

2.0 Plan Area Description and Setting



aquilinum), polypody fern (*Polypodium californicum*), fiesta flower (*Pholistorma auritum*) and miner's lettuce (*Claytonia perfoliata*) (Holland and Keil 1995, Sawyer and Keeler-Wolf 1995, Thorne 1976, Brown 1982). Munz and Keck (1968) identify similar species for this Vegetation Community and include that a variety of grasses and soft shrubs also are commonly found. This Vegetation Community can occur on all aspects, on stream sides, canyon bottoms and flat to very steep topography. Woodlands and forests are known to occur throughout the Plan Area.

DEVELOPED OR DISTURBED LAND. Approximately 218,260 acres (17.3%) of developed or disturbed lands occur within the Plan Area. Developed or disturbed lands consist of areas that have been disced, cleared, or otherwise altered. Developed lands may include roadways, existing buildings, and structures. The largest areas of developed land are in the Cities (and surrounding unincorporated communities) of Temecula, Murrieta, Lake Elsinore, Canyon Lake, (Meadowbrook, Alberhill, El Cariso and Lakeland Village), Hemet (East Hemet and Valle Vista), in Moreno Valley, and along the SR-91 corridor from Riverside through Corona and Norco. More medium-sized tracts of developed land are located in the communities of Canyon Lake, (Quail Valley, Sun City, Homeland), in Perris along I-215, (Mead Valley, Gavilan Hills, Woodcrest), Beaumont, Banning, (Cherry Valley), and Calimesa. Small and scattered occurrences include in the southeast portion of the Plan Area along SR-371 in the unincorporated communities of Terwilliger Valley, Sage, Aguanga and Anza, east of the city of Temecula, and in (Sedco Hills). Disturbed lands may include ornamental plantings for landscaping, escaped exotics, or ruderal vegetation dominated by non-native, weedy species such as mustard (*Brassica* sp.), fennel (*Foeniculum vulgare*), tocalote (*Centaurea melitensis*), and Russian thistle (*Salsola tragus*).

UNKNOWN. Approximately 1,350 acres within the Plan Area were not classified into a Vegetation Community during the 1995 PSBS and KTU+A mapping effort.

2.1.4 Species Considered for Conservation in the MSHCP

The species considered for Conservation during the MSHCP planning process are summarized in *Table 2-2*. As shown in *Table 2-2*, the initial list of species considered for Conservation included 247 species identified for consideration by the MSHCP Advisory Committee in collaboration with the Wildlife Agencies. Early in the planning process, it was determined that sufficient information was not available for many of these species to proceed with Conservation planning. The initial list of 247 species was reduced to 165 species as part of the *August 9, 1999 Draft MSHCP Proposal*

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prepared by DUDEK. The list was further refined to 146 species as the MSHCP planning process proceeded and information needed to proceed with Conservation planning could not be obtained for certain species. Several species were added to the list during this process as suggested by stakeholders such as the Wildlife Agencies and the California Native Plant Society (CNPS). Species added included great blue heron, Dulzura kangaroo rat, Aguanga kangaroo rat, and six plant species.

Of the 146 Covered Species addressed in the MSHCP, 130 species are considered to be adequately conserved. The remaining 16 Covered Species will be considered to be adequately conserved when certain conservation requirements are met as identified in the species-specific conservation objectives for those species (species-specific conservation objectives for the 146 Covered Species are presented in *Section 9.0* of this document). These 16 species are identified with the superscript (e) in the far right column of *Table 2-2*. Superscripts (a) through (d) in the far right column of *Table 2-2* indicate Covered Species adequately conserved for which surveys may be required. Specific survey requirements are included in the species-specific conservation objectives presented in *Section 9.0* of this document and in *Sections 6.1.2, 6.1.3, and 6.3.2* of this document. A complete summary of MSHCP species survey requirements is provided in *Appendix E* to this document.

**TABLE 2-2
SPECIES CONSIDERED FOR CONSERVATION
UNDER THE MSHCP SINCE 1999**

Species Name	Listing Status State/ Federal {1}	Species Initially Considered for Conservation (3/99 - FWS Tables 1&2) {2} (247 species)	Species Considered for Conservation in "August 9, 1999 Draft MSHCP Proposal" {3} (165 species)	Species Considered for Conservation in "March 7, 2002 Admin Draft MSHCP Plan" {4} (142 species)	MSHCP Covered Species Adequately Conserved- {5} (146 species)
INVERTEBRATES/CRUSTACEANS					
Riverside fairy shrimp <i>Streptocephalus woottoni</i>	-/FE	✓	✓	✓	✓ (a)
Santa Rosa Plateau fairy shrimp <i>Linderiella santarosae</i>	- / -	✓	✓	✓	✓ (a)
vernal pool fairy shrimp <i>Branchinecta lynchi</i>	-/FT	✓	✓	✓	✓ (a)
INVERTEBRATES/INSECTS					
Delhi Sands flower-loving fly <i>Rhaphiomidas terminatus abdominalis</i>	-/FE	✓	✓	✓	✓

