

CNPS List of Vegetation Types Described in *A Manual of California Vegetation*
by Sawyer, Keeler-Wolf and Evens (2009)**

Scientific Name	Common Name	G & S Ranks	Page
Woodland and Forest Alliances and Stands			
<i>Abies amabilis</i> Forest Alliance	Pacific silver fir forest	G5 S1	58
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<i>Abies concolor</i> Alliance	White fir forest	G5 S4	62
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<i>Abies concolor</i> – <i>Pseudotsuga menziesii</i> Alliance	White fir–Douglas fir forest	G5 S4	68
<i>Abies grandis</i> Alliance	Grand fir forest	G4 S2	71
<i>Abies lasiocarpa</i> Alliance	Subalpine fir forest	G5 S2	73
<i>Abies magnifica</i> Alliance	Red fir forest	G5 S4	75
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<i>Acer negundo</i> Alliance	Box-elder forest	G5 S2	84
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<i>Alnus rhombifolia</i> Alliance	White alder groves	G4 S4	89
<i>Alnus rubra</i> Alliance	Red alder forest	G5 S4	92
<i>Arbutus menziesii</i> Alliance	Madrone forest	G4 S3	94
<i>Bursera microphylla</i> Special Stands	Elephant tree stands	G4 S1	97
<i>Callitropsis abramsiana</i> Special Stands	Santa Cruz cypress groves	G1 S1	98
<i>Callitropsis bakeri</i> Alliance	Baker cypress stands	G2 S2	99
<i>Callitropsis forbesii</i> Alliance	Tecate cypress stands	G2 S2	101
<i>Callitropsis goveniana</i> Special Stands	Monterey pygmy cypress stands	G1 S1	103
<i>Callitropsis macnabiana</i> Alliance	McNab cypress woodland	G3 S3	104
<i>Callitropsis macrocarpa</i> Special Stands	Monterey cypress stands	G1 S1	106
<i>Callitropsis nevadensis</i> Alliance	Piute cypress woodland	G2. S2	107
<i>Callitropsis nootkatensis</i> Alliance	Alaska yellow-cedar stands	G4 S1	109
<i>Callitropsis pigmaea</i> Alliance	Mendocino pygmy cypress woodland	G2 S2	111
<i>Callitropsis sargentii</i> Alliance	Sargent cypress woodland	G3 S3	113
<i>Callitropsis stephensonii</i> Special Stands	Cuyamaca cypress stands	G1 S1	115
<i>Calocedrus decurrens</i> Alliance	Incense cedar forest	G4 S3	116
<i>Chamaecyparis lawsoniana</i> Alliance	Port Orford cedar forest	G3 S3	119
<i>Chilopsis linearis</i> Alliance	Desert willow woodland	G4 S3	122
<i>Eucalyptus (globulus, camaldulensis)</i> Semi-Natural Stands	Eucalyptus groves	Unranked	124
<i>Fraxinus latifolia</i> Alliance	Oregon ash groves	G4 S3	126
<i>Juglans californica</i> Alliance	California walnut groves	G3 S3	128
<i>Juglans hindsii</i> and hybrids Special & Semi-Natural Stands	Hinds's walnut and related stands	G1 S1	130
<i>Juniperus californica</i> Alliance	California juniper woodland	G4 S4	132
<i>Juniperus grandis</i> Alliance	Mountain juniper woodland	G4 S4	135
<i>Juniperus occidentalis</i> Alliance	Western juniper woodland	G5 S4	137
<i>Juniperus osteosperma</i> Alliance	Utah juniper woodland	G5 S3	139
<i>Lithocarpus densiflorus</i> Alliance	Tanoak forest	G4 S3	142
<i>Lyonothamnus floribundus</i> Special Stands	Catalina ironwood groves	G2 S2	145
<i>Parkinsonia florida</i> – <i>Olneya tesota</i> Alliance	Blue palo verde–Ironwood woodland	G4 S3	146
<i>Picea breweriana</i> Alliance	Brewer spruce forest	G3 S2	149
<i>Picea engelmannii</i> Alliance	Engelmann spruce forest	G5 S2	151
<i>Picea sitchensis</i> Alliance	Sitka spruce forest	G5 S2	153
<i>Pinus albicaulis</i> Alliance	Whitebark pine forest	G5 S4	155
<i>Pinus attenuata</i> Alliance	Knobcone pine forest	G4 S4	158
<i>Pinus balfouriana</i> Alliance	Foxtail pine woodland	G3 S3	161
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<i>Pinus coulteri</i> Alliance	Coulter pine woodland	G4 S4*	168
<i>Pinus edulis</i> Special Stands	Two-needle pinyon stands	G4 S2?	171
<i>Pinus flexilis</i> Alliance	Limber pine woodland	G5 S3	172
<i>Pinus jeffreyi</i> Alliance	Jeffrey pine forest	G4 S4	174
<i>Pinus lambertiana</i> Alliance	Sugar white pine forest	G4 S3	178
<i>Pinus longaeva</i> Alliance	Bristlecone pine woodland	G4 S2	180
<i>Pinus monophylla</i> Alliance	Singleleaf pinyon woodlands	G5 S4	182
<i>Pinus monticola</i> Alliance	Western white pine forest	G5 S4	185
<i>Pinus muricata</i> Alliance	Bishop pine forest	G3 S3	188
