

**APPENDIX C**  
**BIOLOGICAL RESOURCES TABLES**

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## Appendix C. Biological Resources Tables

**Table C1. Special Status Plant Species with a Potential to Occur Within San Diego County**

Common Name	Scientific Name	Federal Status	State Status	CNPS List	Habitat Associations
<b>NON-VASCULAR</b>					
bottle liverwort	<i>Sphaerocarpos dreweii</i>			1B.1	Chaparral, coastal scrub.
California screw moss	<i>Tortula californica</i>			1B.2	Chenopod scrub, valley and foothill grassland.
Campbell's liverwort	<i>Geothallus tuberosus</i>			1B.1	Coastal scrub, vernal pools.
coastal triquetrella	<i>Triquetrella californica</i>			1B.2	Coastal bluff scrub, coastal scrub.
Shevock's copper moss	<i>Schizymenium shevockii</i>			1B.2	Cismontane woodland.
light gray lichen	<i>Mobergia calculiformis</i>				Coastal scrub.
woven-spored lichen	<i>Texosporium sancti-jacobi</i>				Chaparral.
<b>VASCULAR</b>					
<b>Fern</b>					
desert spike-moss	<i>Selaginella eremophila</i>			2.2	Sonoran desert scrub.
<b>Gynosperms</b>					
Cuyamaca cypress	<i>Cupressus stephensonii</i>			1B.1	Closed-cone coniferous forest, chaparral, riparian forest.
Tecate cypress	<i>Cupressus forbesii</i>			1B.1	Closed-cone coniferous forest, chaparral.
torrey pine	<i>Pinus torreyana</i> ssp. <i>torreyana</i>			1B.2	Closed-cone coniferous forest, chaparral.
<b>Angiosperms - Monocotyledons</b>					
Arizona cottontop	<i>Digitaria californica</i>			2.3	Sonoran desert scrub, Mojavean desert scrub.
California Orcutt grass	<i>Orcuttia californica</i>	FE	SE	1B.1	Vernal pools.
chaparral nolina	<i>Nolina cismontana</i>			1B.2	Chaparral, coastal scrub.
Dehesa nolina	<i>Nolina interrata</i>		SE	1B.1	Chaparral.
Dunn's mariposa-lily	<i>Calochortus dunnii</i>		SR	1B.2	Closed-cone coniferous forest, chaparral.
lemon lily	<i>Lilium parryi</i>			1B.2	Lower montane coniferous forest, meadows and seeps, riparian forest, upper montane coniferous forest.
Orcutt's brodiaea	<i>Brodiaea orcuttii</i>			1B.1	Vernal pools, valley and foothill grassland, closed-cone coniferous forest, cismontane woodland, chaparral, meadows.
San Bernardino blue grass	<i>Poa atropurpurea</i>	FE		1B.2	Meadows and seeps.
San Diego goldenstar	<i>Muilla clevelandii</i>			1B.1	Chaparral, coastal scrub, valley and foothill grassland, vernal pools.
Shaw's agave	<i>Agave shawii</i>			2.1	Coastal bluff scrub, coastal scrub.
thread-leaved brodiaea	<i>Brodiaea filifolia</i>	FT	SE	1B.1	Cismontane woodland, coastal scrub, playas, valley and foothill grassland, vernal pools.
<b>Angiosperms - Dicotyledons</b>					
annual rock-nettle	<i>Eucnide rupestris</i>			2.2	Sonoran desert scrub.
aphanisma	<i>Aphanisma blitoides</i>			1B.2	Coastal bluff scrub, coastal dunes, coastal scrub.
Arizona carlowrightia	<i>Carlowrightia arizonica</i>			2.2	Sonoran desert scrub.
Arizona spurge	<i>Chamaesyce arizonica</i>			2.3	Sonoran desert scrub.

## Appendix C. Biological Resources Tables

Table C-1 (Continued)

Common Name	Scientific Name	Federal Status	State Status	CNPS List	Habitat Associations
Baja California birdbush	<i>Ornithostaphylos oppositifolia</i>		SE	2.1	Chaparral.
Baja navarretia	<i>Navarretia peninsularis</i>			1B.2	Lower montane coniferous forest, chaparral.
beach goldenaster	<i>Heterotheca sessiliflora</i> ssp. <i>sessiliflora</i>			1B.1	Coastal dunes, coastal scrub, chaparral (coastal).
Blochman's dudleya	<i>Dudleya blochmaniae</i> ssp. <i>blochmaniae</i>			1B.1	Coastal scrub, coastal bluff scrub, valley and foothill grassland.
Borrego bedstraw	<i>Galium angustifolium</i> ssp. <i>borregoense</i>		SR	1B.3	Sonoran desert scrub.
Borrego Valley pepper-grass	<i>Lepidium flavum</i> var. <i>felipense</i>			1B.2	Sonoran desert scrub, pinyon-juniper woodland.
Brand's star phacelia	<i>Phacelia stellaris</i>	FC		1B.1	Coastal scrub, coastal dunes.
bristly scaleseed	<i>Spermolepis echinata</i>			2.3	Sonoran desert scrub.
brown turbans	<i>Malperia tenuis</i>			2.3	Sonoran desert scrub.
California adolphia	<i>Adolphia californica</i>			2.1	Chaparral, coastal sage scrub, valley and foothill grassland.
California ayenia	<i>Ayenia compacta</i>			2.3	Mojavean desert scrub, Sonoran desert scrub.
Cedros Island oak	<i>Quercus cedrosensis</i>			2.2	Closed-cone coniferous forest, chaparral, coastal scrub.
chaparral ash	<i>Fraxinus parryi</i>			2.2	Chaparral.
chaparral ragwort	<i>Senecio aphanactis</i>			2.2	Cismontane woodland, coastal scrub.
chaparral sand-verbena	<i>Abronia villosa</i> var. <i>aurita</i>			1B.1	Chaparral, coastal scrub.
cliff spurge	<i>Euphorbia misera</i>			2.2	Coastal bluff scrub, coastal scrub.
coast woolly heads	<i>Nemacaulis denudata</i> var. <i>denudata</i>			1B.2	Coastal dunes.
coastal dunes milk-vetch	<i>Astragalus tener</i> var. <i>titi</i>	FE	SE	1B.1	Coastal bluff scrub, coastal dunes.
Coulter's goldfields	<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>			1B.1	Coastal salt marshes, playas, valley and foothill grassland, vernal pools.
Coulter's saltbush	<i>Atriplex coulteri</i>			1B.2	Coastal bluff scrub, coastal dunes, coastal scrub, valley and foothill grassland.
Coves' cassia	<i>Senna covesii</i>			2.2	Sonoran desert scrub.
creamy blazing star	<i>Mentzelia tridentata</i>			1B.3	Mojavean desert scrub.
curly herissantia	<i>Herissantia crispa</i>			2.3	Sonoran desert scrub.
Cuyamaca Lake downingia	<i>Downingia concolor</i> var. <i>brevior</i>		SE	1B.1	Meadows (mesic), vernal pools.
Cuyamaca larkspur	<i>Delphinium hesperium</i> ssp. <i>cuyamacae</i>		SR	1B.2	Lower montane coniferous forest, meadows.
Cuyamaca raspberry	<i>Rubus glaucifolius</i> var. <i>ganderi</i>			1B.3	Lower montane coniferous forest.
Davidson's saltscale	<i>Atriplex serenana</i> var. <i>davidsonii</i>			1B.2	Coastal bluff scrub, coastal scrub.
Dean's milk-vetch	<i>Astragalus deanei</i>			1B.1	Chaparral, coastal scrub, riparian forest.
decumbent goldenbush	<i>Isocoma menziesii</i> var. <i>decumbens</i>			1B.2	Coastal scrub.
Del Mar manzanita	<i>Arctostaphylos glandulosa</i> ssp. <i>crassifolia</i>	FE		1B.1	Chaparral, closed-cone coniferous forest.
Del Mar Mesa sand aster	<i>Corethrogyne filaginifolia</i> var. <i>linifolia</i>			1B.1	Chaparral, coastal scrub.

Table C-1 (Continued)

Common Name	Scientific Name	Federal Status	State Status	CNPS List	Habitat Associations
delicate clarkia	<i>Clarkia delicata</i>			1B.2	Cismontane woodland, chaparral.
desert beauty	<i>Linanthus bellus</i>			2.3	Chaparral.
dwarf burr ambrosia	<i>Ambrosia pumila</i>	FE		1B.1	Chaparral, coastal scrub, valley and foothill grassland.
elephant tree	<i>Bursera microphylla</i>			2.3	Sonoran desert scrub.
Encinitas baccharis	<i>Baccharis vanessae</i>	FT	SE	1B.1	Chaparral.
estuary seablite	<i>Suaeda esteroa</i>			1B.2	Marshes and swamps.
felt-leaved monardella	<i>Monardella hypoleuca</i> ssp. <i>lanata</i>			1B.2	Chaparral, cismontane woodland.
flat-seeded spurge	<i>Chamaesyce platysperma</i>			1B.2	Sonoran desert scrub, desert dunes.
Fremont barberry	<i>Berberis fremontii</i>			3	Chaparral, pinyon-juniper woodland, Joshua tree woodland.
Gambel's water cress	<i>Nasturtium gambelii</i>	FE	ST	1B.1	Marshes and swamps.
Gander's cryptantha	<i>Cryptantha ganderi</i>			1B.1	Sonoran desert scrub, desert dunes.
Gander's pitcher sage	<i>Lepechinia ganderi</i>			1B.3	Closed-cone coniferous forest, chaparral, coastal scrub, valley and foothill grassland.
Gander's ragwort	<i>Packera ganderi</i>		SR	1B.2	Chaparral.
golden violet	<i>Viola aurea</i>			2.2	Great basin scrub, pinyon-juniper woodland.
golden-spined cereus	<i>Bergerocactus emoryi</i>			2.2	Coastal scrub, sometimes chaparral margins.
hairy stickleaf	<i>Mentzelia hirsutissima</i>			2.3	Sonoran desert scrub.
Hall's monardella	<i>Monardella macrantha</i> ssp. <i>hallii</i>			1B.3	Broadleaved upland forest, chaparral, lower montane coniferous forest, cismontane woodland, valley and foothill grassland.
Hammitt's clay-cress	<i>Sibaropsis hammittii</i>			1B.2	Valley and foothill grassland, chaparral.
Harwood's milk-vetch	<i>Astragalus insularis</i> var. <i>harwoodii</i>			2.2	Desert dunes.
heart-leaved pitcher sage	<i>Lepechinia cardiophylla</i>			1B.2	Closed-cone coniferous forest, chaparral, cismontane woodland.
Hirshberg's rock cress	<i>Arabis hirshbergiae</i>			1B.2	Pebble (or pavement) plains.
Jacumba milk-vetch	<i>Astragalus douglasii</i> var. <i>perstrictus</i>			1B.2	Chaparral, cismontane woodland, valley and foothill grassland.
Jaeger's milk-vetch	<i>Astragalus pachypus</i> var. <i>jaegeri</i>			1B.1	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland.
Jennifer's monardella	<i>Monardella stoneana</i>			1B.2	Coastal scrub, chaparral, closed cone coniferous forest, riparian scrub.
La Purisima viguiera	<i>Viguiera purisimae</i>			2.3	Coastal sage scrub, chaparral.
Laguna Mountains alumroot	<i>Heuchera brevistaminea</i>			1B.3	Broadleaved upland forest, chaparral, cismontane woodland, riparian forest.
Laguna Mountains goldenbush	<i>Ericameria cuneata</i> var. <i>macrocephala</i>			1B.3	Chaparral.
Lakeside ceanothus	<i>Ceanothus cyaneus</i>			1B.2	Closed-cone coniferous forest, chaparral.
Las Animas colubrina	<i>Colubrina californica</i>			2.3	Mojavean desert scrub.
little mousetail	<i>Myosurus minimus</i> ssp. <i>apus</i>			3.1	Vernal pools.
Little San Bernardino Mtns. linanthus	<i>Linanthus maculatus</i>			1B.2	Desert dunes, Sonoran desert scrub, Mojavean desert scrub, Joshua tree woodland.

