

APPENDIX C
BIOLOGICAL RESOURCES TABLES

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
NON-VASCULAR					
bottle liverwort	<i>Sphaerocarpos drewei</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.
VASCULAR					
Fern					
desert spike-moss	<i>Selaginella eremophila</i>			2.2	Sonoran desert scrub.
Gynosperms					
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.
Angiosperms - Monocotyledons					
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.
Angiosperms - Dicotyledons					
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.

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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>felpense</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>cuyamaca</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.

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Table C-1 (Continued)

Common Name	Scientific Name	Federal Status	State Status	CNPS List	Habitat Associations
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.
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.

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Table C-1 (Continued)

Common Name	Scientific Name	Federal Status	State Status	CNPS List	Habitat Associations
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.
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.

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Table C-1 (Continued)

Common Name	Scientific Name	Federal Status	State Status	CNPS List	Habitat Associations
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.
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 navarretia	<i>Navarretia 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.

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Table C-1 (Continued)

Common Name	Scientific Name	Federal Status	State Status	CNPS List	Habitat Associations
San Diego barrel cactus	<i>Ferocactus viridescens</i>			2.1	Chapparal, 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.
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.

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Table C-1 (Continued)

Common Name	Scientific Name	Federal Status	State Status	CNPS List	Habitat Associations
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.
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.
willowy 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
AMPHIBIANS				
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.
BIRDS				
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>Polioptila 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.
FISH				
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
MAMMALS				
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.
REPTILES				
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 virgulata</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.

Appendix C. Biological Resources Tables

Table C-2 (Continued)

Common Name	Scientific Name	Federal Status	State Status	Habitat
INVERTEBRATES				
Crustaceans				
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.
Insects				
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 gravida</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.
Mollusks				
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
Alpine CPA	Chaparral	4,078.525
	Diegan Coastal Sage Scrub	530.971
	Native Grassland	427.257
	Southern Coast Live Oak Riparian Forest	405.424
	Coastal Sage-Chaparral Scrub	143.696
	Black Oak Woodland	128.502
	Engelmann Oak Woodland	103.477
	Coast Live Oak Woodland	64.266
	Mafic Chaparral	18.339
	Field/Pasture	14.386
	Southern Cottonwood-willow Riparian Forest	12.506
	Freshwater	9.500
	Southern Riparian Forest	9.210
	Non-Native Grassland	6.651
	Disturbed Wetland	5.992
	Southern Riparian Scrub	5.025
	Southern Sycamore-alder Riparian Woodland	4.839
	Southern Willow Scrub	4.392
	Flat-topped Buckwheat*	4.198
	Riparian Woodlands	3.856
	Freshwater Marsh	0.122
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	0.091
Mule Fat Scrub	0.013	
Open Water	0.006	
	Alpine CPA Total	5,981.242
Bonsall CPA	Diegan Coastal Sage Scrub	2,106.066
	Chaparral	1,762.071
	Non-Native Grassland	1,526.801
	Field/Pasture	271.328
	Coast Live Oak Woodland	243.200
	Southern Cottonwood-willow Riparian Forest	160.248
	Southern Willow Scrub	89.555
	Southern Sycamore-alder Riparian Woodland	79.165
	Southern Riparian Scrub	68.264
	Southern Coast Live Oak Riparian Forest	52.179
	Mule Fat Scrub	44.854

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Bonsall CPA Continued</i>	Freshwater	29.030
	Native Grassland	28.454
	Coastal Sage-Chaparral Scrub	13.475
	Riparian Forests	12.359
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	7.744
	Disturbed Wetland	6.838
	Mafic Chaparral	5.013
	Oak Woodland	2.046
	Tamarisk Scrub	0.816
	Freshwater Seep	0.071
	Bonsall CPA Total	6,509.577
Central Mountain Subregion - Cuyamaca	Lower Montane Coniferous Forest	816.695
	Chaparral	137.125
	Englemann Oak Woodland	90.377
	Foothill/Mountain Perennial Grassland*	40.181
	Montane Chaparral	32.532
	Jeffrey Pine Forest	21.411
	Scrub Oak Chaparral	17.020
	Native Grassland	16.263
	Coast Live Oak Woodland	14.307
	Montane Meadow	13.803
	Coastal Sage-Chaparral Scrub	7.717
	Southern Coast Live Oak Riparian Forest	6.548
	Diegan Coastal Sage Scrub	4.880
	Black Oak Forest	4.611
	Mafic Chaparral	4.396
	Flat-topped Buckwheat*	2.448
	Southern Riparian Forest	1.811
	Mixed Evergreen Forest	1.701
	Freshwater Seep	1.584
	Mixed Oak Woodland*	1.481
	Coast Live Oak Forest	1.363
	Freshwater	1.054
	Southern Riparian Scrub	0.822
Open Water	0.757	
Freshwater Marsh	0.558	
Non-Native Grassland	0.243	
Black Oak Woodland	0.136	