<i>Pinus ponderosa</i> Alliance	Ponderosa pine forest	G5 S4	191
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<i>Pinus ponderosa</i> – <i>Pseudotsuga menziesii</i> Alliance	Ponderosa pine–Douglas fir forest	G4 S4	199
<i>Pinus quadrifolia</i> Alliance	Parry pinyon woodland	G3 S2	202
<i>Pinus radiata</i> Alliance	Monterey pine forest	G1 S1	204
<i>Pinus sabiniana</i> Alliance	Ghost pine woodland	G4 S4	206
<i>Pinus torreyana</i> Special Stands	Torrey pine stands	G1 S1	209
<i>Pinus washoensis</i> Alliance	Washoe pine woodland	G2 S2	210
<i>Platanus racemosa</i> Alliance	California sycamore woodlands	G3 S3*	212
<i>Populus fremontii</i> Alliance	Fremont cottonwood forest	G4 S3	215
<i>Populus tremuloides</i> Alliance	Aspen groves	G5 S3	219
<i>Populus trichocarpa</i> Alliance	Black cottonwood forest	G5 S3	222
<i>Prosopis glandulosa</i> Alliance	Mesquite bosque, mesquite thicket	G5 S3	225
<i>Prosopis pubescens</i> Alliance	Screwbean mesquite bosques	G3 S2	228
<i>Pseudotsuga macrocarpa</i> Alliance	Bigcone Douglas fir forest	G3 S3	230
<i>Pseudotsuga menziesii</i> Alliance	Douglas fir forest	G5 S4	232
<i>Pseudotsuga menziesii</i> – <i>Calocedrus decurrens</i> Alliance	Douglas fir–Incense cedar forest	G3 S3	236
<i>Pseudotsuga menziesii</i> – <i>Lithocarpus densiflorus</i> Alliance	Douglas fir–tanoak forest	G4 S4	239
<i>Psoralea argophylla</i> Alliance	Smoke tree woodland	G4 S3	243
<i>Quercus agrifolia</i> Alliance	Coast live oak woodland	G5 S4*	245
<i>Quercus chrysolepis</i> tree Alliance	Canyon live oak forest	G5 S5	249
<i>Quercus douglasii</i> Alliance	Blue oak woodland	G4 S4	252
<i>Quercus engelmannii</i> Alliance	Engelmann oak woodland	G3 S3 *	256
<i>Quercus garryana</i> tree Alliance	Oregon white oak woodland	G4 S3	258
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<i>Quercus parvula</i> var. <i>shrevei</i> Provisional Alliance	Shreve oak forests	G2 S2	269
<i>Quercus (agrifolia, douglasii, garryana, kelloggii, lobata, wislizeni)</i> Alliance	Mixed oak forest	G4 S4	270
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<i>Salix gooddingii</i> Alliance	Black willow thickets	G4 S3	276
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<i>Salix lucida</i> Alliance	Shining willow groves	G4 S3	282
<i>Schinus (molle, terebinthifolius)</i> – <i>Myoporum laetum</i> Semi-Natural Stands	Pepper tree or Myoporum groves	Unranked	285
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<i>Tsuga mertensiana</i> Alliance	Mountain hemlock forest	G5 S4	294
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<i>Adenostoma fasciculatum</i> – <i>Salvia mellifera</i> Alliance	Chamise–black sage chaparral	G5 S5	324
<i>Adenostoma fasciculatum</i> – <i>Xylococcus bicolor</i> Alliance	Chamise–mission manzanita chaparral	G4 S3	327
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<i>Ambrosia dumosa</i> Alliance	White bursage scrub	G5 S4	340
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<i>Arctostaphylos bakeri</i> Special Stands	Stands of Baker manzanita	G1 S1	345
<i>Arctostaphylos canescens</i> Provisional Alliance	Hoary manzanita chaparral	G3? S3?	346
<i>Arctostaphylos (crustacea, tomentosa)</i> Alliance	Brittle leaf–Woolly leaf manzanita chaparral	G2 S2	347
<i>Arctostaphylos glandulosa</i> Alliance	Eastwood manzanita chaparral	G4 S4*	350
<i>Arctostaphylos glauca</i> Alliance	Bigberry manzanita chaparral	G4 S4*	353
<i>Arctostaphylos hookeri</i> Provisional Alliance	Hooker's manzanita chaparral	G2 S2	356
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<i>Arctostaphylos manzanita</i> Provisional Alliance	Spiny menodora scrub	G3? S3?	359
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<i>Arctostaphylos silvicola</i> Provisional Alliance	Silverleaf manzanita chaparral	G1 S1	377
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<i>Artemisia californica</i> Alliance	California sagebrush scrub	G5 S5	386
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<i>Artemisia tridentata</i> ssp. <i>vaseyana</i> Alliance	Mountain big sagebrush	G5 S5	404
<i>Atriplex canescens</i> Alliance	Fourwing saltbush scrub	G5 S4*	406
<i>Atriplex confertifolia</i> Alliance	Shadscale scrub	G5 S4	408
