19. San Gabriel Canyon SEA

Location

General

The San Gabriel Canyon Significant Ecological Area (SEA) is located along the cismontane foothills of the eastern section of these mountains. Generally, the SEA is centered on the mouths of three major canyons, which flow from the mountains and interconnecting terrain. From west to east these include, Santa Anita, Monrovia and Sawpit, and San Gabriel canyons, which are located above the cities of Sierra Madre, Arcadia, Monrovia, Duarte, Bradbury, Irwindale, and Azusa. A substantial part of the eastern and southern part of the SEA along the San Gabriel River is in the California Audubon-designated State Important Bird Area (IBA) of the Los Angeles Flood Control Basin IBA. The San Gabriel River has largely been dammed and channelized, but with infrequent clearing of the detention basins and wash areas, substantial parts of the San Gabriel River have reverted to riparian habitat or the even more rare alluvial fan habitat, and this attracts many resident birds, as well as numerous spring and winter migrants.

The SEA is found within the, Mount Wilson, Azusa, San Dimas, and Glendora U.S. Geological Survey (USGS) 7.5' California Quadrangles.

General Boundary and Resources Description

Over most of its boundaries (north, east, and west), the SEA is bordered by open space within the Angeles National Forest. However, generally to the south, the borders are defined by the edge of urban development within the San Gabriel Valley. The SEA begins in the west at the peak of Mount Wilson within the Angeles National Forest. Traveling east, the northerly boundary follows a major east-west trending ridgeline to Pine Mountain. This ridgeline defines the separation between the watershed of the San Gabriel River West Fork to the north, and the Santa Anita, Sawpit, and lower San Gabriel canyons to the south. These front-range canyons are tributaries of the San Gabriel River.

At Pine Mountain, the boundary turns south to follow the ridgeline that is the western border of the San Gabriel River, and turns east onto a secondary ridge, and descends towards the San Gabriel River near the Morris Reservoir Dam. This easterly boundary crosses the San Gabriel Canyon at Morris Dam and climbs the adjacent ridgeline to Glendora Ridge and the Glendora Ridge Motorway. The southerly boundary follows the motorway to the west, to the point near the mouth of the San Gabriel Canyon where the motorway leaves the ridgeline. The SEA boundary turns north towards the San Gabriel River, and descends to the opening of the San Gabriel Canyon into the Los Angeles Basin. This is between the Glendora Ridge and the mountains near Fish Canyon. The boundary turns along the southeast side of the San Gabriel River floodplain and follows the east side of the San Gabriel River flood control channel. A development near the mouth of Roberts Canyon that is just north of the river mouth has been excluded from the SEA.

In the mouth of the San Gabriel Canyon is a population of the San Gabriel Mountains live-forever (Dudleya densiflora), which is unusual in that it has multiple dense flower clusters, whereas other live-forevers have one or several flower stalks with spaced blooms. This live-forever is extremely limited in range and occurs only on the slopes of granitic rubble and canyon walls in the nearby south face of the San Gabriel Mountains. Another population is on private land about one mile upstream of the canyon mouth, on the north-side slope of the Glendora Ridge. Another live-forever population is upstream in nearby Fish Canyon, which is a little downstream of the Fish Canyon Falls.
Collections have been made from Mystic Canyon to the east, and Van Tassel Canyon to the west.

The mouth of San Gabriel Canyon and nearby canyons are the principle area for the San Gabriel bedstraw (*Galium grande*), which is another local endemic. The only known populations of the bedstraw and the San Gabriel Mountains live-forever on the planet occur in the County in this small area of the San Gabriel Mountains.

The Los Angeles Flood Control Basin IBA covers all of the SEA in the San Gabriel River and downstream at the Santa Fe Dam Recreation Area. Furthermore, the IBA extends upstream beyond the SEA to the confluence area of the West, North, and East forks of the San Gabriel River in the Angeles National Forest, and it extends downstream beyond Santa Fe Dam to the Whittier Narrows Dam.