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Central Mountain Subregion - Cuyamaca Continued</i>	Great Basin Scrub	0.022
	White Alder Riparian Forest	0.008
	Dry Montane Meadows	0.007
	Cuyamaca Total	1,241.861
Central Mountain Subregion - Descanso	Chaparral	603.388
	Coast Live Oak Woodland	371.994
	Englemann Oak Woodland	49.102
	Foothill/Mountain Perennial Grassland*	25.484
	Southern Riparian Scrub	20.748
	Non-Native Grassland	20.564
	Southern Coast Live Oak Riparian Forest	15.593
	Freshwater Seep	10.879
	Mafic Chaparral	5.375
	Undifferentiated Open Woodland*	4.850
	Native Grassland	4.080
	Freshwater	1.215
	Diegan Coastal Sage Scrub	1.211
	Southern Cottonwood-willow Riparian Forest	1.135
	Coastal Sage-Chaparral Scrub	0.684
	White Alder Riparian Forest	0.626
	Flat-topped Buckwheat*	0.531
	Montane Chaparral	0.477
	Southern Riparian Forest	0.216
	Jeffrey Pine Forest	0.135
Descanso Total	1,138.286	
Central Mountain Subregion - Pine Valley	Chaparral	811.503
	Lower Montane Coniferous Forest	220.786
	Coast Live Oak Woodland	176.602
	Great Basin Scrub	82.412
	Jeffrey Pine Forest	75.331
	Mafic Chaparral	75.042
	Foothill/Mountain Perennial Grassland*	55.217
	Flat-topped Buckwheat*	35.344
	Englemann Oak Woodland	27.193
	Southern Coast Live Oak Riparian Forest	26.031
	Freshwater Seep	23.603
	Red Shank Chaparral	23.131
	Native Grassland	21.679

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Central Mountain Subregion - Pine Valley Continued</i>	Black Oak Forest	19.877
	Southern Riparian Scrub	13.462
	Non-Native Grassland	11.674
	Freshwater	8.682
	Montane Chaparral	8.342
	Wet Montane Meadow	7.583
	Montane Meadow	3.284
	Southern Riparian Forest	3.145
	Semi-Desert Chaparral	2.729
	Interior Live Oak Chaparral	2.481
	Diegan Coastal Sage Scrub	2.051
	Coast Live Oak Forest	1.772
	Oak Woodland	1.062
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	0.928
	Undifferentiated Open Woodland*	0.916
	Scrub Oak Chaparral	0.656
	Disturbed Wetland	0.545
	Mixed Oak Woodland*	0.390
	Freshwater Marsh	0.225
	Pine Valley Total	1,743.679
<i>Central Mountain Subregion - Remainder</i>	Diegan Coastal Sage Scrub	188.120
	Chaparral	153.111
	Englemann Oak Woodland	53.196
	Coast Live Oak Woodland	51.711
	Foothill/Mountain Perennial Grassland*	15.826
	Coastal Sage-Chaparral Scrub	13.761
	Black Oak Woodland	12.864
	Wet Montane Meadow	7.797
	Undifferentiated Open Woodland*	7.052
	Non-Native Grassland	4.689
	Southern Coast Live Oak Riparian Forest	3.069
	Field/Pasture	1.943
	Freshwater	1.225
	Native Grassland	1.177
	Mixed Oak Woodland*	0.853
Flat-topped Buckwheat*	0.514	

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Central Mountain Subregion - Remainder Continued</i>	Southern Riparian Forest	0.236
	Freshwater Seep	0.044
	Central Mountain Remainder	517.188
	Central Mountain Subregion Total	4,641.014
County Islands CPA	Diegan Coastal Sage Scrub	20.553
	Chaparral	6.887
	Freshwater Marsh	3.995
	Southern Riparian Scrub	0.244
	County Islands CPA Total	31.679
Crest/Dehesa Subregion	Diegan Coastal Sage Scrub	2,063.895
	Chaparral	1,195.749
	Southern Coast Live Oak Riparian Forest	310.948
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	149.963
	Native Grassland	115.421
	Coastal Sage-Chaparral Scrub	55.532
	Black Oak Woodland	37.335
	Southern Riparian Scrub	28.520
	Freshwater	24.879
	Southern Riparian Forest	12.817
	Disturbed Wetland	4.569
	Coast Live Oak Woodland	3.181
	Riparian Woodlands	0.243
	Open Water	0.077
	Non-Native Grassland	0.016
Crest/Dehesa Subregion Total	4,003.145	
Desert Subregion - Borrego Springs	Sonoran Creosote Bush Scrub	8,940.248
	Desert Saltbush Scrub	2,800.516
	Sonoran Desert Mixed Scrub	1,422.837
	Field/Pasture	627.161
	Mesquite Bosque	571.021
	Encelia Scrub*	327.579
	Desert Dry Wash Woodland	137.230
	Desert Dunes	108.986
	Sonoran Wash Scrub*	96.346
	Colorado Desert Wash Scrub*	80.818
	Desert Sink Scrub	64.752
	Alkali Playa Community	54.186
	Disturbed Wetland	2.989