<i>Atriplex hymenelytra</i> Alliance	Desert holly scrub	G5 S4	411
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<i>Baccharis pilularis</i> Alliance	Coyote brush scrub	G5 S5	421
<i>Baccharis salicifolia</i> Alliance	Mulefat thickets	G5 S4	425
<i>Baccharis sergiloides</i> Alliance	Broom baccharis thickets	G4 S3	427
<i>Betula glandulosa</i> Provisional Alliance	Resin birch thickets	G5 S2?	429
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<i>Castela emoryi</i> Special Stands	Crucifixion thorn stands	G2 S1	435
<i>Ceanothus cordulatus</i> Alliance	Mountain white thorn chaparral	G4 S4	436
<i>Ceanothus crassifolius</i> Alliance	Hoary leaf ceanothus chaparral	G4 S4	438
<i>Ceanothus cuneatus</i> Alliance	Wedge leaf ceanothus chaparral, Buck brush chaparral	G4 S4	441
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<i>Chrysolepis chrysophylla</i> Alliance	Golden chinquapin thickets	G2 S2	476
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<i>Coleogyne ramosissima</i> Alliance	Black brush scrub	G5 S4	480
<i>Coreopsis gigantea</i> Alliance	Giant coreopsis scrub	G3 S3?	483
<i>Cornus sericea</i> Alliance	Red osier thickets	G4 S3?	485
<i>Corylus cornuta</i> var. <i>californica</i> Alliance	Hazelnut scrub	G3 S2?	487
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<i>Deinandra clementina</i> – <i>Eriogonum giganteum</i> Provisional Alliance	Island buckwheat–Island tar plant scrub	G3? S3?	493
<i>Dendromecon rigida</i> Alliance	Bush poppy scrub	G4 S4	494
<i>Diplacus aurantiacus</i> Alliance	Bush monkeyflower scrub	G3 S3?	496
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<i>Ericameria paniculata</i> Alliance	Black-stem rabbitbrush scrub	G4 S3	517

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<i>Eriodictyon californicum</i> Alliance	California yerba santa scrub	G4 S4	523
<i>Eriodictyon crassifolium</i> Provisional Alliance	Thick leaf yerba santa scrub	G3 S3	525
<i>Eriogonum cinereum</i> Alliance	Ashy buckwheat scrub	G3 S3	526
<i>Eriogonum fasciculatum</i> Alliance	California buckwheat scrub	G5 S5	528
<i>Eriogonum fasciculatum</i> – <i>Salvia apiana</i> Alliance	California buckwheat–white sage scrub	G4 S4	531
<i>Eriogonum heermannii</i> Provisional Alliance	Heermann's buckwheat patches	G2 S2?	533
<i>Eriogonum wrightii</i> Alliance	Wright's buckwheat patches	G3 S3	534
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<i>Frangula californica</i> Alliance	California coffee berry scrub	G4 S4*	538
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<i>Grayia spinosa</i> Alliance	Spiny hop sage scrub	G5 S3	542
<i>Gutierrezia californica</i> Provisional Alliance	California match weed patches	G3? S3?	544
<i>Gutierrezia sarothrae</i> Provisional Alliance	Broom snake weed scrub	G3 S3	545
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<i>Heteromeles arbutifolia</i> Alliance	Toyon chaparral	G5 S3	548
<i>Holodiscus discolor</i> Alliance	Ocean spray brush	G4 S3	550
<i>Hyptis emoryi</i> Alliance	Desert lavender scrub	G4 S3	552
<i>Isocoma menziesii</i> Alliance	Menzies's golden bush scrub	G4? S4?	554
<i>Justicia californica</i> Provisional Alliance	Chuparosa patches	G2 S2?	556
<i>Kalmia microphylla</i> Provisional Alliance	Alpine laurel heath	G4 S3?	557
<i>Keckiella antirrhinoides</i> Alliance	Bush penstemon scrub	G3 S3	558
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<i>Krascheninnikovia lanata</i> Alliance	Winterfat scrubland	G4 S2	561
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<i>Larrea tridentata</i> – <i>Ambrosia dumosa</i> Alliance	Creosote bush–white burr sage scrub	G5 S5	566
<i>Larrea tridentata</i> – <i>Encelia farinosa</i> Alliance	Creosote bush–brittle bush scrub	G5 S4	570
<i>Lepidospartum squamatum</i> Alliance	Scale broom scrub	G3 S3*	573
<i>Lithocarpus densiflorus</i> var. <i>echinoides</i> Alliance	Shrub tanoak chaparral	G3 S3	576
<i>Lotus scoparius</i> Alliance	Deer weed scrub	G5 S5	578
<i>Lupinus albifrons</i> Alliance	Silver bush lupine scrub	G4 S4	580
<i>Lupinus arboreus</i> Alliance and Semi-Natural Stands	Yellow bush lupine scrub	G4 S4	582
