian/Streams	G2
<i>Sidalcea robusta</i>	Butte County Checker-mallow	Savanna	G2
<i>Arctostaphylos bakeri</i>	Baker's Manzanita	Shrubland/Chaparral	G2
<i>Hygrotus curvipes</i>	Curved-foot Hygrotus Diving Beetle	Temporary Pools	G1
<i>Orcuttia pilosa</i>	Hairy Orcutt Grass	Temporary Pools	G1
<i>Chamaesyce hooveri</i>	Hoover's Broomspurge	Temporary Pools	G1
<i>Branchinecta longiantenna</i>	Longhorn Fairy Shrimp	Temporary Pools	G1
<i>Orcuttia viscida</i>	Sacramento Orcutt Grass	Temporary Pools	G1
<i>Orcuttia inaequalis</i>	San Joaquin Valley Orcutt Grass	Temporary Pools	G1
<i>Trifolium jokerstii</i>	Butte County Golden Clover	Temporary Pools	G2
<i>Delphinium recurvatum</i>	Byron Larkspur	Temporary Pools	G2
<i>Branchinecta conservatio</i>	Conservancy Fairy Shrimp	Temporary Pools	G2
<i>Fritillaria liliacea</i>	Fragrant Fritillary	Temporary Pools	G2
<i>Dumontia oregonensis</i>	Hairy Water Flea	Temporary Pools	G2
<i>Agrostis hendersonii</i>	Henderson's Bentgrass	Temporary Pools	G2
<i>Heterotheca shevockii</i>	Kern Canyon False Goldenaster	Temporary Pools	G2
<i>Branchinecta mesovallensis</i>	Midvalley Fairy Shrimp	Temporary Pools	G2
<i>Navarretia myersii</i>	Pincushion Navarretia	Temporary Pools	G2
<i>Juncus leiospermus</i>	Red Bluff Rush	Temporary Pools	G2
<i>Atriplex persistens</i>	Sacramento Saltbush	Temporary Pools	G2
<i>Orcuttia tenuis</i>	Slender Orcutt Grass	Temporary Pools	G2
<i>Eryngium spinosepalum</i>	Spiny Sepaled Coyote-thistle	Temporary Pools	G2
<i>Andrena blennospermatis</i>	a vernal pool andrenid bee	Upland	G2
<i>Atriplex depressa</i>	Bittlescale	Wetland	G2
<i>Gratiola heterosepala</i>	Boggs Lake Hedge-hyssop	Wetland	G2
<i>Lilaeopsis masonii</i>	Mason's Lilaeopsis	Wetland	G2
<i>Layia munzii</i>	Munz's Tidy-tips	Wetland	G2
<i>Cryptantha crinita</i>	Silky Cryptantha	Wetland	G2

*Species links provided when available

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CENTRAL CALIFORNIA VALLEY ECOREGION

G1 and G2 Species Habitat Management Guidelines



All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA COAST RANGE ECOREGION

G1 and G2 Species Habitat Management Guidelines



INTRODUCTION

The Sustainable Forestry Initiative® (SFI) [2022 Standards](#) include requirements that promote and conserve Forests with Exceptional Conservation Value (FECV), which includes critically imperiled (G1) and imperiled (G2) species. This fact sheet summarizes the analysis of FECV habitat within this ecoregion and provides habitat management recommendations that would benefit species potentially found here.

HABITAT TYPES

- Grassland
- Mixed Conifer Forest
- Riparian/Stream/Wetland
- Shrubland/Chaparral
- Special Sites (Bare Rock/Talus, Barrens, Bog/Fen, Cliff, Forest Edge, Sand/Dune, Temporary Pools)

GRASSLAND MANAGEMENT

- Protect known locations
- Buffer grassland areas

MIXED CONIFER FOREST MANAGEMENT

- Protect known locations
- Retain legacy trees, stumps, and logs
- Retain large diameter trees with cavities or broken tops
- Leave skips and gaps with dense shrub component
- Retain large slash into piles

RIPARIAN/STREAMS/WETLAND MANAGEMENT

- Protect known locations
- Maintain well vegetated riparian buffers
- Plant a diversity of both hardwood and conifer trees
- Retain large diameter trees near streams, rivers and wetlands
- Buffer wetlands, springs, and headwater areas



Monterey Pine



Humboldt Milkvetch



California Condor

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA COAST RANGE ECOREGION

G1 and G2 Species Habitat Management Guidelines

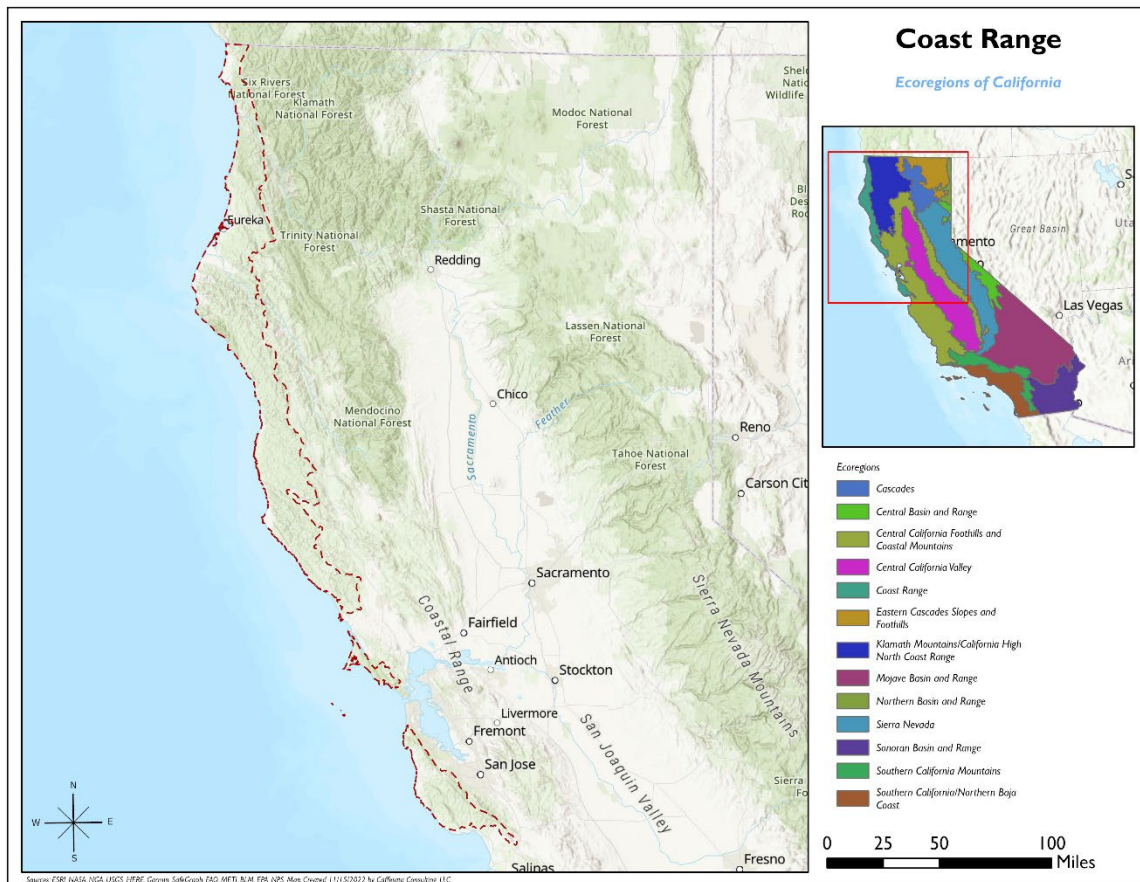


SHRUBLAND/CHAPARRAL

- Protect known locations
- Buffer shrubland and chaparral areas

SPECIAL SITES MANAGEMENT

- Protect known locations
- Maintain and buffer special sites



All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA COAST RANGE ECOREGION

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Hypogymnia schizidiata</i>	Island Tube Lichen	Bare Rock/Talus	G1
<i>Eriogonum cedrorum</i>	The Cedars Buckwheat	Bare Rock/Talus	G1
<i>Orthotrichum kellmanii</i>	Kellman's Bristle Moss	Bare Rock/Talus	G2
<i>Dacryophyllum falcifolium</i>	Teardrop Moss	Bare Rock/Talus	G2
<i>Trifolium amoenum</i>	Showy Indian Clover	Barrens	G1
<i>Arenaria paludicola</i>	Marsh Sandwort	Bog/Fen	G1
<i>Gymnogyps californianus</i>	California Condor	Cliff	G1
<i>Eriophyllum latilobum</i>	San Mateo Woolly-sunflower	Forest Edge	G1
<i>Fritillaria grayana</i>	Gray's Fritillary	Grassland	G1
<i>Agrostis blasdalei</i>	Cliff Bentgrass	Grassland	G2
<i>Bombus crotchii</i>	Crotch's Bumble Bee	Grassland	G2
<i>Adela oplerella</i>	Opler's Longhorn Moth	Grassland	G2
<i>Trifolium trichocalyx</i>	Monterey Clover	Mixed Conifer Forest	G1
<i>Pinus radiata</i>	Monterey Pine	Mixed Conifer Forest	G1
<i>Arctostaphylos ohloneana</i>	Ohlone Manzanita	Mixed Conifer Forest	G1
<i>Trifolium polyodon</i>	Pacific Grove Clover	Mixed Conifer Forest	G1
<i>Arctostaphylos glutinosa</i>	Schreiber's Manzanita	Mixed Conifer Forest	G1
<i>Arctostaphylos silvicola</i>	Silverleaf Manzanita	Mixed Conifer Forest	G1
<i>Argynnis adiaste</i>	Unsilvered Fritillary	Mixed Conifer Forest	G1
<i>Trimerotropis infantilis</i>	Zayante Band-winged Grasshopper	Mixed Conifer Forest	G1
<i>Sedum citrinum</i>	Blue Creek Stonecrop	Mixed Conifer Forest	G2
<i>Arctostaphylos virgata</i>	Bolin's Manzanita	Mixed Conifer Forest	G2
<i>Lilium maritimum</i>	Coast Lily	Mixed Conifer Forest	G2
<i>Lessingia arachnoidea</i>	Crystal Springs Lessingia	Mixed Conifer Forest	G2
<i>Cupressus goveniana</i>	Gowen Cypress	Mixed Conifer Forest	G2
<i>Streptanthus howellii</i>	Howell's Jewelflower	Mixed Conifer Forest	G2
<i>Astragalus agnicidus</i>	Humboldt Milkvetch	Mixed Conifer Forest	G2
<i>Linanthus jepsonii</i>	Jepson's Desert-trumpets	Mixed Conifer Forest	G2
<i>Arctostaphylos regismontana</i>	Kings Mountain Manzanita	Mixed Conifer Forest	G2
<i>Hoita strobilina</i>	Loma Prieta Scurfpea	Mixed Conifer Forest	G2
<i>Polites mardon</i>	Mardon Skipper	Mixed Conifer Forest	G2
<i>Chorizanthe pungens</i>	Monterey Spineflower	Mixed Conifer Forest	G2
<i>Streptanthus morrisonii</i>	Morrison's Jewelflower	Mixed Conifer Forest	G2
<i>Collinsia multicolor</i>	San Francisco Collinsia	Mixed Conifer Forest	G2
<i>Solanum wallacei</i>	Santa Catalina Nightshade	Mixed Conifer Forest	G2
<i>Arctostaphylos andersonii</i>	Santa Cruz Manzanita	Mixed Conifer Forest	G2
<i>Stebbinsoseris decipiens</i>	Santa Cruz Silverpuffs	Mixed Conifer Forest	G2
<i>Thermopsis robusta</i>	Showy Golden-banner	Mixed Conifer Forest	G2
<i>Streptanthus batrachopus</i>	Tamalpais Streptanthus	Mixed Conifer Forest	G2
<i>Calochortus raichei</i>	The Cedars Fairy Lantern	Mixed Conifer Forest	G2
<i>Grimmia torenii</i>		Mixed Conifer Forest	G2