## Appendix C. Biological Resources Tables

Table C-1 (Continued)

Common Name	Scientific Name	Federal Status	State Status	CNPS List	Habitat Associations
long-spined spineflower	<i>Chorizanthe polygonoides</i> var. <i>longispina</i>			1B.2	Chaparral, coastal scrub, meadows, valley and foothill grassland.
many-stemmed dudleya	<i>Dudleya multicaulis</i>			1B.2	Chaparral, coastal scrub, valley and foothill grassland.
mesa horkelia	<i>Horkelia cuneata</i> ssp. <i>puberula</i>			1B.1	Chaparral, cismontane woodland, coastal scrub.
Mexican flannelbush	<i>Fremontodendron mexicanum</i>	FE	SR	1B.1	Closed-cone coniferous forest, chaparral, cismontane woodland.
Mexican hulsea	<i>Hulsea mexicana</i>			2.3	Chaparral.
Mission Canyon bluecup	<i>Githopsis diffusa</i> ssp. <i>filicaulis</i>			3.1	Chaparral.
Mojave tarplant	<i>Deinandra mohavensis</i>		SE	1B.3	Riparian scrub, chaparral.
Moran's navarretia	<i>Navarretia fossalis</i>	FT		1B.1	Vernal pools, chenopod scrub, marshes and swamps, playas.
Moreno currant	<i>Ribes canthariforme</i>			1B.3	Chaparral.
Mount Laguna aster	<i>Dieteria asteroides</i> var. <i>lagunensis</i>		SR	2.1	Cismontane woodland, lower montane coniferous forest.
Mountain Springs bush lupine	<i>Lupinus excubitus</i> var. <i>medius</i>			1B.3	Pinyon and juniper woodland, Sonoran desert scrub.
mud nama	<i>Nama stenocarpum</i>			2.2	Marshes and swamps.
Munz's sage	<i>Salvia munzii</i>			2.2	Coastal scrub, chaparral.
Nevin's barberry	<i>Berberis nevinii</i>	FE	SE	1B.1	Chaparral, cismontane woodland, coastal scrub, riparian scrub.
Nuttall's lotus	<i>Lotus nuttallianus</i>			1B.1	Coastal dunes, coastal scrub.
Nuttall's scrub oak	<i>Quercus dumosa</i>			1B.1	Closed-cone coniferous forest, chaparral, coastal scrub.
oil neststraw	<i>Stylocline citroleum</i>			1B.1	Chenopod scrub, coastal scrub?
Orcutt's bird's-beak	<i>Cordylanthus orcuttianus</i>			2.1	Coastal scrub.
Orcutt's dudleya	<i>Dudleya attenuata</i> ssp. <i>orcuttii</i>			2.1	Coastal scrub, coastal bluff scrub, chaparral.
Orcutt's hazardia	<i>Hazardia orcuttii</i>	FC	ST	1B.1	Chaparral, coastal scrub.
Orcutt's linanthus	<i>Linanthus orcuttii</i>			1B.3	Chaparral, lower montane coniferous forest.
Orcutt's pincushion	<i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i>			1B.1	Coastal bluff scrub, coastal dunes.
Orcutt's spineflower	<i>Chorizanthe orcuttiana</i>	FE	SE	1B.1	Coastal scrub, chaparral, closed-cone coniferous forest.
Orcutt's woody-aster	<i>Xylorhiza orcuttii</i>			1B.2	Sonoran desert scrub.
Otay manzanita	<i>Arctostaphylos otayensis</i>			1B.2	Chaparral, cismontane woodland.
Otay Mesa mint	<i>Pogogyne nudiuscula</i>	FE	SE	1B.1	Vernal pools.
Otay Mountain ceanothus	<i>Ceanothus otayensis</i>			1B.2	Chaparral.
Otay Mountain lotus	<i>Lotus crassifolius</i> var. <i>otayensis</i>			1B.1	Chaparral.
Otay tarplant	<i>Deinandra conjugens</i>	FT	SE	1B.1	Coastal scrub, valley and foothill grassland.
Palmer's frankenia	<i>Frankenia palmeri</i>			2.1	Coastal dunes, marshes (coastal salt), playas.
Palmer's goldenbush	<i>Ericameria palmeri</i> ssp. <i>palmeri</i>			2.2	Coastal scrub, chaparral.

## Appendix C. Biological Resources Tables

Table C-1 (Continued)

Common Name	Scientific Name	Federal Status	State Status	CNPS List	Habitat Associations
Parish's brittlescale	<i>Atriplex parishii</i>			1B.1	Alkali meadows, vernal pools, chenopod scrub, playas.
Parish's chaenactis	<i>Chaenactis parishii</i>			1B.3	Chaparral.
Parish's desert-thorn	<i>Lycium parishii</i>			2.3	Coastal scrub, Sonoran desert scrub.
Parish's meadowfoam	<i>Limnanthes gracilis</i> ssp. <i>parishii</i>		SE	1B.2	Meadows and seeps, vernal pools.
Parry's tetracoccus	<i>Tetracoccus dioicus</i>			1B.2	Chaparral, coastal scrub.
Payson's jewel-flower	<i>Caulanthus simulans</i>			4.2	Chaparral, coastal scrub.
Peirson's milk-vetch	<i>Astragalus magdalenae</i> var. <i>peirsonii</i>	FT	SE	1B.2	Desert dunes.
Peirson's pincushion	<i>Chaenactis carphoclinia</i> var. <i>peirsonii</i>			1B.3	Sonoran desert scrub.
Pendleton button-celery	<i>Eryngium pendletonensis</i>			1B.1	Coastal bluff scrub, valley and foothill grassland, vernal pools.
Peninsular manzanita	<i>Arctostaphylos peninsularis</i> ssp. <i>peninsularis</i>			2.3	Chaparral.
pink fairy-duster	<i>Calliandra eriophylla</i>			2.3	Sonoran desert scrub.
prostrate vernal pool navaretia	<i>Navaretia prostrata</i>			1B.1	Coastal scrub, valley and foothill grassland, vernal pools.
purple stemodia	<i>Stemodia durantifolia</i>			2.1	Sonoran desert scrub.
pygmy lotus	<i>Lotus haydonii</i>			1B.3	Sonoran desert scrub, pinyon-juniper woodland.
Rainbow manzanita	<i>Arctostaphylos rainbowensis</i>			1B.1	Chaparral.
Ramona horkelia	<i>Horkelia truncata</i>			1B.3	Chaparral, cismontane woodland.
Robinson's pepper-grass	<i>Lepidium virginicum</i> var. <i>robinsonii</i>			1B.2	Chaparral, coastal scrub.
round-leaved filaree	<i>California macrophylla</i>			1B.1	Cismontane woodland, valley and foothill grassland.
salt marsh bird's-beak	<i>Cordylanthus maritimus</i> ssp. <i>maritimus</i>	FE	SE	1B.2	Coastal salt marsh, coastal dunes.
Salt Spring checkerbloom	<i>Sidalcea neomexicana</i>			2.2	Alkali playas, brackish marshes, chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub.
San Bernardino aster	<i>Symphotrichum defoliatum</i>			1B.2	Meadows and seeps, marshes and swamps, coastal scrub, cismontane woodland, lower montane coniferous forest, grassland.
San Diego barrel cactus	<i>Ferocactus viridescens</i>			2.1	Chaparral, Diegan coastal scrub, valley and foothill grassland.
San Diego bur-sage	<i>Ambrosia chenopodiifolia</i>			2.1	Coastal scrub mostly associated with maritime succulent scrub.
San Diego button-celery	<i>Eryngium aristulatum</i> var. <i>parishii</i>	FE	SE	1B.1	Vernal pools, coastal scrub, valley and foothill grassland.
San Diego County alumroot	<i>Heuchera rubescens</i> var. <i>versicolor</i>			2.3	Chaparral, lower montane coniferous forest.
San Diego gumplant	<i>Grindelia hirsutula</i> var. <i>hallii</i>			1B.2	Meadows, valley and foothill grassland, chaparral, lower montane coniferous forest.
San Diego marsh-elder	<i>Iva hayesiana</i>			2.2	Marshes and swamps, playas.
San Diego mesa mint	<i>Pogogyne abramsii</i>	FE	SE	1B.1	Vernal pools.

Table C-1 (Continued)

Common Name	Scientific Name	Federal Status	State Status	CNPS List	Habitat Associations
San Diego milk-vetch	<i>Astragalus oocarpus</i>			1B.2	Chaparral, cismontane woodland, meadows.
San Diego sagewort	<i>Artemisia palmeri</i>			4.2	Coastal scrub, chaparral, riparian forest, riparian woodland.
San Diego sand aster	<i>Corethrogyne filaginifolia</i> var. <i>incana</i>			1B.1	Coastal scrub, coastal bluff scrub, chaparral.
San Diego sunflower	<i>Hulsea californica</i>			1B.3	Lower montane coniferous forest, upper montane coniferous forest, chaparral.
San Diego thorn-mint	<i>Acanthomintha ilicifolia</i>	FT	SE	1B.1	Chaparral, coastal scrub, valley and foothill grassland, vernal pools.
San Felipe monardella	<i>Monardella nana</i> ssp. <i>leptosiphon</i>			1B.2	Chaparral, lower montane coniferous forest.
San Miguel savory	<i>Satureja chandleri</i>			1B.2	Chaparral, cismontane woodland, coastal scrub, riparian woodland, valley and foothill grassland.
sand-loving wallflower	<i>Erysimum ammophilum</i>			1B.2	Chaparral (maritime), coastal dunes, coastal scrub.
Santa Catalina Island currant	<i>Ribes viburnifolium</i>			1B.2	Chaparral.
Santa Rosa Mountains leptosiphon	<i>Leptosiphon floribundus</i> ssp. <i>hallii</i>			1B.3	Sonoran desert scrub.
sea dahlia	<i>Coreopsis maritima</i>			2.2	Coastal scrub, coastal bluff scrub.
short-leaved dudleya	<i>Dudleya brevifolia</i>		SE	1B.1	Chaparral, coastal scrub.
short-sepaled lewisia	<i>Lewisia brachycalyx</i>			2.2	Lower montane coniferous forest, meadows.
single-leaved skunkbrush	<i>Rhus trilobata</i> var. <i>simplicifolia</i>			2.3	Pinyon-juniper woodland.
singlewhorl burrobrush	<i>Ambrosia monogyra</i>			2.2	Chaparral, Sonoran desert scrub.
slender cottonheads	<i>Nemacaulis denudata</i> var. <i>gracilis</i>			2.2	Coastal dunes, desert dunes, Sonoran desert scrub.
slender-leaved ipomopsis	<i>Ipomopsis tenuifolia</i>			2.3	Chaparral, pinyon and juniper woodland, Sonoran desert scrub.
small-leaved rose	<i>Rosa minutifolia</i>		SE	2.1	Coastal scrub, chaparral.
smooth tarplant	<i>Centromadia pungens</i> ssp. <i>laevis</i>			1B.1	Valley and foothill grassland, chenopod scrub, meadows, playas, riparian woodland.
snake cholla	<i>Opuntia californica</i> var. <i>californica</i>			1B.1	Chaparral, coastal scrub.
South Coast saltscale	<i>Atriplex pacifica</i>			1B.2	Coastal scrub, coastal bluff scrub, playas, chenopod scrub.
southern jewel-flower	<i>Streptanthus campestris</i>			1B.3	Chaparral, lower montane coniferous forest, pinyon-juniper woodland.
southern mountains skullcap	<i>Scutellaria bolanderi</i> ssp. <i>austromontana</i>			1B.2	Chaparral, cismontane woodland, lower montane coniferous forest.
southern tarplant	<i>Centromadia parryi</i> ssp. <i>australis</i>			1B.1	Marshes and swamps (margins), valley and foothill grassland.
spearleaf	<i>Matelea parvifolia</i>			2.3	Mojavean desert scrub, Sonoran desert scrub.
sticky dudleya	<i>Dudleya viscida</i>			1B.2	Coastal scrub, coastal bluff scrub, chaparral.
sticky geraea	<i>Geraea viscida</i>			2.3	Chaparral.