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TABLE 2-2 (Cont.)
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Electra silkmoth <i>Hemileuca electra electra</i>	- / -	✓			
Frost's tiger beetle <i>Cicindela senilis frosti</i>	- / -	✓			
Greenest tiger beetle <i>Cicindela tranquebanca viridissima</i>	- / -	✓			
Harbisons dun skipper <i>Euphyes vestris harbisoni</i>	- / -	✓			
Quino checkerspot butterfly <i>Euphydryas editha quino</i>	-/FE	✓	✓	✓	✓
Ruth's cuckoo bee <i>Holcopasites ruthae</i>	- / -	✓			
San Jacinto blue butterfly <i>Euphilotes enoptes cryptorufes</i>	- / -	✓			
Simple hydroporus diving beetle <i>Hydroporus simplex</i>	- / -	✓			
FISH					
arroyo chub <i>Gila orcutti</i>	SSC/-	✓	✓	✓	✓
Santa Ana sucker <i>Catostomus santaanae</i>	SSC/FT	✓	✓	✓	✓
speckled dace <i>Rhinichthys osculus</i>	- / -	✓	✓		
AMPHIBIANS					
arroyo toad <i>Bufo californicus</i>	SSC/FE	✓	✓	✓	✓ (c)
California red-legged frog <i>Rana aurora draytonii</i>	SSC/FT	✓	✓	✓	✓ (c)
coast range newt <i>Taricha tarosa tarosa</i>	SSC/-	✓	✓	✓	✓
large-blotched salamander <i>Ensatina escholtzii klauberi</i>	SSC/-	✓	✓		
mountain yellow-legged frog <i>Rana mucosa</i>	SP, SSC/FE	✓	✓	✓	✓ (c)

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western spadefoot <i>Scaphiopus hammondi</i>	SSC/-	✓	✓	✓	✓
REPTILES					
Belding's orange-throated whiptail <i>Cnemidophorus hyperythrus beldingi</i>	SSC/-	✓	✓	✓	✓
California legless lizard <i>Anniella pulchra pulchra</i>	SSC/FSC	✓	✓		
California red-sided garter snake <i>Thamnophis sirtalis infernalis</i>	-/-	✓	✓		
coast patch-nosed snake <i>Salvadora hexalepis virgulata</i>	SSC/-	✓	✓		
coastal glossy snake <i>Arizona elegans occidentalis</i>	-/-	✓	✓		
coastal rosy boa <i>Lichanura trivirgata roseofusca</i>	-/-	✓	✓		
coastal western whiptail <i>Cnemidophorus tigris multiscutatus</i>	-/-	✓	✓	✓	✓
granite night lizard <i>Xantusia henshawi henshawi</i>	-/-	✓	✓	✓	✓
granite spiny lizard <i>Sceloporus orcutti</i>	-/-	✓	✓	✓	✓
long-nosed leopard lizard <i>Gambelia wislizenii</i>	-/-	✓	✓		
northern red-diamond rattlesnake <i>Crotalus ruber ruber</i>	SSC/-	✓	✓	✓	✓
San Bernardino mountain kingsnake <i>Lampropeltis zonata parvirubra</i>	SSC/-	✓	✓	✓	✓
San Bernardino ringneck snake <i>Diadophis punctatus modestus</i>	-/-	✓	✓		
San Diego banded gecko <i>Coleonyx variegatus abbottii</i>	-/-	✓	✓	✓	✓
San Diego horned lizard <i>Phrynosoma coronatum blainvillei</i>	SSC/-	✓	✓	✓	✓

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TABLE 2-2 (Cont.)
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San Diego mountain kingsnake <i>Lampropeltis zonata pulchra</i>	SSC/-	✓	✓	✓	✓
San Diego ringneck snake <i>Diadophis punctatus similis</i>	- / -	✓	✓		
southern rubber boa <i>Charina bottae umbratica</i>	ST/-	✓	✓	✓	✓
southern sagebrush lizard <i>Sceloporus graciosus vandenburgianus</i>	- / -	✓	✓	✓	✓
two-striped garter snake <i>Thamnophis hammondi</i>	SSC/-	✓	✓		
western pond turtle <i>Clemmys marmorata pallida</i>	SSC/-	✓	✓	✓	✓
BIRDS					
American bittern <i>Botaurus lentiginosus</i>	- /FSC	✓	✓	✓	✓
bald eagle <i>Haliaeetus leucocephalus</i>	SP, SE/FT	✓	✓	✓	✓
Bell's sage sparrow <i>Amphispiza belli belli</i>	SSC/FSC	✓	✓	✓	✓
black swift (breeding) <i>Cypseloides niger</i>	SSC/FSC	✓	✓	✓	✓
black-crowned night heron <i>Nycticorax nycticorax</i>	- / -	✓	✓	✓	✓
burrowing owl <i>Athene cunicularia hypugaea</i>	SSC/FSC	✓	✓	✓	✓ (c)
cactus wren <i>Campylorhynchus brunneicapillus</i>	SSC/-	✓	✓	✓	✓
California black rail <i>Laterallus jamaicensis</i>	SP, ST/FSC	✓			
California horned lark <i>Eremophila alpestris actia</i>	SSC/-	✓	✓	✓	✓
California spotted owl <i>Strix occidentalis occidentalis</i>	SSC/FSC	✓	✓	✓	✓