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA COAST RANGE ECOREGION

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Rhynchospora californica</i>	California Beakrush	Riparian/Streams	G1
<i>Syncaris pacifica</i>	California Freshwater Shrimp	Riparian/Streams	G1
<i>Juga chacei</i>	Chace Juga	Riparian/Streams	G1
<i>Potentilla hickmanii</i>	Hickman's Cinquefoil	Riparian/Streams	G1
<i>Pomatiopsis binneyi</i>	Robust Walker	Riparian/Streams	G1
<i>Rana draytonii</i>	California Red-legged Frog	Riparian/Streams	G2
<i>Ambystoma californiense</i>	California Tiger Salamander	Riparian/Streams	G2
<i>Legenere limosa</i>	False Venus'-looking-glass	Riparian/Streams	G2
<i>Dubiraphia giulianii</i>	Giuliani's Dubiraphian Riffle Beetle	Riparian/Streams	G2
<i>Lanx alta</i>	Highcap Lanx	Riparian/Streams	G2
<i>Taricha rivularis</i>	Red-bellied Newt	Riparian/Streams	G2
<i>Monadenia infumata</i>	Redwood Sideband	Riparian/Streams	G2
<i>Hydrochara rickseckeri</i>	Ricksecker's Water Scavenger Beetle	Riparian/Streams	G2
<i>Noyo intersessa</i>	Ten Mile Shoulderband	Riparian/Streams	G2
<i>Caecidotea tomalensis</i>	Tomales Isopod	Riparian/Streams	G2
<i>Dirca occidentalis</i>	Western Leatherwood	Riparian/Streams	G2
<i>Polyphylla barbata</i>	Mount Hermon June Beetle	Sand/Dune	G1
<i>Triquetrella californica</i>	California Triquetrella Moss	Sand/Dune	G2
<i>Hesperolinon congestum</i>	Marin Western Flax	Shrubland/Chaparral	G1
<i>Arctostaphylos montaraensis</i>	Montara Manzanita	Shrubland/Chaparral	G1
<i>Erysimum teretifolium</i>	Santa Cruz Wallflower	Shrubland/Chaparral	G1
<i>Arctostaphylos bakeri</i>	Baker's Manzanita	Shrubland/Chaparral	G2
<i>Navarretia rosulata</i>	Marin County Navarretia	Shrubland/Chaparral	G2
<i>Castilleja mendocinensis</i>	Mendocino Coast Indian-paintbrush	Shrubland/Chaparral	G2
<i>Ceanothus purpureus</i>	Napa Ceanothus	Shrubland/Chaparral	G2
<i>Horkelia tenuiloba</i>	Santa Rosa Oceanspray	Shrubland/Chaparral	G2
<i>Fritillaria liliacea</i>	Fragrant Fritillary	Temporary Pools	G2
<i>Microseris paludosa</i>	Marsh Silverpuffs	Temporary Pools	G2
<i>Trifolium buckwestiorum</i>	Santa Cruz Clover	Temporary Pools	G2
<i>Lilium occidentale</i>	Western Lily	Wetland	G1
<i>Lilaeopsis masonii</i>	Mason's Lilaeopsis	Wetland	G2
<i>Tryonia imitator</i>	Mimic Tryonia	Wetland	G2
<i>Pleuropogon hooverianus</i>	North Coast False Semaphore Grass	Wetland	G2
<i>Epilobium oreganum</i>	Oregon Willowherb	Wetland	G2
<i>Ischnura gemina</i>	San Francisco Forktail	Wetland	G2

*Species links provided when available

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CALIFORNIA EASTERN CASCASDE SLOPES & FOOTHILLS ECOREGION

G1 and G2 Species Habitat Management Guidelines



INTRODUCTION

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HABITAT TYPES

- Grassland
- Mixed Conifer Forest
- Riparian/Streams/Wetlands/Temporary Pools

GRASSLAND MANAGEMENT

- Protect known locations
- Buffer grassland areas

MIXED CONIFER FOREST MANAGEMENT

- Protect known locations
- Retain legacy trees, stumps, and logs
- Retain large diameter trees with cavities or broken tops
- Leave skips and gaps with dense shrub component
- Retain large slash into piles

RIPARIAN/STREAMS/WETLANDS/TEMPORARY POOLS MANAGEMENT

- Protect known locations
- Maintain well vegetated riparian buffers
- Plant a diversity of both hardwood and conifer trees
- Retain large diameter trees near streams, rivers and wetlands
- Buffer wetlands, springs, and headwater areas



Oregon Spotted Frog



California Condor



Franklin Bumblebee

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CALIFORNIA EASTERN CASCASDE SLOPES & FOOTHILLS ECOREGION

G1 and G2 Species Habitat Management Guidelines



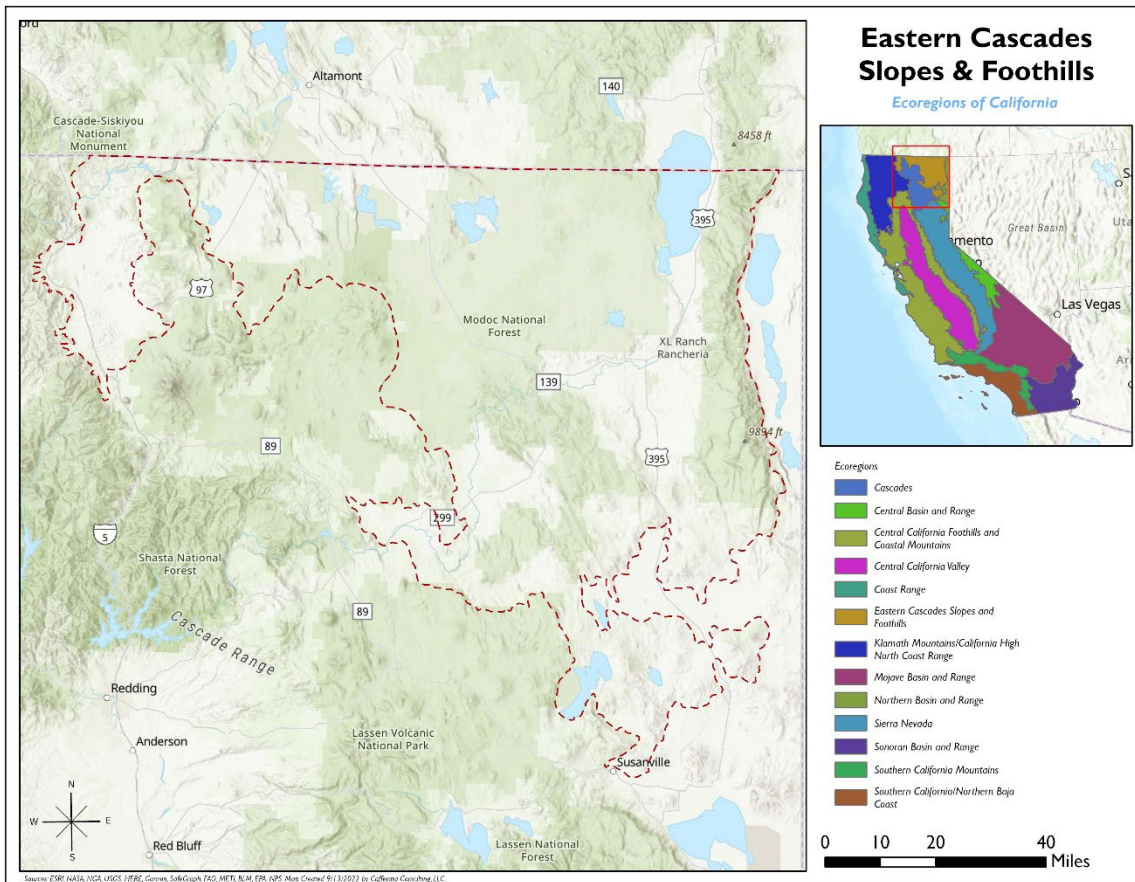
SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Bombus franklini</i>	Franklin Bumble Bee	Grassland	G1
<i>Bombus crotchii</i>	Crotch's Bumble Bee	Grassland	G2
<i>Gymnogyps californianus</i>	California Condor	Mixed Conifer Forest	G1
<i>Phacelia cookei</i>	Cooke's Phacelia	Mixed Conifer Forest	G1
<i>Astragalus anxius</i>	Lassen's Milkvetch	Mixed Conifer Forest	G1
<i>Phlox hirsuta</i>	Yreka Phlox	Mixed Conifer Forest	G1
<i>Ivesia paniculata</i>	Ash Creek Ivesia	Mixed Conifer Forest	G2
<i>Ivesia pickeringii</i>	Pickering's Ivesia	Mixed Conifer Forest	G2
<i>Monadenia chaceana</i>	Siskiyou Shoulderband	Mixed Conifer Forest	G2
<i>Pyrgulopsis archimedis</i>	Archimedes Pyrg	Riparian/Streams	G1
<i>Pyrgulopsis cinerana</i>	Ash Valley Pyrg	Riparian/Streams	G1
<i>Helisoma newberryi</i>	Great Basin Ramshorn	Riparian/Streams	G1
<i>Tuctoria greenei</i>	Green's Awnless Orcutt Grass	Riparian/Streams	G1
<i>Deltistes luxatus</i>	Lost River Sucker	Riparian/Streams	G1
<i>Pisidium ultramontanum</i>	Montane Peaclam	Riparian/Streams	G1
<i>Hesperoleucus mitrulus</i>	Northern Roach	Riparian/Streams	G1
<i>Pacifastacus fortis</i>	Shasta Crayfish	Riparian/Streams	G1
<i>Pyrgulopsis lasseni</i>	Willow Creek Pyrg	Riparian/Streams	G1
<i>Colligyrus convexus</i>	Canary Dusksnail	Riparian/Streams	G2
<i>Lanx alta</i>	Highcap Lanx	Riparian/Streams	G2
<i>Lanx patelloides</i>	Kneecap Lanx	Riparian/Streams	G2
<i>Fluminicola seminalis</i>	Nugget Pebblesnail	Riparian/Streams	G2
<i>Rana pretiosa</i>	Oregon Spotted Frog	Riparian/Streams	G2
<i>Monadenia infumata</i>	Redwood Sideband	Riparian/Streams	G2
<i>Cottus asperimus</i>	Rough Sculpin	Riparian/Streams	G2
<i>Pyrgulopsis eremica</i>	Smoke Creek Pyrg	Riparian/Streams	G2
<i>Juga acutifilosa</i>	Topaz Juga	Riparian/Streams	G2
<i>Orcuttia tenuis</i>	Slender Orcutt Grass	Temporary Pools	G2
<i>Gratiola heterosepala</i>	Boggs Lake Hedge-hyssop	Wetland	G2

*Species links provided when available

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA EASTERN CASCADES SLOPES & FOOTHILLS ECOREGION

G1 and G2 Species Habitat Management Guidelines



All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

KLAMATH MOUNTAINS/CALIFORNIA HIGH NORTH COAST RANGE Ecoregion

G1 and G2 Species Habitat Management Guidelines



INTRODUCTION

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HABITAT TYPES

- Grassland
- Mixed Conifer Forest
- Riparian/Streams/Wetlands/Bog/Fen/Temporary Pools
- Shrubland/Chaparral
- Special Sites (Bare Rock/Talus, Barrens, Cave, Cliff, Forest Edge)

GRASSLAND MANAGEMENT

- Protect known locations
- Buffer grassland areas

MIXED CONIFER FOREST MANAGEMENT

- Protect known locations
- Retain legacy trees, stumps, and logs
- Retain large diameter trees with cavities or broken tops
- Leave skips and gaps with dense shrub component
- Retain large slash into piles
- Protect known locations

RIPARIAN/STREAMS/WETLANDS/BOG/FEN

TEMPORARY POOLS MANAGEMENT

- Protect known locations
- Maintain well vegetated riparian buffers
- Plant a diversity of both hardwood and conifer trees
- Retain large diameter trees near streams, rivers and wetlands
- Buffer wetlands, springs, and headwater areas



California Condor



Western Lily



Red-bellied Newt

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KLAMATH MOUNTAINS/CALIFORNIA HIGH NORTH COAST RANGE Ecoregion G1 and G2 Species Habitat Management Guidelines