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Desert Subregion - Borrego Springs Continued</i>	Freshwater	1.980
	Acacia Scrub	0.527
	Peninsular Pinon and Juniper Woodlands	0.473
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	0.454
	Tamarisk Scrub	0.031
	Borrego Springs Total	15,238.134
<i>Desert Subregion - Remainder</i>	Sonoran Creosote Bush Scrub	1,833.844
	Red Shank Chaparral	279.320
	Sonoran Desert Mixed Scrub	264.498
	Chaparral	210.654
	Semi-Desert Chaparral	166.719
	Encelia Scrub*	163.856
	Alkali Playa Community	130.364
	Mojavean Desert Scrub	127.823
	Desert Dry Wash Woodland	113.394
	Peninsular Pinon and Juniper Woodlands	103.233
	Montane Chaparral	80.094
	Non-Native Grassland	78.980
	Coast Live Oak Forest	64.886
	Desert Sink Scrub	60.932
	Flat-topped Buckwheat*	49.598
	Acacia Scrub	26.072
	Sonoran Wash Scrub*	21.748
	Desert Dunes	17.930
	Disturbed Wetland	15.649
	Interior Live Oak Chaparral	14.761
	Mesquite Bosque	11.324
	Colorado Desert Wash Scrub*	6.255
	Lower Montane Coniferous Forest	3.269
	Southern Sycamore-alder Riparian Woodland	2.797
	Desert Saltbush Scrub	2.434
	Coast Live Oak Woodland	1.891
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	1.861
Montane Meadow	1.615	
Great Basin Scrub	1.542	
Stabilized Alkaline Dunes*	1.530	
Alluvial Fan Scrub	1.078	
White Alder Riparian Forest	0.918	

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Desert Subregion – Remainder Continued</i>	Freshwater	0.601
	Unvegetated Habitat	0.451
	Tamarisk Scrub	0.418
	Field/Pasture	0.347
	Southern Arroyo Willow Riparian Forest	0.313
	Alkali Seep	0.232
	Southern Riparian Forest	0.003
	Remainder Total	3,863.235
	Desert Subregion Total	19,101.369
Fallbrook CPA	Non-Native Grassland	2,779.073
	Diegan Coastal Sage Scrub	2,051.712
	Coast Live Oak Woodland	1,077.030
	Chaparral	945.794
	Field/Pasture	525.969
	Southern Cottonwood-willow Riparian Forest	446.379
	Southern Coast Live Oak Riparian Forest	203.344
	Southern Sycamore-alder Riparian Woodland	188.936
	Southern Willow Scrub	127.355
	Southern Riparian Scrub	60.342
	Mule Fat Scrub	49.967
	Freshwater	49.465
	Native Grassland	29.164
	Coastal Sage-Chaparral Scrub	24.429
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	21.657
	Freshwater Marsh	20.689
	Coast Live Oak Forest	16.861
	Disturbed Wetland	7.843
	Southern Arroyo Willow Riparian Forest	0.305
	Alluvial Fan Scrub	0.038
Fallbrook CPA Total	8,626.352	
Jamul/Dulzura Subregion	Chaparral	6,592.602
	Diegan Coastal Sage Scrub	3,831.350
	Coast Live Oak Woodland	691.070
	Southern Coast Live Oak Riparian Forest	491.911
	Native Grassland	458.107
	Coastal Sage-Chaparral Scrub	329.013
	Engelmann Oak Woodland	156.813
	Non-Native Grassland	70.116