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coastal California gnatcatcher <i>Polioptila californica californica</i>	SSC/FT	✓	✓	✓	✓
Cooper's hawk <i>Accipiter cooperii</i>	SSC/-	✓	✓	✓	✓
double-crested cormorant <i>Phalacrocorax auritus</i>	SSC/-	✓	✓	✓	✓
downy woodpecker <i>Picoides pubescens</i>	- / -	✓	✓	✓	✓
ferruginous hawk <i>Buteo regalis</i>	SSC/FSC	✓	✓	✓	✓
flammulated owl <i>Otus flammeolus</i>	- / -	✓	✓		
golden eagle <i>Aquila chrysaetos</i>	SP, SSC/-	✓	✓	✓	✓
grasshopper sparrow <i>Ammodramus savannarum</i>	- / -	✓	✓	✓	✓ (e)
great blue heron <i>Ardea herodias</i>	- / -			✓	✓
greater sandhill crane <i>Grus canadensis tabida</i>	SP, ST/-	✓			
Le Conte's thrasher <i>Toxostoma lecontei</i>	SSC/FSC	✓	✓		
least Bell's vireo <i>Vireo bellii pusillus</i>	SE/FE	✓	✓	✓	✓ (a)
Lincoln's sparrow (breeding) <i>Melospiza lincolnii</i>	- / -	✓	✓	✓	✓ (e)
loggerhead shrike <i>Lanius ludovicianus</i>	SSC/FSC	✓	✓	✓	✓
long-eared owl (breeding) <i>Asio otus</i>	SSC/-	✓	✓		
Macgillivray's warbler <i>Oporornis tolmiei</i>	- / -	✓	✓	✓	✓

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merlin <i>Falco columbarius</i>	SSC/-	✓	✓	✓	✓
mountain plover (wintering) <i>Charadrius montanus</i>	SSC/PT	✓	✓	✓	✓
mountain quail <i>Oreortyx pictus</i>	- / -	✓	✓	✓	✓
Nashville warbler <i>Vermivora ruficapilla</i>	- / -	✓	✓	✓	✓
northern goshawk <i>Accipiter gentilis</i>	SSC/FSC	✓	✓	✓	✓
northern harrier (breeding) <i>Circus cyaneus</i>	SSC/-	✓	✓	✓	✓
northern pygmy owl <i>Glaucidium gnoma</i>	- / -	✓			
osprey <i>Pandion haliaetus</i>	SSC/-	✓	✓	✓	✓
peregrine falcon <i>Falco peregrinus</i>	SP, SE/ delisted	✓	✓	✓	✓
prairie falcon (breeding) <i>Falco mexicanus</i>	SSC/-	✓	✓	✓	✓
purple martin <i>Progne subis</i>	SSC/-	✓	✓	✓	✓
sharp-shinned hawk <i>Accipiter striatus</i>	SSC/-	✓	✓	✓	✓
short-eared owl (breeding) <i>Asio flammeus</i>	SSC/-	✓	✓		
So. California rufous-crowned sparrow <i>Aimophila ruficeps canescens</i>	SSC/-	✓	✓	✓	✓
southwestern willow flycatcher <i>Empidonax traillii extimus</i>	SE/FE	✓	✓	✓	✓ (a)
Swainson's hawk <i>Buteo swainsoni</i>	ST/FSC	✓	✓	✓	✓

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TABLE 2-2 (Cont.)
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Swainson's thrush (breeding) <i>Catharus ustulatus</i>	- / -	✓	✓		
tree swallow <i>Tachycineta bicolor</i>	- / -	✓	✓	✓	✓
tricolored blackbird (colony) <i>Agelaius tricolor</i>	SSC/FSC	✓	✓	✓	✓
turkey vulture (breeding) <i>Cathartes aura</i>	- / -	✓	✓	✓	✓
Vaux's swift <i>Chaetura vauxi</i>	SSC/FSC	✓	✓		
western least bittern <i>Ixobrychus exilis hesperis</i>	SSC/-	✓	✓		
western snowy plover <i>Charadrius alexandrinus nivosus</i>	SSC/FT	✓	✓		
western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	SE/-	✓	✓	✓	✓ (a)
white-faced ibis <i>Plegadis chihi</i>	SSC/FSC	✓	✓	✓	✓
white-tailed kite <i>Elanus leucurus</i>	SP/FSC	✓	✓	✓	✓
Williamson's sapsucker <i>Sphyrapicus thyroideus</i>	- / -	✓	✓	✓	✓
Wilson's warbler <i>Wilsonia pusilla</i>	- / -	✓	✓	✓	✓
yellow warbler <i>Dendroica petechia brewsteri</i>	SSC/-	✓	✓	✓	✓
yellow-breasted chat <i>Icteria virens</i>	SSC/-	✓	✓	✓	✓
MAMMALS					
Aguanga kangaroo rat <i>Dipodomys merriami collinus</i>	- / -	✓		✓	✓ (c)
American badger <i>Taxidea taxus</i>	SSC/-	✓			