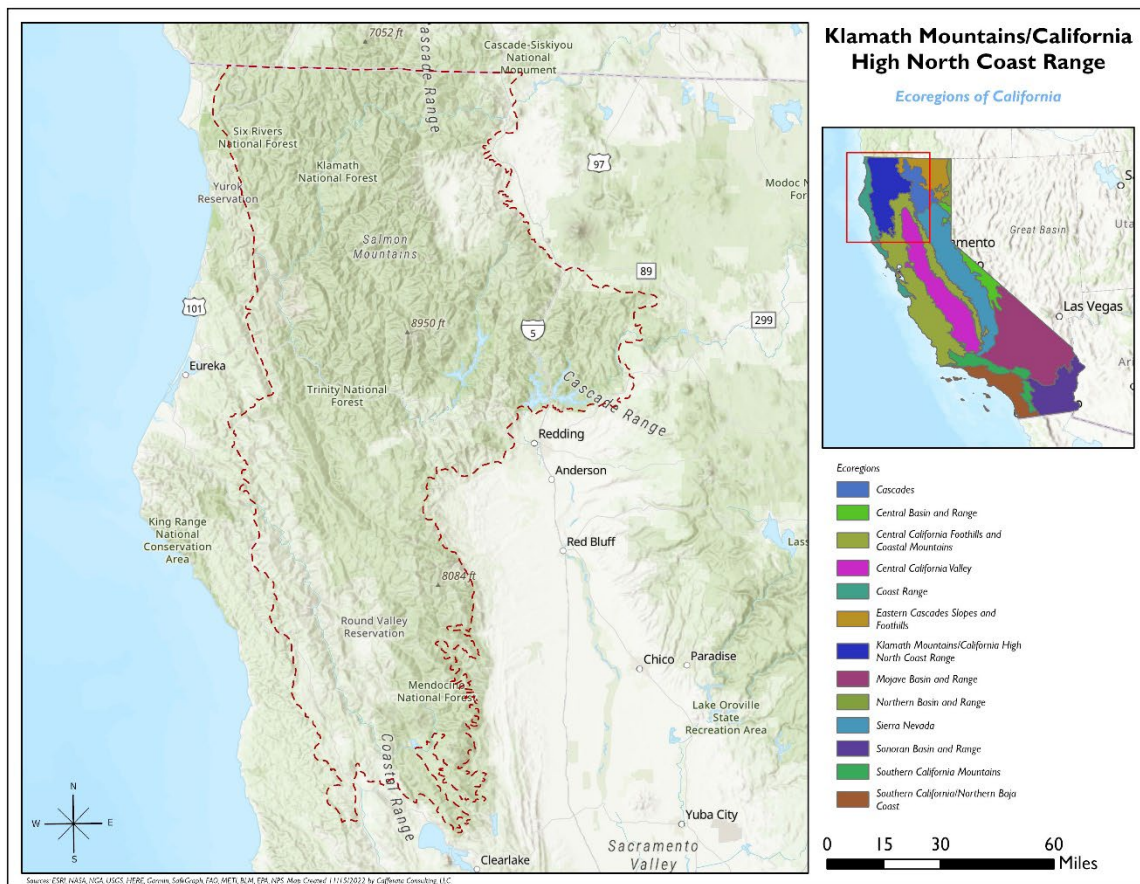


SHRUBLAND/CHAPARRAL MANAGEMENT

- Protect known locations
- Buffer shrubland and chaparral areas

SPECIAL SITES MANAGEMENT

- Protect known locations
- Maintain and buffer special sites



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KLAMATH MOUNTAINS/CALIFORNIA HIGH NORTH COAST RANGE ECOREGION

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Sedum marmorense</i>	Marble Mountains Stonecrop	Bare Rock/Talus	G1
<i>Boechera serpenticola</i>	Serpentine Rockcress	Bare Rock/Talus	G1
<i>Monadenia troglodytes</i>	Shasta Sideband	Bare Rock/Talus	G1
<i>Sedum rubiginosum</i>	Tedoc Stonecrop	Bare Rock/Talus	G1
<i>Sedum sanhedrinum</i>	Sanhedrin Mountain Stonecrop	Bare Rock/Talus	G2
<i>Sedum patens</i>	Smith River Stonecrop	Bare Rock/Talus	G2
<i>Trilobopsis tehamana</i>	Tehama Chaparral	Bare Rock/Talus	G2
<i>Eriogonum alpinum</i>	Trinity Buckwheat	Bare Rock/Talus	G2
<i>Erythranthe taylorii</i>		Bare Rock/Talus	G2
<i>Lupinus constancei</i>	Lassicus Lupine	Barrens	G1
<i>Madia doris-nilesiae</i>	Doris Nile's Madia	Barrens	G2
<i>Erigeron maniopotamicus</i>	Mad River Fleabane Daisy	Barrens	G2
<i>Raillardella pringlei</i>	Showy Raillardella	Bog/Fen	G2
<i>Stygobromus mysticus</i>	Secret Cave Amphipod	Cave	G1
<i>Sedum eastwoodiae</i>	Red Mountain Stonecrop	Cliff	G2
<i>Eriogonum kelloggii</i>	Kellogg's Buckwheat	Forest Edge	G2
<i>Silene marmorensis</i>	Somes Bar Campion	Forest Edge	G2
<i>Bombus suckleyi</i>	Suckley's Cuckoo Bumble Bee	Forest Edge	G2
<i>Bombus franklini</i>	Franklin Bumble Bee	Grassland	G1
<i>Tracyina rostrata</i>	Beaked Tracyina	Grassland	G2
<i>Bombus crotchii</i>	Crotch's Bumble Bee	Grassland	G2
<i>Hesperolinon drymarioides</i>	Drymary Dwarf-flax	Grassland	G2
<i>Hesperolinon adenophyllum</i>	Glandular Western Flax	Grassland	G2
<i>Eriogonum nervulosum</i>	Snow Mountain Buckwheat	Grassland	G2
<i>Helminthoglypta talmadgei</i>	Trinity Shoulderband	Grassland	G2
<i>Gymnogyps californianus</i>	California Condor	Mixed Conifer Forest	G1
<i>Cryptantha excavata</i>	Deep-scar Cryptantha	Mixed Conifer Forest	G1
<i>Monadenia callipeplus</i>	Downy Sideband	Mixed Conifer Forest	G1
<i>Ceanothus confusus</i>	Rincon Ridge Ceanothus	Mixed Conifer Forest	G1
<i>Minuartia decumbens</i>	The Lassics Sandwort	Mixed Conifer Forest	G1
<i>Streptanthus oblancoelatus</i>	Trinity River Jewelflower	Mixed Conifer Forest	G1
<i>Punctum hannai</i>	Trinity Spot	Mixed Conifer Forest	G1
<i>Lupinus antoninus</i>	Anthony Peak Lupine	Mixed Conifer Forest	G2
<i>Sedum citrinum</i>	Blue Creek Stonecrop	Mixed Conifer Forest	G2
<i>Gentiana plurisetosa</i>	Bristly Gentian	Mixed Conifer Forest	G2
<i>Potentilla cristae</i>	Crested Potentilla	Mixed Conifer Forest	G2
<i>Gentiana setigera</i>	Elegant Gentian	Mixed Conifer Forest	G2
<i>Lupinus elmeri</i>	Elmer's Lupine	Mixed Conifer Forest	G2
<i>Camissonia hardhamiae</i>	Hardham's Evening-primrose	Mixed Conifer Forest	G2

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KLAMATH MOUNTAINS/CALIFORNIA HIGH NORTH COAST RANGE ECOREGION

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Arctostaphylos hookeri</i>	Hooker's Manzanita	Mixed Conifer Forest	G2
<i>Streptanthus howellii</i>	Howell's Jewelflower	Mixed Conifer Forest	G2
<i>Tauschia howellii</i>	Howell's Tauschia	Mixed Conifer Forest	G2
<i>Astragalus agnicidus</i>	Humboldt Milkvetch	Mixed Conifer Forest	G2
<i>Eriogonum hirtellum</i>	Klamath Mountain Buckwheat	Mixed Conifer Forest	G2
<i>Polites mardon</i>	Mardon Skipper	Mixed Conifer Forest	G2
<i>Draba carnosula</i>	Mt. Eddy Draba	Mixed Conifer Forest	G2
<i>Hesperolinon tehamense</i>	Paskenta Grade Dwarf-flax	Mixed Conifer Forest	G2
<i>Ivesia pickeringii</i>	Pickering's Ivesia	Mixed Conifer Forest	G2
<i>Antennaria sawyeri</i>	Sawyer's Pussytoes	Mixed Conifer Forest	G2
<i>Minuartia stolonifera</i>	Scott Mountain Sandwort	Mixed Conifer Forest	G2
<i>Phacelia greenei</i>	Scott Valley Phacelia	Mixed Conifer Forest	G2
<i>Trilobopsis roperi</i>	Shasta Chaparral	Mixed Conifer Forest	G2
<i>Erythronium shastense</i>	Shasta Fawnlily	Mixed Conifer Forest	G2
<i>Thermopsis robusta</i>	Showy Golden-banner	Mixed Conifer Forest	G2
<i>Calochortus persistens</i>	Siskiyou Mariposa Lily	Mixed Conifer Forest	G2
<i>Monadenia chaceana</i>	Siskiyou Shoulderband	Mixed Conifer Forest	G2
<i>Calycadenia micrantha</i>	Small-flower Calycadenia	Mixed Conifer Forest	G2
<i>Epilobium nivium</i>	Snow Mountain Willowherb	Mixed Conifer Forest	G2
<i>Lewisia stebbinsii</i>	Stebbins' Lewisia	Mixed Conifer Forest	G2
<i>Madia stebbinsii</i>	Stebbins' Madia	Mixed Conifer Forest	G2
<i>Penstemon tracyi</i>	Tracy's Beardtongue	Mixed Conifer Forest	G2
<i>Campanula wilkinsiana</i>	Wilkins' Harebell	Mixed Conifer Forest	G2
<i>Lotus yollabollinsensis</i>	Yolla Bolly Mountains Bird's-foot-trefoil	Mixed Conifer Forest	G2
<i>Calochortus syntrophus</i>		Mixed Conifer Forest	G2
<i>Grimmia torenii</i>		Mixed Conifer Forest	G2
<i>Anaxyrus exsul</i>	Black Toad	Riparian/Streams	G1
<i>Juga chacei</i>	Chace Juga	Riparian/Streams	G1
<i>Ancotrema voyanum</i>	Hooded Lancetooth	Riparian/Streams	G1
<i>Chaetarthria leechi</i>	Leech's Chaetarthrian Water Scavenger Beetle	Riparian/Streams	G1
<i>Hesperoleucus mitrulus</i>	Northern Roach	Riparian/Streams	G1
<i>Puccinellia howellii</i>	Trinity Mountains Alkali Grass	Riparian/Streams	G1
<i>Campanula shetleri</i>	Castle Crags Harebell	Riparian/Streams	G2
<i>Rhyacophila lineata</i>	Castle Crags Rhyacophilan Caddisfly	Riparian/Streams	G2
<i>Lanx alta</i>	Highcap Lanx	Riparian/Streams	G2
<i>Lanx patelloides</i>	Kneecap Lanx	Riparian/Streams	G2
<i>Hesperarion plumbeus</i>	Leaden Slug	Riparian/Streams	G2
<i>Fluminicola seminalis</i>	Nugget Pebblesnail	Riparian/Streams	G2

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

KLAMATH MOUNTAINS/CALIFORNIA HIGH NORTH COAST RANGE Ecoregion G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Taricha rivularis</i>	Red-bellied Newt	Riparian/Streams	G2
<i>Monadenia infumata</i>	Redwood Sideband	Riparian/Streams	G2
<i>Cottus asperimus</i>	Rough Sculpin	Riparian/Streams	G2
<i>Plethodon asupak</i>	Scott Bar Salamander	Riparian/Streams	G2
<i>Neviusia cliftonii</i>	Shasta Snow-wreath	Riparian/Streams	G2
<i>Lupinus sericatus</i>	Cobb Mountain Lupine	Shrubland/Chaparral	G2
<i>Arctostaphylos klamathensis</i>	Klamath Manzanita	Shrubland/Chaparral	G2
<i>Horkelia tenuiloba</i>	Santa Rosa Oceanspray	Shrubland/Chaparral	G2
<i>Lessingia micradenia</i>	Tamalpais Lessingia	Shrubland/Chaparral	G2
<i>Trifolium buckwestiorum</i>	Santa Cruz Clover	Temporary Pools	G2
<i>Limnanthes bakeri</i>	Baker's Meadowfoam	Wetland	G1
<i>Lilium occidentale</i>	Western Lily	Wetland	G1
<i>Pleuropogon hooverianus</i>	North Coast False Semaphore Grass	Wetland	G2
<i>Epilobium oreganum</i>	Oregon Willowherb	Wetland	G2

*Species links provided when available

CALIFORNIA

MOJAVE BASIN AND RANGE Ecoregion

G1 and G2 Species Habitat Management Guidelines



INTRODUCTION

The Sustainable Forestry Initiative® (SFI) [2022 Standards](#) include requirements that promote and conserve Forests with Exceptional Conservation Value (FECV), which includes critically imperiled (G1) and imperiled (G2) species. This fact sheet summarizes the analysis of FECV habitat within this ecoregion and provides habitat management recommendations that would benefit species potentially found here.

HABITAT TYPES

- Grassland
- Mixed Conifer Forest
- Riparian/Streams/Wetlands/Springs/Temporary Pools
- Shrubland/Chaparral
- Special Sites (Bare Rock/Talus, Cliff, Desert, Dunes,)

GRASSLAND MANAGEMENT

- Protect known locations
- Buffer grassland areas

MIXED CONIFER FOREST MANAGEMENT

- Protect known locations
- Retain legacy trees, stumps, and logs
- Retain large diameter trees with cavities or broken tops
- Leave skips and gaps with dense shrub component
- Retain large slash into piles

RIPARIAN/STREAMS/WETLANDS/SPRINGS/ TEMPORARY POOLS MANAGEMENT

- Protect known locations
- Maintain well vegetated riparian buffers
- Plant a diversity of both hardwood and conifer trees
- Retain large diameter trees near streams, rivers and wetlands
- Buffer wetlands, springs, and headwater areas