A finger of the SEA extends along the San Gabriel River, south of its confluence area with Fish and Van Tassel canyons to pass under the Interstate-210. The finger boundary enlarges around the Santa Fe Flood Control Basin and Recreation Area to include one of the last remaining natural alluvial fan habitats in the County. The Santa Fe Flood Control Basin is one of the most unusual vegetation habitats in the County, and has special sensitive species, as described below in the Vegetation section.

The main SEA boundary continues just west of the Van Tassel Canyon confluence along the north side of the Encanto Equestrian Center, along the northern extent of development in the City of Duarte. A lobe of the SEA encloses the natural habitat of the steep watershed areas of Spinks and Maddox canyons, extending to the edge of development in the City of Bradbury. The ridge bordering the southeast side of Bliss Canyon is the western edge of the lobe, and the boundary crosses Bliss Canyon at its upper end near the Van Tassel Truck Trail. At this point the boundary of the SEA has reentered the Angeles National Forest. After crossing Bliss Canyon, the boundary follows the southern ridgeline of Spanish Canyon westward to cross out of the Angeles National Forest, tracking around the northern arm of the City of Monrovia. The Sawpit Debris Basin is included in the SEA as is the undeveloped part of Monrovia Canyon Park. To the west of Monrovia Canyon, a lobe of the SEA extends along the undeveloped ridges of the San Gabriel Mountains bordered by the urban edges of the City of Monrovia and City of Arcadia. These communities extend into the mountains where the cities have municipal water rights. The southern boundary skirts the edge of development in Santa Anita Canyon, but includes the Santa Anita Debris Basin, Arcadia Natural Park, Big Santa Anita Dam and Reservoir, and the Santa Anita Canyon stream course above the Dam, which has numerous lease-hold cabins north of the 1600 feet elevation contour. The boundary reenters the Angeles National Forest just north of Arcadia Natural Park.

The southern ridge of Sawpit Canyon, from its dam to about a 0.5 mile upstream has a population of the endangered San Gabriel bedstraw (*Galium grande*), which is an endemic species of highly restricted distribution. It occurs only on the south slopes of the western section of the San Gabriel Mountains.

Within the SEA, just to the south of Arcadia Natural Park is a Santa Anita Canyon tributary, Clamshell Canyon. On the south banks and ridge of Clamshell Canyon is critical habitat for the federally-endangered Braunton’s milk-vetch (*Astragalus brauntonii*), which is a locoweed that prefers interbedded sandstone and carbonate substrate, probably deposited near the coastline of former oceans. Very limited areas of this substrate occur at the boundary of the San Gabriel Mountains in this area. Most of the rocks of the San Gabriel Mountains are igneous granites and metamorphic rocks.

Santa Anita Canyon has some stands of Pacific madrone (*Arbutus menziesii*), which is a plant known elsewhere from the Pacific coast north of Santa Barbara to British Columbia. The Santa Anita stands are isolated occurrences, which is one of the few places madrone is found between Santa
Barbara and Baja California.

Near the confluence with Winter Creek in the vicinity of Chantry Flats, the southern boundary of the SEA turns west and climbs the southern ridgeline of Winter Creek, including Winter Creek watershed in the SEA and excluding San Olene Canyon on the south. The boundary follows the ridgeline, marking the southern limits of the Winter Creek watershed to Mount Harvard, and then travels along the Harvard ridgeline to Mount Wilson.

The SEA is comprised of three major canyons: San Gabriel, Sawpit, and Santa Anita. In general, the topography of the SEA is severe, consisting of steep-walled canyons and narrow ridgelines. Elevations range from a high of approximately 5,710 feet above mean sea level (MSL) at Mount Wilson, to a low of approximately 660 feet above MSL in San Gabriel Canyon. Numerous drainages and tributaries of the main canyons are included in the SEA and exit the San Gabriel Mountains into the Los Angeles Basin through this SEA.