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big free tailed bat <i>Nyctinomops macrotis</i>	SSC/-	✓			
bobcat <i>Lynx rufus</i>	- / -	✓	✓	✓	✓
brush rabbit <i>Sylvilagus bachmani</i>	- / -	✓	✓	✓	✓
California leaf-nosed bat <i>Macrotus californicus</i>	SSC/-	✓			
California mastiff bat <i>Eumops perotis californicus</i>	SSC/FSC	✓			
coyote <i>Canis latrans</i>	- / -	✓	✓	✓	✓
Dulzura California pocket mouse <i>Chaetodipus californicus femoralis</i>	SSC/-	✓	✓		
Dulzura kangaroo rat <i>Dipodomys simulans</i>	- / -			✓	✓
fringed myotis <i>Myotis thysanodes</i>	- /FSC	✓			
long-eared myotis <i>Myotis evotis</i>	- /FSC	✓			
long-legged myotis <i>Myotis volans</i>	- /FSC	✓			
long-tailed weasel <i>Mustela frenata</i>	- / -	✓	✓	✓	✓
Los Angeles pocket mouse <i>Perognathus longimembris brevinasus</i>	SSC/-	✓		✓	✓ (c)
Mexican long-tongued bat <i>Choeronycteris mexicana</i>	SSC/-	✓			
mountain lion <i>Puma concolor</i>	- / -	✓	✓	✓	✓
Nelson's bighorn sheep <i>Ovis canadensis nelsoni</i>	- / -	✓			

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**TABLE 2-2 (Cont.)
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northwestern San Diego pocket mouse <i>Chaetodipus fallax fallax</i>	SSC/-	✓	✓	✓	✓
pale big-eared bat <i>Pleocotus townsendii pallescens</i>	SSC/FSC	✓			
pallid bat <i>Antrozous pallidus</i>	SSC/-	✓			
peninsular bighorn sheep <i>Ovis canadensis cremnobates</i>	SP, SE/FE	✓			
pocketed free-tailed bat <i>Nyctinomops femorosaccus</i>	SSC/-	✓			
ringtail <i>Bassariscus astutus</i>	- / -	✓			
San Bernardino flying squirrel <i>Glaucomys sabrinus californicus</i>	SSC/-	✓	✓	✓	✓ (e)
San Bernardino kangaroo rat <i>Dipodomys merriami parvus</i>	SSC/FE	✓		✓	✓ (c)
San Diego black-tailed jackrabbit <i>Lepus californicus bennettii</i>	SSC/-	✓	✓	✓	✓
San Diego desert woodrat <i>Neotoma lepida intermedia</i>	SSC/-	✓	✓	✓	✓
southern grasshopper mouse <i>Onychomys torridus ramona</i>	SSC/FSC	✓			
southern yellow bat <i>Lasiurus ega</i>	- / -	✓			
spotted bat <i>Euderma maculatum</i>	SSC/FSC	✓			
Stephens' kangaroo rat <i>Dipodomys stephensi</i>	ST/FE	✓	✓	✓	✓
western big-eared bat <i>Pleocotus townsendii townsendii</i>	SSC/FSC	✓			
western small-footed myotis <i>Myotis ciliolabrum</i>	- /FSC	✓			

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PLANTS					
Adder's mouth <i>Malaxis monophyllos</i> ssp. <i>brachypoda</i>	- / -	✓			
Ayenia <i>Ayenia compacta</i>	- / -	✓			
beautiful hulsea <i>Hulsea vestita</i> ssp. <i>callicarpa</i>	- / -	✓	✓	✓	✓ (e)
Big Bear Valley woollypod <i>Astragalus leucolobus</i>	- / -	✓			
bluish spike moss <i>Selaginella asprella</i>	- / -	✓	✓		
Brand's phacelia <i>Phacelia stellaris</i>	- / -				✓ (b)
Braunton's milk-vetch <i>Astragalus brauntonii</i>	- / FE	✓			
California beardtongue <i>Penstemon californicus</i>	- / -	✓	✓	✓	✓
California bedstraw <i>Galium californicum</i> ssp. <i>primum</i>	- / -	✓	✓	✓	✓
California black walnut <i>Juglans californica</i> var. <i>californica</i>	- / -	✓	✓	✓	✓
California muhly <i>Muhlenbergia californica</i>	- / -	✓	✓	✓	✓ (e)
California Orcutt grass <i>Orcuttia californica</i>	SE/FE	✓	✓	✓	✓ (b)
California spine-flower <i>Mucronea californica</i>	- / -	✓	✓	✓	
Caraway-leaved gilia <i>Gilia caruifolia</i>	- / -	✓			
chickweed oxytheca <i>Oxytheca caryophylloides</i>	- / -	✓	✓	✓	✓ (e)
chocolate lily <i>Fritillaria biflora</i>	- / -	✓	✓		