Sierra Night Lizard



Gilman's Milkvetch



Owens Pupfish

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA

MOJAVE BASIN AND RANGE Ecoregion

G1 and G2 Species Habitat Management Guidelines

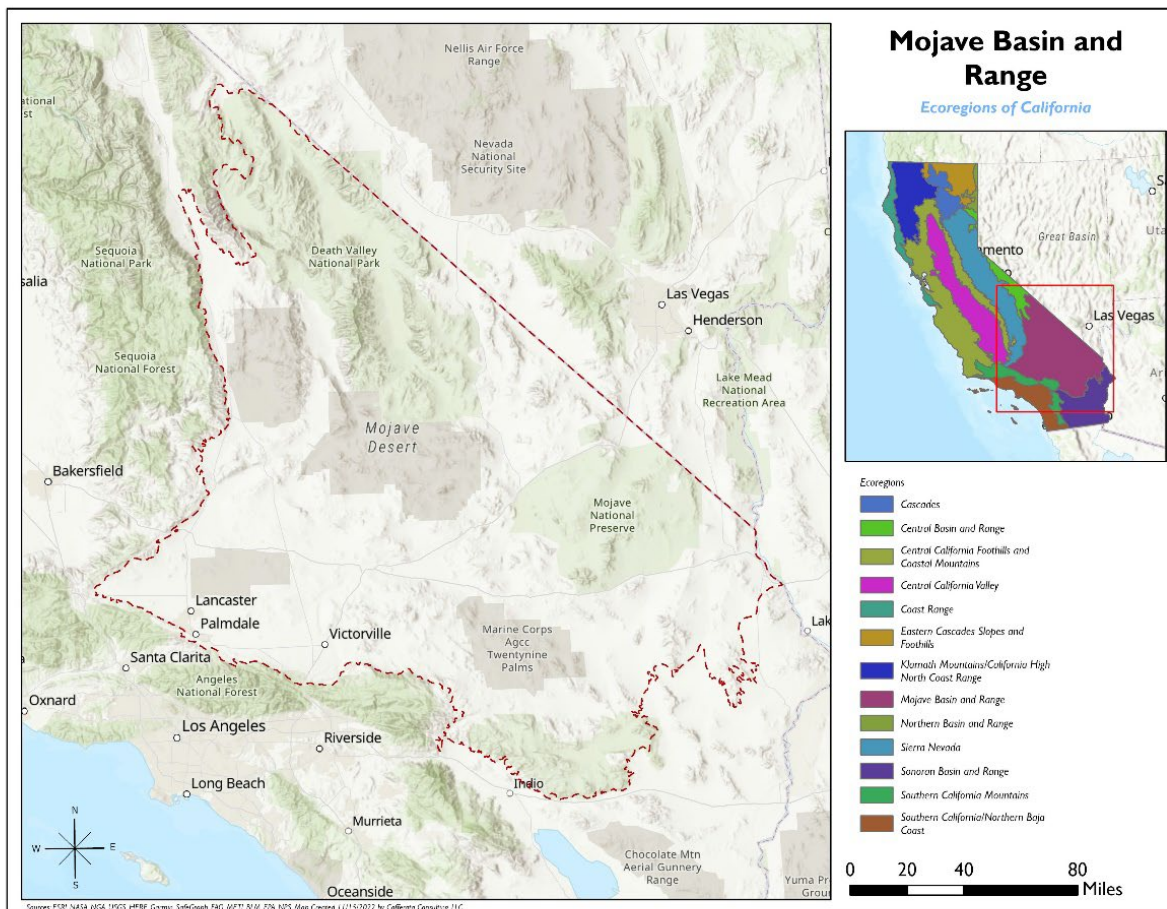


SHRUBLAND/CHAPARRAL MANAGEMENT

- Protect known locations
- Buffer shrubland and chaparral areas

SPECIAL SITES MANAGEMENT

- Protect known locations
- Maintain and buffer special sites



All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA

MOJAVE BASIN AND RANGE Ecoregion

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Claytonia panamintensis</i>	Panamint Spring Beauty	Bare Rock/Talus	G1
<i>Mentzelia polita</i>	Polished Blazingstar	Bare Rock/Talus	G2
<i>Hackelia sharsmithii</i>	Sharsmith's Stickseed	Bare Rock/Talus	G2
<i>Lupinus holmgrenianus</i>	Holmgren's Lupine	Desert	G2
<i>Euparagia unidentata</i>	a wasp	Dunes	G1
<i>Xantusia sierrae</i>	Sierra Night Lizard	Grassland	G1
<i>Bombus crotchii</i>	Crotch's Bumble Bee	Grassland	G2
<i>Symphyotrichum defoliatum</i>	San Bernardino Aster	Grassland	G2
<i>Gymnogyps californianus</i>	California Condor	Mixed Conifer Forest	G1
<i>Boechera yorkii</i>	Last Chance Rockcress	Mixed Conifer Forest	G1
<i>Phacelia anelsonii</i>	Aven Nelson's Phacelia	Mixed Conifer Forest	G2
<i>Trifolium dedeckerae</i>	Dedecker's Clover	Mixed Conifer Forest	G2
<i>Ericameria gilmanii</i>	Gilman Goldenweed	Mixed Conifer Forest	G2
<i>Astragalus gilmanii</i>	Gilman's Milkvetch	Mixed Conifer Forest	G2
<i>Perityle villosa</i>	Hanaupah Rockdaisy	Mixed Conifer Forest	G2
<i>Perityle inyoensis</i>	Inyo Rockdaisy	Mixed Conifer Forest	G2
<i>Ivesia patellifera</i>	Kingston Mountains Ivesia	Mixed Conifer Forest	G2
<i>Astragalus lentiformis</i>	Lens-pod Milkvetch	Mixed Conifer Forest	G2
<i>Penstemon calcareus</i>	Limestone Beardtongue	Mixed Conifer Forest	G2
<i>Petrophytum acuminatum</i>	Marble Rockmat	Mixed Conifer Forest	G2
<i>Mimulus mohavensis</i>	Mojave Monkeyflower	Mixed Conifer Forest	G2
<i>Layia heterotricha</i>	Pale-yellow Layia	Mixed Conifer Forest	G2
<i>Erigeron parishii</i>	Parish's Daisy	Mixed Conifer Forest	G2
<i>Thysanocarpus rigidus</i>		Mixed Conifer Forest	G2
<i>Assiminea infima</i>	Badwater Snail	Riparian/Streams	G1
<i>Tryonia margae</i>	Grapevine Springs Elongate Tryonia	Riparian/Streams	G1
<i>Xyrauchen texanus</i>	Razorback Sucker	Riparian/Streams	G1
<i>Erythranthe rhodopetra</i>	Red Rock Canyon Monkeyflower	Riparian/Streams	G1
<i>Ipnobius robustus</i>	Robust Tryonia	Riparian/Streams	G1
<i>Cyprinodon salinus</i>	Salt Creek Pupfish	Riparian/Streams	G1
<i>Plebulina emigdionis</i>	San Emigdio Blue	Riparian/Streams	G1
<i>Rana muscosa</i>	Southern Mountain Yellow-legged Frog	Riparian/Streams	G1
<i>Eriastrum rosamondense</i>		Riparian/Streams	G1
<i>Pelocoris biimpressus</i>	Amargosa Naucorid Bug	Riparian/Streams	G2
<i>Cyprinodon nevadensis</i>	Amargosa Pupfish	Riparian/Streams	G2
<i>Anaxyrus californicus</i>	Arroyo Toad	Riparian/Streams	G2
<i>Rana draytonii</i>	California Red-legged Frog	Riparian/Streams	G2
<i>Sisyrinchium funereum</i>	Funeral Mountain Blue-eyed-grass	Riparian/Streams	G2

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA

MOJAVE BASIN AND RANGE Ecoregion

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Rana sierrae</i>	Sierra Nevada Yellow-legged Frog	Riparian/Streams	G2
<i>Drymocallis cuneifolia</i>	Wedgeleaf Drymocallis	Riparian/Streams	G2
<i>Pyrgulopsis wongi</i>	Wong's Springsnail	Riparian/Streams	G2
<i>Astragalus albens</i>	Cushenbury Milkvetch	Shrubland/Chaparral	G1
<i>Psychomastax deserticola</i>	Desert Monkey Grasshopper	Shrubland/Chaparral	G1
<i>Atriplex parishii</i>	Parish's Saltbush	Shrubland/Chaparral	G1
<i>Linanthus bernardinus</i>	Pioneertown Linanthus	Shrubland/Chaparral	G1
<i>Eriogonum eremicola</i>	Wildrose Canyon Buckwheat	Shrubland/Chaparral	G1
<i>Phacelia geraniifolia</i>	Geranium-leaf Scorpionweed	Shrubland/Chaparral	G2
<i>Prunus eremophila</i>	Mojave Desert Plum	Shrubland/Chaparral	G2
<i>Hyalella sandra</i>	Death Valley Amphipod	Springs	G1
<i>Delphinium recurvatum</i>	Byron Larkspur	Temporary Pools	G2
<i>Navarretia fossalis</i>	Spreading Navarretia	Temporary Pools	G2
<i>Cyprinodon radiusus</i>	Owens Pupfish	Wetland	G1
<i>Plagiobothrys parishii</i>	Parish's Popcorn-flower	Wetland	G1
<i>Grindelia fraxinipratensis</i>	Ash Meadows Gumweed	Wetland	G2

*Species links provided when available

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA

NORTHERN BASIN & RANGE Ecoregion

G1 and G2 Species Habitat Management Guidelines



INTRODUCTION

The Sustainable Forestry Initiative® (SFI) [2022 Standards](#) include requirements that promote and conserve Forests with Exceptional Conservation Value (FECV), which includes critically imperiled (G1) and imperiled (G2) species. This fact sheet summarizes the analysis of FECV habitat within this ecoregion and provides habitat management recommendations that would benefit species potentially found here.

HABITAT TYPES

- Bare Rock/Talus
- Cliff
- Riparian/Streams
- Shrubland/Chaparral

BARE ROCK/TALUS MANAGEMENT

- Protect known locations
- Buffer bare rock and talus areas

RIPARIAN/STREAMS MANAGEMENT

- Protect known locations
- Maintain well vegetated riparian buffers
- Plant a diversity of both hardwood and conifer trees
- Retain large diameter trees near streams, rivers and wetlands
- Buffer wetlands, springs, and headwater areas

SHRUBLAND/CHAPARRAL MANAGEMENT

- Protect known locations
- Buffer shrubland and chaparral areas



Oregon Spotted Frog



California Condor



Weber Ivesia

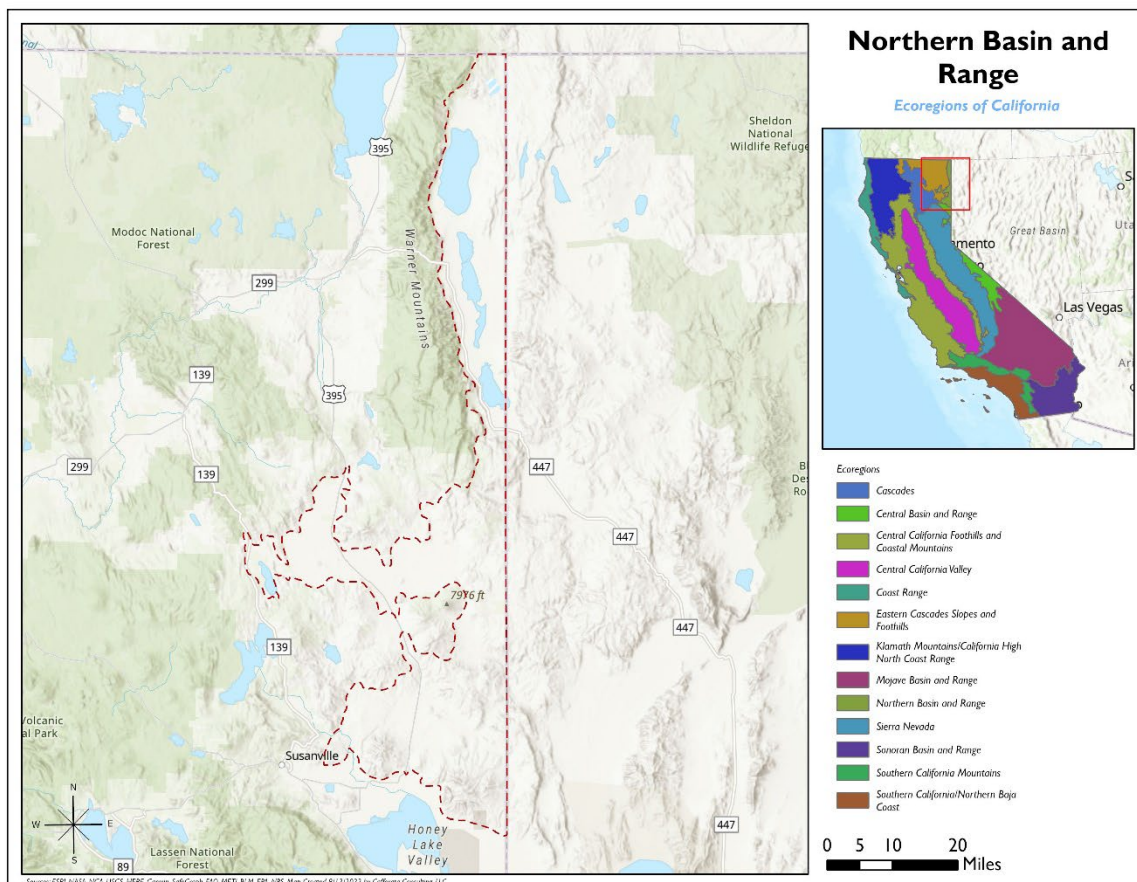
All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA NORTHERN BASIN & RANGE Ecoregion G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Tortula californica</i>	California Screw Moss	Bare Rock/Talus	G2
<i>Gymnogyps californianus</i>	California Condor	Mixed Conifer Forest	G1
<i>Rana pretiosa</i>	Oregon Spotted Frog	Riparian/Streams	G2
<i>Pyrgulopsis eremica</i>	Smoke Creek Pyrg	Riparian/Streams	G2
<i>Juga acutifilosa</i>	Topaz Juga	Riparian/Streams	G2
<i>Ivesia webberi</i>	Webber Ivesia	Shrubland/Chaparral	G2

*Species links provided when available



All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

SOUTHERN CALIFORNIA/NORTHERN BAJA COAST Ecoregion

G1 and G2 Species Habitat Management Guidelines



INTRODUCTION

The Sustainable Forestry Initiative® (SFI) [2022 Standards](#) include requirements that promote and conserve Forests with Exceptional Conservation Value (FECV), which includes critically imperiled (G1) and imperiled (G2) species. This fact sheet summarizes the analysis of FECV habitat within this ecoregion and provides habitat management recommendations that would benefit species potentially found here.