The wide range of elevation, topography, slope aspect, and geology represent a wide array of physical habitats within this SEA. Consequently, a number of plant communities exist, including grasslands, riparian, shrublands, woodlands, and forests. Within these major community types, there are many sub-communities, which vary according to plant species dominance. Of particular note, this SEA contains the last remaining relatively well-developed lower montane riparian habitats in the eastern County and dammed drainages that have created significant reservoirs or flood control basins in Sawpit and Santa Anita canyons. Enclaves of sensitive plant species and vegetation habitats are found here. Other jurisdictions within the SEA include the unincorporated area of the County, the City of Arcadia, City of Monrovia, City of Bradbury, City of Irwindale, City of Duarte, City of Azusa, and the City of Glendora.

Vegetation

There are numerous special vegetation habitats in this SEA. By virtue of elevation, rugged topography of ridges and canyons, variation in aspect due to faulting, and contiguous high elevation areas in the San Gabriel Mountains, this SEA has numerous habitats that are not represented in many or sometimes any of the other SEAs. The coniferous forests, oak tree forests, canyon floras, and various kinds of chaparral contribute to a multitude of habitat types. Some of the very special areas mentioned briefly here are the Santa Fe Dam Recreation Area, which is on an alluvial fan, the canyons that debouch onto the alluvial fans of the Los Angeles Basin, and populations of rare and uncommon species that occur throughout the SEA area.

The floodplain of the San Gabriel River behind Santa Fe Dam supports one of the last examples of alluvial fan, which was once found all along the San Gabriel Mountains where the numerous canyon outwash areas cross the thrust faults that create the mountains, and deposit their sediment loads onto the floor of the Los Angeles Basin. The alluvial fan vegetation supports a community of organisms that is disappearing from the County. It has plant species that are now unusual on the coastal side of the San Gabriel Mountains and uncommon in the Los Angeles Basin, such as California juniper (Juniperus californica), white alder (Alnus rhombifolia), and the stands of native cactus Opuntia littoralis (prickly pear) and O. parryi (cholla). It also has many native plants from the alluvial fan community that are still common along the mountain front. This habitat has been largely displaced by urbanization and flood control projects. The bajada, or connected fans, once enabled wildlife movement all along the face of the San Gabriel Mountains and connected the canyon communities with one another. The soft-bottomed channel of the San Gabriel River connects the Santa Fe Recreation area with the San Gabriel Mountains, and the willow- and mulefat-dominated riparian scrub provides the natural base for the community along the river and around the Santa Fe Dam Reservoir. The avian fauna here is very sensitive and directly related to the vegetation that occurs. One of the County’s biggest populations of the state and federally-endangered least Bell’s vireo (Vireo bellii pusillus) occurs and nests at the Santa Fe Dam Recreation area, as well as in
other debris basins that have naturally-regenerated growth of willows and other riparian shrubs, where basins that are not scoured by too often. A species of special concern, the yellow-breasted chats (Icteria virens) prefer the elderberry and mulefat thickets. Fully-protected white-tailed kites (Elanus leucurus) hunt over the low-profile, expansive fan vegetation. The very sensitive coastal cactus wren (Campylorhynchus brunneicapillus sandiegensis), extirpated in most of the County, can breed in the cholla and prickly-pear cactus thickets of the alluvial fan area. Uncommon riparian species, such as rock wren (Salpinctes obsoletus), yellow warbler (Dendroica petechia brewsteri), and willow goldfinch (Spinus tristis salicamans) are frequently encountered in the riparian areas of the Santa Fe Dam Recreation Area.

Special sensitive plants that are extremely localized are found in this SEA. These include the San Gabriel bedstraw and the San Gabriel live-forever. The critical habitat of the endangered Braunton’s milk-vetch along Clamshell Canyon is noted. The Pacific madrone in Santa Anita Canyon is an example of what is probably a lone occurrence in the County. There may be other plants like the madrone in botanically-unexplored areas of the rugged front-range of the San Gabriel Mountains in this SEA.