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Cleveland's bush monkeyflower <i>Mimulus clevelandii</i>	- / -	✓	✓	✓	✓
cliff cinquefoil <i>Potentilla rimicola</i>	- / -	✓	✓	✓	✓ (e)
cliff spurge <i>Euphorbia misera</i>	- / -	✓			
coastal dunes milk-vetch <i>Astragalus tener</i> var. <i>titi</i>	SE/FE	✓			
Coulter's goldfields <i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	- / -	✓	✓	✓	✓ (d)
Coulter's matilija poppy <i>Romneya coulteri</i>	- / -	✓	✓	✓	✓ (e)
Coulter's saltbush <i>Atriplex coulteri</i>	- / -	✓	✓	✓	
crested milk-vetch <i>Astragalus bicristatus</i>	- / -	✓			
Davidson's saltscale <i>Atriplex serenana</i> var. <i>davidsonii</i>	- / -	✓	✓	✓	✓ (d)
Davidson's stonecrop <i>Sedum niveum</i>	- / -	✓			
desert sage <i>Salvia eremostachya</i>	- / -	✓			
Duran's rush <i>Juncus duranii</i>	- / -	✓			
Engelmann oak <i>Quercus engelmannii</i>	- / -	✓	✓	✓	✓
Fish's milkwort <i>Polygala cornuta</i> var. <i>fishiae</i>	- / -	✓	✓	✓	✓ (e)
graceful tarplant <i>Holocarpha virgata</i> ssp. <i>elongata</i>	- / -	✓	✓	✓	✓ (e)
Hall's monardella <i>Monardella macrantha</i> ssp. <i>hallii</i>	- / -	✓	✓	✓	✓

2.0 Plan Area Description and Setting



TABLE 2-2 (Cont.)
SPECIES CONSIDERED FOR CONSERVATION
UNDER THE MSHCP SINCE 1999

Species Name	Listing Status State/ Federal {1}	Species Initially Considered for Conservation (3/99 - FWS Tables 1&2) {2} (247 species)	Species Considered for Conservation in "August 9, 1999 Draft MSHCP Proposal" {3} (165 species)	Species Considered for Conservation in "March 7, 2002 Admin Draft MSHCP Plan" {4} (142 species)	MSHCP Covered Species Adequately Conserved- {5} (146 species)
Hammitt's clay-cress <i>Sibaropsis hammittii</i>	- / -				✓ (b)
heart-leaved pitcher sage <i>Lepechinia cardiophylla</i>	- / -	✓	✓	✓	✓ (d)
hidden Lake bluecurl <i>Trichostema austromontanum</i> ssp. <i>compactum</i>	- / FT	✓			
intermediate mariposa lily <i>Calochortus weedii</i> var. <i>intermedius</i>	- / -	✓	✓	✓	✓
jackass clover <i>Wislizenia refracta</i> ssp. <i>refracta</i>	- / -	✓			
Jaeger's milk-vetch <i>Astragalus pachypus</i> var. <i>jaegeri</i>	- / -	✓	✓	✓	✓
Johnston's rock cress <i>Arabis johnstonii</i>	- / -	✓	✓	✓	✓ (b)
Laguna Mountains jewel-flower <i>Streptanthus bernardinus</i>	- / -	✓			
Lakeside ceanothus <i>Ceanothus cyaneus</i>	- / -	✓			
leafy buckwheat <i>Eriogonum foliosum</i>	- / -	✓			
Lemmon's syntrichopappus <i>Syntrichopappus lemmonii</i>	- / -	✓			
lemon lily <i>Lilium parryi</i>	- / -	✓	✓	✓	✓
light-gray lichen <i>Mobergia caliculiformis</i>	- / -	✓			
little mousetail <i>Myosurus minimus</i>	- / -	✓	✓	✓	✓ (d)
long-spined spine flower <i>Chorizanthe polygonoides</i> var. <i>longispina</i>	- / -	✓	✓	✓	✓
many-stemmed dudleya <i>Dudleya multicaulis</i>	- / -	✓	✓	✓	✓ (b)

2.0 Plan Area Description and Setting



TABLE 2-2 (Cont.)
SPECIES CONSIDERED FOR CONSERVATION
UNDER THE MSHCP SINCE 1999

Species Name	Listing Status State/ Federal {1}	Species Initially Considered for Conservation (3/99 - FWS Tables 1&2) {2} (247 species)	Species Considered for Conservation in "August 9, 1999 Draft MSHCP Proposal" {3} (165 species)	Species Considered for Conservation in "March 7, 2002 Admin Draft MSHCP Plan" {4} (142 species)	MSHCP Covered Species Adequately Conserved- {5} (146 species)
Mission Canyon bluecup <i>Githopsis diffusa</i> ssp. <i>filicaulis</i>	- / -	✓			
Mojave tarplant <i>Deinandra mohavensis</i>	SE / -	✓	✓	✓	✓ (e)
mud nama <i>Nama stenocarpum</i>	- / -				✓ (d)
Munz's mariposa lily <i>Calochortus palmeri</i> var. <i>munzii</i>	- / -	✓	✓	✓	✓ (b)
Munz's onion <i>Allium munzii</i>	ST/FE	✓	✓	✓	✓ (b)
Nevin's barberry <i>Berberis nevinii</i>	SE/FE	✓	✓	✓	✓ (d)
ocellated Humboldt lily <i>Lilium humboldtii</i> ssp. <i>ocellatum</i>	- / -	✓	✓	✓	✓
Orcutt's brodiaea Brodiaea orcuttii	- / -	✓	✓	✓	✓
Orcutt's linanthus <i>Linanthus orcuttii</i>	- / -	✓			
Palmer's mariposa lily <i>Calochortus palmeri</i> var. <i>palmeri</i>	- / -	✓			
Palmer's grapplinghook <i>Harpagonella palmeri</i>	- / -	✓	✓	✓	✓
Palomar monkeyflower <i>Mimulus diffusus</i>	- / -	✓	✓	✓	✓
panamint dudleya <i>Dudleya saxosa</i> ssp. <i>saxosa</i>	- / -	✓			
Parish's alumroot <i>Heuchera parishii</i>	- / -	✓			
Parish's brittlescale <i>Atriplex parishii</i>	- / -	✓	✓	✓	✓ (d)
Parish's chaenactis <i>Chaenactis parishii</i>	- / -	✓			