HABITAT TYPES

- Grassland
- Mixed Conifer Forest
- Riparian/Streams/Wetlands/Temporary Pools/Bog/Fen
- Shrubland/Chaparral
- Special Sites (Bare Rock/Talus, Coastal Sage Scrub, Rocky Slopes, Sand/Dune)

GRASSLAND MANAGEMENT

- Protect known locations
- Buffer grassland areas

MIXED CONIFER FOREST MANAGEMENT

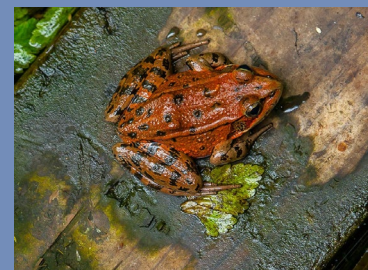
- Protect known locations
- Retain legacy trees, stumps, and logs
- Retain large diameter trees with cavities or broken tops
- Leave skips and gaps with dense shrub component
- Retain large slash into piles

RIPARIAN/STREAMS/WETLANDS/TEMPORARY POOLS/BOG/FEN MANAGEMENT

- Protect known locations
- Maintain well vegetated riparian buffers
- Plant a diversity of both hardwood and conifer trees
- Retain large diameter trees near streams, rivers and wetlands
- Buffer wetlands, springs, and headwater areas



**Southern Mountain Yellow-
legged Frog**



California Reg-legged Frog



Western Spadefoot

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

SOUTHERN CALIFORNIA/NORTHERN BAJA COAST ECOREGION



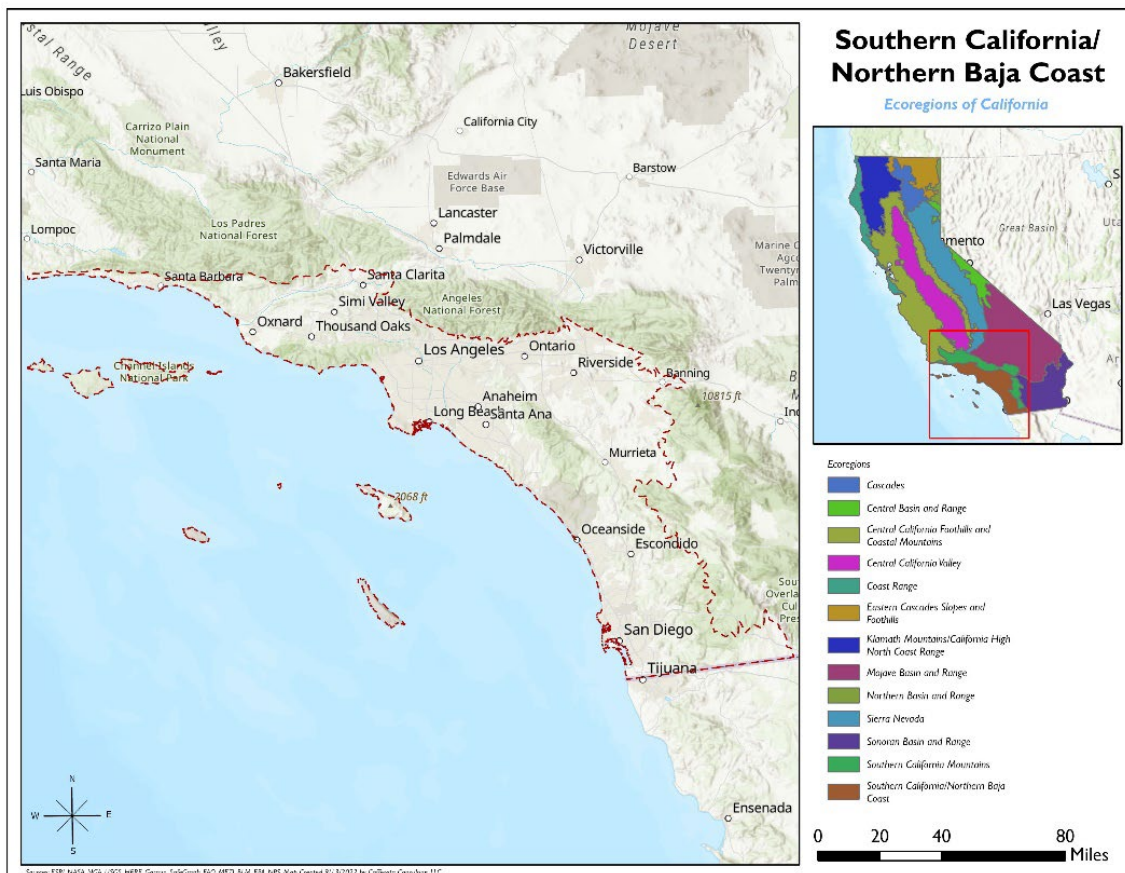
G1 and G2 Species Habitat Management Guidelines

SHRUBLAND/CHAPARRAL MANAGEMENT

- Protect known locations
- Buffer shrubland and chaparral areas

SPECIAL SITES MANAGEMENT

- Protect known locations
- Maintain and buffer special sites



All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

SOUTHERN CALIFORNIA/NORTHERN BAJA COAST Ecoregion



G1 and G2 Species Habitat Management Guidelines

SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Hypogymnia schizidiata</i>	Island Tube Lichen	Bare Rock/Talus	G1
<i>Tortula californica</i>	California Screw Moss	Bare Rock/Talus	G2
<i>Hemizonia minthornii</i>	Santa Susana Tarweed	Bare Rock/Talus	G2
<i>Mielichhoferia shevockii</i>	Shevock's Copper Moss	Bare Rock/Talus	G2
<i>Arenaria paludicola</i>	Marsh Sandwort	Bog/Fen	G1
<i>Dudleya parva</i>	Conejo Dudleya	Cliff	G1
<i>Salvia brandegeei</i>	Brandegee's Sage	Cliff	G2
<i>Agave shawii</i>	Shaw's Agave	Cliff	G2
<i>Bergerocactus emoryi</i>	Golden-spined Cereus	Coastal Sage Scrub	G2
<i>Ambrosia pumila</i>	San Diego Ragweed	Grassland	G1
<i>Acanthomintha ilicifolia</i>	San Diego Thornmint	Grassland	G1
<i>Bombus crotchii</i>	Crotch's Bumble Bee	Grassland	G2
<i>Symphyotrichum defoliatum</i>	San Bernardino Aster	Grassland	G2
<i>Navarretia ojaiensis</i>		Grassland	G2
<i>Eriogonum evanidum</i>	a buckwheat	Mixed Conifer Forest	G1
<i>Gymnogyps californianus</i>	California Condor	Mixed Conifer Forest	G1
<i>Astragalus deanei</i>	Deane's Milkvetch	Mixed Conifer Forest	G1
<i>Baccharis malibuensis</i>	Malibu Coyote Brush	Mixed Conifer Forest	G1
<i>Helianthus inexpectatus</i>	Newhall Sunflower	Mixed Conifer Forest	G1
<i>Arctostaphylos otayensis</i>	Otay Manzanita	Mixed Conifer Forest	G1
<i>Cupressus abramsiana</i>	Santa Cruz Island Cypress	Mixed Conifer Forest	G1
<i>Pinus torreyana</i>	Torrey Pine	Mixed Conifer Forest	G1
<i>Dudleya verityi</i>	Verity's Dudleya	Mixed Conifer Forest	G1
<i>Scrophularia atrata</i>	Black-flower Figwort	Mixed Conifer Forest	G2
<i>Calochortus dunnii</i>	Dunn's Mariposa Lily	Mixed Conifer Forest	G2
<i>Cupressus goveniana</i>	Gowen Cypress	Mixed Conifer Forest	G2
<i>Symphyotrichum greatae</i>	Greata's Aster	Mixed Conifer Forest	G2
<i>Fremontodendron mexicanum</i>	Mexican Flannelbush	Mixed Conifer Forest	G2
<i>Navarretia setiloba</i>	Piute Mountains Navarretia	Mixed Conifer Forest	G2
<i>Ceanothus cyaneus</i>	San Diego Ceanothus	Mixed Conifer Forest	G2
<i>Astragalus oocarpus</i>	San Diego Milkvetch	Mixed Conifer Forest	G2
<i>Glyptostoma gabrielense</i>	San Gabriel Chestnut	Mixed Conifer Forest	G2
<i>Cupressus forbesii</i>	Tecate Cypress	Mixed Conifer Forest	G2
<i>Dudleya variegata</i>	Variegated Dudleya	Mixed Conifer Forest	G2
<i>Thysanocarpus rigidus</i>		Mixed Conifer Forest	G2
<i>Monardella stoneana</i>	Jennifer's Monardella	Riparian/Streams	G1
<i>Catostomus santaanae</i>	Santa Ana Sucker	Riparian/Streams	G1
<i>Rana muscosa</i>	Southern Mountain Yellow-legged Frog	Riparian/Streams	G1

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

SOUTHERN CALIFORNIA/NORTHERN BAJA COAST Ecoregion



G1 and G2 Species Habitat Management Guidelines

SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Gila orcuttii</i>	Arroyo Chub	Riparian/Streams	G2
<i>Anaxyrus californicus</i>	Arroyo Toad	Riparian/Streams	G2
<i>Linderiella occidentalis</i>	California Fairy Shrimp	Riparian/Streams	G2
<i>Rana draytonii</i>	California Red-legged Frog	Riparian/Streams	G2
<i>Malacothamnus davidsonii</i>	Davidson's Bushmallow	Riparian/Streams	G2
<i>Navarretia prostrata</i>	Prostrate Navarretia	Riparian/Streams	G2
<i>Clinopodium chandleri</i>	San Miguel Savory	Riparian/Streams	G2
<i>Hemizonia floribunda</i>	Tecate Tarweed	Riparian/Streams	G2
<i>Spea hammondii</i>	Western Spadefoot	Riparian/Streams	G2
<i>Ceanothus verrucosus</i>	Warty-stem Ceanothus	Rocky Slopes	G2
<i>Triquetrella californica</i>	California Triquetrella Moss	Sand/Dune	G2
<i>Orcuttia californica</i>	California Orcutt Grass	Shrubland/Chaparral	G1
<i>Eriogonum crocatum</i>	Conejo Buckwheat	Shrubland/Chaparral	G1
<i>Baccharis vanessae</i>	Encinitis Baccharis	Shrubland/Chaparral	G1
<i>Tharsalea hermes</i>	Hermes Copper	Shrubland/Chaparral	G1
<i>Dudleya stolonifera</i>	Laguna Beach Dudleya	Shrubland/chaparral	G1
<i>Berberis nevinii</i>	Nevin's Barberry	Shrubland/Chaparral	G1
<i>Hazardia orcuttii</i>	Orcutt's Hazardia	Shrubland/Chaparral	G1
<i>Ceanothus otayensis</i>	Otay Mountain Ceanothus	Shrubland/Chaparral	G1
<i>Atriplex parishii</i>	Parish's Saltbush	Shrubland/Chaparral	G1
<i>Cercocarpus traskiae</i>	Santa Catalina Mountain-mahogany	Shrubland/Chaparral	G1
<i>Trimerotropis occidentiloides</i>	Santa Monica Grasshopper	Shrubland/Chaparral	G1
<i>Ceanothus ophiophilus</i>	Vail Lake Ceanothus	Shrubland/Chaparral	G1
<i>Ceanothus pendletonensis</i>		Shrubland/Chaparral	G1
<i>Astragalus brauntonii</i>	Braunton's Milkvetch	Shrubland/Chaparral	G2
<i>Quercus cedrosensis</i>	Cedros Island Oak	Shrubland/Chaparral	G2
<i>Nolina interrata</i>	Dehesa (San Diego) Bear-grass	Shrubland/Chaparral	G2
<i>Linanthus bellus</i>	Desert Beauty	Shrubland/Chaparral	G2
<i>Packera ganderi</i>	Gander's Ragwort	Shrubland/Chaparral	G2
<i>Lepechinia cardiophylla</i>	Heart-shaped Pitcher-sage	Shrubland/Chaparral	G2
<i>Galium buxifolium</i>	Island Bedstraw	Shrubland/Chaparral	G2
<i>Ribes canthariforme</i>	Moreno Currant	Shrubland/Chaparral	G2
<i>Arctostaphylos rainbowensis</i>	Rainbow Manzanita	Shrubland/Chaparral	G2
<i>Muilla clevelandii</i>	San Diego Goldenstar	Shrubland/Chaparral	G2
<i>Ribes viburnifolium</i>	Santa Catalina Island Currant	Shrubland/Chaparral	G2
<i>Perognathus alticola</i>	White-eared Pocket Mouse	Shrubland/Chaparral	G2
<i>Pogogyne nudiuscula</i>	Otay Manzanita	Temporary Pools	G1
<i>Streptocephalus woottoni</i>	Riverside Fairy Shrimp	Temporary Pools	G1
<i>Brodiaea orcuttii</i>	Orcutt's Brodiaea	Temporary Pools	G2

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

SOUTHERN CALIFORNIA/NORTHERN BAJA COAST Ecoregion

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Branchinecta sandiegonensis</i>	San Diego Fairy Shrimp	Temporary Pools	G2
<i>Navarretia fossalis</i>	Spreading Navarretia	Temporary Pools	G2
<i>Diplectrona californica</i>	California Diplectronan Caddisfly	Wetland	G1
<i>Calystegia felix</i>	Lucky Morning Glory	Wetland	G1
<i>Tryonia imitator</i>	Mimic Tryonia	Wetland	G2

