

heavily fragmented by urbanization in the Riverside Lowlands Bioregion and are represented by small patches of existing public/quasi-public lands. By contrast, only 28 of the patches (5%) are greater than 1,000 acres but these make up 94 percent of the areas to be conserved under the proposed MSHCP. A single connected block makes up the largest portion of the proposed MSHCP Conservation Area at approximately 238,000 acres (50% of the acreage).

### 2.3.4 Covered Species

The 146 species that receive coverage under the proposed MSHCP are listed in Table 2G. The 146 species represent a broad range of habitats and geographical areas in the proposed Plan Area. They include listed threatened and endangered species that have very specific habitat requirements and conservation and management needs, other regionally or locally sensitive or rare species, and upper trophic or generalist species that have broad habitat requirements.

Table 2G - Species Conserved by the MSHCP

Species Scientific Name	Species Common Name	Listing Status: State <sup>1</sup> /Federal <sup>2</sup>
<b>Birds</b>		
<i>Accipiter cooperi</i>	Cooper's hawk	SSC/-
<i>Accipiter gentilis</i>	northern goshawk	SSC/FSC
<i>Accipiter striatus</i>	sharp-shinned hawk	SSC/-
<i>Agelaius tricolor</i>	tricolored blackbird (colony)	SSC/FSC
<i>Aimophila ruficeps canescens</i>	Southern California rufous-crowned sparrow	SSC/-
<i>Ammodramus savannarum</i>	grasshopper sparrow	-/-
<i>Amphispiza belli belli</i>	Bell's sage sparrow	SSC/FSC
<i>Aquila chrysaetos</i>	golden eagle	SP, SSC/-
<i>Ardea herodias</i>	great blue heron	-/-
<i>Athene cunicularia hypugea</i>	burrowing owl	SSC/FSC
<i>Botaurus lentiginosus</i>	American bittern	-/FSC
<i>Buteo regalis</i>	ferruginous hawk	SSC/FSC
<i>Buteo swainsoni</i>	Swainson's hawk	ST/FSC
<i>Campylorhynchus brunneicapillus couesi</i>	cactus wren	SSC/-
<i>Cathartes aura</i>	turkey vulture (breeding)	-/-
<i>Charadrius montanus</i>	mountain plover (wintering)	SSC/PT
<i>Circus cyaneus</i>	northern harrier (breeding)	SSC/-
<i>Coccyzus americanus occidentalis</i>	western yellow-billed cuckoo	SE/-
<i>Cypseloides niger</i>	black swift (breeding)	SSC/FSC
<i>Dendroica petechia brewsteri</i>	yellow warbler	SSC/-

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<i>Elanus leucurus</i>	white-tailed kite	SP/FSC
<i>Empidonax traillii extimus</i>	southwestern willow flycatcher	SE/FE
<i>Eremophila alpestris actia</i>	California horned lark	SSC/-
<i>Falco columbarius</i>	merlin	SSC/-
<i>Falco mexicanus</i>	prairie falcon (breeding)	SSC/-
<i>Falco peregrinus</i>	peregrine falcon	SP, SE/delisted
<i>Haliaeetus leucocephalus</i>	bald eagle	SP, SE/FT
<i>Icteria virens</i>	yellow-breasted chat	SSC/-
<i>Lanius ludovicianus</i>	loggerhead shrike	SSC/FSC
<i>Melospiza lincolni</i>	Lincoln's sparrow (breeding)	-/-
<i>Nycticorax nycticorax</i>	black crowned night heron	-/-
<i>Oporornis tolmiei</i>	Macgillivray's warbler	-/-
<i>Oreortyx pictus</i>	mountain quail	-/-
<i>Pandion haliaetus</i>	osprey	SSC/-
<i>Phalacrocorax auritus</i>	double-crested cormorant	SSC/-
<i>Picoides pubescens</i>	downy woodpecker	-/-
<i>Plegadis chihi</i>	white-faced ibis	SSC/FSC
<i>Polioptila californica californica</i>	coastal California gnatcatcher	SSC/FT
<i>Progne subis</i>	purple martin	SSC/-
<i>Sphyrapicus thyroideus</i>	Williamson's sapsucker	-/-
<i>Strix occidentalis occidentalis</i>	California spotted owl	SSC/FSC
<i>Tachycineta bicolor</i>	tree swallow	-/-
<i>Vermivora ruficapilla</i>	Nashville warbler	-/-
<i>Vireo bellii pusillus</i>	least Bell's vireo	SE/FE
<i>Wilsonia pusilla</i>	Wilson's warbler	-/-
<b>Mammals</b>		
<i>Canis latrans</i>	coyote	-/-
<i>Chaetodipus fallax fallax</i>	northwestern San Diego pocket mouse	SSC/-
<i>Dipodomys merriami collinus</i>	Aguanga kangaroo rat	-/-
<i>Dipodomys merriami parvus</i>	San Bernardino kangaroo rat	SSC/FE
<i>Dipodomys simulans</i>	Dulzra kangaroo rat	-/-
<i>Dipodomys stephensi</i>	Stephens' kangaroo rat	ST/FE
<i>Glaucomys sabrinus californicus</i>	San Bernardino flying squirrel	SSC/-
<i>Lepus californicus bennettii</i>	San Diego black-tailed jackrabbit	SSC/-