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Jamul/Dulzura Subregion Continued</i>	Field/Pasture	55.847
	Disturbed Wetland	30.505
	Coast Live Oak Forest	21.597
	Southern Riparian Scrub	18.746
	Flat-topped Buckwheat*	18.642
	Scrub Oak Chaparral	17.690
	Alkali Marsh	16.899
	Mafic Chaparral	16.564
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	11.366
	Southern Interior Cypress Forest	9.912
	Southern Riparian Forest	8.845
	Freshwater	7.497
	Freshwater Marsh	7.228
	Jamul/Dulzura Subregion Total	12,862.320
	Julian CPA	Lower Montane Coniferous Forest
Chaparral		676.582
Mixed Oak Woodland*		529.914
Coast Live Oak Woodland		265.701
Foothill/Mountain Perennial Grassland*		236.523
Engelmann Oak Woodland		210.812
Native Grassland		180.363
Field/Pasture		146.019
Wet Montane Meadow		65.004
Diegan Coastal Sage Scrub		43.122
Montane Chaparral		33.388
White Alder Riparian Forest		32.419
Southern Coast Live Oak Riparian Forest		24.107
Dry Montane Meadows		20.566
Non-Native Grassland		19.172
Southern Riparian Forest		16.544
Undifferentiated Open Woodland*		16.209
Freshwater		11.500
Great Basin Scrub		3.069
Jeffrey Pine Forest		1.697
Montane Meadow		1.104
Freshwater Seep	1.051	
Flat-topped Buckwheat*	1.025	

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Julian CPA Continued</i>	Southern Riparian Scrub	1.021
	Disturbed Wetland	0.121
	Unvegetated Habitat	0.018
	Julian CPA Total	6,125.596
Lakeside CPA	Diegan Coastal Sage Scrub	3,941.552
	Chaparral	1,621.950
	Native Grassland	350.870
	Southern Coast Live Oak Riparian Forest	268.890
	Black Oak Woodland	226.651
	Coastal Sage-Chaparral Scrub	139.737
	Southern Riparian Scrub	115.333
	Freshwater	41.147
	Coast Live Oak Woodland	38.800
	Southern Riparian Forest	33.959
	Disturbed Wetland	17.040
	Non-Native Grassland	16.653
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	10.681
	Riparian Woodlands	5.268
	Field/Pasture	3.595
	Open Water	3.529
	Engelmann Oak Woodland	0.931
	Freshwater Marsh	0.843
	Freshwater Seep	0.157
	Mule Fat Scrub	0.069
Southern Cottonwood-willow Riparian Forest	0.014	
Southern Willow Scrub	0.010	
Lakeside CPA Total	6,837.680	
Mountain Empire Subregion - Boulevard	Chaparral	1,989.083
	Red Shank Chaparral	618.243
	Semi-Desert Chaparral	422.885
	Coast Live Oak Woodland	268.619
	Field/Pasture	116.056
	Flat-topped Buckwheat*	74.250
	Alkali Seep	47.928
	Non-Native Grassland	42.426
	Southern Coast Live Oak Riparian Forest	26.130
	Great Basin Scrub	17.197
	Upper Sonoran Subshrub Scrub	13.020

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Mountain Empire Subregion – Boulevard Continued</i>	Freshwater Seep	9.818
	Southern Riparian Scrub	7.359
	Native Grassland	6.987
	Alkali Marsh	5.240
	Wet Montane Meadow	5.073
	Freshwater	4.780
	Freshwater Marsh	3.595
	Southern Riparian Forest	3.413
	Encelia Scrub*	3.102
	Acacia Scrub	2.135
	Coast Live Oak Forest	1.303
	Disturbed Wetland	0.324
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	0.251
	Boulevard Total	3,689.217
	Mountain Empire Subregion - Jacumba	Semi-Desert Chaparral
Sonoran Desert Mixed Scrub		598.377
Field/Pasture		315.612
Desert Saltbush Scrub		227.209
Alkali Seep		204.373
Colorado Desert Wash Scrub*		124.311
Acacia Scrub		76.369
Upper Sonoran Subshrub Scrub		65.374
Peninsular Pinon and Juniper Woodlands		54.615
Red Shank Chaparral		37.202
Mesquite Bosque		30.203
Southern Riparian Forest		24.983
Tamarisk Scrub		13.610
Southern Riparian Scrub		9.017
Encelia Scrub*		8.386
Freshwater		2.607
Flat-topped Buckwheat*		1.809
Coast Live Oak Woodland		0.473
Mojavean Desert Scrub		0.405
Desert Dry Wash Woodland		0.141
Chaparral	0.118	

