

Terrestrial Vegetation Communities in San Diego County**Based on Holland's Descriptions****Suggested by Thomas Oberbauer****(Revised March 2005)**

* Indicates revisions to Holland to the immediate left of asterisk

10000 NON-NATIVE VEGETATION, DEVELOPED AREAS, OR UNVEGETATED HABITAT**11000 Non-Native Vegetation*****11100 Eucalyptus Woodland****11200 Disturbed Wetland****11300 Disturbed Habitat****12000 Urban/Developed****13000 Unvegetated Habitat*****13100 Open Water****13110 Marine****13111 Subtidal*****13112 Intertidal*****13120 Bay****13121 Deep Bay*****13122 Intermediate Bay*****13123 Shallow Bay*****13130 Estuarine****13131 Subtidal*****13132 Intertidal*****13133 Brackishwater*****13140 Freshwater*****13200 Non-Vegetated Channel, Floodway, Lakeshore Fringe*****13300 Saltpan/Mudflats*****13400 Beach**

18000 GENERAL AGRICULTURE**18100** Orchards and Vineyards**18200** Intensive Agriculture - Dairies, Nurseries, Chicken Ranches**18300** Extensive Agriculture - Field/Pasture*, Row Crops**18310** Field/Pasture***18320** Row Crops**20000 DUNE COMMUNITY****21000** Coastal Dunes**21100** Active Coastal Dunes (occurred at one time but now nearly extirpated)**21200** Foredunes**21230** Southern Foredunes (tiny fragments remaining in Imperial Beach and Los Peñasquitos Lagoon)**22000** Desert Dunes**22100** Active Desert Dunes (very little in Borrego Valley)**22300** Stabilized and Partially-Stabilized Desert Sand Field (mostly in the eastern part of Borrego Valley; may be large enough to map from aeriels)**24000** Stabilized Alkaline Dunes***29000 ACACIA SCRUB*****30000 SCRUB AND CHAPARRAL****31000** Coastal Bluff Scrub**31200** Southern Coastal Bluff Scrub (mappable on Point Loma and Torrey Pines State Park)**32000** Coastal Scrub**32400** Maritime Succulent Scrub (Point Loma, etc.)**32500** Diegan Coastal Sage Scrub**32510** Coastal form***32520** Inland form (>1,000 ft. elevation)*

- 32700** Riversidian Sage Scrub
 - 32710** Riversidian Upland Sage Scrub (scrub on Banner Grade may fit this category)
 - 32720** Alluvial Fan Scrub
- 33000** Sonoran Desert Scrub
 - 33100** Sonoran Creosote Bush Scrub
 - 33200** Sonoran Desert Mixed Scrub
 - 33210** Sonoran Mixed Woody Scrub
 - 33220** Sonoran Mixed Woody and Succulent Scrub
 - 33230** Sonoran Wash Scrub*
 - 33300** Colorado Desert Wash Scrub*
 - 33500** Calcicolous Scrub*
 - 33600** Encelia Scrub*
- 34000** Mojavean Desert Scrub
 - 34300** Blackbush Scrub (micro locations on eastern edge of mountains)
- 35000** Great Basin Scrub
 - 35200** Sagebrush Scrub
 - 35210** Big Sagebrush Scrub
- 36000** Chenopod Scrub
 - 36110** Desert Saltbush Scrub
 - 36120** Desert Sink Scrub (in Borrego sink)
- 37000** Chaparral
 - 37100** Upper Sonoran Mixed Chaparral
 - 37120** Southern Mixed Chaparral
 - 37121** Granitic Southern Mixed Chaparral
 - 37122** Mafic Southern Mixed Chaparral (occurs on Las Posas and Boomer soils)
 - 37130** Northern Mixed Chaparral*
 - 37131** Granitic Northern Mixed Chaparral*
 - 37132** Mafic Northern Mixed Chaparral*

37200 Chamise Chaparral**37210** Granitic Chamise Chaparral***37220** Mafic Chamise Chaparral***37300** Red Shank Chaparral (near Campo and Chihuahua Valley)**37400** Semi-Desert Chaparral (same as Desert Transition Chaparral; occurs in areas like Jacumba)**37500** Montane Chaparral**37510** Mixed Montane Chaparral**37520** Montane Manzanita Chaparral**37530** Montane Ceanothus Chaparral**37540** Montane Scrub Oak Chaparral**37800** Upper Sonoran Ceanothus Chaparral**37810** Buck Brush Chaparral**37830** *Ceanothus crassifolius* Chaparral**37900** Scrub Oak Chaparral**37A00** Interior Live Oak Chaparral**37B00** Upper Sonoran Manzanita Chaparral**37C00** Maritime Chaparral**37C30** Southern Maritime Chaparral (occurs in coastal San Diego County and has been described as Coastal Mixed Chaparral)**37G00** Coastal Sage-Chaparral Scrub**37K00** Flat-topped Buckwheat***39000** Upper Sonoran Subshrub Scrub**40000** GRASSLANDS, VERNAL POOLS, MEADOWS, AND OTHER HERB COMMUNITIES**42000** Valley and Foothill Grassland**42100** Native Grassland**42110** Valley Needlegrass Grassland**42120** Valley Sacaton Grassland**42200** Non-Native Grassland**42210** Artichoke Thistle Dominant / Non-Native Grassland