Appendix C. Biological Resources Tables

**Table C-1 (Continued)**

Common Name	Scientific Name	Federal Status	State Status	CNPS List	Habitat Associations
summer holly	<i>Comarostaphylis diversifolia</i> ssp. <i>diversifolia</i>			1B.2	Chaparral.
Tecate tarplant	<i>Deinandra floribunda</i>			1B.2	Chaparral, coastal scrub.
vanishing wild buckwheat	<i>Eriogonum evanidum</i>			1B.2	Chaparral, lower montane coniferous forest, pinyon and juniper woodland.
variegated dudleya	<i>Dudleya variegata</i>			1B.2	Chaparral, coastal scrub, cismontane woodland, valley and foothill grassland.
velvety false lupine	<i>Thermopsis californica</i> var. <i>semota</i>			1B.2	Lower montane coniferous forest, meadows and seeps, cismontane woodland, valley and foothill grassland.
Warner Springs lessingia	<i>Lessingia glandulifera</i> var. <i>tomentosa</i>			1B.3	Chaparral.
wart-stemmed ceanothus	<i>Ceanothus verrucosus</i>			2.2	Chaparral.
white rabbit-tobacco	<i>Pseudognaphalium leucocephalum</i>			2.2	Riparian woodland, cismontane woodland, coastal scrub, chaparral.
Wiggins' cholla	<i>Opuntia wigginsii</i>			3.3	Sonoran desert scrub.
willow monardella	<i>Monardella viminea</i>	FE	SE	1B.1	Coastal scrub/alluvial ephemeral washes with adjacent coastal scrub, chaparral, or sycamore woodland.

Source: DFG 2008a

**Table C2. Special Status Wildlife Species with a Potential to Occur Within San Diego County**

Common Name	Scientific Name	Federal Status	State Status	Habitat
<b>AMPHIBIANS</b>				
Arroyo toad	<i>Bufo californicus</i>	FE	CSC	Semi-arid regions near washes, rivers, or intermittent streams, including valley-foothill and desert riparian areas and desert washes.
California red-legged frog	<i>Rana aurora draytonii</i>	FT	CSC	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby, or emergent riparian vegetation.
Coast Range newt	<i>Taricha torosa torosa</i>		CSC	Lives in terrestrial habitats and will migrate over 1 km to breed in ponds, reservoirs, coastal drainages, or slow moving streams.
Large-blotched salamander	<i>Ensatina klauberi</i>		CSC	Conifer and woodland associations.
Sierra Madre yellow-legged frog	<i>Rana muscosa</i>	FE	CSC	Always encountered within a few feet of water, federal listing refers to populations in the San Gabriel, San Jacinto and San Bernardino mountains only.
Western spadefoot	<i>Spea hammondi</i>		CSC	Occurs primarily in ponds located in grassland habitats, but can be found in valley-foothill hardwood woodlands.
<b>BIRDS</b>				
American peregrine falcon	<i>Falco peregrinus anatum</i>	FDel	SE	Found near wetlands, lakes, rivers, or other water or on cliffs, banks, dunes, or mounds.
Bank swallow	<i>Riparia riparia</i>		ST	Nests primarily in riparian and other lowland habitats west of the desert.
Belding's savannah sparrow	<i>Passerculus sandwichensis beldingi</i>		SE	Inhabits coastal salt marshes.
Bell's sage sparrow	<i>Amphispiza belli belli</i>			Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range.
Burrowing owl	<i>Athene cunicularia</i>		CSC	Open, dry annual, or perennial grasslands, deserts and scrublands characterized by low-growing vegetation.
California black rail	<i>Laterallus jamaicensis coturniculus</i>		ST	Inhabits freshwater marshes, wet meadows, and shallow margins of saltwater marshes bordering larger bays.
California brown pelican	<i>Pelecanus occidentalis californicus</i>	FE	SE	Found on coastal islands just outside the surf line.
California horned lark	<i>Eremophila alpestris actia</i>			Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, and alkali flats.
California least tern	<i>Sternula antillarum browni</i>	FE	SE	Nests along the coast on bare or sparsely vegetated, flat substrates, such as sand beaches, alkali flats, land fills, or paved areas.
Coastal cactus wren	<i>Campylorhynchus brunneicapillus sandiegensis</i>		CSC	Coastal sage scrub with tall <i>Opuntia</i> cactus for nesting and roosting.
Coastal California gnatcatcher	<i>Poliophtila californica californica</i>	FT	CSC	Low, coastal sage scrub in arid washes, on mesas, and on slopes.
Cooper's hawk	<i>Accipiter cooperii</i>			Open, interrupted, or marginal type woodland. Nest sites mainly found in riparian growths of deciduous trees in canyon bottoms on river flood-plains.
Double-crested cormorant	<i>Phalacrocorax auritus</i>			Found on coastal cliffs, offshore islands, and along lake margins in the interior of the State.
Ferruginous hawk	<i>Buteo regalis</i>			Open grasslands, sagebrush flats, desert scrub, low foothills, and fringes of pinyon-juniper habitats.
Golden eagle	<i>Aquila chrysaetos</i>			Rolling foothills, mountain areas, sage-juniper flats, and desert.

Table C-2 (Continued)

Common Name	Scientific Name	Federal Status	State Status	Habitat
Grasshopper sparrow	<i>Ammodramus savannarum</i>		CSC	Favors native grasslands with a mix of grasses, forbs, and scattered shrubs.
Least Bell's vireo	<i>Vireo bellii pusillus</i>	FE	SE	Summer resident of southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft.
Least bittern	<i>Ixobrychus exilis</i>		CSC	Found in marshlands and borders of ponds and reservoirs which provide ample cover.
Light-footed clapper rail	<i>Rallus longirostris levipes</i>	FE	SE	Found in salt marshes traversed by tidal sloughs, where cordgrass and pickleweed are the dominant vegetation.
Loggerhead shrike	<i>Lanius ludovicianus</i>		CSC	Broken woodlands, savannah, pinyon-juniper, joshua tree, and riparian woodlands, desert oasis', scrub and washes.
Long-eared owl	<i>Asio otus</i>		CSC	Riparian bottomlands with tall willows, cottonwoods, or coast live oaks adjacent to open land with ample prey.
Northern harrier	<i>Circus cyaneus</i>		CSC	Coastal salt and fresh-water marsh. Nest and forage in grasslands, from salt grass in desert sink to mountain marshes.
Osprey	<i>Pandion haliaetus</i>			Ocean shore, bays, fresh-water lakes, and larger streams.
Prairie falcon	<i>Falco mexicanus</i>			Inhabits dry, open terrain, either level or hilly.
Southern California rufous-crowned sparrow	<i>Aimophila ruficeps canescens</i>			Found in coastal sage scrub and sparse mixed chaparral.
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	FE	SE	Riparian woodlands.
Tricolored blackbird	<i>Agelaius tricolor</i>		CSC	Requires open water, protected nesting substrate, and foraging area with available insect prey.
Western snowy plover	<i>Charadrius alexandrinus nivosus</i>	FT	CSC	Sandy beaches, salt pond levees, and shores of large alkali lakes.
Western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i>	FC	SE	Riparian forest along broad, lower flood-bottoms of larger river systems.
White-faced ibis	<i>Plegadis chihi</i>			Shallow fresh-water marsh.
White-tailed kite	<i>Elanus leucurus</i>			Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging.
Yellow warbler	<i>Dendroica petechia brewsteri</i>		CSC	Prefers riparian plant associations such as willows, cottonwoods, aspens, sycamores, and alders for nesting and foraging. Also, found in montane shrubbery in open conifer forests.
Yellow-breasted chat	<i>Icteria virens</i>		CSC	Summer resident that inhabits riparian thickets of willow and other brushy tangles near watercourses.
<b>FISH</b>				
Arroyo chub	<i>Gila orcuttii</i>		CSC	Found in Coastal streams with slow water stream sections with mud or sand bottoms.
Desert pupfish	<i>Cyprinodon macularius</i>	FE	SE	Found in desert ponds, springs, marshes, and streams.
Mohave tui chub	<i>Gila bicolor mohavensis</i>	FE	SE	Found in deep pools, ponds, or slough-like areas in the Mojave river basin.
Southern steelhead - southern California ESU	<i>Oncorhynchus mykiss irideus</i>	FE	CSC	Southern extent of range is San Mateo Creek.
Tidewater goby	<i>Eucyclogobius newberryi</i>	FE	CSC	Found in brackish water habitats, shallow lagoons, and lower stream reaches.
Unarmored threespine stickleback	<i>Gasterosteus aculeatus williamsoni</i>	FE	SE	Found in weedy pools, backwaters, and among emergent vegetation at the stream edge in small streams.