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Mountain Empire Subregion – Jacumba Continued</i>	Disturbed Wetland	0.110
	Alkali Marsh	0.033
	Jacumba Total	2,780.611
Mountain Empire Subregion - Lake Morena/Campo	Chaparral	3,662.561
	Coast Live Oak Woodland	478.723
	Field/Pasture	387.197
	Southern Coast Live Oak Riparian Forest	81.658
	Coastal Sage-Chaparral Scrub	76.768
	Alkali Seep	59.914
	Great Basin Scrub	49.938
	Freshwater Seep	29.565
	Non-Native Grassland	27.961
	Southern Riparian Scrub	27.620
	Scrub Oak Chaparral	26.642
	Foothill/Mountain Perennial Grassland*	26.417
	Flat-topped Buckwheat*	13.876
	Freshwater Marsh	12.173
	Disturbed Wetland	7.129
	Freshwater	5.893
	Red Shank Chaparral	4.613
	Native Grassland	3.072
	Southern Willow Scrub	2.625
	Southern Cottonwood-willow Riparian Forest	1.612
	Southern Riparian Forest	1.500
	Alluvial Fan Scrub	1.291
Non-Vegetated Channel, Floodway, Lakeshore Fringe	1.118	
Riparian Forests	0.330	
Lake Morena/Campo Total	4,990.196	
Mountain Empire Subregion - Potrero	Chaparral	1,858.272
	Coast Live Oak Woodland	265.395
	Coastal Sage-Chaparral Scrub	217.338
	Non-Native Grassland	186.880
	Flat-topped Buckwheat*	95.605
	Field/Pasture	66.083
	Freshwater Seep	53.356
	Diegan Coastal Sage Scrub	46.607
	Englemann Oak Woodland	26.396
	Southern Coast Live Oak Riparian Forest	26.087

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Mountain Empire Subregion – Potrero Continued</i>	Coast Live Oak Forest	22.998
	Southern Riparian Scrub	10.872
	Freshwater Marsh	8.877
	Freshwater	7.931
	Disturbed Wetland	3.482
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	3.276
	Scrub Oak Chaparral	1.550
	Potrero Total	2,901.005
Mountain Empire Subregion - Tecate	Chaparral	644.180
	Coastal Sage-Chaparral Scrub	67.861
	Flat-topped Buckwheat*	45.911
	Diegan Coastal Sage Scrub	38.123
	Coast Live Oak Forest	11.655
	Non-Native Grassland	5.592
	Coast Live Oak Woodland	3.055
	Southern Interior Cypress Forest	1.244
	Southern Coast Live Oak Riparian Forest	0.600
	Freshwater	0.259
	Tecate Total	818.480
Mountain Empire Subregion - Remainder	Chaparral	196.097
	Semi-Desert Chaparral	109.809
	Montane Chaparral	35.511
	Coast Live Oak Woodland	21.518
	Southern Riparian Scrub	9.460
	Upper Sonoran Subshrub Scrub	7.206
	Non-Native Grassland	6.135
	Flat-topped Buckwheat*	5.414
	Jeffrey Pine Forest	5.351
	Freshwater Seep	5.189
	Scrub Oak Chaparral	4.314
	Great Basin Scrub	3.827
	Native Grassland	3.272
	Montane Meadow	3.190
	Acacia Scrub	2.964
	Southern Coast Live Oak Riparian Forest	2.705
	Red Shank Chaparral	2.543
Coast Live Oak Forest	2.183	
Freshwater	1.467	

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Mountain Empire Subregion – Remainder Continued</i>	Sonoran Wash Scrub*	1.169
	Southern Cottonwood-willow Riparian Forest	1.148
	Southern Riparian Forest	1.093
	Freshwater Marsh	0.995
	Sonoran Desert Mixed Scrub	0.988
	Upper Sonoran Ceanothus Chaparral	0.862
	Southern Arroyo Willow Riparian Forest	0.793
	Alkali Seep	0.539
	Interior Live Oak Chaparral	0.530
	Sonoran Creosote Bush Scrub	0.459
	Encelia Scrub*	0.340
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	0.217
	Black Oak Forest	0.206
	Colorado Desert Wash Scrub*	0.122
	Remainder Total	437.614
	Mountain Empire Subregion Total	15,617.123
North County Metro Subregion - Hidden Meadows	Chaparral	1,912.479
	Diegan Coastal Sage Scrub	1,276.568
	Non-Native Grassland	333.278
	Coast Live Oak Woodland	195.419
	Field/Pasture	136.129
	Southern Coast Live Oak Riparian Forest	79.221
	Southern Willow Scrub	20.640
	Coastal Sage-Chaparral Scrub	20.023
	Southern Cottonwood-willow Riparian Forest	14.305
	Southern Sycamore-alder Riparian Woodland	7.995
	Freshwater	3.822
	Englemann Oak Woodland	3.277
	Riparian Woodlands	2.417
	Disturbed Wetland	0.240
	Southern Riparian Scrub	0.120
Hidden Meadows Total	4,005.934	