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<i>Lynx rufus</i>	bobcat	-/-
<i>Mustela frenata</i>	long-tailed weasel	-/-
<i>Neotoma lepida intermedia</i>	San Diego desert woodrat	SSC/-
<i>Perognathus longimembris brevinasus</i>	Los Angeles pocket mouse	SSC/-
<i>Puma concolor</i>	mountain lion	-/-
<i>Sylvilagus bachmani</i>	brush rabbit	-/-
<b>Amphibians</b>		
<i>Bufo californicus</i>	arroyo toad	SSC/FE
<i>Rana aurora draytonii</i>	California red-legged frog	SSC/FT
<i>Rana mucosa</i>	mountain yellow-legged frog	SP, SSC/-
<i>Scaphiopus hammondii</i>	western spadefoot toad	SSC/-
<i>Taricha tarosa tarosa</i>	coast range newt	SSC/-
<b>Reptiles</b>		
<i>Charina bottae umbratica</i>	southern rubber boa	ST/-
<i>Clemmys marmorata pallida</i>	western pond turtle	SSC/-
<i>Cnemidophorus tigris multiscutatus</i>	coastal western whiptail	-/-
<i>Cnemidophorus hyperythrus beldingi</i>	Belding's orange-throated whip-tail	SSC/-
<i>Coleonyx variegatus abbotii</i>	San Diego banded gecko	-/-
<i>Crotalus ruber ruber</i>	northern red-diamond rattlesnake	SSC/-
<i>Lampropeltis zonata parvirubra</i>	San Bernardino mountain kingsnake	SSC/-
<i>Lampropeltis zonata pulchra</i>	San Diego mountain kingsnake	SSC/-
<i>Phrynosoma coronatum blainvillei</i>	San Diego horned lizard	SSC/-
<i>Sceloporus graciosus vandenburgianus</i>	southern sagebrush lizard	-/-
<i>Sceloporus orcuttii</i>	granite spiny lizard	-/-
<i>Xantusia henshawi henshawi</i>	granite night lizard	-/-
<b>Invertebrates/Crustaceans</b>		
<i>Branchinecta lynchi</i>	vernal pool fairy shrimp	-/FT
<i>Linderiella santarosae</i>	Santa Rosa Plateau fairy shrimp	-/-
<i>Streptocephalus woottoni</i>	Riverside fairy shrimp	-/FE
<b>Invertebrates/Insects</b>		
<i>Euphydryas editha quino</i>	Quino checkerspot butterfly	-/FE

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<i>Rhaphiomidas terminatus abdominalis</i>	Delhi Sands flower-loving fly	-/FE
<b>Fish</b>		
<i>Catostomus santaanae</i>	Santa Ana sucker	SSC/FT
<i>Gila orcutti</i>	arroyo chub	SSC/-
<b>Plants</b>		
<i>Allium marvinii</i>	Yucaipa onion	-/-
<i>Allium munzii</i>	Munz's onion	ST/FE
<i>Ambrosia pumila</i>	San Diego ambrosia	-/FE
<i>Arabis johnstonii</i>	Johnston's rock cress	-/-
<i>Arctostaphylos rainbowensis</i>	Rainbow manzanita	-/-
<i>Astragalus pachypus</i> var. <i>jaegeri</i>	Jaeger's milkvetch	-/-
<i>Atriplex coronata</i> var. <i>notatior</i>	San Jacinto Valley crownscale	-/FE
<i>Atriplex parishii</i>	Parish's brittle scale	-/-
<i>Atriplex serenana</i> var. <i> davidsonii</i>	Davidson's salt scale	-/-
<i>Berberis nevini</i>	Nevin's barberry	SE/FE
<i>Brodiaea filifolia</i>	thread-leaved brodiaea	SE/FT
<i>Brodiaea orcuttii</i>	Orcutt's brodiaea	-/-
<i>Calochortus palmeri</i> var. <i>munzii</i>	Munz's mariposa lily	-/-
<i>Calochortus plummerae</i>	Plummer's mariposa lily	-/-
<i>Calochortus weedii</i> var. <i>intermedius</i>	intermediate mariposa lily	-/-
<i>Caulanthus simulans</i>	Payson's jewel flower	-/-
<i>Ceanothus ophiochilus</i>	Vail Lake ceanothus	ST/FT
<i>Centromandia pungens</i> ssp. <i>laevis</i>	smooth tarplant	-/-
<i>Chorizanthe leptotheca</i>	peninsular spine flower	-/-
<i>Chorizanthe parryi</i> var. <i>parryi</i>	Parry's spine flower	-/-
<i>Chorizanthe polygonoides</i> var. <i>longispina</i>	long-spined spine flower	-/-
<i>Chorizanthe procumbens</i>	prostrate spine flower	-/-
<i>Convolvulus simulans</i>	small-flowered morning glory	-/-
<i>Deinandra mohavensis</i>	Mojave tarplant	SE/-
<i>Dodecahema leptoceras</i>	slender-horned spine flower	SE/FE
<i>Dudleya multicaulis</i>	many-stemmed dudleya	-/-
<i>Dudleya viscida</i>	sticky-leaved dudleya	-/-
<i>Eriastrum densifolium</i> ssp. <i>sanctorum</i>	Santa Ana River woolly star	SE/FE