Table C-2 (Continued)

Common Name	Scientific Name	Federal Status	State Status	Habitat
<b>MAMMALS</b>				
American badger	<i>Taxidea taxus</i>		CSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.
Big free-tailed bat	<i>Nyctinomops macrotis</i>		CSC	Low-lying arid areas in southern California.
California leaf-nosed bat	<i>Macrotus californicus</i>		CSC	Found in desert riparian, desert wash, desert scrub, desert succulent scrub, alkali scrub and palm oasis habitats.
Colorado Valley woodrat	<i>Neotoma albigula venusta</i>			Found in low-lying desert areas in southeastern California. Closely associated with beaver-tail cactus and mesquite.
Dulzura pocket mouse	<i>Chaetodipus californicus femoralis</i>		CSC	Found in coastal scrub, chaparral, and grasslands.
Fringed myotis	<i>Myotis thysanodes</i>			Optimal habitats are pinyon-juniper, valley foothill hardwood, and hardwood-conifer.
Hoary bat	<i>Lasiurus cinereus</i>			Prefers open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding. Roosts in dense foliage of medium to large trees.
Jacumba pocket mouse	<i>Perognathus longimembris internationalis</i>		CSC	Found in desert riparian, desert scrub, desert wash, coastal scrub, and sagebrush.
Long-legged myotis	<i>Myotis volans</i>			Most common in woodland and forest habitats above 4000 ft.
Los Angeles pocket mouse	<i>Perognathus longimembris brevinasus</i>		CSC	Found in lower elevation grasslands and coastal sage communities.
Mexican long-tongued bat	<i>Choeronycteris mexicana</i>		CSC	Found in desert, montane, riparian, and pinyon-juniper habitats.
Northwestern San Diego pocket mouse	<i>Chaetodipus fallax fallax</i>		CSC	Found in coastal scrub, chaparral, grasslands, and sagebrush.
Pacific pocket mouse	<i>Perognathus longimembris pacificus</i>	FE	CSC	Found within 4 km of the coast on fine-grained sandy substrates in coastal sage scrub, coastal strand, and river alluvium.
Pallid bat	<i>Antrozous pallidus</i>		CSC	Found in deserts, grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting.
Pallid San Diego pocket mouse	<i>Chaetodipus fallax pallidus</i>		CSC	Found in desert washes, desert scrub, desert succulent scrub, and pinyon-juniper in desert border areas in eastern San Diego County.
Peninsular bighorn sheep	<i>Ovis canadensis nelsoni</i>	FE	ST	Open desert slopes below 4,000 ft elevation from San Gorgonio pass south into Mexico.
Pocketed free-tailed bat	<i>Nyctinomops femorosaccus</i>		CSC	Variety of arid areas in southern California including pine-juniper woodlands, desert scrub, palm oasis, desert washes, and desert riparian.
San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>		CSC	Found in coastal sage scrub with intermediate canopy stages of shrub habitats and open shrub / herbaceous and tree / herbaceous edges.
San Diego desert woodrat	<i>Neotoma lepida intermedia</i>		CSC	Moderate to dense canopies of coastal scrub. Abundant in rock outcrops, rocky cliffs, and slopes.
Silver-haired bat	<i>Lasionycteris noctivagans</i>			Forages in or near coniferous and/or mixed deciduous forests adjacent to ponds or other sources of water
Southern grasshopper mouse	<i>Onychomys torridus ramona</i>		CSC	Desert areas, especially scrub habitats with friable soils for digging. Prefers low to moderate shrub cover.
Spotted bat	<i>Euderma maculatum</i>		CSC	Occupies a wide variety of habitats from arid deserts and grasslands through mixed conifer forests.
Stephens' kangaroo rat	<i>Dipodomys stephensi</i>	FE	ST	Primarily found in annual and perennial grasslands, but also occurs in coastal scrub and sagebrush with sparse canopy cover.

Table C-2 (Continued)

Common Name	Scientific Name	Federal Status	State Status	Habitat
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>		CSC	Found in moist coastal forest to semi-desert scrublands, near riparian areas and wetlands.
Western mastiff bat	<i>Eumops perotis californicus</i>		CSC	Found in many open and semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, and chaparral.
Western red bat	<i>Lasiurus blossevillii</i>		CSC	Prefers riparian areas dominated by cottonwoods, oaks, sycamores, and walnuts.
Western small-footed myotis	<i>Myotis ciliolabrum</i>			Found in a wide range of habitats near water, including arid wooded, brushy uplands, and open stands in forests and woodlands. Seeks cover in caves, buildings, mines and crevices
Western yellow bat	<i>Lasiurus xanthinus</i>			Found in valley foothill riparian, desert riparian, desert washes, and palm oasis habitats.
Yuma myotis	<i>Myotis yumanensis</i>			Optimal habitats are open forests and woodlands with sources of water over which to feed.
<b>REPTILES</b>				
Barefoot banded gecko	<i>Coleonyx switaki</i>		ST	Found in arid rocky areas on flatlands, canyons, and thornscrub, especially where there are large boulders and rock outcrops, and where vegetation is sparse.
California mountain kingsnake (San Diego population)	<i>Lampropeltis zonata (pulchra)</i>		CSC	Inhabits a variety of habitats, including valley-foothill hardwood, coniferous, chaparral, riparian, and wet meadows. Restricted to the San Gabriel and San Jacinto mountains of southern California.
Coast (San Diego) horned lizard	<i>Phrynosoma coronatum (blainvillii population)</i>		CSC	Inhabits coastal sage scrub and chaparral in arid and semi-arid climate conditions.
Coast patch-nosed snake	<i>Salvadora hexalepis virgultea</i>		CSC	Brushy or shrubby vegetation in coastal southern California.
Coastal western whiptail	<i>Aspidoscelis tigris stejnegeri</i>			Found in deserts and semiarid areas with sparse vegetation and open areas and in woodland and riparian areas.
Colorado Desert fringe-toed lizard	<i>Uma notata</i>		CSC	Found in sand dunes, dry lakebeds, sandy beaches or riverbanks, desert washes, and sparse desert scrub.
Coronado skink	<i>Eumeces skiltonianus interparietalis</i>		CSC	Found in grassland, chaparral, pinyon-juniper and juniper sage woodland, and pine-oak and pine forests.
Flat-tailed horned lizard	<i>Phrynosoma mcallii</i>		CSC	Restricted to desert washes and desert flats in central Riverside, eastern San Diego, and Imperial counties.
Northern red-diamond rattlesnake	<i>Crotalus ruber ruber</i>		CSC	Found in chaparral, woodland, grassland, and desert areas from coastal San Diego County to the eastern slopes of the mountains.
Orange-throated whiptail	<i>Aspidoscelis hyperythra</i>		CSC	Inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats.
Rosy boa	<i>Charina trivirgata</i>			Found in desert and chaparral habitats from the coast to the Mojave. Prefers moderate to dense vegetation and rocky cover.
San Diego banded gecko	<i>Coleonyx variegatus abbotti</i>			Found in coastal scrub and chaparral habitats.
San Diego ringneck snake	<i>Diadophis punctatus similis</i>			Found in open, fairly rocky areas and in moist areas near intermittent streams.
Silvery legless lizard	<i>Anniella pulchra pulchra</i>		CSC	Occurs in sparsely vegetated areas of beach dunes, chaparral, pine-oak woodlands, desert scrub, sandy washes, and stream terraces with sycamores, cottonwoods, or oaks, where soil is moist.
Southwestern pond turtle	<i>Actinemys marmorata pallida</i>		CSC	Inhabits permanent or nearly permanent bodies of water in many habitat types below 6,000 feet.
Two-striped garter snake	<i>Thamnophis hammondi</i>		CSC	Found in or near permanent fresh water and often along streams with rocky beds and riparian growth.

Table C-2 (Continued)

Common Name	Scientific Name	Federal Status	State Status	Habitat
<b>INVERTEBRATES</b>				
<b>Crustaceans</b>				
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	FE		Found in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub habitats.
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	FE		Vernal pools.
<b>Insects</b>				
A mellitid bee	<i>Melitta californica</i>			Found in desert regions.
Borrego parnopes cuckoo wasp	<i>Parnopes borregoensis</i>			Found in Anza-Borrego State Park
Carlson's dune beetle	<i>Anomala carlsoni</i>			Known primarily from creosote scrub.
Globose dune beetle	<i>Coelus globosus</i>			Found in coastal sand dune habitat.
Harmonius halictid bee	<i>Halictus harmonius</i>			Known only from the foothills of the San Bernardino Mountains and possibly found in San Jacinto Mountains.
Hermes copper butterfly	<i>Lycaena hermes</i>			Found in southern mixed chaparral and coastal sage scrub at western edge of Laguna mountains.
Laguna Mountains skipper	<i>Pyrgus ruralis lagunae</i>	FE		Found open meadows in yellow pine forest between 5,000 and 6,000 ft in the vicinity of Laguna and Palomar Mountains.
Monarch butterfly	<i>Danaus plexippus</i>			Roosts located in wind-protected tree groves, such as eucalyptus, Monterey pine, and cypress trees where nectar and water sources are available.
Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	FE		Sunny openings within chaparral and coastal sage shrublands.
Sandy beach tiger beetle	<i>Cicindela hirticollis grvida</i>			Inhabits areas adjacent to non-brackish water.
Senile tiger beetle	<i>Cicindela senilis frosti</i>			Inhabits marine shoreline including coastal areas, salt marshes, and lakes.
Thorne's hairstreak	<i>Callophrys thornei</i>			Associated with the endemic Tecate cypress ( <i>Cupressus forbesii</i> ).
Wandering (=saltmarsh) skipper	<i>Panoquina errans</i>			Found in southern California coastal salt marshes.
Western beach tiger beetle	<i>Cicindela latesignata latesignata</i>			Found in mudflats and beaches.
Western tidal flat tiger beetle	<i>Cicindela gabbii</i>			Inhabits estuaries and mudflats along the coast of southern California.
<b>Mollusks</b>				
Mesa shoulderband	<i>Helminthoglypta coelata</i>			Found in rock slides, beneath bark and rotten logs, and among coastal vegetation.
Mimic tryonia (=California brackishwater snail)	<i>Tryonia imitator</i>			Inhabits coastal lagoons, estuaries, and salt marshes.
Peak shoulderband	<i>Helminthoglypta milleri</i>			Found in rock piles at Cuyamaca Peak.
Warner Springs shoulderband	<i>Rothelix warnerfontis</i>			Found in wood rat nests near Warner Springs.

## Notes

Federal Status

FE = Federally Endangered

FT = Federally Threatened

FC = Candidate for federal listing

Fdel = Delisted

State Status

SE = State listed as endangered

ST = State listed as threatened

CSC = State Species of Concern

Source: DFG 2008a

**Table C-3. Impacts to Vegetation Communities by CPA and Subregion**

CPA/Subregion	Habitat Impacted	Total Acres Impacted	Total Existing Habitat Acreage
Alpine CPA	Chaparral	4,078.53	39,324.19
	Diegan Coastal Sage Scrub	530.97	3,550.15
	Native Grassland	427.26	662.64
	Southern Coast Live Oak Riparian Forest	405.42	1,473.03
	Coastal Sage-Chaparral Scrub	143.70	2,343.97
	Black Oak Woodland	128.50	918.19
	Engelmann Oak Woodland	103.48	1,438.58
	Coast Live Oak Woodland	64.27	826.49
	Mafic Chaparral	18.34	1,349.42
	Field/Pasture	14.39	39.52
	Southern Cottonwood-willow Riparian Forest	12.51	228.29
	Freshwater	9.50	719.34
	Southern Riparian Forest	9.21	351.38
	Non-Native Grassland	6.65	831.40
	Disturbed Wetland	5.99	379.96
	Southern Riparian Scrub	5.03	45.50
	Southern Sycamore-alder Riparian Woodland	4.84	6.45
	Southern Willow Scrub	4.39	35.17
	Flat-topped Buckwheat*	4.20	73.79
	Riparian Woodlands	3.86	122.14
	Freshwater Marsh	0.12	0.97
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	0.09	121.48
Mule Fat Scrub	0.01	4.53	
Open Water	0.01	399.78	
	<b>Alpine CPA Total</b>	<b>5,981.27</b>	<b>55,246.36</b>
Bonsall CPA	Diegan Coastal Sage Scrub	2,106.07	3,016.71
	Chaparral	1,762.07	2,945.30
	Non-Native Grassland	1,526.80	1,948.43
	Field/Pasture	271.33	663.27
	Coast Live Oak Woodland	243.20	395.70
	Southern Cottonwood-willow Riparian Forest	160.25	600.22
	Southern Willow Scrub	89.56	141.32
	Southern Sycamore-alder Riparian Woodland	79.17	113.43
	Southern Riparian Scrub	68.26	94.21
	Southern Coast Live Oak Riparian Forest	52.18	63.59
	Mule Fat Scrub	44.85	231.89
	Freshwater	29.03	59.51

Table C-3 (Continued)