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
North County Metro Subregion - Twin Oaks	Chaparral	1,240.624
	Diegan Coastal Sage Scrub	438.478
	Field/Pasture	134.386
	Non-Native Grassland	108.874
	Coastal Sage-Chaparral Scrub	107.286
	Coast Live Oak Woodland	37.170
	Southern Sycamore-alder Riparian Woodland	35.266
	Southern Willow Scrub	21.362
	Southern Cottonwood-willow Riparian Forest	12.075
	Southern Coast Live Oak Riparian Forest	8.938
	Native Grassland	5.468
	Freshwater	4.336
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	1.677
	Twin Oaks Total	2,155.940
North County Metro Subregion - Remainder	Chaparral	2,257.847
	Diegan Coastal Sage Scrub	1,747.689
	Non-Native Grassland	607.731
	Field/Pasture	602.490
	Native Grassland	420.329
	Coast Live Oak Woodland	402.871
	Southern Coast Live Oak Riparian Forest	317.414
	Engelmann Oak Woodland	163.427
	Southern Riparian Scrub	100.655
	Southern Cottonwood-willow Riparian Forest	65.846
	Freshwater	29.636
	Coastal Sage-Chaparral Scrub	22.210
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	11.941
	Coastal Scrub	11.356
	Disturbed Wetland	7.886
	Freshwater Marsh	6.671
	Flat-topped Buckwheat*	6.052
	Southern Sycamore-alder Riparian Woodland	4.533
	Oak Woodland	2.587
	Southern Riparian Forest	1.282
	Southern Willow Scrub	0.961
	Riparian Woodlands	0.878
	Meadow and Seep	0.186
Mule Fat Scrub	0.101	
Remainder Total	6,792.579	
North County Metro Subregion Total	12,954.453	

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
North Mountain Subregion - Palomar Mountain	Mixed Evergreen Forest	608.218
	Lower Montane Coniferous Forest	389.555
	Red Shank Chaparral	193.710
	Black Oak Woodland	131.458
	Chaparral	113.261
	Wet Montane Meadow	97.756
	Scrub Oak Chaparral	87.652
	Foothill/Mountain Perennial Grassland*	84.991
	Coast Live Oak Woodland	44.590
	Montane Chaparral	23.025
	Non-Native Grassland	20.667
	Native Grassland	11.139
	Flat-topped Buckwheat*	9.695
	Southern Cottonwood-willow Riparian Forest	9.663
	Dry Montane Meadows	8.582
	Englemann Oak Woodland	7.462
	Diegan Coastal Sage Scrub	6.529
	Freshwater	5.948
	Black Oak Forest	5.667
	Southern Riparian Scrub	5.608
	Southern Sycamore-alder Riparian Woodland	1.793
	Southern Coast Live Oak Riparian Forest	1.768
Field/Pasture	1.481	
Coast Live Oak Forest	0.657	
	Palomar Mountain Subregion	1,870.874
North Mountain Subregion - Remainder	Red Shank Chaparral	3,166.369
	Chaparral	2,518.317
	Coast Live Oak Woodland	1,156.985
	Engelmann Oak Woodland	946.026
	Foothill/Mountain Perennial Grassland*	927.959
	Mixed Oak Woodland*	856.268
	Field/Pasture	580.854
	Great Basin Scrub	274.575
	Non-Native Grassland	272.180
	Semi-Desert Chaparral	264.975
	Flat-topped Buckwheat*	240.809
	Montane Chaparral	205.038
	Southern Coast Live Oak Riparian Forest	196.545

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>North Mountain Subregion – Remainder Continued</i>	Southern Riparian Forest	164.688
	Lower Montane Coniferous Forest	126.524
	Undifferentiated Open Woodland*	106.519
	Native Grassland	102.712
	Diegan Coastal Sage Scrub	94.443
	Southern Riparian Scrub	82.794
	Coast Live Oak Forest	52.399
	Acacia Scrub	34.121
	Upper Sonoran Subshrub Scrub	16.390
	Riversidian Sage Scrub	15.622
	Coastal Sage-Chaparral Scrub	14.563
	Scrub Oak Chaparral	13.379
	Freshwater	13.090
	Alluvial Fan Scrub	12.091
	Mafic Chaparral	11.830
	Wet Montane Meadow	10.974
	Desert Dry Wash Woodland	8.068
	Montane Meadow	6.611
	Southern Sycamore-alder Riparian Woodland	6.241
	Southern Cottonwood-willow Riparian Forest	3.988
	Riparian Woodlands	3.343
	Peninsular Pinon and Juniper Woodlands	3.080
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	2.848
	Freshwater Seep	2.631
	Disturbed Wetland	2.377
	Southern Arroyo Willow Riparian Forest	1.435
	Black Oak Forest	0.740
	Mesquite Bosque	0.311
	Interior Live Oak Chaparral	0.149
	Sonoran Desert Mixed Scrub	0.106
	Sonoran Desert Mixed Scrub	0.097
	Upper Sonoran Ceanothus Chaparral	0.038
Remainder Total	12,521.100	
North Mountain Subregion Total	14,391.974	