<i>Lupinus chamissonis</i> – <i>Ericameria ericoides</i> Alliance	Silver dune lupine–mock heather scrub	G3 S3*	584
<i>Lycium andersonii</i> Alliance	Anderson's boxthorn scrub	G4 S3	586
<i>Lycium californicum</i> Provisional Alliance	California desert-thorn	G2? S2?	588
<i>Malacothamnus fasciculatus</i> Alliance	Bush mallow scrub	G4 S4	589
<i>Malosma laurina</i> Alliance	Laurel sumac scrub	G4 S4	591
<i>Menodora spinescens</i> Alliance	Spiny menodora scrub	G4 S3	593
<i>Morella californica</i> Alliance	Wax myrtle scrub	G3 S3	595
<i>Nolina (bigelovii, parryi)</i> Alliance	Nolina scrub	G3 S2	597
<i>Opuntia littoralis</i> Alliance	Coast prickly pear scrub	G4 S3	599
<i>Parkinsonia microphylla</i> Provisional Alliance	Foothill palo verde desert scrub	G4 S1	602
<i>Phyllodoce breweri</i> Alliance	Mountain heather mats	G4 S4?	603
<i>Phyllodoce empetriformis</i> Provisional Alliance	Mountain heather mats	G5 S2?	605
<i>Pluchea sericea</i> Alliance	Arrow weed thickets	G3 S3	606
<i>Prunus emarginata</i> Provisional Alliance	Bitter cherry thickets	G4 S4	608
<i>Prunus fasciculata</i> Alliance	Desert almond scrub	G4 S3	609
<i>Prunus fremontii</i> Alliance	Desert apricot scrub	G4 S3	611
<i>Prunus ilicifolia</i> Alliance	Holly leaf cherry chaparral	G3 S3 (G2 S2)	613
<i>Prunus virginiana</i> Provisional Alliance	Choke cherry thickets	G4 S2?	616
<i>Purshia stansburiana</i> Alliance	Stansbury cliff rose scrub	G3 S3	617
<i>Purshia tridentata</i> Alliance	Bitter brush scrub	G4 S3	619

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<i>Quercus berberidifolia</i> Alliance	Scrub oak chaparral	G4 S4	622
<i>Quercus berberidifolia</i> – <i>Adenostoma fasciculatum</i> Alliance	Scrub oak–chamise chaparral	G4 S4	625
<i>Quercus chrysolepis shrub</i> Alliance	Canyon live oak chaparral	G3 S3	628
<i>Quercus cornelius-mulleri</i> Alliance	Muller oak chaparral	G4 S4	630
<i>Quercus durata</i> Alliance	Leather oak chaparral	G4 S4*	632
<i>Quercus garryana shrub</i> Alliance	Brewer oak scrub	G4 S4	635
<i>Quercus john-tuckeri</i> Alliance	Tucker oak chaparral	G4 S4	637
<i>Quercus pacifica</i> Alliance	Island scrub oak chaparral	G3 S3	639
<i>Quercus palmeri</i> Alliance	Palmer oak chaparral	G3 S2?	641
<i>Quercus sadleriana</i> Alliance	Sadler oak or deer oak brush fields	G3 S3	643
<i>Quercus turbinella</i> Alliance	Sonoran live oak scrub	G4 S1	645
<i>Quercus vaccinifolia</i> Alliance	Huckleberry oak chaparral	G4 S4	647
<i>Quercus wislizeni shrub</i> Alliance	Interior live oak chaparral	G4 S4	650
<i>Rhododendron neoglandulosum</i> Alliance	Western Labrador-tea thickets	G4 S2?	653
<i>Rhododendron occidentale</i> Provisional Alliance	Western azalea patches	G3 S2?	655
<i>Rhus integrifolia</i> Alliance	Lemonade berry scrub	G3 S3	656
<i>Rhus ovata</i> Alliance	Sugarbush chaparral	G4 S4*	658
<i>Rhus trilobata</i> Provisional Alliance	Basket bush thickets	G4 S3?	660
<i>Ribes quercetorum</i> Provisional Alliance	Oak gooseberry thickets	G2 S2?	661
<i>Rosa californica</i> Alliance	California rose briar patches	G3 S3	662
<i>Rosa woodsii</i> Provisional Alliance	Interior rose thickets	G5 S3	664
<i>Rubus armeniacus</i> Semi-Natural Stands	Himalayan black berry brambles	Unranked	665
<i>Rubus</i> (<i>parviflorus</i> , <i>spectabilis</i> , <i>ursinus</i>) Alliance	Coastal brambles	G4 S3	667
<i>Salazaria mexicana</i> Alliance	Bladder sage scrub	G4 S4	669
<i>Salix bebbiana</i> Alliance	Bebb’s willow thickets	G4 S2?	671
<i>Salix breweri</i> Alliance	Brewer willow thickets	G2 S2	673
<i>Salix eastwoodiae</i> Alliance	Sierran willow thickets	G3 S3	675
<i>Salix exigua</i> Alliance	Sandbar willow thickets	G5 S4	677
<i>Salix geyeriana</i> Alliance	Geyer willow thickets	G4 S2?	680
<i>Salix hookeriana</i> Alliance	Coastal dune willow thickets	G4 S3	682
<i>Salix jepsonii</i> Alliance	Jepson willow thickets	G3 S3	684
<i>Salix lasiolepis</i> Alliance	Arroyo willow thickets	G4 S4	686
<i>Salix lemmonii</i> Alliance	Lemmon’s willow thickets	G4 S3	689
<i>Salix lutea</i> Alliance	Yellow willow thickets	G4 S3?	691
<i>Salix nivalis</i> Provisional Alliance	Snow willow mats	G4 S1?	693
<i>Salix orestera</i> Alliance	Sierra gray willow thickets	G4 S4	694