CPA/Subregion	Habitat Impacted	Total Acres Impacted	Total Existing Habitat Acreage
<i>Bonsall CPA Continued</i>	Native Grassland	28.45	35.21
	Coastal Sage-Chaparral Scrub	13.48	17.68
	Riparian Forests	12.36	12.36
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	7.74	49.24
	Disturbed Wetland	6.84	0
	Mafic Chaparral	5.01	6.68
	Oak Woodland	2.05	2.05
	Tamarisk Scrub	0.82	7.73
	Freshwater Seep	0.07	0.01
	<b>Bonsall CPA Total</b>	<b>6,509.58</b>	<b>10,404.54</b>
Central Mountain Subregion - Cuyamaca	Lower Montane Coniferous Forest	816.70	7,385.20
	Chaparral	137.13	15,755.29
	Englemann Oak Woodland	90.38	1,833.72
	Foothill/Mountain Perennial Grassland*	40.18	942.69
	Montane Chaparral	32.53	1,949.47
	Jeffrey Pine Forest	21.41	4,681.27
	Scrub Oak Chaparral	17.02	304.57
	Native Grassland	16.26	244.71
	Coast Live Oak Woodland	14.31	1,371.99
	Montane Meadow	13.80	677.40
	Coastal Sage-Chaparral Scrub	7.72	416.70
	Southern Coast Live Oak Riparian Forest	6.55	296.64
	Diegan Coastal Sage Scrub	4.88	651.71
	Black Oak Forest	4.61	92.04
	Mafic Chaparral	4.40	1,586.92
	Flat-topped Buckwheat*	2.45	218.86
	Southern Riparian Forest	1.81	383.38
	Mixed Evergreen Forest	1.70	351.14
	Freshwater Seep	1.58	268.68
	Mixed Oak Woodland*	1.48	126.44
	Coast Live Oak Forest	1.36	37.38
	Freshwater	1.05	17.61
	Southern Riparian Scrub	0.82	26.22
	Open Water	0.76	93.46
	Freshwater Marsh	0.56	70.38
	Non-Native Grassland	0.24	132.88
	Black Oak Woodland	0.14	121.37
	Great Basin Scrub	0.02	58.95
White Alder Riparian Forest	0.01	0.09	
Dry Montane Meadows	0.01	1,056.98	
<b>Cuyamaca Total</b>	<b>1,241.86</b>	<b>41,154.14</b>	



Table C-3 (Continued)

CPA/Subregion	Habitat Impacted	Total Acres Impacted	Total Existing Habitat Acreage
Central Mountain Subregion - Descanso	Chaparral	603.39	14,558.57
	Coast Live Oak Woodland	371.99	2,097.36
	Englemann Oak Woodland	49.10	472.67
	Foothill/Mountain Perennial Grassland*	25.48	280.61
	Southern Riparian Scrub	20.75	135.58
	Non-Native Grassland	20.56	98.11
	Southern Coast Live Oak Riparian Forest	15.59	390.04
	Freshwater Seep	10.88	55.64
	Mafic Chaparral	5.38	598.14
	Undifferentiated Open Woodland*	4.85	135.47
	Native Grassland	4.08	75.76
	Freshwater	1.22	12.32
	Diegan Coastal Sage Scrub	1.21	90.56
	Southern Cottonwood-willow Riparian Forest	1.14	83.49
	Coastal Sage-Chaparral Scrub	0.68	50.39
	White Alder Riparian Forest	0.63	8.12
	Flat-topped Buckwheat*	0.53	5.21
	Montane Chaparral	0.48	79.39
	Southern Riparian Forest	0.22	55.24
	Jeffrey Pine Forest	0.14	227.76
<b>Descanso Total</b>	<b>1,138.29</b>	<b>19,540.40</b>	
Central Mountain Subregion - Pine Valley	Chaparral	811.50	46,840.81
	Lower Montane Coniferous Forest	220.79	488.70
	Coast Live Oak Woodland	176.60	3,876.51
	Great Basin Scrub	82.41	787.99
	Jeffrey Pine Forest	75.33	8,472.22
	Mafic Chaparral	75.04	8,383.10
	Foothill/Mountain Perennial Grassland*	55.22	1,016.26
	Flat-topped Buckwheat*	35.34	2,571.67
	Englemann Oak Woodland	27.19	584.52
	Southern Coast Live Oak Riparian Forest	26.03	962.13
	Freshwater Seep	23.60	442.64
	Red Shank Chaparral	23.13	1,512.72
	Native Grassland	21.68	478.32
	Black Oak Forest	19.88	957.06
	Southern Riparian Scrub	13.46	143.29
	Non-Native Grassland	11.67	256.85
	Freshwater	8.68	81.07
	Montane Chaparral	8.34	6,236.52
	Wet Montane Meadow	7.58	806.63
	Montane Meadow	3.28	109.63

**Table C-3 (Continued)**

<b>CPA/Subregion</b>	<b>Habitat Impacted</b>	<b>Total Acres Impacted</b>	<b>Total Existing Habitat Acreage</b>
<i>Central Mountain Subregion - Pine Valley Continued</i>	Southern Riparian Forest	3.15	61.77
	Semi-Desert Chaparral	2.73	1,345.76
	Interior Live Oak Chaparral	2.48	573.17
	Diegan Coastal Sage Scrub	2.05	187.80
	Coast Live Oak Forest	1.77	49.05
	Oak Woodland	1.06	5.90
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	0.93	14.85
	Undifferentiated Open Woodland*	0.92	40.91
	Scrub Oak Chaparral	0.66	533.50
	Disturbed Wetland	0.55	0
	Mixed Oak Woodland*	0.39	2,123.38
	Freshwater Marsh	0.23	1.30
	<b>Pine Valley Total</b>	<b>1,743.68</b>	<b>89,946.03</b>
Central Mountain Subregion - Remainder	Diegan Coastal Sage Scrub	188.12	11,496.84
	Chaparral	153.11	21,994.15
	Englemann Oak Woodland	53.20	2,429.52
	Coast Live Oak Woodland	51.71	2,128.93
	Foothill/Mountain Perennial Grassland*	15.83	133.92
	Coastal Sage-Chaparral Scrub	13.76	2,727.49
	Black Oak Woodland	12.86	522.12
	Wet Montane Meadow	7.80	64.40
	Undifferentiated Open Woodland*	7.05	228.59
	Non-Native Grassland	4.69	351.28
	Southern Coast Live Oak Riparian Forest	3.07	754.57
	Field/Pasture	1.94	18.78
	Freshwater	1.23	315.11
	Native Grassland	1.18	78.41
	Mixed Oak Woodland*	0.85	263.79
	Flat-topped Buckwheat*	0.51	223.26
	Southern Riparian Forest	0.24	842.15
	Freshwater Seep	0.04	5.68
	<b>Central Mountain Remainder</b>	<b>517.19</b>	<b>44,578.99</b>
	<b>Central Mountain Subregion Total</b>	<b>4,641.014</b>	<b>195,219.56</b>
County Islands CPA	Diegan Coastal Sage Scrub	20.55	26.14
	Chaparral	6.89	23.32
	Freshwater Marsh	3.99	3.99
	Southern Riparian Scrub	0.24	0.25
	<b>County Islands CPA Total</b>	<b>31.67</b>	<b>53.70</b>

Table C-3 (Continued)

CPA/Subregion	Habitat Impacted	Total Acres Impacted	Total Existing Habitat Acreage
Crest/Dehesa Subregion	Diegan Coastal Sage Scrub	2,063.90	7,504.93
	Chaparral	1,195.75	5,986.54
	Southern Coast Live Oak Riparian Forest	310.95	639.93
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	149.96	156.16
	Native Grassland	115.42	337.30
	Coastal Sage-Chaparral Scrub	55.53	695.56
	Black Oak Woodland	37.34	174.09
	Southern Riparian Scrub	28.52	29.10
	Freshwater	24.88	24.92
	Southern Riparian Forest	12.82	14.40
	Disturbed Wetland	4.57	0
	Coast Live Oak Woodland	3.18	64.59
	Riparian Woodlands	0.24	27.86
	Open Water	0.08	0.08
	Non-Native Grassland	0.02	0.02
	<b>Crest/Dehesa Subregion Total</b>	<b>4,003.15</b>	<b>15,655.48</b>
Desert Subregion - Borrego Springs	Sonoran Creosote Bush Scrub	8,940.25	33,651.54
	Desert Saltbush Scrub	2,800.52	10,634.39
	Sonoran Desert Mixed Scrub	1,422.84	4,876.13
	Field/Pasture	627.16	990.70
	Mesquite Bosque	571.02	3,029.62
	Encelia Scrub*	327.58	5,414.44
	Desert Dry Wash Woodland	137.23	1,160.84
	Desert Dunes	108.99	456.40
	Sonoran Wash Scrub*	96.35	676.09
	Colorado Desert Wash Scrub*	80.82	234.51
	Desert Sink Scrub	64.75	955.39
	Alkali Playa Community	54.19	1,867.43
	Disturbed Wetland	2.99	0
	Freshwater	1.98	1.98
	Acacia Scrub	0.53	4.22
	Peninsular Pinon and Juniper Woodlands	0.47	4.05
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	0.45	4.11
	Tamarisk Scrub	0.03	0.04
	<b>Borrego Springs Total</b>	<b>15,238.13</b>	<b>63,961.88</b>
Desert Subregion - Remainder	Sonoran Creosote Bush Scrub	1,833.84	184,745.89
	Red Shank Chaparral	279.32	8,944.71
	Sonoran Desert Mixed Scrub	264.50	52,091.14
	Chaparral	210.65	25,014.44
	Semi-Desert Chaparral	166.72	41,609.21

**Table C-3 (Continued)**

<b>CPA/Subregion</b>	<b>Habitat Impacted</b>	<b>Total Acres Impacted</b>	<b>Total Existing Habitat Acreage</b>
<i>Desert Subregion – Remainder Continued</i>	Encelia Scrub*	163.86	59,953.76
	Alkali Playa Community	130.36	139.99
	Mojavean Desert Scrub	127.82	9,275.86
	Desert Dry Wash Woodland	113.39	10,229.42
	Peninsular Pinon and Juniper Woodlands	103.23	39,493.79
	Montane Chaparral	80.09	6,710.91
	Non-Native Grassland	78.98	1,319.78
	Coast Live Oak Forest	64.89	653.60
	Desert Sink Scrub	60.93	687.38
	Flat-topped Buckwheat*	49.60	9,892.29
	Acacia Scrub	26.07	4,264.45
	Sonoran Wash Scrub*	21.75	5,676.52
	Desert Dunes	17.93	385.28
	Disturbed Wetland	15.65	0
	Interior Live Oak Chaparral	14.76	420.24
	Mesquite Bosque	11.32	2,128.66
	Colorado Desert Wash Scrub*	6.26	94.12
	Lower Montane Coniferous Forest	3.27	439.50
	Southern Sycamore-alder Riparian Woodland	2.80	115.76
	Desert Saltbush Scrub	2.43	1,257.77
	Coast Live Oak Woodland	1.89	17.71
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	1.86	526.36
	Montane Meadow	1.62	15.14
	Great Basin Scrub	1.54	391.37
	Stabilized Alkaline Dunes*	1.53	12.27
	Alluvial Fan Scrub	1.08	46.65
	White Alder Riparian Forest	0.92	52.15
	Freshwater	0.60	4.81
	Unvegetated Habitat	0.45	7.21
	Tamarisk Scrub	0.42	64.82
	Field/Pasture	0.35	4.82
	Southern Arroyo Willow Riparian Forest	0.31	133.15
	Alkali Seep	0.23	4.33
Southern Riparian Forest	0.00	38.70	
<b>Remainder Total</b>	<b>3,863.24</b>	<b>466,863.96</b>	
<b>Desert Subregion Total</b>	<b>19,101.37</b>	<b>530,825.84</b>	