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
Otay Subregion	Non-Native Grassland	1,700.494
	Diegan Coastal Sage Scrub	1,249.823
	Native Grassland	539.180
	Chaparral	294.035
	Alkali Marsh	20.977
	Tamarisk Scrub	14.068
	Vernal Pool	11.716
	Maritime Succulent Scrub	6.386
	Southern Interior Cypress Forest	5.503
	Mafic Chaparral	4.680
	Disturbed Wetland	3.964
	Riparian and Bottomland Habitat	3.199
	Mule Fat Scrub	2.938
	Freshwater	2.664
	Southern Willow Scrub	1.636
	Estuarine	1.383
	Freshwater Marsh	0.761
	Scrub Oak Chaparral	0.243
	Coastal Sage-Chaparral Scrub	0.101
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	0.042
Otay Subregion Total	3,863.793	
Pala/Pauma CPA	Chaparral	3,932.198
	Diegan Coastal Sage Scrub	1,859.978
	Non-Native Grassland	1,004.492
	Coast Live Oak Woodland	982.930
	Engelmann Oak Woodland	830.883
	Native Grassland	306.986
	Lower Montane Coniferous Forest	147.487
	Field/Pasture	112.069
	Southern Coast Live Oak Riparian Forest	104.920
	Southern Cottonwood-willow Riparian Forest	85.066
	Coastal Sage-Chaparral Scrub	66.092
	Alluvial Fan Scrub	58.433
	Mule Fat Scrub	54.394
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	49.241
	Black Oak Forest	38.816
	Southern Willow Scrub	34.708
Foothill/Mountain Perennial Grassland*	23.651	

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Pala/Pauma CPA Continued</i>	Flat-topped Buckwheat*	21.183
	Freshwater	21.150
	Southern Riparian Scrub	11.679
	Southern Sycamore-alder Riparian Woodland	11.572
	Meadow and Seep	10.722
	Disturbed Wetland	10.510
	Coast Live Oak Forest	8.124
	Scrub Oak Chaparral	5.723
	Freshwater Marsh	4.599
	Open Water	4.471
	Southern Riparian Forest	4.365
	Alkali Meadows and Seeps	3.336
	Coast Range, Klamath and Peninsular Coniferous Forest*	1.934
	Pala/Pauma CPA Total	9,811.711
Pendleton/De Luz Subregion	Chaparral	1,489.241
	Upper Sonoran Ceanothus Chaparral	199.454
	Diegan Coastal Sage Scrub	127.577
	Southern Sycamore-alder Riparian Woodland	101.052
	Coast Live Oak Woodland	79.698
	Coastal Sage-Chaparral Scrub	77.554
	Southern Coast Live Oak Riparian Forest	57.192
	Field/Pasture	43.079
	Native Grassland	35.022
	Englemann Oak Woodland	22.281
	Southern Riparian Scrub	5.781
	Freshwater	3.954
	Scrub Oak Chaparral	2.934
	White Alder Riparian Forest	0.872
Non-Native Grassland	0.470	
Pendleton/De Luz Subregion Total	2,246.161	
Rainbow CPA	Chaparral	1,302.232
	Diegan Coastal Sage Scrub	368.470
	Non-Native Grassland	210.995
	Coast Live Oak Woodland	141.724
	Southern Cottonwood-willow Riparian Forest	58.933
	Field/Pasture	12.204
	Freshwater	6.211