2.0 Plan Area Description and Setting



TABLE 2-2 (Cont.)
SPECIES CONSIDERED FOR CONSERVATION
UNDER THE MSHCP SINCE 1999

Species Name	Listing Status State/ Federal {1}	Species Initially Considered for Conservation (3/99 - FWS Tables 1&2) {2} (247 species)	Species Considered for Conservation in "August 9, 1999 Draft MSHCP Proposal" {3} (165 species)	Species Considered for Conservation in "March 7, 2002 Admin Draft MSHCP Plan" {4} (142 species)	MSHCP Covered Species Adequately Conserved- {5} (146 species)
Parish's daisy <i>Erigeron parishii</i>	-/FT	✓			
Parish's desert thorn <i>Lycium parishii</i>	-/-	✓			
Parish's meadowfoam <i>Limnanthes gracilis</i> var. <i>parishii</i>	SE/-	✓	✓	✓	✓
Parish's onion <i>Allium parishii</i>	-/-	✓			
Parish's rupertia <i>Rupertia rigida</i>	-/-	✓			
Parry's spine flower <i>Chorizanthe parryi</i> var. <i>parryi</i>	-/-	✓	✓	✓	✓(e)
Parry's tetracoccus <i>Tetracoccus dioicus</i>	-/-	✓			
Payson's jewelflower <i>Caulanthus simulans</i>	-/-	✓	✓	✓	✓
peninsular spine flower <i>Chorizanthe leptotheca</i>	-/-	✓	✓	✓	✓(e)
Plummer's mariposa lily <i>Calochortus plummerae</i>	-/-	✓	✓	✓	✓(e)
prairie wedge grass <i>Sphenopholis obtusata</i>	-/-	✓	✓		
Pringle's monardella <i>Monardella pringlei</i>	-/-	✓			
prostrate navarretia <i>Navarretia prostrate</i>	-/-				✓(d)
prostrate spine flower <i>Chorizanthe procumbens</i>	-/-	✓	✓	✓	✓
Rainbow manzanita <i>Arctostaphylos rainbowensis</i>	-/-	✓	✓	✓	✓(e)
Robinson's pepper grass <i>Lepidium virginicum</i> var. <i>robinsonii</i>	-/-	✓			

2.0 Plan Area Description and Setting



TABLE 2-2 (Cont.)
SPECIES CONSIDERED FOR CONSERVATION
UNDER THE MSHCP SINCE 1999

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round-leaved boykinia <i>Boykinia rotundifolia</i>	- / -	✓	✓		
round-leaved filaree <i>Erodium macrophyllum</i>	- / -	✓			✓ (d)
sagebrush loeflingia <i>Loeflingia squarrosa</i> var. <i>artemisiarum</i>	- / -	✓			
salt spring checkerbloom <i>Sidalcea neomexicana</i>	- / -	✓			
San Bernardino Mountains owl clover <i>Castilleja lasiorhyncha</i>	- / -	✓			
San Diego ambrosia <i>Ambrosia pumila</i>	- / FE	✓	✓	✓	✓ (b)
San Diego button-celery <i>Eryngium aristulatum</i> var. <i>parishii</i>	SE / FE	✓	✓	✓	✓
San Diego goldenstar <i>Muilla clevelandii</i>	- / -	✓			
San Jacinto beardtongue <i>Penstemon clevelandii</i> var. <i>connatus</i>	- / -	✓	✓		
San Jacinto Mountains bedstraw <i>Galium angustifolium</i> ssp. <i>jacinticum</i>	- / -	✓	✓	✓	✓ (b)
San Jacinto Mountain daisy <i>Erigeron breweri</i> var. <i>jacinteus</i>	- / -	✓	✓		
San Jacinto prickly phlox <i>Leptodactylon jaegeri</i>	- / -	✓			
San Jacinto Valley crownscale <i>Atriplex coronata</i> var. <i>notatior</i>	- / FE	✓	✓	✓	✓ (d)
San Miguel savory <i>Satureja chandleri</i>	- / -	✓	✓	✓	✓ (b)
Santa Ana River woollystar <i>Eriastrum densifolium</i> ssp. <i>sanctorum</i>	SE / FE	✓	✓	✓	✓
Santa Rosa Mountains linanthus <i>Linanthus floribundus</i> ssp. <i>hallii</i>	- / -	✓			