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<i>Erodium macrophyllum</i>	round-leaved filaree	-/-
<i>Eryngium aristulatum</i> var. <i>parishii</i>	San Diego button-celery	SE/FE
<i>Galium angustifolium</i> ssp. <i>jacinticum</i>	San Jacinto Mountains bedstraw	-/-
<i>Galium californicum</i> ssp. <i>primum</i>	California bedstraw	-/-
<i>Harpagonella palmeri</i>	Palmer's grapplinghook	-/-
<i>Heuchera hirsutissima</i>	shaggy-haired alumroot	-/-
<i>Holocarpha virgata</i> ssp. <i>elongata</i>	graceful tarplant	-/-
<i>Hordeum intercedens</i>	vernal barley	-/-
<i>Hulsea vestita</i> ssp. <i>callicarpa</i>	beautiful hulsea	-/-
<i>Juglans californica</i> var. <i>californica</i>	Southern California black walnut	-/-
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	Coulter's goldfields	-/-
<i>Lepechinia cardiophylla</i>	heart-leaved pitcher sage	-/-
<i>Lilium humboldtii</i> ssp. <i>ocellatum</i>	ocellated Humboldt lily	-/-
<i>Lilium parryi</i>	lemon lily	-/-
<i>Limnanthes gracilis</i> var. <i>parishii</i>	Parish's meadowfoam	SE/-
<i>Microseris douglasii</i> var. <i>platycharpha</i>	small-flowered microseris	-/-
<i>Mimulus clevelandii</i>	Cleveland's bush monkeyflower	-/-
<i>Mimulus diffusus</i>	Palomar monkeyflower	-/-
<i>Monardella macrantha</i> ssp. <i>hallii</i>	Hall's monardella	-/-
<i>Muhlenbergia californica</i>	California muhly	-/-
<i>Myosurus minimus</i>	little mousetail	-/-
<i>Nama stenocarpum</i>	mud nama	-/-
<i>Navarretia fossalis</i>	spreading navarretia	-/FT
<i>Navarretia prostrata</i>	prostrate navarretia	-/-
<i>Orcuttia californica</i>	California Orcutt grass	SE/FE
<i>Oxytheca caryophylloides</i>	chickweed oxytheca	-/-
<i>Penstemon californicus</i>	California beardtongue	-/-
<i>Phacelia stellaris</i>	Brand's phacelia	-/-
<i>Polygala cornuta</i> var. <i>fishiae</i>	Fish's milkwort	-/-
<i>Potentilla rimicola</i>	cliff cinquefoil	-/-
<i>Quercus engelmannii</i>	Engelmann oak	-/-
<i>Romneya coulteri</i>	Coulter's matilija poppy	-/-
<i>Satureja chandleri</i>	San Miguel savory	-/-
<i>Sibaropsis hammittii</i>	Hammitt's clay-cress	-/-

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<i>Trichocoronis wrightii</i> var. <i>wrightii</i>	Wright's trichocoronis	-/-

<sup>1</sup> State Designations

SE Endangered: Species listed as endangered by the California Fish and Game Commission.

ST Species listed as threatened by the California Fish and Game Commission.

SSC Species of Special Concern: Species considered by the California Department of Fish and Game (CDFG) as possibly facing extinction in California due to declining populations or habitat.

SP State Protected Species: May not be taken or possessed without a permit from the Fish and Game Commission and/or CDFG.

<sup>2</sup> Federal Designations

FE Endangered: Species listed as endangered by the U.S. Fish and Wildlife Service (USFWS).

FT Threatened: Species listed as threatened by the USFWS.

PT Proposed Threatened: Species proposed for listing as threatened by the USFWS.

P Petitioned as Threatened or Endangered: Species for which the USFWS has received a petition for listing as threatened or endangered.

Source: MSHCP.