<i>Salix petrophila</i> Alliance	Alpine willow turf	G5 S3	696
<i>Salix planifolia</i> Provisional Alliance	Tea-leaved willow thickets	G4 S2?	698
<i>Salix sitchensis</i> Provisional Alliance	Sitka willow thickets	G4 S3?	699
<i>Salvia apiana</i> Alliance	White sage scrub	G4 S3	700
<i>Salvia dorrii</i> Alliance	Desert purple sage scrub	G3 S2	702
<i>Salvia leucophylla</i> Alliance	Purple sage scrub	G4 S4	704
<i>Salvia mellifera</i> Alliance	Black sage scrub	G4 S4*	706
<i>Sarcobatus vermiculatus</i> Alliance	Greasewood scrub	G5 S4	711
<i>Suaeda moquinii</i> Alliance	Bush seepweed scrub	G5 S3	714
<i>Simmondsia chinensis</i> Provisional Alliance	Joboa scrub	G4 S3?	713
<i>Sambucus nigra</i> Alliance	Blue elderberry stands	G3 S3	709
<i>Tamarix</i> spp. Semi-Natural Stands	Tamarisk thickets	Unranked	716
<i>Tetracoccus hallii</i> Provisional Alliance	Hall’s shrubby-spurge patches	G2 S1	718
<i>Tidestromia oblongifolia</i> Provisional Alliance	Arizona honey sweet sparse scrub	G3 S3	719
<i>Toxicodendron diversilobum</i> Alliance	Poison oak scrub	G4 S4	720
<i>Vaccinium cespitosum</i> Alliance	Dwarf bilberry meadows and mats	G4? S3?	722
<i>Vaccinium uliginosum</i> Alliance	Bog blue berry wet meadows	G4 S3	724

Scientific Name	Common Name	G & S Ranks	Page
<i>Venegasia carpesioides</i> Alliance	Canyon sunflower scrub	G3 S3	726
<i>Viguiera parishii</i> Alliance	Parish's goldeneye scrub	G4 S4*	728
<i>Viguiera reticulata</i> Alliance	Net-veined goldeneye scrub	G3 S3?	730
<i>Yucca schidigera</i> Alliance	Mojave yucca scrub	G4 S4*	732
<i>Ziziphus obtusifolia</i> Special Stands	Graythorn patches	G2 S2?	734

Herbaceous Alliances and Stands

<i>Abronia latifolia</i> – <i>Ambrosia chamissonis</i> Alliance	Dune mat	G3 S3	743
<i>Achnatherum hymenoides</i> Alliance	Indian rice grass grassland	G4 S1	746
<i>Achnatherum speciosum</i> Alliance	Desert needlegrass grassland	G4 S2	748
<i>Aegilops triuncialis</i> Provisional Semi-Natural Stands	Barbed goatgrass patches	Unranked	750
<i>Agropyron cristatum</i> Semi-Natural Stands	Crested wheatgrass rangelands	Unranked	751
<i>Agrostis (gigantea, stolonifera)</i> – <i>Festuca arundinacea</i> Semi-Natural Stands	Bent grass–tall fescue meadows	Unranked	753
<i>Alopecurus geniculatus</i> Provisional Alliance	Water foxtail meadows	G3? S3?	755
<i>Ambrosia psilostachya</i> Provisional Alliance	Western ragweed meadows	G4 S4?	756
<i>Ammophila arenaria</i> Semi-Natural Stands	European beach grass swards	Unranked	757
<i>Amsinckia (menziesii, tessellata)</i> Alliance	Fiddleneck fields	G4 S4	759
<i>Anemopsis californica</i> Alliance	Yerba mansa meadows	G3 S2?	762
<i>Argentina egedii</i> Alliance	Pacific silverweed marshes	G4 S2	764
<i>Aristida purpurea</i> Provisional Alliance	Purple three-awn meadows	G4 S3?	766
<i>Artemisia dracunculus</i> Alliance	Wild tarragon patches	G4 S4	767
<i>Arthrocnemum subterminale</i> Alliance	Parish's glasswort patches	G4 S2	769
<i>Arundo donax</i> Semi-Natural Stands	Giant reed breaks	Unranked	771
<i>Atriplex prostrata</i> – <i>Cotula coronopifolia</i> Semi-Natural Stands	Fields of fat hen and brass buttons	Unranked	773
<i>Avena (barbata, fatua)</i> Semi-Natural Stands	Wild oats grasslands	Unranked	775
<i>Azolla (filiculoides, mexicana)</i> Provisional Alliance	Mosquito fern mats	G4 S4	777
<i>Bistorta bistortoides</i> – <i>Mimulus primuloides</i> Alliance	Western bistort–primrose monkey flower meadows	G4 S4	778
<i>Bolboschoenus maritimus</i> Alliance	Salt marsh bulrush marshes	G4 S3	780
<i>Brassica nigra</i> and Other Mustards Semi-Natural Stands	Upland mustards	Unranked	782
<i>Bromus (diandrus, hordeaceus)</i> – <i>Brachypodium distachyon</i> Semi-Natural Stands	Annual brome grasslands	Unranked	784
<i>Bromus rubens</i> – <i>Schismus (arabicus, barbatus)</i> Semi-Natural Stands	Red brome or Mediterranean grasslands	Unranked	787
<i>Bromus tectorum</i> Semi-Natural Stands	Cheatgrass grassland	Unranked	789
<i>Cakile (edentula, maritima)</i> Semi-Natural Provisional Stands	Sea rocket sands	Unranked	791
<i>Calamagrostis canadensis</i> Alliance	Bluejoint reed grass meadows	G5 S3	792