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Rainbow CPA Continued</i>	Southern Coast Live Oak Riparian Forest	0.567
	Southern Willow Scrub	0.547
	Disturbed Wetland	0.244
	Rainbow CPA Total	2,102.127
Ramona CPA	Chaparral	5,498.762
	Field/Pasture	2,788.503
	Non-Native Grassland	2,008.554
	Diegan Coastal Sage Scrub	1,366.140
	Coastal Sage-Chaparral Scrub	1,215.388
	Coast Live Oak Woodland	802.575
	Native Grassland	565.811
	Southern Coast Live Oak Riparian Forest	319.233
	Engelmann Oak Woodland	242.246
	Southern Riparian Scrub	147.260
	Flat-topped Buckwheat*	82.792
	Disturbed Wetland	72.977
	Southern Cottonwood-willow Riparian Forest	40.970
	Meadow and Seep	34.618
	Alkali Seep	29.826
	Undifferentiated Open Woodland*	14.288
	Freshwater Marsh	12.445
	Freshwater Seep	12.185
	Freshwater	11.804
	Foothill/Mountain Perennial Grassland*	6.736
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	5.149
	Southern Sycamore-alder Riparian Woodland	3.887
	Southern Arroyo Willow Riparian Forest	2.063
	Mule Fat Scrub	1.677
	Southern Willow Scrub	1.387
	Open Water	0.768
Southern Riparian Forest	0.756	
Vernal Pool	0.177	
Ramona CPA Total	15,288.978	

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
San Dieguito CPA	Diegan Coastal Sage Scrub	2,849.317
	Chaparral	2,124.734
	Non-Native Grassland	454.855
	Field/Pasture	447.596
	Southern Maritime Chaparral	336.757
	Native Grassland	144.996
	Southern Sycamore-alder Riparian Woodland	117.106
	Coastal Sage-Chaparral Scrub	103.768
	Southern Riparian Scrub	93.780
	Coast Live Oak Woodland	66.763
	Freshwater	47.889
	Disturbed Wetland	27.315
	Southern Coast Live Oak Riparian Forest	21.101
	Coastal Scrub	10.595
	Oak Woodland	9.694
	Southern Willow Scrub	8.724
	Scrub Oak Chaparral	8.179
	Freshwater Marsh	6.689
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	4.914
	Alkali Marsh	3.817
	Mule Fat Scrub	1.820
	Freshwater Seep	1.636
	Englemann Oak Woodland	1.344
	Tamarisk Scrub	0.518
Southern Riparian Forest	0.089	
Southern Arroyo Willow Riparian Forest	0.000	
San Dieguito CPA Total	6,893.996	
Spring Valley CPA	Diegan Coastal Sage Scrub	553.804
	Native Grassland	117.651
	Southern Riparian Scrub	49.729
	Chaparral	32.241
	Freshwater Marsh	1.287
	Non-Native Grassland	1.072
	Freshwater	0.876
	Spring Valley CPA Total	756.660

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
Sweetwater CPA	Native Grassland	289.834
	Diegan Coastal Sage Scrub	279.321
	Non-Native Grassland	183.172
	Southern Riparian Scrub	40.003
	Coast Live Oak Woodland	23.807
	Freshwater Marsh	20.004
	Chaparral	6.126
	Disturbed Wetland	5.763
	Southern Riparian Forest	5.611
	Freshwater	3.252
	Open Water	0.583
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	0.052
	Southern Willow Scrub	0.001
	Sweetwater CPA Total	857.528
Valle De Oro CPA	Diegan Coastal Sage Scrub	1,019.876
	Native Grassland	46.479
	Southern Riparian Forest	41.972
	Southern Riparian Scrub	30.824
	Southern Coast Live Oak Riparian Forest	23.400
	Black Oak Woodland	11.234
	Riparian Woodlands	5.688
	Chaparral	4.347
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	4.308
	Disturbed Wetland	3.392
	Freshwater	3.168
	Non-Native Grassland	3.120
	Open Water	1.179
	Coast Live Oak Woodland	0.703
Freshwater Marsh	0.529	
Valle De Oro CPA Total	1,200.219	
Valley Center CPA	Chaparral	5,180.509
	Diegan Coastal Sage Scrub	3,077.346
	Non-Native Grassland	2,291.598
	Coast Live Oak Woodland	1,628.106
	Field/Pasture	1,119.705
	Engelmann Oak Woodland	314.336
	Southern Cottonwood-willow Riparian Forest	291.940
	Coastal Sage-Chaparral Scrub	146.561

Appendix C. Biological Resources Tables

CPA/Subregion	Habitat Impacted	Total Acres Impacted
<i>Valley Center CPA Continued</i>	Southern Willow Scrub	82.056
	Freshwater	55.279
	Southern Sycamore-alder Riparian Woodland	29.598
	Mule Fat Scrub	13.936
	Southern Coast Live Oak Riparian Forest	9.953
	Freshwater Marsh	7.813
	Disturbed Wetland	5.201
	Alluvial Fan Scrub	4.516
	Non-Vegetated Channel, Floodway, Lakeshore Fringe	2.519
	Flat-topped Buckwheat*	1.454
	Native Grassland	1.238
	Riparian Woodlands	0.008
	Valley Center CPA Total	14,263.672

Source: DPLU GIS 2008