2.0 Plan Area Description and Setting



TABLE 2-2 (Cont.)
SPECIES CONSIDERED FOR CONSERVATION
UNDER THE MSHCP SINCE 1999

Species Name	Listing Status State/ Federal {1}	Species Initially Considered for Conservation (3/99 - FWS Tables 1&2) {2} (247 species)	Species Considered for Conservation in "August 9, 1999 Draft MSHCP Proposal" {3} (165 species)	Species Considered for Conservation in "March 7, 2002 Admin Draft MSHCP Plan" {4} (142 species)	MSHCP Covered Species Adequately Conserved- {5} (146 species)
Santiago Peak keckii <i>Phacelia suaveolens</i> ssp. <i>keckii</i>	- / -	✓			
shaggy-haired alumroot <i>Heuchera hirsutissima</i>	- / -	✓	✓	✓	✓
slender bedstraw <i>Galium angustifolium</i> ssp. <i>gracillimum</i>	- / -	✓	✓		
slender-horned spine flower <i>Dodecahema leptoceras</i>	SE/FE	✓	✓	✓	✓ (b)
small-flowered bluecurls <i>Trichostema micranthum</i>	- / -	✓			
small-flowered microseris <i>Microseris douglasii</i> var. <i>platycarpha</i>	- / -	✓	✓	✓	✓ (e)
small-flowered morning-glory <i>Convolvulus simulans</i>	- / -	✓	✓	✓	✓
smooth tarplant <i>Centromadia pungens</i> ssp. <i>laevis</i>	- / -	✓	✓	✓	✓ (d)
snake cholla <i>Opuntia parry</i> var. <i>serpentina</i>	- / -	✓			
Sonoran maiden form <i>Thelypteris puberula</i> var. <i>sonorensis</i>	- / -	✓	✓		
South coast saltscale <i>Atriplex pacifica</i>	- / -	✓			
southern skullcap <i>Scutellaria bolanderi</i> ssp. <i>austromontana</i>	- / -	✓			
southern jewel-flower <i>Streptanthus campestris</i>	- / -	✓			
spreading navarretia <i>Navarretia fossalis</i>	- / FT	✓	✓	✓	✓ (b)
sticky-leaved dudleya <i>Dudleya viscida</i>	- / -	✓	✓	✓	✓
summer holly <i>Comarostaphylis diversifolia</i> ssp. <i>diversifolia</i>	- / -	✓			
Tahquitz ivesia <i>Ivesia callida</i>	SR/-	✓			

2.0 Plan Area Description and Setting



TABLE 2-2 (Cont.)
SPECIES CONSIDERED FOR CONSERVATION
UNDER THE MSHCP SINCE 1999

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thread-leaved brodiaea <i>Brodiaea filifolia</i>	SE/FT	✓	✓	✓	✓ (d)
Thurber's penstemon <i>Penstemon thurberi</i>	- / -	✓			
Vail Lake ceanothus <i>Ceanothus ophiochilus</i>	SE/FT	✓	✓	✓	✓ (d)
vernal barley <i>Hordeum intercedens</i>	- / -	✓	✓	✓	✓
white-bracted spine-flower <i>Chorizanthe xanti</i> var. <i>leucotheca</i>	- / -	✓			
white-margined oxytheca <i>Oxytheca emarginata</i>	- / -	✓			
Wright's trichocoronis <i>Trichocoronis wrightii</i> var. <i>wrightii</i>	- / -	✓	✓	✓	✓ (b)
Yucaipa onion <i>Allium marvinii</i>	- / -				✓ (b)
Ziegler's aster <i>Machaeranthera canescens</i> var. <i>ziegleri</i>	- / -	✓			

FOOTNOTES:

(1) FEDERAL DESIGNATIONS

FE **Endangered:**

Species listed as endangered by the U.S. Fish and Wildlife Service. Taxa threatened throughout all or a significant portion of their range. The term "endangered species" means any species which is in danger of extinction throughout all or a significant portion of its range other than a species of the Class Insecta determined by the Secretary to constitute a pest whose protection under the provisions of this Act would present an overwhelming and overriding risk to man (Section 3 (6) of the Endangered Species Act).

2.0 Plan Area Description and Setting



**TABLE 2-2 (Cont.)
SPECIES CONSIDERED FOR CONSERVATION
UNDER THE MSHCP SINCE 1999**

FT	<u>Threatened:</u>	Species listed as threatened by the U.S. Fish and Wildlife Service. Taxa likely to become endangered in the foreseeable future. The term "threatened species" means any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range (Section 3 (19) of the Endangered Species Act).
PT	<u>Proposed Threatened:</u>	Species proposed for listing as threatened by the U.S. Fish and Wildlife Service
P	<u>Petitioned as Threatened or Endangered:</u>	Species for which the U.S. Fish and Wildlife Service has received a petition for listing as threatened or endangered.
	<u>Candidate:</u>	Taxa for which the USFWS currently has on file substantial information on biological vulnerability and threat(s) to support the appropriateness of proposing to list them as endangered or threatened species.
FSC	<u>Federal Species of Concern:</u>	Taxa that were formerly Category 2 Candidates for listing as threatened or endangered. This category is an "unofficial" designation for species that may warrant listing, but for which substantial information to support the listing is lacking.
	<u>Proposed:</u>	Any species of fish, wildlife, or plant that is proposed in the Federal Register to be listed under Section 4 of the Endangered Species Act. The formal process of publishing a proposed federal regulation in the Federal Register and establishing a comment period for public input in the decision-making process. Plants and animals must be proposed for listing as threatened or endangered species, and the resulting public comments must be analyzed, before the UFWS can make a final decision.
	<u>Petition:</u>	A formal request, with the support of adequate biological data, suggesting that a species be listed, reclassified, or delisted, or that critical Habitat be revised for a listed species.