<i>Calamagrostis muiriana</i> Alliance	Shorthair reed grass meadows	G4 S4	794
<i>Calamagrostis nutkaensis</i> Alliance	Pacific reed grass meadows	G4 S2	796
<i>Calamagrostis purpurascens</i> Alliance	Fell-fields with purple reed grass	G4? S4?	798
<i>Camassia quamash</i> Alliance	Small camas meadows	G4? S3?	800
<i>Carex (aquatilis, lenticularis)</i> Alliance	Water sedge and Lakeshore sedge meadows	G5 S3	802
<i>Carex barbarae</i> Alliance	White-root beds	G2? S2?	804
<i>Carex breweri</i> Alliance	Brewer sedge mats	G4 S3	806
<i>Carex congdonii</i> Provisional Alliance	Congdon's sedge talus	G2 S2	808
<i>Carex densa</i> Provisional Alliance	Dense sedge marshes	G2? S2?	809
<i>Carex douglasii</i> Provisional Alliance	Douglas' sedge meadows	G4? S2?	810
<i>Carex filifolia</i> Alliance	Shorthair sedge turf	G4 S4	811
<i>Carex helleri</i> Alliance	Heller's sedge fell-fields	G4 S2	813

Scientific Name	Common Name	G & S Ranks	Page
<i>Carex heteroneura</i> Provisional Alliance	Different-nerve sedge patches	G3? S3?	815
<i>Carex integra</i> Provisional Alliance	Small-fruited sedge meadows	G4? S2?	816
<i>Carex jonesii</i> Alliance	Jones's sedge turf	G4 S3	817
<i>Carex lasiocarpa</i> Provisional Alliance	Slender sedge meadows	G5? S3?	819
<i>Carex limosa</i> Alliance	Shore sedge fens	G4? S2?	820
<i>Carex luzulina</i> Provisional Alliance	Woodland sedge fens	G3 S2?	822
<i>Carex microptera</i> Provisional Alliance	Small-winged sedge meadows	G4 S2?	823
<i>Carex nebrascensis</i> Alliance	Nebraska sedge meadows	G5 S4	824
<i>Carex nigricans</i> Provisional Alliance	Showy sedge sod	G4 S3?	826
<i>Carex nudata</i> Alliance	Torrent sedge patches	G3 S3	827
<i>Carex obnupta</i> Alliance	Slough sedge swards	G4 S3	829
<i>Carex pansa</i> Provisional Alliance	Sand dune sedge swaths	G4? S3?	831
<i>Carex scopulorum</i> Alliance	Sierra alpine sedge turf	G4 S3	832
<i>Carex serratodens</i> Provisional Alliance	Twotooth sedge seeps	G3 S3?	834
<i>Carex simulata</i> Alliance	Short-beaked sedge meadows	G4 S3	835
<i>Carex spectabilis</i> Alliance	Showy sedge sod	G4 S3	837
<i>Carex stramineiformis</i> Provisional Alliance	Mount Shasta sedge meadows	G3? S3?	839
<i>Carex subnigricans</i> Alliance	Dark alpine sedge turf	G4 S3	840
<i>Carex (utriculata, vesicaria)</i> Alliance	Beaked sedge and blister sedge meadows	G5 S4	842
<i>Carpobrotus edulis</i> or Other Ice Plants Semi-Natural Stand	Ice plant mats	Unranked	844
<i>Centaurea (solstitialis, melitensis)</i> Semi-Natural Stands	Yellow star-thistle fields	Unranked	846
<i>Centaurea (virgata)</i> Provisional Semi-Natural Stands	Knapweed and purple-flowered star-thistle fields	Unranked	848
<i>Centromadia (pungens)</i> Alliance	Tar plant fields	G2? S2?	850
<i>Cirsium fontinale</i> Alliance	Fountain thistle seeps	G1 S1	853
<i>Cistanthe (umbellata)</i> – <i>Gayophytum (diffusum)</i> Alliance	Pussypaws–groundsmoke openings	G4 S4	855
<i>Conium maculatum</i> – <i>Foeniculum vulgare</i> Semi-Natural Stands	Poison hemlock or fennel patches	Unranked	857
<i>Cortaderia (jubata, selloana)</i> Semi-Natural Stands	Pampas grass patches	Unranked	859
<i>Cressa truxillensis</i> – <i>Distichlis spicata</i> Alliance	Alkali weed–Salt grass playas and sinks	G4 S4	861
<i>Cynosurus echinatus</i> Semi-Natural Stands	Annual dogtail grasslands	Unranked	863
<i>Danthonia californica</i> Alliance	California oat grass prairie	G4 S3	865
<i>Danthonia intermedia</i> Provisional Alliance	Wild mountain oat grass meadows	G4? S3?	868
<i>Darlingtonia californica</i> Alliance	California pitcher plant fens	G4? S3	869
<i>Deinandra fasciculata</i> Alliance	Clustered tarweed fields	G3? S3?	871
<i>Deschampsia caespitosa</i> Alliance	Tufted hair grass meadows	G5 S4?	873
<i>Dicoria canescens</i> – <i>Abronia villosa</i> Alliance	Desert dunes	G3 S2	876
<i>Distichlis spicata</i> Alliance	Salt grass flats	G5 S4	878
<i>Dulichium arundinaceum</i> Provisional Alliance	Three-way sedge meadows	G3? S1	881
<i>Eleocharis acicularis</i> Alliance	Needle spike rush stands	G4? S3?	882
<i>Eleocharis macrostachya</i> Alliance	Pale spike rush marshes	G4 S4	884
<i>Eleocharis quinqueflora</i> Alliance	Few-flowered spike rush marshes	G4 S4	887