Table C-3 (Continued)

CPA/Subregion	Habitat Impacted	Total Acres Impacted	Total Existing Habitat Acreage
Fallbrook CPA	Non-Native Grassland	2,779.07	3,171.99
	Diegan Coastal Sage Scrub	2,051.71	4,072.84
	Coast Live Oak Woodland	1,077.03	1,478.86
	Chaparral	945.79	3,063.72
	Field/Pasture	525.97	586.58
	Southern Cottonwood-willow Riparian Forest	446.38	870.98
	Southern Coast Live Oak Riparian Forest	203.34	290.05
	Southern Sycamore-alder Riparian Woodland	188.94	441.56
	Southern Willow Scrub	127.36	211.96
	Southern Riparian Scrub	60.34	105.23
	Mule Fat Scrub	49.97	106.83
	Freshwater	49.47	72.81
	Native Grassland	29.16	30.08
	Coastal Sage-Chaparral Scrub	24.43	142.10
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	21.66	168.43
	Freshwater Marsh	20.69	22.46
	Coast Live Oak Forest	16.86	21.92
	Disturbed Wetland	7.84	0
	Southern Arroyo Willow Riparian Forest	0.31	0.31
	Alluvial Fan Scrub	0.04	3.30
<b>Fallbrook CPA Total</b>	<b>8,626.35</b>	<b>14,862.34</b>	
Jamul/Dulzura Subregion	Chaparral	6,592.60	49,828.61
	Diegan Coastal Sage Scrub	3,831.35	29,629.18
	Coast Live Oak Woodland	691.07	2,871.20
	Southern Coast Live Oak Riparian Forest	491.91	1,968.84
	Native Grassland	458.11	1,214.96
	Coastal Sage-Chaparral Scrub	329.01	2,091.99
	Engelmann Oak Woodland	156.81	816.74
	Non-Native Grassland	70.12	241.15
	Field/Pasture	55.85	130.14
	Disturbed Wetland	30.51	77.30
	Coast Live Oak Forest	21.60	92.07
	Southern Riparian Scrub	18.75	232.11
	Flat-topped Buckwheat*	18.64	45.81
	Scrub Oak Chaparral	17.69	2,290.95
	Alkali Marsh	16.90	88.04
	Mafic Chaparral	16.56	2,216.95
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	11.37	71.45
Southern Interior Cypress Forest	9.91	1,035.85	

**Table C-3 (Continued)**

<b>CPA/Subregion</b>	<b>Habitat Impacted</b>	<b>Total Acres Impacted</b>	<b>Total Existing Habitat Acreage</b>
<i>Jamul/Dulzura Subregion Continued</i>	Southern Riparian Forest	8.85	168.55
	Freshwater	7.50	790.63
	Freshwater Marsh	7.23	54.73
	<b>Jamul/Dulzura Subregion Total</b>	<b>12,862.32</b>	<b>95,957.25</b>
Julian CPA	Lower Montane Coniferous Forest	3,588.55	14,275.70
	Chaparral	676.58	5,890.26
	Mixed Oak Woodland*	529.91	2,943.95
	Coast Live Oak Woodland	265.70	1,089.27
	Foothill/Mountain Perennial Grassland*	236.52	1,256.26
	Engelmann Oak Woodland	210.81	1,429.01
	Native Grassland	180.36	1,238.22
	Field/Pasture	146.02	499.62
	Wet Montane Meadow	65.00	236.46
	Diegan Coastal Sage Scrub	43.12	578.54
	Montane Chaparral	33.39	279.60
	White Alder Riparian Forest	32.42	100.93
	Southern Coast Live Oak Riparian Forest	24.11	175.09
	Dry Montane Meadows	20.57	264.42
	Non-Native Grassland	19.17	851.04
	Southern Riparian Forest	16.54	198.08
	Undifferentiated Open Woodland*	16.21	68.60
	Freshwater	11.50	68.87
	Great Basin Scrub	3.07	78.37
	Jeffrey Pine Forest	1.70	13.57
	Montane Meadow	1.10	8.96
	Freshwater Seep	1.05	8.47
	Flat-topped Buckwheat*	1.03	2.05
	Southern Riparian Scrub	1.02	6.79
	Disturbed Wetland	0.12	0
	Unvegetated Habitat	0.02	0.14
	<b>Julian CPA Total</b>	<b>6,125.60</b>	<b>31,562.27</b>
Lakeside CPA	Diegan Coastal Sage Scrub	3,941.55	11,930.16
	Chaparral	1,621.95	14,721.92
	Native Grassland	350.87	679.59
	Southern Coast Live Oak Riparian Forest	268.89	531.59
	Black Oak Woodland	226.65	737.45
	Coastal Sage-Chaparral Scrub	139.74	592.97
	Southern Riparian Scrub	115.33	284.00
	Freshwater	41.15	879.38
	Coast Live Oak Woodland	38.80	718.90
	Southern Riparian Forest	33.96	38.57
	Disturbed Wetland	17.04	16.12

**Table C-3 (Continued)**

<b>CPA/Subregion</b>	<b>Habitat Impacted</b>	<b>Total Acres Impacted</b>	<b>Total Existing Habitat Acreage</b>
<i>Lakeside CPA Continued</i>	Non-Native Grassland	16.65	100.05
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	10.68	118.13
	Riparian Woodlands	5.27	30.53
	Field/Pasture	3.60	22.00
	Open Water	3.53	161.86
	Engelmann Oak Woodland	0.93	0.93
	Freshwater Marsh	0.84	6.40
	Freshwater Seep	0.16	0.91
	Mule Fat Scrub	0.07	5.10
	Southern Cottonwood-willow Riparian Forest	0.01	0.23
	Southern Willow Scrub	0.01	2.68
	<b>Lakeside CPA Total</b>	<b>6,837.68</b>	<b>31,579.47</b>
	Mountain Empire Subregion - Boulevard	Chaparral	1,989.08
Red Shank Chaparral		618.24	8,240.37
Semi-Desert Chaparral		422.89	8,942.77
Coast Live Oak Woodland		268.62	2,000.02
Field/Pasture		116.06	947.13
Flat-topped Buckwheat*		74.25	2,032.96
Alkali Seep		47.93	326.47
Non-Native Grassland		42.43	776.65
Southern Coast Live Oak Riparian Forest		26.13	190.18
Great Basin Scrub		17.20	309.80
Upper Sonoran Subshrub Scrub		13.02	242.95
Freshwater Seep		9.82	218.99
Southern Riparian Scrub		7.36	69.43
Native Grassland		6.99	111.79
Alkali Marsh		5.24	87.06
Wet Montane Meadow		5.07	40.58
Freshwater		4.78	61.25
Freshwater Marsh		3.60	69.57
Southern Riparian Forest		3.41	13.65
Encelia Scrub*		3.10	436.94
Acacia Scrub		2.14	223.97
Coast Live Oak Forest		1.30	23.22
Disturbed Wetland		0.32	0
Non-Vegetated Channel, Floodway, Lakeshore Fringe		0.25	7.67
<b>Boulevard Total</b>	<b>3,689.22</b>	<b>52,635.50</b>	

Table C-3 (Continued)

CPA/Subregion	Habitat Impacted	Total Acres Impacted	Total Existing Habitat Acreage
Mountain Empire Subregion - Jacumba	Semi-Desert Chaparral	985.27	9,550.44
	Sonoran Desert Mixed Scrub	598.38	2,535.35
	Field/Pasture	315.61	319.45
	Desert Saltbush Scrub	227.21	731.84
	Alkali Seep	204.37	204.37
	Colorado Desert Wash Scrub*	124.31	244.36
	Acacia Scrub	76.37	139.27
	Upper Sonoran Subshrub Scrub	65.37	3,309.78
	Peninsular Pinon and Juniper Woodlands	54.62	2,634.78
	Red Shank Chaparral	37.20	326.79
	Mesquite Bosque	30.20	75.82
	Southern Riparian Forest	24.98	38.45
	Tamarisk Scrub	13.61	76.05
	Southern Riparian Scrub	9.02	24.56
	Encelia Scrub*	8.39	242.56
	Freshwater	2.61	5.43
	Flat-topped Buckwheat*	1.81	551.15
	Coast Live Oak Woodland	0.47	7.44
	Mojavean Desert Scrub	0.41	6.48
	Desert Dry Wash Woodland	0.14	0.14
Chaparral	0.12	1.89	
Disturbed Wetland	0.11	0	
Alkali Marsh	0.03	0.54	
<b>Jacumba Total</b>	<b>2,780.61</b>	<b>21,026.94</b>	
Mountain Empire Subregion - Lake Morena/Campo	Chaparral	3,662.56	9,214.18
	Coast Live Oak Woodland	478.72	3,735.59
	Field/Pasture	387.20	1,631.26
	Southern Coast Live Oak Riparian Forest	81.66	460.12
	Coastal Sage-Chaparral Scrub	76.77	1,177.74
	Alkali Seep	59.91	418.50
	Great Basin Scrub	49.94	800.63
	Freshwater Seep	29.57	369.42
	Non-Native Grassland	27.96	1,615.04
	Southern Riparian Scrub	27.62	363.93
	Scrub Oak Chaparral	26.64	922.63
	Foothill/Mountain Perennial Grassland*	26.42	233.30
	Flat-topped Buckwheat*	13.88	268.91
	Freshwater Marsh	12.17	113.02
	Disturbed Wetland	7.13	0
	Freshwater	5.89	278.64
	Red Shank Chaparral	4.61	579.68
Native Grassland	3.07	143.38	



**Table C-3 (Continued)**

<b>CPA/Subregion</b>	<b>Habitat Impacted</b>	<b>Total Acres Impacted</b>	<b>Total Existing Habitat Acreage</b>
<i>Mountain Empire Subregion - Lake Morena/Campo Continued</i>	Southern Willow Scrub	2.63	75.90
	Southern Cottonwood-willow Riparian Forest	1.61	20.90
	Southern Riparian Forest	1.50	17.35
	Alluvial Fan Scrub	1.29	58.74
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	1.12	135.52
	Riparian Forests	0.33	5.29
	<b>Lake Morena/Campo Total</b>	<b>4,990.20</b>	<b>22,639.67</b>
Mountain Empire Subregion - Potrero	Chaparral	1,858.27	17,323.53
	Coast Live Oak Woodland	265.40	846.63
	Coastal Sage-Chaparral Scrub	217.34	1,706.70
	Non-Native Grassland	186.88	1,049.97
	Flat-topped Buckwheat*	95.61	373.47
	Field/Pasture	66.08	137.54
	Freshwater Seep	53.36	438.11
	Diegan Coastal Sage Scrub	46.61	321.62
	Englemann Oak Woodland	26.40	118.51
	Southern Coast Live Oak Riparian Forest	26.09	155.24
	Coast Live Oak Forest	23.00	81.10
	Southern Riparian Scrub	10.87	54.68
	Freshwater Marsh	8.88	21.80
	Freshwater	7.93	32.95
	Disturbed Wetland	3.48	30.49
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	3.28	26.22
	Scrub Oak Chaparral	1.55	116.25
<b>Potrero Total</b>	<b>2,901.01</b>	<b>22,834.81</b>	
Mountain Empire Subregion - Tecate	Chaparral	644.18	4,267.45
	Coastal Sage-Chaparral Scrub	67.86	401.19
	Flat-topped Buckwheat*	45.91	79.89
	Diegan Coastal Sage Scrub	38.12	311.23
	Coast Live Oak Forest	11.66	40.92
	Non-Native Grassland	5.59	32.67
	Coast Live Oak Woodland	3.06	29.87
	Southern Interior Cypress Forest	1.24	9.95
	Southern Coast Live Oak Riparian Forest	0.60	4.80
	Freshwater	0.26	1.17
	<b>Tecate Total</b>	<b>818.48</b>	<b>5,179.14</b>