The variety of topography, soil types, slope aspects and water availability within the SEA creates a range of physical habitats, which support numerous plant species. Plant species observed or recorded in previous documentation within the SEA are indicated in the Comprehensive Floral & Faunal Compendium of the Los Angeles County SEAs. Sensitive plant species occurring or potentially occurring within the SEA are discussed in the Sensitive Biological Resources section.

Brief descriptions and general locations of each major plant community present within the SEA are provided below, including bigcone Douglas fir-canyon oak forest, white alder riparian forest, alluvial fan scrub, oak woodland, oak riparian forest, walnut woodland, southern willow scrub, chaparral, coastal sage scrub, and non-native grassland.

**Bigcone Douglas Fir–Canyon Oak Forest:** An open to dense forest dominated by bigcone Douglas fir (Pseudotsuga macrocarpa) 50 to 80 feet tall over a dense canopy of canyon live oak (Quercus chrysolepis). It is found scattered throughout the SEA on canyon sides at elevations generally above 2,500 feet where it occupies rocky substrates. It commonly occurs in fairly small enclaves within chaparral.

**Corresponding MCV communities:**
- *Pseudotsuga macrocarpa* (bigcone Douglas-fir forest) Forest Alliance
- *Quercus chrysolepis* (canyon live oak forest) Forest Alliance

**White Alder Riparian Forest:** Along the upper reaches of many drainages in the SEA, white alder riparian forest is found. This community is dominated by white alder (Alnus rhombifolia), which grow 30 to 40 feet high over a shrub understory. It typically grows along streams in bedrock-constrained, steep-sided canyons, resulting in a fairly narrow riparian corridor.

**Corresponding MCV communities:**
- *Alnus rhombifolia* (white alder groves) Forest Alliance

**Alluvial Fan Scrub:** A shrub community characterized by harsh substrates subject to episodic flooding and scouring. It is generally restricted to broad canyon outwashes, or alluvial washes. It is found in this SEA at the San Gabriel Canyon mouth where it forms an open, shrub-dominated vegetation within areas of bare, scoured ground in between.

**Corresponding MCV communities:**
- *Artemisia californica-Eriogonum fasciculatum* (California sagebrush-California buckwheat scrub) Shrubland Alliance
- *Eriogonum fasciculatum-Salvia apiana* (California buckwheat-white sage scrub) Shrubland Alliance
- *Lepidospartum squamatum* (scale broom scrub) Shrubland Alliance
- *Malosma laurina* (laurel sumac scrub) Shrubland Alliance

**Oak Woodland**: A plant community dominated by species of the oak genus (*Quercus*). Within this SEA, this community includes coast live oak (*Q. agrifolia* var. *agrifolia*), which typically grows to heights of 20 to 40 feet and the somewhat smaller interior live oak (*Q. wislizenii*) and canyon oak, and forms either closed or open tree canopies. Understory vegetation varies from grassland in level areas to shrubs where topography is steeper. It may also intergrade with shrub communities. Within this SEA oak woodland is scattered throughout and most prevalent on north-facing slopes and in drainage bottoms.

Corresponding MCV communities:
- *Quercus agrifolia* (coast live oak woodland) Woodland Alliance
- *Quercus engelmannii* (Engelmann oak woodland) Woodland Alliance

**Oak Riparian Forest**: A highly related community to oak woodlands found in the SEA. This community is also dominated by coast live oak (or canyon oak at higher elevations). The primary difference between oak woodland and oak riparian forest is the greater availability of water in riparian situations, which is expressed in a denser tree canopy and higher density of trees. There are also a greater number of hydrophytic (moister favoring) plant species in the understory. Typical riparian trees, such as western sycamore (*Platanus racemosa*) and willow (*Salix spp.*) occasionally occur. Oak riparian forest is best developed within broader, more level gradient drainages of this SEA.

Corresponding MCV communities:
- *Quercus chrysolepis* (canyon live oak forest) Forest Alliance

**Walnut Woodland**: Often intergrades with oak dominated woodlands or develops as a distinct community. This community is dominated by Southern California black walnut (*Juglans californica*), which grows 10 to 30 feet high. More often than not, walnut woodland in this SEA is highly intermixed with oak woodland and chaparral, and large monotypic stands are uncommon.