<i>Elymus glaucus</i> Alliance	Blue wild rye meadows	G3? S3?	889
<i>Elymus multisetus</i> Provisional Alliance	Big squirreltail patches	G4 S4?	891
<i>Ericameria discoidea</i> – <i>Hulsea algida</i> Alliance	Fell-fields with California heath-goldenrod and Pacific alpine gold	G3? S3?	892
<i>Eryngium aristulatum</i> Alliance	California button-celery patches	G3 S3?	894
<i>Eschscholzia (californica)</i> Alliance	California poppy fields	G4 S4	896
<i>Festuca brachyphylla</i> Alliance	Alpine fescue fell-fields	G4? S3?	899

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<i>Festuca idahoensis</i> Alliance	Idaho fescue grassland	G4 S3?	901
<i>Festuca rubra</i> Alliance	Red fescue grassland	G4 S3?	904
<i>Frankenia salina</i> Alliance	Alkali heath marsh	G4 S3	906
<i>Glyceria (elata, striata)</i> Alliance	Manna grass meadows	G4 S3?	908
<i>Glyceria occidentalis</i> Provisional Alliance	Northwest manna grass marshes	G3? S3?	910
<i>Grindelia (stricta)</i> Provisional Alliance	Gum plant patches	G3? S3?	911
<i>Holcus lanatus</i> – <i>Anthoxanthum odoratum</i> Semi-Natural Stands	Common velvet grass–sweet vernal grass meadows	Unranked	912
<i>Hordeum brachyantherum</i> Alliance	Meadow barley patches	G4 S3?	914
<i>Hydrocotyle (ranunculoides, umbellata)</i> Alliance	Mats of floating pennywort	G4 S3?	916
<i>Iris missouriensis</i> Provisional Alliance	Western blue flag patches	G5 S4	918
<i>Isoetes (bolanderi, echinospora, howellii, nuttallii, occidentalis)</i> Provisional Alliance	Quillwort beds	G3 S3?	919
<i>Juncus arcticus</i> (var. <i>balticus, mexicanus</i>) Alliance	Baltic and Mexican rush marshes	G5 S4	920
<i>Juncus cooperi</i> Alliance	Cooper’s rush marsh	G3 S3	923
<i>Juncus effusus</i> Alliance	Soft rush marshes	G4 S4?	925
<i>Juncus lescurii</i> Alliance	Salt rush swales	G3 S2?	927
<i>Juncus nevadensis</i> Alliance	Sierra rush marshes	G3? S3?	929
<i>Juncus (oxymetris, xiphioides)</i> Provisional Alliance	Iris-leaf rush seeps	G2? S2?	931
<i>Juncus parryi</i> Alliance	Parry’s rush outcrops	G4 S4	932
<i>Juncus patens</i> Provisional Alliance	Western rush marshes	G4? S4?	934
<i>Kobresia myosuroides</i> Alliance	Pacific bog sedge meadows	G5 S1	935
<i>Lasthenia californica</i> – <i>Plantago erecta</i> – <i>Vulpia microstachys</i> Alliance	California goldfields–Dwarf plantain–Six-weeks fescue flower fields	G4 S4	937
<i>Lasthenia fremontii</i> – <i>Distichlis spicata</i> Alliance	Fremont’s goldfields–Saltgrass alkaline vernal pools	G4 S3	941
<i>Lasthenia fremontii</i> – <i>Downingia (bicornuta)</i> Alliance	Fremont’s goldfields–Downingia vernal pools	G3 S3	944
<i>Lasthenia glaberrima</i> Alliance	Smooth goldfields vernal pool bottoms	G3 S3	947
<i>Layia fremontii</i> – <i>Achyrachaena mollis</i> Alliance	Fremont’s tidy-tips–Blow wives vernal pools	G3 S3?	949
<i>Lemna (minor)</i> and Relatives Provisional Alliance	Duckweed blooms	G5 S4?	951
<i>Lepidium latifolium</i> Semi-Natural Stands	Perennial pepper weed patches	Unranked	952
<i>Leymus cinereus</i> Alliance	Ashy ryegrass meadows	G4 S2	954
<i>Leymus condensatus</i> Alliance	Giant wild rye grassland	G3 S3	956
<i>Leymus mollis</i> Alliance	Sea lyme grass patches	G4 S2	958
<i>Leymus triticoides</i> Alliance	Creeping rye grass turfs	G4 S3	960
<i>Lolium perenne</i> Semi-Natural Stands	Perennial rye grass fields	Unranked	963
<i>Lotus purshianus</i> Provisional Alliance	Spanish clover fields	G4? S4?	965
<i>Ludwigia (hexapetala, peploides)</i> Provisional Semi-Natural Stands	Water primrose wetlands	Unranked	966
<i>Melica torreyana</i> Provisional Alliance	Torrey’s melic grass patches	G2 S2?	967
<i>Mimulus (guttatus)</i> Alliance	Common monkey flower seeps	G4? S3?	968
<i>Montia fontana</i> – <i>Sidalcea calycosa</i> Alliance	Water blinks–Annual checkerbloom vernal pools	G2 S2	970
<i>Muhlenbergia filiformis</i> Provisional Alliance	Pullup muhly meadows	G4? S4?	972
<i>Muhlenbergia richardsonis</i> Provisional Alliance	Mat muhly meadows	G4? S4?	973
<i>Muhlenbergia rigens</i> Alliance	Deer grass beds	G3 S2?	974
<i>Nassella cernua</i> Provisional Alliance	Nodding needle grass grassland	G4 S3?	977