**Table C-3 (Continued)**

<b>CPA/Subregion</b>	<b>Habitat Impacted</b>	<b>Total Acres Impacted</b>	<b>Total Existing Habitat Acreage</b>
<b>Mountain Empire Subregion - Remainder</b>	Chaparral	196.10	26,821.81
	Semi-Desert Chaparral	109.81	20,914.35
	Montane Chaparral	35.51	2,064.73
	Coast Live Oak Woodland	21.52	1,089.35
	Southern Riparian Scrub	9.46	56.66
	Upper Sonoran Subshrub Scrub	7.21	249.04
	Non-Native Grassland	6.14	143.01
	Flat-topped Buckwheat*	5.41	3,438.97
	Jeffrey Pine Forest	5.35	191.56
	Freshwater Seep	5.19	117.99
	Scrub Oak Chaparral	4.31	1,250.94
	Great Basin Scrub	3.83	195.96
	Native Grassland	3.27	54.11
	Montane Meadow	3.19	52.59
	Acacia Scrub	2.96	1,211.98
	Southern Coast Live Oak Riparian Forest	2.71	80.34
	Red Shank Chaparral	2.54	892.47
	Coast Live Oak Forest	2.18	199.99
Freshwater	1.47	8.64	
<b>Mountain Empire Subregion – Remainder Continued</b>	Sonoran Wash Scrub*	1.17	2,352.75
	Southern Cottonwood-willow Riparian Forest	1.15	167.09
	Southern Riparian Forest	1.09	103.10
	Freshwater Marsh	1.00	22.35
	Sonoran Desert Mixed Scrub	0.99	9,925.09
	Upper Sonoran Ceanothus Chaparral	0.86	33.78
	Southern Arroyo Willow Riparian Forest	0.79	33.76
	Alkali Seep	0.54	11.87
	Interior Live Oak Chaparral	0.53	108.34
	Sonoran Creosote Bush Scrub	0.46	38,038.74
	Encelia Scrub*	0.34	20,559.05
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	0.22	105.88
	Black Oak Forest	0.21	10.09
	Colorado Desert Wash Scrub*	0.12	62.14
	<b>Remainder Total</b>	<b>437.61</b>	<b>130,568.52</b>
	<b>Mountain Empire Subregion Total</b>	<b>15,617.12</b>	<b>254,884.58</b>

Table C-3 (Continued)

CPA/Subregion	Habitat Impacted	Total Acres Impacted	Total Existing Habitat Acreage
North County Metro Subregion - Hidden Meadows	Chaparral	1,912.48	2,865.82
	Diegan Coastal Sage Scrub	1,276.57	1,642.58
	Non-Native Grassland	333.28	353.89
	Coast Live Oak Woodland	195.42	292.93
	Field/Pasture	136.13	139.44
	Southern Coast Live Oak Riparian Forest	79.22	84.04
	Southern Willow Scrub	20.64	33.78
	Coastal Sage-Chaparral Scrub	20.02	33.83
	Southern Cottonwood-willow Riparian Forest	14.31	25.06
	Southern Sycamore-alder Riparian Woodland	8.00	28.78
	Freshwater	3.82	4.05
	Englemann Oak Woodland	3.28	3.28
	Riparian Woodlands	2.42	2.42
	Disturbed Wetland	0.24	0
	Southern Riparian Scrub	0.12	0.12
<b>Hidden Meadows Total</b>	<b>4,005.93</b>	<b>5,510.02</b>	
North County Metro Subregion - Twin Oaks	Chaparral	1,240.62	3,085.92
	Diegan Coastal Sage Scrub	438.48	862.65
	Field/Pasture	134.39	186.44
	Non-Native Grassland	108.87	147.19
	Coastal Sage-Chaparral Scrub	107.29	243.59
	Coast Live Oak Woodland	37.17	63.09
	Southern Sycamore-alder Riparian Woodland	35.27	58.58
	Southern Willow Scrub	21.36	27.38
	Southern Cottonwood-willow Riparian Forest	12.08	12.91
	Southern Coast Live Oak Riparian Forest	8.94	18.29
	Native Grassland	5.47	10.94
	Freshwater	4.34	5.93
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	1.68	3.35
	<b>Twin Oaks Total</b>	<b>2,155.94</b>	<b>4,726.26</b>
North County Metro Subregion - Remainder	Chaparral	2,257.84	12,745.71
	Diegan Coastal Sage Scrub	1,747.69	3,769.83
	Non-Native Grassland	607.73	2,342.66
	Field/Pasture	602.49	739.91
	Native Grassland	420.33	626.17
	Coast Live Oak Woodland	402.87	1,968.82
	Southern Coast Live Oak Riparian Forest	317.41	975.10

Table C-3 (Continued)

CPA/Subregion	Habitat Impacted	Total Acres Impacted	Total Existing Habitat Acreage
<i>North County Metro Subregion – Remainder Continued</i>	Engelmann Oak Woodland	163.43	1,137.92
	Southern Riparian Scrub	100.66	158.78
	Southern Cottonwood-willow Riparian Forest	65.85	140.25
	Freshwater	29.64	209.13
	Coastal Sage-Chaparral Scrub	22.21	183.58
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	11.94	59.57
	Coastal Scrub	11.36	11.36
	Disturbed Wetland	7.89	0
	Freshwater Marsh	6.67	26.88
	Flat-topped Buckwheat*	6.05	51.21
	Southern Sycamore-alder Riparian Woodland	4.53	6.77
	Oak Woodland	2.59	2.91
	Southern Riparian Forest	1.28	10.26
	Southern Willow Scrub	0.96	14.94
	Riparian Woodlands	0.88	0.88
	Meadow and Seep	0.19	1.49
	Mule Fat Scrub	0.10	0.40
	<b>Remainder Total</b>	<b>6,792.58</b>	<b>25,184.53</b>
	<b>North County Metro Subregion Total</b>	<b>12,954.45</b>	<b>35,420.81</b>
	<i>North Mountain Subregion - Palomar Mountain</i>	Mixed Evergreen Forest	608.22
Lower Montane Coniferous Forest		389.56	548.94
Red Shank Chaparral		193.71	19,149.44
Black Oak Woodland		131.46	1,338.36
Chaparral		113.26	17,638.40
Wet Montane Meadow		97.76	1,023.96
Scrub Oak Chaparral		87.65	3,726.81
Foothill/Mountain Perennial Grassland*		84.99	763.11
Coast Live Oak Woodland		44.59	3,356.01
Montane Chaparral		23.03	1,125.10
Non-Native Grassland		20.67	546.05
Native Grassland		11.14	563.57
Flat-topped Buckwheat*		9.70	79.38
Southern Cottonwood-willow Riparian Forest		9.66	192.74
Dry Montane Meadows		8.58	69.93
Englemann Oak Woodland		7.46	166.49
Diegan Coastal Sage Scrub		6.53	1,041.59
Freshwater		5.95	51.36
Black Oak Forest		5.67	3,326.87

**Table C-3 (Continued)**

<b>CPA/Subregion</b>	<b>Habitat Impacted</b>	<b>Total Acres Impacted</b>	<b>Total Existing Habitat Acreage</b>
<i>North Mountain Subregion - Palomar Mountain Continued</i>	Southern Riparian Scrub	5.61	46.65
	Southern Sycamore-alder Riparian Woodland	1.79	167.49
	Southern Coast Live Oak Riparian Forest	1.77	752.59
	Field/Pasture	1.48	19.37
	Coast Live Oak Forest	0.66	192.06
	<b>Palomar Mountain Subregion</b>	<b>1,870.87</b>	<b>66,607.79</b>
<i>North Mountain Subregion - Remainder</i>	Red Shank Chaparral	3,166.37	44,477.84
	Chaparral	2,518.32	57,924.44
	Coast Live Oak Woodland	1,156.99	11,027.54
	Engelmann Oak Woodland	946.03	11,759.40
	Foothill/Mountain Perennial Grassland*	927.96	19,526.08
	Mixed Oak Woodland*	856.27	9,489.47
	Field/Pasture	580.85	4,902.48
	Great Basin Scrub	274.58	1,994.55
	Non-Native Grassland	272.18	5,475.33
	Semi-Desert Chaparral	264.98	5,758.35
	Flat-topped Buckwheat*	240.81	1,921.23
	Montane Chaparral	205.04	8,827.14
	Southern Coast Live Oak Riparian Forest	196.55	1,877.99
	Southern Riparian Forest	164.69	1,003.92
	Lower Montane Coniferous Forest	126.52	7,943.85
	Undifferentiated Open Woodland*	106.52	414.56
	Native Grassland	102.71	1,789.89
	Diegan Coastal Sage Scrub	94.44	3,534.92
	Southern Riparian Scrub	82.79	1,098.11
	Coast Live Oak Forest	52.40	1,775.13
	Acacia Scrub	34.12	3,455.15
	Upper Sonoran Subshrub Scrub	16.39	971.10
	Riversidian Sage Scrub	15.62	220.01
	Coastal Sage-Chaparral Scrub	14.56	5,361.04
	Scrub Oak Chaparral	13.38	1,541.68
	Freshwater	13.09	819.96
	Alluvial Fan Scrub	12.09	196.40
	Mafic Chaparral	11.83	3,533.83
	Wet Montane Meadow	10.97	3,027.29
	Desert Dry Wash Woodland	8.07	472.81
Montane Meadow	6.61	81.40	
Southern Sycamore-alder Riparian Woodland	6.24	240.87	
Southern Cottonwood-willow Riparian Forest	3.99	214.57	

**Table C-3 (Continued)**

<b>CPA/Subregion</b>	<b>Habitat Impacted</b>	<b>Total Acres Impacted</b>	<b>Total Existing Habitat Acreage</b>
<i>North Mountain Subregion – Remainder Continued</i>	Riparian Woodlands	3.34	164.29
	Peninsular Pinon and Juniper Woodlands	3.08	1,091.80
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	2.85	258.62
	Freshwater Seep	2.63	20.40
	Disturbed Wetland	2.38	0
	Southern Arroyo Willow Riparian Forest	1.44	48.91
	Black Oak Forest	0.74	1,357.63
	Mesquite Bosque	0.31	1,017.98
	Interior Live Oak Chaparral	0.15	1,081.08
	Sonoran Desert Mixed Scrub	0.11	62.71
	Sonoran Desert Mixed Scrub	0.10	0.85
	Upper Sonoran Ceanothus Chaparral	0.04	0.31
	<b>Remainder Total</b>	<b>12,521.10</b>	<b>227,762.91</b>
	<b>North Mountain Subregion Total</b>	<b>14,391.97</b>	<b>294,370.70</b>
Otay Subregion	Non-Native Grassland	1,700.50	2,019.10
	Diegan Coastal Sage Scrub	1,249.82	7,929.82
	Native Grassland	539.18	1,529.51
	Chaparral	294.04	8,514.41
	Alkali Marsh	20.98	129.82
	Tamarisk Scrub	14.07	50.93
	Vernal Pool	11.72	423.24
	Maritime Succulent Scrub	6.39	18.68
	Southern Interior Cypress Forest	5.50	4,719.73
	Mafic Chaparral	4.68	5.18
	Disturbed Wetland	3.96	1.34
	Riparian and Bottomland Habitat	3.20	3.20
	Mule Fat Scrub	2.94	33.00
	Freshwater	2.66	848.51
	Southern Willow Scrub	1.64	4.58
	Estuarine	1.38	3.75
	Freshwater Marsh	0.76	29.24
	Scrub Oak Chaparral	0.24	0.71
	Coastal Sage-Chaparral Scrub	0.10	123.55
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	0.04	4.27
<b>Otay Subregion Total</b>	<b>3,863.79</b>	<b>26,392.57</b>	
Pala/Pauma CPA	Chaparral	3,932.20	26,332.12
	Diegan Coastal Sage Scrub	1,859.98	10,676.50
	Non-Native Grassland	1,004.49	4,821.52
	Coast Live Oak Woodland	982.93	4,943.62
	Engelmann Oak Woodland	830.88	6,248.72