Corresponding MCV communities:
- *Juglans californica* (Southern California black walnut groves) Woodland Alliance

**Southern Willow Scrubs**: Found along widely scattered reaches of several drainages throughout this SEA. This community is dominated by species of willow, which form nearly monotypic stands due to their dense growth with an occasional cottonwood. These stands generally reach 10 to 20 feet in height with little understory vegetation.

Corresponding MCV communities:
- *Salix exigua* (sandbar willow thickets) Shrubland Alliance
- *Salix lasiolepis* (arroyo willow thickets) Shrubland Alliance

**Chaparral**: A shrub community composed of robust species. Within this SEA, a number of chaparral
subcommunities are found, which are differentiated by their dominant plant species. These include chamise, buck brush (Ceanothus spp.), scrub oak (Quercus durata var. gabrielensis), interior shrub live oak (Quercus wislizeni var. frutescens), and mosaics of these depending on mixtures of species and elevation. These and other shrub species form dense vegetation covers growing 5 to 10 feet in height. The development of chaparral is pronounced over large hillside areas throughout the SEA.

Corresponding MCV communities:
- Adenostoma fasciculatum (chamise chaparral) Shrubland Alliance
- Adenostoma fasciculatum-Salvia apiana (chamise-white sage chaparral) Shrubland Alliance
- Arctostaphylos glandulosa (chamise chaparral) Shrubland Alliance
- Arctostaphylos glauca (bigberry manzanita chaparral) Shrubland Alliance
- Ceanothus gregii [Ceanothus vestitus] (cup leaf chaparral) Shrubland Alliance
- Ceanothus leucodermis (chaparral whitethorn) Shrubland Alliance
- Ceanothus spinosus (greenbark ceanothus chaparral) Shrubland Alliance
- Ceanothus oliganthus (hairy leaf ceanothus chaparral) Shrubland Alliance
- Prunus ilicifolia (holly leaf cherry chaparral) Shrubland Alliance
- Rhus ovata (sugarbush chaparral) Shrubland Alliance

Coastal Sage Scrub: A shrubland community exhibiting less robust structure found in this SEA. This plant community is dominated by California sagebrush (Artemisia tridentata), California brittle bush (Encelia californica), white sage (Salvia apiana), black sage (S. mellifera), and California buckwheat (Eriogonum fasciculatum). It also forms dense stands, which grow three to four feet in height. Within this SEA, it is generally found in scattered patches, which are highly integrated with mixed chaparral. These are primarily located in the lower elevation hillsides of the SEA.

Corresponding MCV communities:
- Artemisia californica (California sagebrush scrub) Shrubland Alliance
- Artemisia californica-Salvia mellifera (California sagebrush-black sage scrub) Shrubland Alliance
- Artemisia californica-Eriogonum fasciculatum (California sagebrush-California buckwheat scrub) Shrubland Alliance
- Encelia californica (California brittle bush scrub) Shrubland Alliance
- Dendromecon rigida (bush poppy scrub) Shrubland Alliance
- Salvia apiana (white sage scrub) Shrubland Alliance
- Salvia leucophylla (purple sage scrub) Shrubland Alliance
- Salvia mellifera (black sage scrub) Shrubland Alliance
- Eriogonum cinereum (ashy buckwheat scrub) Shrubland Alliance
- Eriogonum fasciculatum (California buckwheat scrub) Shrubland Alliance
- Eriogonum fasciculatum-Salvia apiana (California buckwheat-white sage scrub) Shrubland Alliance
- Eriogonum wrightii (Wright’s buckwheat patches) Shrubland Alliance
- Ericameria linearifolia (narrowleaf goldenbush scrub) Provisional Shrubland Alliance
- Hazardia squarrosa (sawtooth golden bush scrub) Shrubland Alliance
- Lotus scoparius [Acmispon glaber] (deer weed scrub) Shrubland Alliance
- Lupinus albifrons (silver bush lupine scrub) Shrubland Alliance
- Malacothamnus fasciculatus (bush mallow scrub) Shrubland Alliance

Non-Native Grassland: Dominated by non-native annual grasses and forbs. These opportunistically growing species include brome grasses, wild oats and mustards. Characteristic of other parts of Southern California, this community became established as a result of livestock grazing and
agriculture, as native vegetation is removed, sometimes by mechanical means, and replaced by more opportunistic species. Non-native grassland is found throughout the SEA.