**Species links provided when available*

CALIFORNIA SIERRA NEVADA ECOREGION

G1 and G2 Species Habitat Management Guidelines



INTRODUCTION

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HABITAT TYPES

- Bare Rock/Talus
- Grassland
- Mixed Conifer Forest
- Riparian/Streams/Wetlands
- Shrubland/Chaparral
- Special Sites (Alpine, Barrens, Bare Ground, Bog/Fen, Cave, Cliff, Forest Edge, Lake, Springs, Temporary Pools)

BARE ROCK/TALUS MANAGEMENT

- Protect known locations
- Buffer special sites

GRASSLAND MANAGEMENT

- Protect known locations
- Buffer grassland areas

MIXED CONIFER FOREST MANAGEMENT

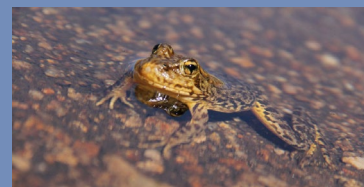
- Protect known locations
- Retain legacy trees, stumps, and logs
- Retain large diameter trees with cavities or broken tops
- Leave skips and gaps with dense shrub component
- Retain large slash into piles



Calico Monkeyflower



Shaggy Hair Lupine



**Sierra Nevada
Yellow-legged Frog**

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA SIERRA NEVADA ECOREGION

G1 and G2 Species Habitat Management Guidelines



RIPARIAN/STREAMS/WETLANDS MANAGEMENT

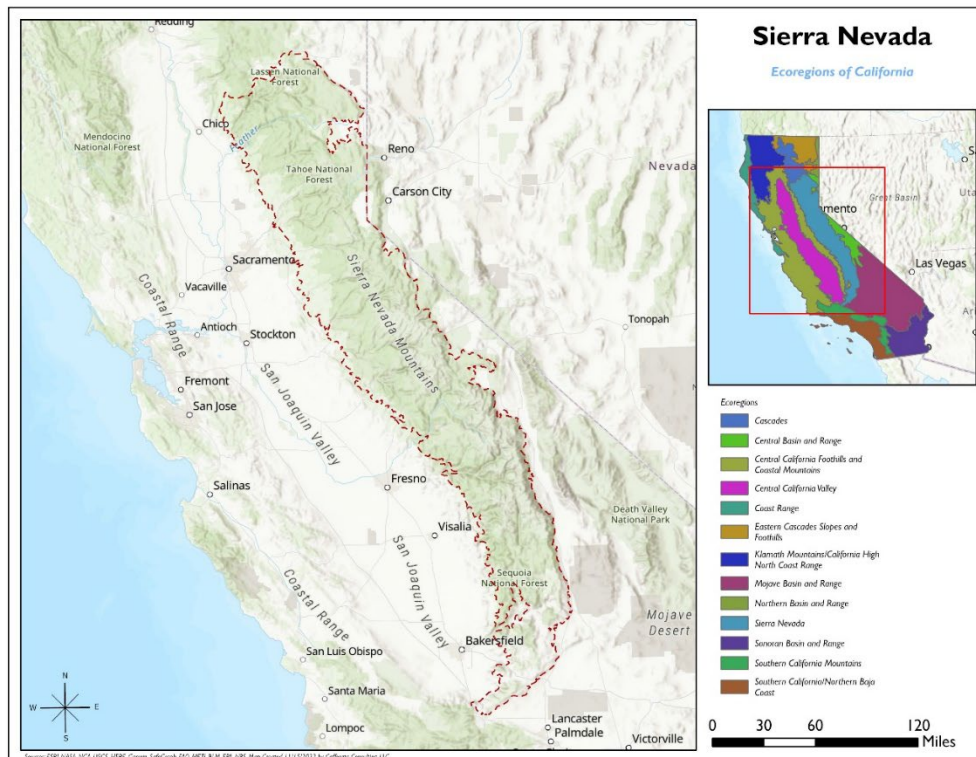
- Protect known locations
- Maintain well vegetated riparian buffers
- Plant a diversity of both hardwood and conifer trees
- Retain large diameter trees near streams, rivers and wetlands
- Buffer wetlands, springs, and headwater areas

SHRUBLAND/CHAPARRAL MANAGEMENT

- Protect known locations
- Buffer shrubland and chaparral areas

SPECIAL SITES MANAGEMENT

- Protect known locations
- Maintain and buffer special sites



All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA SIERRA NEVADA ECOREGION

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Lepidostoma ermanae</i>	Cold Spring Caddisfly	Alpine	G1
<i>Draba sharsmithii</i>	Mt. Whitney Draba	Alpine	G2
<i>Astragalus ravenii</i>	Raven's Milkvetch	Alpine	G2
<i>Navarretia miwukensis</i>		Bare Ground	G1
<i>Calicina conifera</i>	Crane Flat harvestman	Bare Rock/Talus	G1
<i>Eriogonum eastwoodianum</i>	Eastwood's Buckwheat	Bare Rock/Talus	G2
<i>Hackelia sharsmithii</i>	Sharsmith's Stickseed	Bare Rock/Talus	G2
<i>Mielichhoferia shevockii</i>	Shevock's Copper Moss	Bare Rock/Talus	G2
<i>Draba asterophora</i>	Tahoe Whitlow-grass	Bare Rock/Talus	G2
<i>Arctostaphylos myrtifolia</i>	lone Manzanita	Barrens	G1
<i>Boechera constancei</i>	Constance's Rockcress	Barrens	G2
<i>Horkelia parryi</i>	Parry's Horkelia	Barrens	G2
<i>Eleocharis torticulmis</i>	Twisted Spikerush	Bog/Fen	G1
<i>Oreostemma elatum</i>	Plumas Mountaintown	Bog/Fen	G2
<i>Platanthera yosemitensis</i>	Yosemite Bog-orchid	Bog/Fen	G2
<i>Stygobromus gradyi</i>	Grady's Cave Amphipod	Cave	G1
<i>Stygobromus grahami</i>	Graham's Cave Amphipod	Cave	G2
<i>Monadonia yosemitensis</i>	Indian Yosemite Snail	Cliff	G1
<i>Raillardiopsis muirii</i>	Muir's Tarplant	Cliff	G2
<i>Clarkia springvillensis</i>	Springville Clarkia	Forest Edge	G2
<i>Astragalus austiniae</i>	Austin's Milkvetch	Grassland	G2
<i>Balsamorhiza macrolepis</i>	Big-scale Balsamroot	Grassland	G2
<i>Bombus crotchii</i>	Crotch's Bumble Bee	Grassland	G2
<i>Stygobromus tahoensis</i>	Lake Tahoe Stygobromid	Lake	G1
<i>Gymnogyps californianus</i>	California Condor	Mixed Conifer Forest	G1
<i>Brodiaea insignis</i>	Kaweah Brodiaea	Mixed Conifer Forest	G1
<i>Entosthodon kochii</i>	Koch's Cord-moss	Mixed Conifer Forest	G1
<i>Cistanthe pulchella</i>	Mariposa Pussy-paws	Mixed Conifer Forest	G1
<i>Clarkia lingulata</i>	Merced Clarkia	Mixed Conifer Forest	G1
<i>Arctostaphylos nissenana</i>	Nissenan Manzanita	Mixed Conifer Forest	G1
<i>Fremontodendron decumbens</i>	Pine Hill Flannelbush	Mixed Conifer Forest	G1
<i>Boechera pinzliae</i>	Pinz's Rockcress	Mixed Conifer Forest	G1
<i>Cistanthe pygmaea</i>	Pygmy Pussy-paws	Mixed Conifer Forest	G1
<i>Ribes tularense</i>	Sequoia Gooseberry	Mixed Conifer Forest	G1
<i>Streptanthus medeirosii</i>	Tejon Jewelflower	Mixed Conifer Forest	G1
<i>Punctum hannai</i>	Trinity Spot	Mixed Conifer Forest	G1
<i>Astragalus webberi</i>	Webber's Milkvetch	Mixed Conifer Forest	G1
<i>Triteleia piutensis</i>		Mixed Conifer Forest	G1
<i>Carex cyrtostachya</i>	Arching Sedge	Mixed Conifer Forest	G2
<i>Clarkia rostrata</i>	Beaked Clarkia	Mixed Conifer Forest	G2
<i>Gilia yorkii</i>	Boyden Cave Gily-flower	Mixed Conifer Forest	G2

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA SIERRA NEVADA ECOREGION

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Mimulus pictus</i>	Calico Monkeyflower	Mixed Conifer Forest	G2
<i>Carex xerophila</i>	Chaparral Sedge	Mixed Conifer Forest	G2
<i>Lewisia congdonii</i>	Congdon's Lewisia	Mixed Conifer Forest	G2
<i>Lomatium congdonii</i>	Congdon's Lomatium	Mixed Conifer Forest	G2
<i>Trifolium dedeckerae</i>	Dedecker's Clover	Mixed Conifer Forest	G2
<i>Astragalus ertterae</i>	Ertter's Milkvetch	Mixed Conifer Forest	G2
<i>Lupinus padre-crowleyi</i>	Father Crowley's Lupine	Mixed Conifer Forest	G2
<i>Sedum albomarginatum</i>	Feather River Stonecrop	Mixed Conifer Forest	G2
<i>Ericameria gilmanii</i>	Gilman Goldenweed	Mixed Conifer Forest	G2
<i>Arctostaphylos hookeri</i>	Hooker's Manzanita	Mixed Conifer Forest	G2
<i>Tauschia howellii</i>	Howell's Tauschia	Mixed Conifer Forest	G2
<i>Allium jepsonii</i>	Jepson's Onion	Mixed Conifer Forest	G2
<i>Mimulus shevockii</i>	Kelso Creek Monkeyflower	Mixed Conifer Forest	G2
<i>Horkelia tularensis</i>	Kern Plateau Horkelia	Mixed Conifer Forest	G2
<i>Lewisia longipetala</i>	Long-petaled Lewisia	Mixed Conifer Forest	G2
<i>Petrophytum acuminatum</i>	Marble Rockmat	Mixed Conifer Forest	G2
<i>Astragalus monoensis</i>	Mono Milkvetch	Mixed Conifer Forest	G2
<i>Clarkia mosquinii</i>	Mosquin's Clarkia	Mixed Conifer Forest	G2
<i>Iris munzii</i>	Munz's Iris	Mixed Conifer Forest	G2
<i>Lomatium shevockii</i>	Owen's Peak Lomatium	Mixed Conifer Forest	G2
<i>Layia heterotricha</i>	Pale-yellow Layia	Mixed Conifer Forest	G2
<i>Navarretia setiloba</i>	Piute Mountains Navarretia	Mixed Conifer Forest	G2
<i>Lewisia serrata</i>	Saw-toothed Lewisia	Mixed Conifer Forest	G2
<i>Heterotheca monarchensis</i>	Sequoia False Goldenaster	Mixed Conifer Forest	G2
<i>Monardella follettii</i>	Serpentine Mountainbalm	Mixed Conifer Forest	G2
<i>Lupinus spectabilis</i>	Shaggy Hair Lupine	Mixed Conifer Forest	G2
<i>Astragalus shevockii</i>	Shevock's Milkvetch	Mixed Conifer Forest	G2
<i>Erythronium pluriflorum</i>	Shuteye Peak Fawnlily	Mixed Conifer Forest	G2
<i>Mimulus filicaulis</i>	Slenderstem Monkeyflower	Mixed Conifer Forest	G2
<i>Clarkia australis</i>	Small Southern Clarkia	Mixed Conifer Forest	G2
<i>Allium shevockii</i>	Spanish Needle Onion	Mixed Conifer Forest	G2
<i>Lomatium stebbinsii</i>	Stebbins' Lomatium	Mixed Conifer Forest	G2
<i>Monardella stebbinsii</i>	Stebbins' Monardella	Mixed Conifer Forest	G2
<i>Monardella beneolens</i>	Sweet-smelling Monardella	Mixed Conifer Forest	G2
<i>Streptanthus fenestratus</i>	Tehipite Valley Jewelflower	Mixed Conifer Forest	G2
<i>Allium tribracteatum</i>	Three-bract Onion	Mixed Conifer Forest	G2
<i>Githopsis tenella</i>	Tube-flower Bluecup	Mixed Conifer Forest	G2
<i>Cryptantha incana</i>	Tulare Cryptantha	Mixed Conifer Forest	G2
<i>Erythronium tuolumnense</i>	Tuolumne Fawnlily	Mixed Conifer Forest	G2
<i>Eriogonum twisselmannii</i>	Twisselmann's Buckwheat	Mixed Conifer Forest	G2
<i>Lewisia disepala</i>	Yosemite Lewisia	Mixed Conifer Forest	G2