42300 Wildflower Field (this is actually a subset of the above, but would be pertinent in the Cuyamaca Lake and Mataguay Valley areas)

42400 Foothill/Mountain Perennial Grassland*

42470 Transmontane Dropseed Grassland*

44000 Vernal Pool

44300 Southern Vernal Pool

44320 San Diego Mesa Vernal Pool

44321 San Diego Mesa Hardpan Vernal Pool (northern mesas)

44322 San Diego Mesa Claypan Vernal Pool (southern mesas)

45000 Meadow and Seep

45100 Montane Meadow

45110 Wet Montane Meadow

45120 Dry Montane Meadows

45300 Alkali Meadows and Seeps

45320 Alkali Seep

45400 Freshwater Seep

46000 Alkali Playa Community

46100 Badlands/Mudhill Forbs*

50000 BOG AND MARSH

52000 Marsh and Swamp

52100 Coastal Salt Marsh

52120 Southern Coastal Salt Marsh

52300 Alkali Marsh

52310 Cismontane Alkali Marsh

52400 Freshwater Marsh

52410 Coastal and Valley Freshwater Marsh

52420 Transmontane Freshwater Marsh (San Felipe Creek)

52430 Montane Freshwater Marsh

52440 Emergent Wetland

60000 RIPARIAN AND BOTTOMLAND HABITAT

61000 Riparian Forests

61300 Southern Riparian Forest

61310 Southern Coast Live Oak Riparian Forest

61320 Southern Arroyo Willow Riparian Forest

61330 Southern Cottonwood-willow Riparian Forest

61500 Montane Riparian Forest

61510 White Alder Riparian Forest (Cold Spring in the Cuyamaca Mountains)

61800 Colorado Riparian Forest

61810 Sonoran Cottonwood-willow Riparian Forest (Coyote Canyon)

61820 Mesquite Bosque (Borrego Sink)

62000 Riparian Woodlands

62200 Desert Dry Wash Woodland

62300 Desert Fan Palm Oasis Woodland

62400 Southern Sycamore-alder Riparian Woodland (Pauma and Pala areas)

63000 Riparian Scrubs

63300 Southern Riparian Scrub

63310 Mule Fat Scrub

63320 Southern Willow Scrub

63321 *Arundo donnx* Dominant / Southern Willow Scrub *

63400 Great Valley Scrub*

63410 Great Valley Willow Scrub*

63500 Montane Riparian Scrub

63800 Colorado Riparian Scrub

63810 Tamarisk Scrub

63820 Arrowweed Scrub

70000 WOODLAND**71000** Cismontane Woodland**71100** Oak Woodland**71120** Black Oak Woodland (Cuyamaca and Mesa Grande)**71160** Coast Live Oak Woodland**71161** Open Coast Live Oak Woodland**71162** Dense Coast Live Oak Woodland**71180** Engelmann Oak Woodland**71181** Open Engelmann Oak Woodland**71182** Dense Engelmann Oak Woodland**71200** Walnut Woodland**71210** California Walnut Woodland (micro locations occur, such as in De Luz)**72000** Pinon and Juniper Woodlands**72300** Peninsular Pinon and Juniper Woodlands**72310** Peninsular Pinon Woodland**72320** Peninsular Juniper Woodland and Scrub**75000** Sonoran Thorn Woodland**75100** Elephant Tree Woodland (micro locations such as Indian Wash)**77000** Mixed Oak Woodland***78000** Undifferentiated Open Woodland***79000** Undifferentiated Dense Woodland***80000 FOREST****81000** Broadleaved Upland Forest**81100** Mixed Evergreen Forest (Palomar Mountain)**81300** Oak Forest**81310** Coast Live Oak Forest**81320** Canyon Live Oak Forest (may be represented in San Diego County in some form but apparently is intended for more northern areas)**81340** Black Oak Forest (as described in Holland represents apparent patches of oak in the midst of coniferous forests)**83000** Closed-cone Coniferous Forest

83100 Coastal Closed-cone Coniferous Forest

83140 Torrey Pine Forest (not actually a closed cone pine)

83200 Interior Closed-cone Coniferous Forest

83230 Southern Interior Cypress Forest (83330, typo in original Holland document)

84000 Lower Montane Coniferous Forest

84100 Coast Range, Klamath and Peninsular Coniferous Forest*

84140 Coulter Pine Forest

84150 Bigcone Spruce (Bigcone Douglas Fir)-Canyon Oak Forest

84200 Sierran Coniferous Forest

84230 Sierran Mixed Coniferous Forest

84500 Mixed Oak/Coniferous/Bigcone/Coulter*

85000 Upper Montane Coniferous Forest

85100 Jeffrey Pine Forest