Corresponding MCV communities:

- *Avena (barbata, fatua)* (wild oats grasslands) Semi-Natural Herbaceous Stands

**Wildlife**

Wildlife populations within the SEA are diverse and abundant due to the region’s physiographic diversity, its relative isolation, and its location within and adjacent to the Angeles National Forest. The analysis of invertebrates is severely limited due to the lack of specific data, however, the SEA is likely to support healthy populations of a diverse assortment of invertebrate species based on the undisturbed nature and variety of habitats. Fair numbers of amphibians are expected to be present primarily due to the aquatic and semi-aquatic habitats provided within the numerous drainages and several reservoirs. Reptile abundance and diversity are expected to be characteristic for the habitats present, although areas closer to urban development along the southern boundaries of this SEA are likely to be suppressed due to edge effect.

Bird use, diversity, and abundance within the SEA are expected to be high for several reasons. In general, this SEA provides habitat for a wide range of shrubland, woodland, forest, and riparian species that occur at varying elevations. In particular, the riparian habitats found in drainages throughout this SEA provide essential habitat for riparian-obligate and riparian-favoring species. In addition, a number of migratory birds use this area to move across the northern portion of the Los Angeles Basin. These include a wide spectrum of birds including song bird, waterfowl, and raptorial species.

Similarly, the mammalian fauna is expected to be very diverse and abundant. The vast open space of the Angeles National Forest and its diversity of habitats exerts much influence on the great variety of taxa in this SEA. Virtually all mammalian species found in the forest (with the exception of Nelson’s bighorn sheep *(Ovis canadensis nelsoni)*) are expected to be found in this SEA. Frequent observations of American black bear *(Ursus americanus)* and mountain lion *(Puma concolor)* in foothill communities attest to the range of species expected.

**Wildlife Movement**

Wildlife movement within the SEA takes on two major forms. First, due to the extreme intervening topography, it is logical to expect considerable movement of wildlife up and down the sizeable drainages, which course through this SEA to connect the forest interior with foothill areas. Consequently, this type of movement occurs on a seasonal and more frequent basis, particularly for large mobile mammals whose full range of habitat needs are typically met over broad areas, including American black bear, mountain lion, coyote *(Canis latrans)*, mule deer *(Odocoileus hemionus)*, gray fox *(Urocyon cinereoargenteus)*, and other medium-sized mammals.

The second major type of movement occurs across the flanks of the foothills and lower mountains, in an east-west direction. Particularly for riparian-favoring migratory birds, a corridor linking lower elevation riparian habitats in the SEA is of high use and importance. In addition to providing essential habitat for resident riparian birds, this SEA contains some of the best developed riparian habitat for birds, which are seasonal visitors to the cismontane region of the County.

**Sensitive Biological Resources**

Sensitive biological resources are habitats or individual species that have special recognition by federal, state, or local conservation agencies and organizations as endangered, threatened, and/or
rare. This is due to the species' declining or limited population sizes, which usually results from habitat loss. Watch lists of such resources are maintained by the California Department of Fish and Game (CDFG), the United States Fish and Wildlife Service (USFWS), and special groups, such as the California Native Plant Society (CNPS). The following sections indicate the habitats as well as plant and animal species present, or potentially present within the SEA, which have been accorded special recognition. When species are federally-listed as endangered or threatened, they often have federally-designated, geographically-specific "critical habitat areas." Critical habitat areas, after extensive study by experts, are judged to be essential to conservation and maintenance of the species. The Braunton’s milk-vetch has critical habitat in this SEA.