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA SIERRA NEVADA ECOREGION

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Eriophyllum nubigenum</i>	Yosemite Woolly-sunflower	Mixed Conifer Forest	G2
<i>Erythranthe marmorata</i>		Mixed Conifer Forest	G2
<i>Cryptochia denningi</i>	Denning's Cryptic Caddisfly	Riparian/Streams	G1
<i>Orobittacus obscurus</i>	Gold Rush Hanging Fly	Riparian/Streams	G1
<i>Neothremma genella</i>	Golden-horned Caddisfly	Riparian/Streams	G1
<i>Helisoma newberryi</i>	Great Basin Ramshorn	Riparian/Streams	G1
<i>Pyrgulopsis greggi</i>	Kern River Pyrg	Riparian/Streams	G1
<i>Cryptochia excella</i>	Kings Canyon Cryptochian Caddisfly	Riparian/Streams	G1
<i>Batrachoseps relictus</i>	Relictual Slender Salamander	Riparian/Streams	G1
<i>Plebulina emigdionis</i>	San Emigdio Blue	Riparian/Streams	G1
<i>Tetrix sierrana</i>	Sierra Pygmy Grasshopper	Riparian/Streams	G1
<i>Hydroporus simplex</i>	Simple Hydroporus Diving Beetle	Riparian/Streams	G1
<i>Nebria darlingtoni</i>	South Forks Ground Beetle	Riparian/Streams	G1
<i>Rana muscosa</i>	Southern Mountain Yellow-legged Frog	Riparian/Streams	G1
<i>Rhyacophila spinata</i>	Spiny Rhyacophilan Caddisfly	Riparian/Streams	G1
<i>Rorippa subumbellata</i>	Tahoe Yellowcress	Riparian/Streams	G1
<i>Carpenteria californica</i>	Tree Anemone	Riparian/Streams	G1
<i>Monadenia tuolumneana</i>	Tuolumne Sideband	Riparian/Streams	G1
<i>Desmona bethula</i>	Amphibious Caddisfly	Riparian/Streams	G2
<i>Rana draytonii</i>	California Red-legged Frog	Riparian/Streams	G2
<i>Cosumnoperla hypocrena</i>	Cosumnes Stripetail	Riparian/Streams	G2
<i>Erythranthe filicifolia</i>	Fern-leaved Monkeyflower	Riparian/Streams	G2
<i>Collomia rawsoniana</i>	Flaming Trumpet	Riparian/Streams	G2
<i>Batrachoseps simatus</i>	Kern Canyon Slender Salamander	Riparian/Streams	G2
<i>Erigeron multiceps</i>	Kern River Fleabane	Riparian/Streams	G2
<i>Ecclisomyia bilera</i>	King's Creek Ecclisomyian Caddisfly	Riparian/Streams	G2
<i>Batrachoseps regius</i>	Kings River Slender Salamander	Riparian/Streams	G2
<i>Hydromantes brunus</i>	Limestone Salamander	Riparian/Streams	G2
<i>Ivesia sericoleuca</i>	Plumas Ivesia	Riparian/Streams	G2
<i>Rana sierrae</i>	Sierra Nevada Yellow-legged Frog	Riparian/Streams	G2
<i>Charina umbratica</i>	Southern Rubber Boa	Riparian/Streams	G2
<i>Batrachoseps stebbinsi</i>	Tehachapi Slender Salamander	Riparian/Streams	G2
<i>Eryngium pinnatisectum</i>	Tuolumne Coyote-thistle	Riparian/Streams	G2
<i>Pyrgulopsis wongi</i>	Wong's Springsnail	Riparian/Streams	G2
<i>Anaxyrus canorus</i>	Yosemite Toad	Riparian/Streams	G2
<i>Calystegia stebbinsii</i>	Stebbins' Morning-glory	Shrubland/Chaparral	G1
<i>Eriogonum callistum</i>	Tehachapi Buckwheat	Shrubland/Chaparral	G1
<i>Crocantemum suffrutescens</i>	Bisbee Peak Rushrose	Shrubland/Chaparral	G2
<i>Penstemon personatus</i>	Closed-throated Beardtongue	Shrubland/Chaparral	G2
<i>Eriophyllum congdonii</i>	Congdon's Woolly-sunflower	Shrubland/Chaparral	G2

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA SIERRA NEVADA ECOREGION

G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Fritillaria brandegeei</i>	Greenhorn Fritillary	Shrubland/Chaparral	G2
<i>Mimulus norrisii</i>	Kaweah Monkeyflower	Shrubland/Chaparral	G2
<i>Packera layneae</i>	Layne's Butterweed	Shrubland/Chaparral	G2
<i>Lupinus duranii</i>	Mono Lake Lupine	Shrubland/Chaparral	G2
<i>Mimulus gracilipes</i>	Slenderstalk Monkeyflower	Shrubland/Chaparral	G2
<i>Calystegia vanzuukiae</i>	Van Zuuk's False Bindweed	Shrubland/Chaparral	G2
<i>Ivesia webberi</i>	Webber Ivesia	Shrubland/Chaparral	G2
<i>Stygodromus sheldoni</i>	Sheldon Stygodromid	Springs	G1
<i>Stygodromus sierrensis</i>	Sierra Amphipod	Springs	G1
<i>Agrostis hendersonii</i>	Henderson's Bentgrass	Temporary Pools	G2
<i>Mimulus pulchellus</i>	Pansy Monkeyflower	Temporary Pools	G2
<i>Eryngium spinosepalum</i>	Spiny Sepaled Coyote-thistle	Temporary Pools	G2
<i>Juncus digitatus</i>	Finger Rush	Wetland	G1
<i>Sidalcea stipularis</i>	Scadden Flat Checkerbloom	Wetland	G1
<i>Carex tiogana</i>	Tioga Pass Sedge	Wetland	G1
<i>Cinna bolanderi</i>	Bolander's Woodreed	Wetland	G2

*Species links provided when available

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA

SONORAN BASIN & RANGE ECOREGION

G1 and G2 Species Habitat Management Guidelines



INTRODUCTION

The Sustainable Forestry Initiative® (SFI) [2022 Standards](#) include requirements that promote and conserve Forests with Exceptional Conservation Value (FECV), which includes critically imperiled (G1) and imperiled (G2) species. This fact sheet summarizes the analysis of FECV habitat within this ecoregion and provides habitat management recommendations that would benefit species potentially found here.

HABITAT TYPES

- Grassland
- Mixed Conifer Forest
- Riparian/Streams/Wetlands
- Shrubland/Chaparral
- Special Sites (Bare Rock/Talus, Desert, Dunes)

GRASSLAND MANAGEMENT

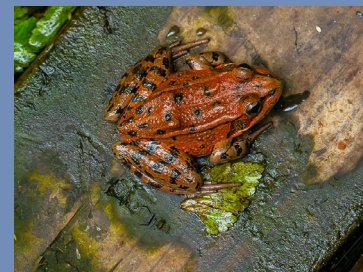
- Protect known locations
- Buffer grassland areas

MIXED CONIFER FOREST MANAGEMENT

- Protect known locations
- Retain legacy trees, stumps, and logs
- Retain large diameter trees with cavities or broken tops
- Leave skips and gaps with dense shrub component
- Retain large slash into piles

RIPARIAN/STREAMS/WETLANDS MANAGEMENT

- Protect known locations
- Maintain well vegetated riparian buffers
- Plant a diversity of both hardwood and conifer trees
- Retain large diameter trees near streams, rivers and wetlands
- Buffer wetlands, springs, and headwater areas



California Reg-legged Frog



California Condor



Desert Pupfish

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA

SONORAN BASIN & RANGE ECOREGION

G1 and G2 Species Habitat Management Guidelines

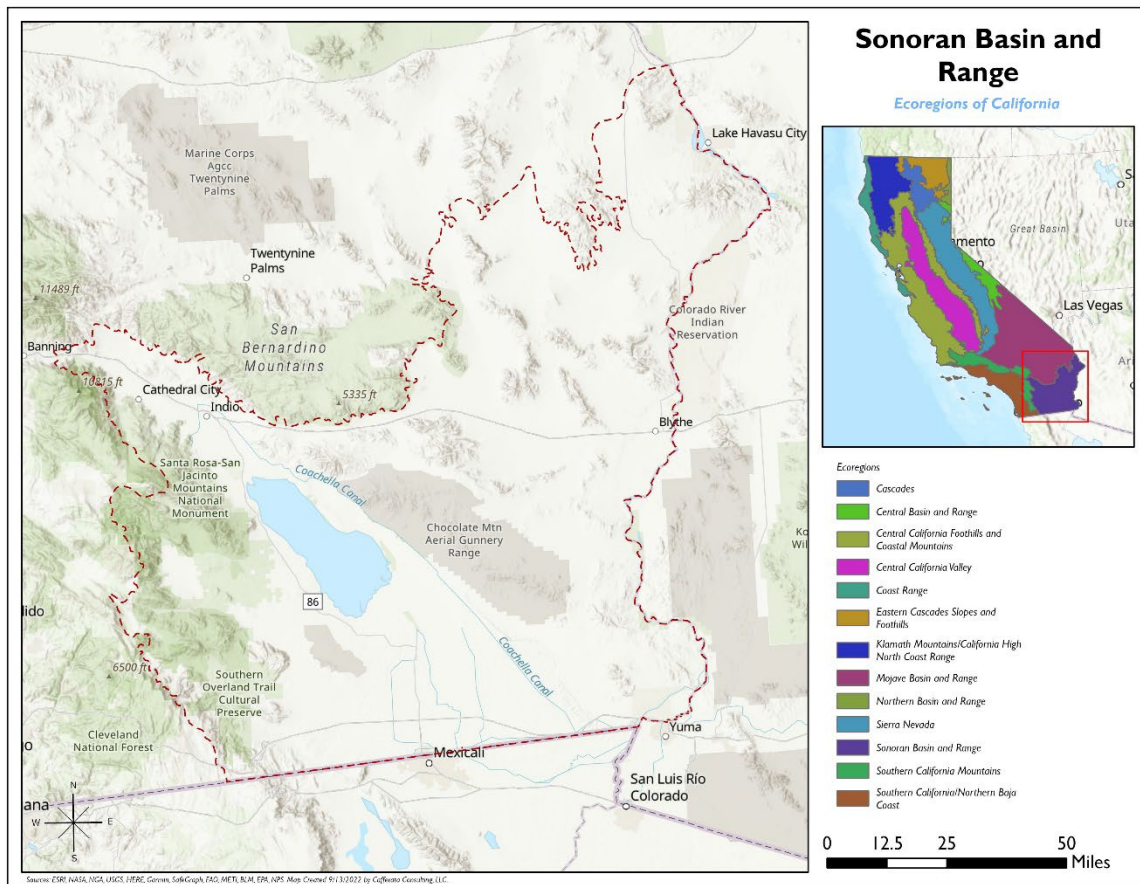


SHRUBLAND/CHAPARRAL MANAGEMENT

- Protect known locations
- Buffer shrubland and chaparral areas

SPECIAL SITES MANAGEMENT

- Protect known locations
- Maintain and buffer special sites



All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

CALIFORNIA SONORAN BASIN & RANGE Ecoregion G1 and G2 Species Habitat Management Guidelines



SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Spermolepis infernensis</i>		Bare Rock/Talus	G1
<i>Berberis harrisoniana</i>	Kofa Barberry	Desert	G2
<i>Euparagia unidentata</i>	a wasp	Dunes	G1
<i>Bombus crotchii</i>	Crotch's Bumble Bee	Grassland	G2
<i>Symphyotrichum defoliatum</i>	San Bernardino Aster	Grassland	G2
<i>Gymnogyps californianus</i>	California Condor	Mixed Conifer Forest	G1
<i>Astragalus oocarpus</i>	San Diego Milkvetch	Mixed Conifer Forest	G2
<i>Marina orcuttii</i>	Sonoran Desert Marina	Mixed Conifer Forest	G2
<i>Draba corrugata</i>	Southern California Whitlow-grass	Mixed Conifer Forest	G2
<i>Gila elegans</i>	Bonytail	Riparian/Streams	G1
<i>Ptychocheilus lucius</i>	Colorado Pikeminnow	Riparian/Streams	G1
<i>Rorippa gambelii</i>	Gambel's Watercress	Riparian/Streams	G1
<i>Trichinorhipis knulli</i>	Knull's Metallic Wood-boring Beetle	Riparian/Streams	G1
<i>Xyrauchen texanus</i>	Razorback Sucker	Riparian/Streams	G1
<i>Rana muscosa</i>	Southern Mountain Yellow-legged Frog	Riparian/Streams	G1
<i>Rana draytonii</i>	California Red-legged Frog	Riparian/Streams	G2
<i>Hemizonia floribunda</i>	Tecate Tarweed	Riparian/Streams	G2
<i>Spea hammondi</i>	Western Spadefoot	Riparian/Streams	G2
<i>Tharsalea hermes</i>	Hermes Copper	Shrubland/Chaparral	G1
<i>Atriplex parishii</i>	Parish's Saltbush	Shrubland/Chaparral	G1
<i>Linanthus bellus</i>	Desert Beauty	Shrubland/Chaparral	G2
<i>Cyprinodon macularius</i>	Desert Pupfish	Wetland	G1

*Species links provided when available

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

SOUTHERN CALIFORNIA MOUNTAINS ECOREGION

G1 and G2 Species Habitat Management Guidelines



INTRODUCTION

The Sustainable Forestry Initiative® (SFI) [2022 Standards](#) include requirements that promote and conserve Forests with Exceptional Conservation Value (FECV), which includes critically imperiled (G1) and imperiled (G2) species. This fact sheet summarizes the analysis of FECV habitat within this ecoregion and provides habitat management recommendations that would benefit species potentially found here.

