

Despite my criticism, which could be made for most field guides, this guide is one of the best that I have seen. It will easily meet the demands of most southern California amateur botanists and beginning students of the local flora who need a field guide to identify quickly and accurately the common plants of southern California. I look forward to seeing the author publish other field guides since his photographs, along with his brief descriptions and notes, are excellent.

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PLANT COMMUNITIES OF NORTHWESTERN
BAJA CALIFORNIA, MEXICO

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<u>Major Communities</u>	<u>Dominant or Representative Plant</u>
1. Marine aquatic	
a. Surfweed	<i>Phyllospadix</i> spp., kelps, <i>Corallina</i> other marine algae
b. Marine meadow	<i>Zostera marina</i> , <i>Ulva</i> , <i>Enteromorpha</i> , other green algae
2. Coastal dune sand plant (psammophytic)	<i>Carpobrotus</i> , <i>Mesembryanthemum</i> , <i>Abronia</i> , <i>Cakile</i> , <i>Ambrosia chamissonis</i> , <i>Camis-</i> <i>sonia cheiranthifolia</i>
3. Coastal salt marsh	
a. Tidal marsh	<i>Spartina foliosa</i> , <i>Batis maritima</i> , <i>Limonium californicum</i> , <i>Triglochin</i> , <i>Ruppia maritima</i>
b. Salt-flat succulent (salina)	<i>Batis</i> , <i>Frankenia</i> , <i>Salicornia</i> , <i>Suaeda</i> , <i>Atriplex</i> , <i>Distichlis spicata</i> , <i>Monan-</i> <i>thochloe littoralis</i>
4. Freshwater aquatic	
a. Freshwater marsh	<i>Scirpus</i> , <i>Typha</i> , <i>Juncus</i> , <i>Eleocharis</i> and other emergents
b. Lake, pond and quiet- stream aquatic	<i>Lemnaceae</i> , <i>Azolla</i> , <i>Potamogeton</i> , <i>Ranun-</i> <i>culus</i> , <i>Callitriche</i> , <i>Elatine</i> , <i>Cerato-</i> <i>phyllum</i> , etc.
c. Reservoir semiaquatic	<i>Ammannia</i> , <i>Crassula</i> , <i>Crypsis</i> , <i>Gnaphalium</i> <i>palustre</i> , etc.
5. Vernal pool ephemeral	<i>Marsilia</i> , <i>Pilularia</i> , <i>Isoetes</i> , <i>Lilaea</i> , <i>Eryngium</i> , <i>Orcuttii</i>
6. Riparian woodland	<i>Platanus racemosa</i> , <i>Populus fremontii</i> , <i>Salix</i> spp., <i>Quercus agrifolia</i>
7. Sage scrub	
a. Sea-bluff succulent	<i>Dudleya</i> spp., <i>Coreopsis</i> , <i>Eriogonum</i> , <i>Hemizonia</i> , <i>Lavatera</i> , <i>Eriophyllum</i> , <i>Encelia californica</i> , <i>Artemisia</i>

Major Communities

Dominant or Representative Plant

7. Sage scrub (continued)
b. Maritime sage scrub
Encelia californica, *Eriogonum fasciculatum*, *Salvia* spp., *Malosma laurinum*, *Rhus integrifolia*, etc.
c. Inland sage scrub
Encelia, *Eriogonum*, *Diplacus*, *Haplopappus*, *Artemisia*, etc.
d. Maritime desert scrub
Opuntia, *Berberocactus emoryi*, *Myrtillocactus cocal*, *Stenocereus gummosus*, *Mammillaria*, *Agave shawii*, *Simmonsia chinensis*, *Lycium*, *Euphorbia misera*, *Rosa minutifolia*
8. Closed-cone cone coniferous woodland
a. Coastal closed-cone coniferous woodland
Pinus and *Cupressus* spp.
b. Inland closed-cone coniferous woodland
Pinus muricata (remorata), *Cupressus guadalupensis*, *Pinus radiata binata*
Pinus attenuata, *Cupressus guadalupensis forbesii*
9. Southern California grassland
Stipa, *Poa*, *Melica* bunchgrasses and Mediterranean annuals
10. Oak woodland
a. Southern oak woodland
Quercus spp.
b. Island oak woodland
Quercus agrifolia, *Q. engelmannii*
Quercus tomentella, *Brahea edulis*, *Pinus radiata binata*
11. Chaparral
a. Mixed chaparral
Quercus dumosa, *Arctostaphylos*, *Ceanothus*, *Adenostoma*, *Garrya*, *Rhamnus*, *Rhus*, *Cercocarpus*, *Dendromecon*, etc.
b. Chamisal
Adenostoma fasciculatum
c. Red-shanks chaparral
Adenostoma sparsifolium
d. Montane chaparral
Ceanothus cordulatus, *Arctostaphylos*, *Quercus*, *Pinus*
e. Desert transition chaparral
Arctostaphylos pungens, *Ceanothus greggii*, *Quercus* spp.
12. Coniferous forest
a. Lower montane coniferous forest
1. Coulter pine forest
Pinus coulteri and many chaparral species
2. Jeffreyi pine forest
Pinus jeffreyi, *P. quadrifolia*, *Artemisia tridentata* and montane chaparral species
b. Upper montane coniferous forest
1. White fir-sugar pine forest
Abies concolor, *Pinus lambertiana*, *Calocedrus decurrens*, *Cupressus montana*, *Pinus jeffreyi*
2. Lodgepole pine forest
Pinus contorta murrayana, *Populus tremuloides*, *Pinus jeffreyi*, several Sierra San Pedro Martir endemics
13. Montane meadow
Sedges, grasses, numerous forbs of moist, open, sandy places
14. Sonoran Desert woodland and scrub
(E & S fringes, as Valle de Trinidad, Paso de San Matias)
a. Pinyon-juniper woodland
Pinus monophylla, *P. quadrifolia*, *Juniperus californica*
b. Mixed desert scrub
Encelia farinosa, *Fouquieria splendens*, *Agave deserti*, *Pachycereus*, numerous other cacti, etc.
c. Desert microphyll woodland (sandy washes)
Chilopsis, *Cercidium*, *Prosopis*, *Hymenoclea*
d. Desert oasis woodland (Valle de las Palmas, Socorro area)
Brahea armata, *Washingtonia filifera*



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