**Sensitive Plan Communities and Habitats**

The SEA supports several habitat types considered sensitive by resource agencies. These are inventoried by California Department of Fish and Game (CDFG) in the California Natural Diversity Database (CNDDB) [2011]. The CNDDB includes state and federally-listed endangered, threatened, and rare vascular plants, as well as several sensitive vertebrate species. These communities include bigcone Douglas-fir forest, California buckwheat-white sage scrub, scale broom scrub, Engelmann oak woodland, Southern California black walnut groves, chamise-white sage chaparral, cup leaf ceanothus chaparral, hairy leaf ceanothus chaparral, holly leaf cherry chaparral, California brittle bush scrub, white sage scrub, ashy buckwheat scrub, Wright’s buckwheat patches, narrowleaf goldenbush scrub, and sawtooth golden bush scrub. These communities, or closely related designations, are considered high priority communities by the CDFG, which indicates that they are experiencing a decline throughout their range. The array and composition of these communities has been discussed in the Vegetation section.

**Sensitive Plant Species**

The statuses of rare plants are hierarchically categorized by the CNPS using a rank and decimal system. The initial category level of Rare Plant Rank is indicated by the ranks 1A (presumed extinct in California), 1B (rare or endangered in California and elsewhere), 2 (rare or endangered in California but more common elsewhere), 3 (more information needed, a review list), and 4 (limited distribution). In cases where the CNPS has further identified the specific threat to the species, a decimal or Threat Code is added: .1 (seriously endangered in California), .2 (fairly endangered in California), or .3 (not very endangered in California).

The following special-status plant taxa have been reported or have the potential to occur within the SEA, based on known habitat requirements and geographic range information:

- Slender silver moss (*Anomobryum julaceum*) RPR 2.2
- Scalloped moonwort (*Botrychium crenulatum*) RPR 2.2
- Sonoran maiden fern (*Thelypteris puberula var. sonorensis*) RPR 2.2
- San Gabriel manzanita (*Arctostaphylos glandulosa ssp. gabrieliensis*) RPR 1B.2
- Braunton’s milk-vetch (*Astragalus brauntonii*) FE, RPR 1B.1
- Nevin’s barberry (*Berberis nevinii*) FE, SE, RPR 1B.1
- Round-leaved filaree (*California macrophylla*) RPR 1B.1
- Southern tarplant (*Centromadia parryi ssp. australis*) RPR 1B.1
- Parry’s spineflower (*Chorizanthe parryi var. parryi*) RPR 1B.1
- Peruvian dodder (*Cuscuta obtusiflora var. glandulosa*) RPR 2.2
- Slender-horned spineflower (*Dodecahema leptoceras*) FE, SE, RPR 1B.1
- San Gabriel River dudleya (*Dudleya cymosa ssp. crebrifolia*) RPR 1B.2
- San Gabriel Mountains dudleya (*Dudleya densiflora*) RPR 1B.1
- Many-stemmed dudleya (*Dudleya multicaulis*) RPR 1B.2
• Mesa horkelia (*Horkelia cuneata* ssp. *puberula*) RPR 1B.1
• Coulter's goldfields (*Lasthenia glabratra* ssp. *coulteri*) RPR 1B.1
• Robinson's pepper-grass (*Lepidium virginicum* var. *robinsonii*) RPR 1B.2
• White rabbit-tobacco (*Pseudognaphalium leucocephalum*) RPR 2.2
• Parish’s gooseberry (*Ribes divaricatum* var. *parishii*) RPR 1A
• Chaparral ragwort (*Senecio aphanactis*) RPR 2.2
• San Bernardino aster (*Symphyotrichum defoliatum*) RPR 1B.2
• Great's aster (*Symphyotrichum greate*) RPR 1B.3
• Thread-leaved brodiaea (*Brodiaea filifolia*) FT, SE, RPR 1B.1
• Slender mariposa lily (*Calochortus clavatus* var. *gracilis*) RPR 1B.2
• Palmer’s mariposa lily (*Calochortus palmeri* var. *palmeri*) RPR 1B.2
• Plummer's mariposa lily (*Calochortus plummerae*) RPR 1B.2
• Intermediate mariposa lily (*Calochortus weddii* var. *intermedius*) RPR 1B.2
• Western sedge (*Carex occidentalis*) RPR 2.3
• California sawgrass (*Cladium californicum*) RPR 2.2
• Vernal barley (*Hordeum intercedens*) RPR 3.2
• California satintail (*Imperata brevifolia*) RPR 2.1