HABITAT TYPES

- Mixed Conifer Forest
- Riparian/Streams/Wetlands
- Shrubland/Chaparral
- Special Sites (Bare Rock/Talus, Barrens, Cliff, Forest Edge, Grassland, Springs, Temporary Pool, Wet Meadow)

MIXED CONIFER FOREST MANAGEMENT

- Protect known locations
- Retain legacy trees, stumps, and logs
- Retain large diameter trees with cavities or broken tops
- Leave skips and gaps with dense shrub component
- Retain large slash into piles

RIPARIAN/STREAMS/WETLANDS MANAGEMENT

- Protect known locations
- Maintain well vegetated riparian buffers
- Plant a diversity of both hardwood and conifer trees
- Retain large diameter trees near streams, rivers and wetlands
- Buffer wetlands, springs, and headwater areas

SHRUBLAND/CHAPARRAL MANAGEMENT

- Protect known locations
- Buffer shrubland and chaparral areas

SPECIAL SITES MANAGEMENT

- Protect known locations
- Maintain and buffer special sites
- Protect known locations



Dunn's Mariposa Lily



Arroyo Toad



Tehachapi Slender Salamander

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

SOUTHERN CALIFORNIA MOUNTAINS ECOREGION



G1 and G2 Species Habitat Management Guidelines

SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Haplodontium tehamense</i>	Lassen Peak Copper Moss	Bare Rock/Talus	G2
<i>Potentilla rimicola</i>	Cliff Cinquefoil	Bare Rock/Talus	G2
<i>Phlox dolichantha</i>	Bear Valley Phlox	Barrens	G2
<i>Astragalus leucolobus</i>	Big Bear Valley Woollypod	Barrens	G2
<i>Salvia brandegeei</i>	Brandegee's Sage	Cliff	G2
<i>Taraxacum californicum</i>	California Dandelion	Forest Edge	G1
<i>Bombus crotchii</i>	Crotch's Bumble Bee	Grassland	G2
<i>Symphyotrichum defoliatum</i>	San Bernardino Aster	Grassland	G2
<i>Eriogonum evanidum</i>	a buckwheat	Mixed Conifer Forest	G1
<i>Linanthus killipii</i>	Baldwin Lake Linanthus	Mixed Conifer Forest	G1
<i>Horkelia wilderae</i>	Barton Flats Horkelia	Mixed Conifer Forest	G1
<i>Eremogone ursina</i>	Bear Valley Sandwort	Mixed Conifer Forest	G1
<i>Gymnogyps californianus</i>	California Condor	Mixed Conifer Forest	G1
<i>Streptanthus juneae</i>	June's Jewelflower	Mixed Conifer Forest	G1
<i>Stylocline masonii</i>	Mason's Neststraw	Mixed Conifer Forest	G1
<i>Arctostaphylos otayensis</i>	Otay Manzanita	Mixed Conifer Forest	G1
<i>Cistanthe pygmaea</i>	Pygmy Pussy-paws	Mixed Conifer Forest	G1
<i>Galium grande</i>	San Gabriel Bedstraw	Mixed Conifer Forest	G1
<i>Rothelix warnerfontis</i>	Warner Springs Shoulderband	Mixed Conifer Forest	G1
<i>Chorizanthe blakleyi</i>	Blake's Spineflower	Mixed Conifer Forest	G2
<i>Calochortus dunnii</i>	Dunn's Mariposa Lily	Mixed Conifer Forest	G2
<i>Symphyotrichum greatae</i>	Greata's Aster	Mixed Conifer Forest	G2
<i>Camissonia hardhamiae</i>	Hardham's Evening-primrose	Mixed Conifer Forest	G2
<i>Mimulus purpureus</i>	Little Purple Monkeyflower	Mixed Conifer Forest	G2
<i>Castilleja gleasoni</i>	Mt. Gleason paintbrush	Mixed Conifer Forest	G2
<i>Layia heterotricha</i>	Pale-yellow Layia	Mixed Conifer Forest	G2
<i>Erigeron parishii</i>	Parish's Daisy	Mixed Conifer Forest	G2
<i>Boechera parishii</i>	Parish's Rockcross	Mixed Conifer Forest	G2
<i>Navarretia setiloba</i>	Piute Mountains Navarretia	Mixed Conifer Forest	G2
<i>Castilleja lasiorhyncha</i>	San Bernardino Owl's-clover	Mixed Conifer Forest	G2
<i>Ceanothus cyaneus</i>	San Diego Ceanothus	Mixed Conifer Forest	G2
<i>Astragalus oocarpus</i>	San Diego Milkvetch	Mixed Conifer Forest	G2
<i>Glyptostoma gabrielse</i>	San Gabriel Chestnut	Mixed Conifer Forest	G2
<i>Linanthus concinnus</i>	San Gabriel Linanthus	Mixed Conifer Forest	G2
<i>Batrachoseps gabrieli</i>	San Gabriel Slender Salamander	Mixed Conifer Forest	G2
<i>Leptodactylon jaegeri</i>	San Jacinto Prickly-phlox	Mixed Conifer Forest	G2
<i>Calochortus simulans</i>	San Luis Obispo Mariposa Lily	Mixed Conifer Forest	G2
<i>Ivesia argyrocoma</i>	Silver-haired Ivesia	Mixed Conifer Forest	G2
<i>Marina orcuttii</i>	Sonoran Desert Marina	Mixed Conifer Forest	G2

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

SOUTHERN CALIFORNIA MOUNTAINS ECOREGION



G1 and G2 Species Habitat Management Guidelines

SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Draba corrugata</i>	Southern California Whitlow-grass	Mixed Conifer Forest	G2
<i>Cupressus forbesii</i>	Tecate Cypress	Mixed Conifer Forest	G2
<i>Thysanocarpus rigidus</i>		Mixed Conifer Forest	G2
<i>Pyrgulopsis greggi</i>	Kern River Pyrg	Riparian/Streams	G1
<i>Batrachoseps relictus</i>	Relictual Slender Salamander	Riparian/Streams	G1
<i>Plebulina emigdionis</i>	San Emigdio Blue	Riparian/Streams	G1
<i>Catostomus santaanae</i>	Santa Ana Sucker	Riparian/Streams	G1
<i>Hydroporus simplex</i>	Simple Hydroporus Diving Beetle	Riparian/Streams	G1
<i>Rana muscosa</i>	Southern Mountain Yellow-legged Frog	Riparian/Streams	G1
<i>Gila orcuttii</i>	Arroyo Chub	Riparian/Streams	G2
<i>Anaxyrus californicus</i>	Arroyo Toad	Riparian/Streams	G2
<i>Rana draytonii</i>	California Red-legged Frog	Riparian/Streams	G2
<i>Malacothamnus davidsonii</i>	Davidson's Bushmallow	Riparian/Streams	G2
<i>Heuchera brevistaminea</i>	Laguna Heuchera	Riparian/Streams	G2
<i>Mimulus exiguus</i>	San Bernardino Mountain Monkeyflower	Riparian/Streams	G2
<i>Dudleya densiflora</i>	San Gabriel Mountains Dudleya	Riparian/Streams	G2
<i>Clinopodium chandleri</i>	San Miguel Savory	Riparian/Streams	G2
<i>Hemizonia floribunda</i>	Tecate Tarweed	Riparian/Streams	G2
<i>Batrachoseps stebbinsi</i>	Tehachapi Slender Salamander	Riparian/Streams	G2
<i>Drymocallis cuneifolia</i>	Wedgeleaf Drymocallis	Riparian/Streams	G2
<i>Spea hammondii</i>	Western Spadefoot	Riparian/Streams	G2
<i>Castilleja cinerea</i>	Ash Grey Indian-paintbrush	Shrubland/Chaparral	G1
<i>Thermopsis macrophylla</i>	California Golden-banner	Shrubland/Chaparral	G1
<i>Orcuttia californica</i>	California Orcutt Grass	Shrubland/Chaparral	G1
<i>Astragalus albens</i>	Cushenbury Milkvetch	Shrubland/Chaparral	G1
<i>Psychomastax deserticola</i>	Desert Monkey Grasshopper	Shrubland/Chaparral	G1
<i>Tharsalea hermes</i>	Hermes Copper	Shrubland/Chaparral	G1
<i>Berberis nevinii</i>	Nevin's Barberry	Shrubland/Chaparral	G1
<i>Atriplex parishii</i>	Parish's Saltbush	Shrubland/Chaparral	G1
<i>Linanthus bernardinus</i>	Pioneertown Linanthus	Shrubland/Chaparral	G1
<i>Lepechinia rossii</i>	Ross' Pitcher Sage	Shrubland/Chaparral	G1
<i>Ceanothus ophiochilus</i>	Vail Lake Ceanothus	Shrubland/Chaparral	G1
<i>Astragalus brauntonii</i>	Braunton's Milkvetch	Shrubland/Chaparral	G2
<i>Sidalcea hickmanii</i>	Chaparral Checkerbloom	Shrubland/Chaparral	G2
<i>Linanthus bellus</i>	Desert Beauty	Shrubland/Chaparral	G2
<i>Packera ganderi</i>	Gander's Ragwort	Shrubland/Chaparral	G2
<i>Ribes canthariforme</i>	Moreno Currant	Shrubland/Chaparral	G2
<i>Arctostaphylos rainbowensis</i>	Rainbow Manzanita	Shrubland/Chaparral	G2

All management recommendations assume that operators and land managers are following all applicable BMPs, laws, and regulations.

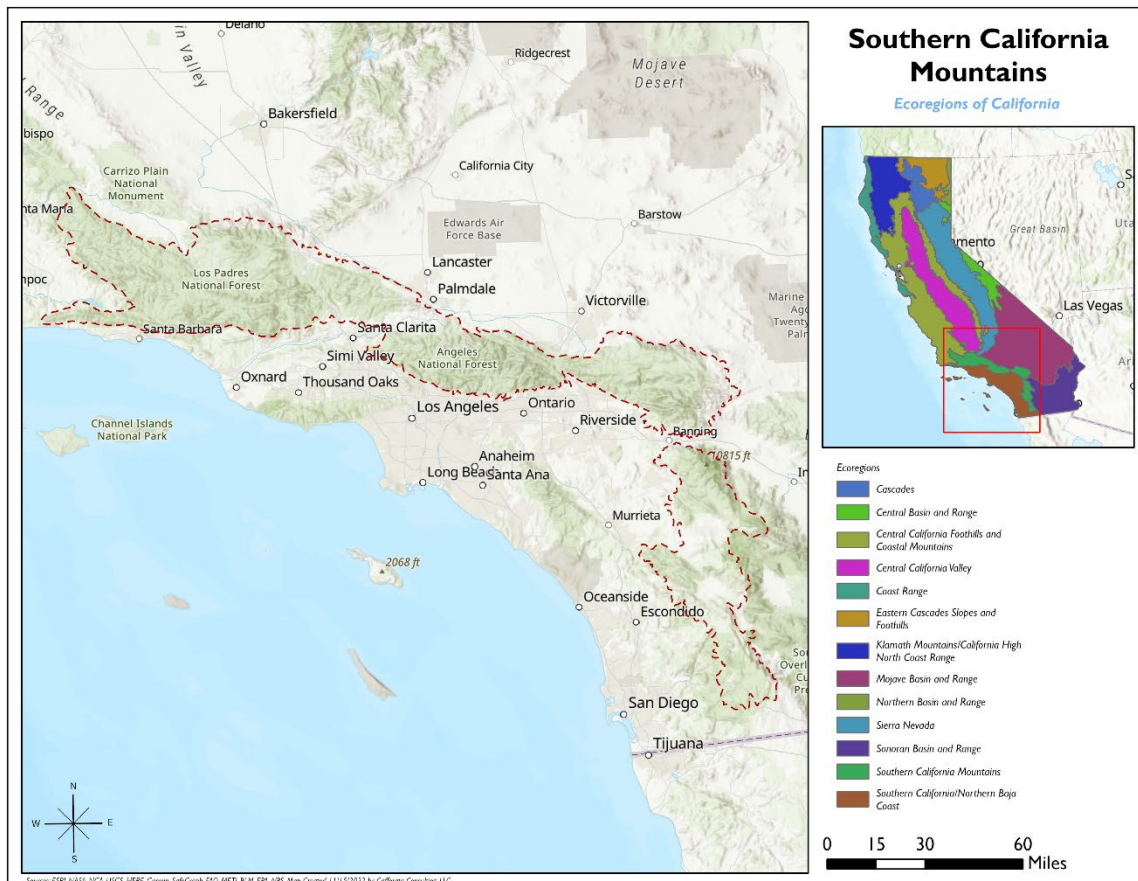
SOUTHERN CALIFORNIA MOUNTAINS Ecoregion



G1 and G2 Species Habitat Management Guidelines

SCIENTIFIC NAME	COMMON NAME	HABITAT	STATUS
<i>Perognathus alticola</i>	White-eared Pocket Mouse	Shrubland/Chaparral	G2
<i>Stygobromus rudolphi</i>	Rudolph's Amphipod	Springs	G1
<i>Branchinecta conservatio</i>	Conservancy Fairy Shrimp	Temporary Pools	G2
<i>Brodiaea orcuttii</i>	Orcutt's Brodiaea	Temporary Pools	G2
<i>Poa atropurpurea</i>	San Bernardino Bluegrass	Wet Meadow	G2
<i>Diplectrona californica</i>	California Diplectronan Caddisfly	Wetland	G1
<i>Layia munzii</i>	Munz's Tidy-tips	Wetland	G2
<i>Packera bernardina</i>	San Bernardino Butterweed	Wetland	G2

*Species links provided when available



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