<i>Nassella lepida</i> Provisional Alliance	Foothill needle grass grassland	G3? S3?	978
<i>Nassella pulchra</i> Alliance	Purple needle grass grassland	G4 S3?	979

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<i>Nuphar lutea</i> Provisional Alliance	Yellow pond-lily mats	G5 S3?	983
<i>Oenanthe sarmentosa</i> Alliance	Water-parsley marsh	G4 S2?	984
<i>Oxypolis occidentalis</i> Alliance	Western cowbane meadows	G3 S3	986
<i>Oxyria digyna</i> Provisional Alliance	Mountain sorrel patches	G4 S3?	988
<i>Panicum urvilleanum</i> Alliance	Desert panic grass patches	G3 S1	989
<i>Pennisetum setaceum</i> Semi-Natural Stands	Fountain grass swards	Unranked	991
<i>Penstemon heterodoxus</i> Provisional Alliance	Heretic penstemon patches	G4? S3?	993
<i>Penstemon newberryi</i> Alliance	Mountain pride patches	G4 S4	994
<i>Persicaria lapathifolia</i> – <i>Xanthium strumarium</i> Provisional Alliance	Smartweed–cocklebur patches	G4 S4	996
<i>Phalaris aquatica</i> Semi-Natural Stands	Harding grass swards	Unranked	997
<i>Phlox covillei</i> Alliance	Coville’s phlox fell-fields	G4 S3	999
<i>Phlox pulvinata</i> Alliance	Cushion phlox fell-fields	G4 S3	1001
<i>Phragmites australis</i> Alliance	Common reed marshes	G5 S4?	1003
<i>Plagiobothrys nothofulvus</i> Alliance	Popcorn flower fields	G4 S4	1005
<i>Pleuraphis jamesii</i> Alliance	James’ galleta shrub-steppe	G3 S2	1007
<i>Pleuraphis rigida</i> Alliance	Big galleta shrub-steppe	G3 S2	1009
<i>Poa pratensis</i> Semi-Natural Stands	Kentucky blue grass turf	Unranked	1011
<i>Poa secunda</i> Alliance	Curly blue grass grassland	G4 S3?	1013
<i>Pseudoroegneria spicata</i> Alliance	Bluebunch wheat grass grassland	G4 S2	1016
<i>Ptilagrostis kingii</i> Alliance	King’s needle grass meadows	G4 S4	1018
<i>Ruppia (cirrhosa, maritima)</i> Alliance	Ditch-grass or widgeon-grass mats	G4? S2	1020
<i>Sarcocornia pacifica (Salicornia depressa)</i> Alliance	Pickleweed mats	G4 S3	1022
<i>Saxifraga nidifica</i> Provisional Alliance	Pink saxifrage patches	G4? S3?	1025
<i>Saxifraga tolmiei</i> Provisional Alliance	Patches of Tolmie’s alpine saxifrage	G4 S3?	1026
<i>Schoenoplectus acutus</i> Alliance	Hardstem bulrush marsh	G5 S4	1027
<i>Schoenoplectus americanus</i> Alliance	American bulrush marsh	G5 S3	1030
<i>Schoenoplectus californicus</i> Alliance	California bulrush marsh	G5 S4?	1033
<i>Scirpus microcarpus</i> Alliance	Small-fruited bulrush marsh	G4 S2	1036
<i>Sedum spathulifolium</i> Provisional Alliance	Coast Range stonecrop draperies	G4? S4?	1038
<i>Selaginella bigelovii</i> Alliance	Bushy spikemoss mats	G4 S3	1039
<i>Senecio triangularis</i> Alliance	Herb-rich meadows	G4 S4	1041
<i>Sesuvium verrucosum</i> Alliance	Western sea-purslane marshes	G3? S2	1043
<i>Solidago canadensis</i> Provisional Alliance	Canada goldenrod patches	G4? S4?	1045
<i>Sparganium (angustifolium)</i> Alliance	Mats of bur-reed leaves	G4 S3?	1046
<i>Spartina (alterniflora, densiflora)</i> Semi-Natural Stands	Smooth or Chilean cordgrass marshes	Unranked	1048
<i>Spartina foliosa</i> Alliance	California cordgrass marsh	G3 S3	1050
<i>Spartina gracilis</i> Alliance	Alkali cordgrass marsh	GU S1	1052
<i>Sporobolus airoides</i> Alliance	Alkali sacaton grassland	G4 S2	1054
<i>Stuckenia (pectinata)</i> – <i>Potamogeton</i> spp. Alliance	Pondweed mats	G3G5 S3?	1056
<i>Swallenia alexandrae</i> Special Stands	Patches of Eureka Valley dune grass	G1 S1	1058
<i>Torreyochloa pallida</i> Alliance	Floating mats of weak manna grass	G3 S3?	1059
<i>Triantha occidentalis</i> – <i>Narthecium californicum</i> Alliance	Western false asphodel–California bog asphodel fens	G2? S2?	1061
<i>Trifolium longipes</i> Provisional Alliance	Long-stalk clover meadows	G3? S3?	1063
<i>Trifolium variegatum</i> Alliance	White-tip clover swales	G3? S3?	1064
<i>Typha (angustifolia, domingensis, latifolia)</i> Alliance	Cattail marshes	G5 S5	1067
<i>Veratrum californicum</i> Alliance	White corn lily patches	G5 S4	1070

*see the book for additional G & S Rank rarity descriptors

**Citation: Sawyer, J. O., T. Keeler-Wolf, and J. M. Evens. 2009. A manual of California vegetation, 2nd edition. California Native Plant Society, Sacramento, CA.