**Table C-3 (Continued)**

<b>CPA/Subregion</b>	<b>Habitat Impacted</b>	<b>Total Acres Impacted</b>	<b>Total Existing Habitat Acreage</b>
<i>Pala/Pauma CPA Continued</i>	Native Grassland	306.99	1,171.60
	Lower Montane Coniferous Forest	147.49	2,717.75
	Field/Pasture	112.07	403.78
	Southern Coast Live Oak Riparian Forest	104.92	778.88
	Southern Cottonwood-willow Riparian Forest	85.07	400.49
	Coastal Sage-Chaparral Scrub	66.09	880.44
	Alluvial Fan Scrub	58.43	464.12
	Mule Fat Scrub	54.39	492.48
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	49.24	126.44
	Black Oak Forest	38.82	246.69
	Southern Willow Scrub	34.71	230.82
	Foothill/Mountain Perennial Grassland*	23.65	190.83
	Flat-topped Buckwheat*	21.18	183.78
	Freshwater	21.15	52.64
	Southern Riparian Scrub	11.68	67.70
	Southern Sycamore-alder Riparian Woodland	11.57	116.02
	Meadow and Seep	10.72	84.28
	Disturbed Wetland	10.51	0
	Coast Live Oak Forest	8.12	113.72
	Scrub Oak Chaparral	5.72	45.78
	Freshwater Marsh	4.60	36.92
	Open Water	4.47	35.77
	Southern Riparian Forest	4.37	57.10
Alkali Meadows and Seeps	3.34	26.69	
Coast Range, Klamath and Peninsular Coniferous Forest*	1.93	14.06	
<b>Pala/Pauma CPA Total</b>	<b>9,811.71</b>	<b>61,961.26</b>	
<i>Pendleton/De Luz Subregion</i>	Chaparral	1,489.24	27,060.09
	Upper Sonoran Ceanothus Chaparral	199.45	4,461.91
	Diegan Coastal Sage Scrub	127.58	43,131.76
	Southern Sycamore-alder Riparian Woodland	101.05	1,833.21
	Coast Live Oak Woodland	79.70	1,847.59
	Coastal Sage-Chaparral Scrub	77.55	10,620.27
	Southern Coast Live Oak Riparian Forest	57.19	1,284.24
	Field/Pasture	43.08	329.71
	Native Grassland	35.02	30,144.17
	Englemann Oak Woodland	22.28	3,096.94
	Southern Riparian Scrub	5.78	329.36
	Freshwater	3.95	287.33

Table C-3 (Continued)

CPA/Subregion	Habitat Impacted	Total Acres Impacted	Total Existing Habitat Acreage
<i>Pendleton/De Luz Subregion Continued</i>	Scrub Oak Chaparral	2.93	573.27
	White Alder Riparian Forest	0.87	20.17
	Non-Native Grassland	0.47	13,850.80
	<b>Pendleton/De Luz Subregion Total</b>	<b>2,246.16</b>	<b>138,870.82</b>
Rainbow CPA	Chaparral	1,302.23	4,396.47
	Diegan Coastal Sage Scrub	368.47	841.45
	Non-Native Grassland	211.00	420.35
	Coast Live Oak Woodland	141.72	357.57
	Southern Cottonwood-willow Riparian Forest	58.93	105.80
	Field/Pasture	12.20	12.22
	Freshwater	6.21	9.56
	Southern Coast Live Oak Riparian Forest	0.57	2.28
	Southern Willow Scrub	0.55	2.19
	Disturbed Wetland	0.24	0
	<b>Rainbow CPA Total</b>	<b>2,102.13</b>	<b>6,147.89</b>
Ramona CPA	Chaparral	5,498.76	31,510.29
	Field/Pasture	2,788.50	4,672.78
	Non-Native Grassland	2,008.55	5,560.94
	Diegan Coastal Sage Scrub	1,366.14	7,283.23
	Coastal Sage-Chaparral Scrub	1,215.39	3,854.17
	Coast Live Oak Woodland	802.58	4,148.91
	Native Grassland	565.81	1,442.65
	Southern Coast Live Oak Riparian Forest	319.23	1,292.70
	Engelmann Oak Woodland	242.25	1,871.85
	Southern Riparian Scrub	147.26	388.27
	Flat-topped Buckwheat*	82.79	169.51
	Disturbed Wetland	72.98	21.79
	Southern Cottonwood-willow Riparian Forest	40.97	83.00
	Meadow and Seep	34.62	47.30
	Alkali Seep	29.83	259.86
	Undifferentiated Open Woodland*	14.29	129.63
	Freshwater Marsh	12.45	15.38
	Freshwater Seep	12.19	28.08
	Freshwater	11.80	318.55
	Foothill/Mountain Perennial Grassland*	6.74	53.94
Non-Vegetated Channel, Floodway, Lakeshore Fringe	5.15	23.36	
Southern Sycamore-alder Riparian Woodland	3.89	15.50	
Southern Arroyo Willow Riparian Forest	2.06	6.30	
Mule Fat Scrub	1.68	2.47	



**Table C-3 (Continued)**

<b>CPA/Subregion</b>	<b>Habitat Impacted</b>	<b>Total Acres Impacted</b>	<b>Total Existing Habitat Acreage</b>
<i>Ramona CPA Continued</i>	Southern Willow Scrub	1.39	10.88
	Open Water	0.77	1.49
	Southern Riparian Forest	0.76	51.02
	Vernal Pool	0.18	0.17
	<b>Ramona CPA Total</b>	<b>15,288.98</b>	<b>63,264.02</b>
San Dieguito CPA	Diegan Coastal Sage Scrub	2,849.32	6,066.42
	Chaparral	2,124.73	5,200.15
	Non-Native Grassland	454.86	681.01
	Field/Pasture	447.60	472.49
	Southern Maritime Chaparral	336.76	395.67
	Native Grassland	145.00	269.12
	Southern Sycamore-alder Riparian Woodland	117.11	258.83
	Coastal Sage-Chaparral Scrub	103.77	332.23
	Southern Riparian Scrub	93.78	207.45
	Coast Live Oak Woodland	66.76	131.92
	Freshwater	47.89	306.30
	Disturbed Wetland	27.32	37.88
	Southern Coast Live Oak Riparian Forest	21.10	37.45
	Coastal Scrub	10.60	22.15
	Oak Woodland	9.69	15.77
	Southern Willow Scrub	8.72	34.13
	Scrub Oak Chaparral	8.18	8.57
	Freshwater Marsh	6.69	85.50
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	4.91	62.58
	Alkali Marsh	3.82	33.75
	Mule Fat Scrub	1.82	10.35
	Freshwater Seep	1.64	5.22
	Englemann Oak Woodland	1.34	5.08
	Tamarisk Scrub	0.52	0.52
	Southern Riparian Forest	0.09	0.11
	Southern Arroyo Willow Riparian Forest	0.000	21.37
<b>San Dieguito CPA Total</b>	<b>6,894.00</b>	<b>14,702.02</b>	
Spring Valley CPA	Diegan Coastal Sage Scrub	553.80	896.04
	Native Grassland	117.65	196.07
	Southern Riparian Scrub	49.73	58.59
	Chaparral	32.24	43.52
	Freshwater Marsh	1.29	6.14
	Non-Native Grassland	1.07	0.73
	Freshwater	0.88	0.88
	<b>Spring Valley CPA Total</b>	<b>756.66</b>	<b>1,201.97</b>

**Table C-3 (Continued)**

<b>CPA/Subregion</b>	<b>Habitat Impacted</b>	<b>Total Acres Impacted</b>	<b>Total Existing Habitat Acreage</b>
Sweetwater CPA	Native Grassland	289.83	868.89
	Diegan Coastal Sage Scrub	279.32	2,220.58
	Non-Native Grassland	183.17	244.83
	Southern Riparian Scrub	40.00	83.41
	Coast Live Oak Woodland	23.81	26.42
	Freshwater Marsh	20.00	29.17
	Chaparral	6.13	295.64
	Disturbed Wetland	5.76	21.91
	Southern Riparian Forest	5.61	57.91
	Freshwater	3.25	3.26
	Open Water	0.58	444.80
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	0.05	0.05
	Southern Willow Scrub	0.00	0
	<b>Sweetwater CPA Total</b>	<b>857.53</b>	<b>4,296.87</b>
Valle De Oro CPA	Diegan Coastal Sage Scrub	1,019.88	3,176.79
	Native Grassland	46.48	231.74
	Southern Riparian Forest	41.97	83.64
	Southern Riparian Scrub	30.82	47.33
	Southern Coast Live Oak Riparian Forest	23.40	142.17
	Black Oak Woodland	11.23	14.98
	Riparian Woodlands	5.69	208.13
	Chaparral	4.35	17.48
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	4.31	10.01
	Disturbed Wetland	3.39	17.60
	Freshwater	3.17	5.31
	Non-Native Grassland	3.12	3.12
	Open Water	1.18	17.36
	Coast Live Oak Woodland	0.70	8.27
	Freshwater Marsh	0.53	0.53
<b>Valle De Oro CPA Total</b>	<b>1,200.22</b>	<b>3,984.46</b>	
Valley Center CPA	Chaparral	5,180.51	11,432.80
	Diegan Coastal Sage Scrub	3,077.35	7,215.23
	Non-Native Grassland	2,291.60	3,124.46
	Coast Live Oak Woodland	1,628.11	2,973.30
	Field/Pasture	1,119.71	1,402.25
	Engelmann Oak Woodland	314.34	643.99
	Southern Cottonwood-willow Riparian Forest	291.94	586.80
	Coastal Sage-Chaparral Scrub	146.56	687.90

**Table C-3 (Continued)**

<b>CPA/Subregion</b>	<b>Habitat Impacted</b>	<b>Total Acres Impacted</b>	<b>Total Existing Habitat Acreage</b>
<i>Valley Center CPA Continued</i>	Southern Willow Scrub	82.06	139.56
	Freshwater	55.28	130.96
	Southern Sycamore-alder Riparian Woodland	29.60	47.20
	Mule Fat Scrub	13.94	26.40
	Southern Coast Live Oak Riparian Forest	9.95	33.29
	Freshwater Marsh	7.81	15.98
	Disturbed Wetland	5.20	0.41
	Alluvial Fan Scrub	4.52	9.03
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	2.52	10.55
	Flat-topped Buckwheat*	1.45	2.22
	Native Grassland	1.24	1.65
	Riparian Woodlands	0.01	0.01
	<b>Valley Center CPA Total</b>	<b>14,263.67</b>	<b>28,483.99</b>

Source: DPLU GIS 2008

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