STATE DESIGNATIONS

SE	<u>Endangered:</u>	Species classified as endangered by the California Fish and Game Commission. Taxa which are in serious danger of becoming extinct throughout all, or a significant portion, of their range due to one or more causes including loss of Habitat, change in Habitat, over exploitation, predation, competition, or disease (Section 2062 of the Fish and Game Code).
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2.0 Plan Area Description and Setting



**TABLE 2-2 (Cont.)
SPECIES CONSIDERED FOR CONSERVATION
UNDER THE MSHCP SINCE 1999**

<p>ST <u>Threatened:</u></p>	<p>Species classified as threatened by the California Fish and Game Commission. Taxa which, although not presently threatened with extinction, are likely to become endangered species in the foreseeable future (Section 2067 of the Fish and Game Code).</p>
<p>SSC <u>California or CDFG</u> <u>Species of Special</u> <u>Concern:</u></p>	<p>Species considered by the California Department of Fish and Game as possibly facing extirpation in California due to declining populations or loss of Habitat. Taxa that appear to be vulnerable to extinction because of declining populations, limited ranges, and/or continuing threats.</p>
<p><u>California Special</u> <u>Concern Species:</u></p>	<p>It is the goal and responsibility of the Department of Fish and Game to maintain viable populations of all native species. To this end, the Department has designated certain vertebrate species as "Species of Special Concern" because declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction. The goal of designating species as "Species of Special Concern" is to halt or reverse their declining by calling attention to their plight and addressing the issues of concern early enough to secure their long term viability. Not all "Species of Special Concern" have declined equally; some species may be just starting to decline, while others may have already reached the point where they meet the criteria for listing as a "Threatened" or "Endangered" species under the State and/or Federal Endangered species Acts.</p>
<p>SP <u>Fully Protected</u></p>	<p>Fully protected species may not be taken or possessed without a permit from the Fish and Game Commission and/or the Department of Fish and Game.</p>
<p><u>Rare:</u></p>	<p>Taxa which, although not presently threatened with extinction, are present in such small numbers throughout their range that they may become endangered if the present environment worsens (Section 1901 of the Fish and Game Code).</p>
<p><u>Candidate:</u></p>	<p>Taxa which the Fish and Game Commission has formally noticed as being under review by the Department in addition to the list of threatened and endangered species.</p>

(2) The list of species initially considered for Conservation by the Wildlife Agencies in collaboration with the MSHCP Advisory Committee. This list was documented by FWS staff in Tables 1 and 2 prepared in March 1999. Tables 1 and 2 are included in the Appendix to the August 9, 1999 "Draft MSHCP Proposal" (DUDEK 1999) on file with the County of Riverside.

2.0 Plan Area Description and Setting



TABLE 2-2 (Cont.)
SPECIES CONSIDERED FOR CONSERVATION
UNDER THE MSHCP SINCE 1999

- (3) This list of species was developed by DUDEK from the list of species initially considered for Conservation based on preliminary review of the MSHCP database. This list is described in the August 9, 1999 "Draft MSHCP Proposal" (DUDEK 1999) on file with the County of Riverside.
- (4) This list of species was developed by DUDEK as a refinement of the list of species included in the August 9, 1999 "Draft MSHCP Proposal." The refinements were based on input from the Wildlife Agencies and a variety of stakeholders as well as additional research conducted by DUDEK. In general, species previously considered for Conservation were eliminated from the list because information needed to proceed with Conservation planning for the species was determined to be unavailable.
- (5) This list of species was developed by DUDEK as a refinement to the list of species included in the March 7, 2002 Administrative Draft MSHCP and reflects additions recommended by the Wildlife Agencies and CNPS as well as elimination of two plant species for which it was determined sufficient information was not available to proceed with Conservation planning. A complete summary of all MSHCP species survey requirements is provided in *Appendix E* of this document.
 - (a) Surveys may be required for these species as part of wetlands mapping as described in *Section 6.1.2* of this document.
 - (b) Surveys may be required for these species within Narrow Endemic Plant Species survey area as described in *Section 6.1.3* of this document.
 - (c) Surveys may be required for these species within locations shown on survey maps as described in *Section 6.3.2* of this document.
 - (d) Surveys may be required for these species within Criteria Area as described in *Section 6.3.2* of this document.
 - (e) These Covered Species will be considered to be Covered Species Adequately Conserved when Conservation requirements identified in species-specific conservation objectives have been met. Species-specific conservation objectives for these species are presented in *Section 9.0* of this document.