**Sensitive Animal Species**

The following special-status animal species are reported or are likely to be present within the SEA based on habitat requirements and known range attributes:

• Santa Ana sucker (*Catostomus santaanae*) FT, SSC
• Arroyo chub (*Gila orcuttii*) SSC
• Santa Ana speckled dace (*Rhinichthys osculus* ssp. 3) SSC
• Arroyo toad (*Anaxyrus californicus*) FE, SSC
• San Gabriel Mountains slender salamander (*Batrachoseps gabieli*) FSS
• Large-blotched salamander (*Ensatina klauberi*) FSS, SSC
• Sierra Madre yellow-legged frog (*Rana muscosa*) FE, FSS, SSC
• Coast range newt (*Taricha torosa*) SSC
• Coastal whiptail (*Aspidoscelis tigris stejnegeri*) CDFG Special Animals List
• Rosy boa (*Charina trivirgata*) BLMS, FSS
• Western pond turtle (*Emys marmorata*) BLMS, FSS, SSC
• Coast horned lizard (*Phrynosoma blainvillii*) BLMS, FSS, SSC
• Two-striped garter snake (*Thamnophis hammondii*) BLMS, FSS, SSC
• Cooper’s hawk (*Accipiter cooperii*) CDFG Watch List
• Southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*) CDFG Watch List
• Coastal cactus wren (*Campylorhynchus brunneicapillus sandiegensis*) SSC, FSS, BCC
• Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) FC, BCC, FSS, SE
• Black swift (*Cypseloides niger*) BCC, SSC, USBC, AWL, ABC
• Yellow warbler (*Dendroica petechia brewsteri*) SSC, BCC
• Southwestern willow flycatcher (*Empidonax trailli extimus*) FE, FSS, SE, USBC, AWL, ABC
• Merlin (*Falco columbarius*) CDFG Watch List
• Yellow-breasted chat (*Icteria virens*) SSC
• Coastal California gnatcatcher (*Polioptila californica californica*) FT, SSC, USBC, AWL, ABC
• Bank swallow (*Riparia riparia*) ST
• Least Bell's vireo (*Vireo bellii pusillus*) FE, BCC, SE, USBC, AWL, ABC
Pallid bat (*Antrozous pallidus*) FSS, BLMS, SSC, WBWG High
Western mastiff bat (*Eumops perotis californicus*) BLMS, SSC, WBWG High
Hoary bat (*Lasiurus cinereus*) WBWG Medium
Western yellow bat (*Lasiurus xanthinus*) WBWG High
San Diego black-tailed jackrabbit (*Lepus californicus bennettii*) SSC
Fringed myotis (*Myotis thysanodes*) BLMS, WBWG High
Long-legged myotis (*Myotis volans*) BLMS, SSC, WBWG Medium
Yuma myotis (*Myotis yumaensis*) BLMS, WBWG Low-Medium
Pocketed free-tailed bat (*Nyctinomops femorosaccus*) SSC, WBWG Medium
Big free-tailed bat (*Nyctinomops macrotis*) SSC, WBWG Medium-High
American badger (*Taxidea taxus*) SSC

**Ecological Transition Areas (ETAs)**

There is one ETA in this SEA in an aggregate quarry at the mouth of Fish Canyon.

**Regional Biological Value**

The SEA meets several SEA designation criteria and supports many regional biological values. Each criterion and how it is met described below.

**CRITERIA ANALYSIS OF THE SAN GABRIEL CANYON SEA**

<table>
<thead>
<tr>
<th>Criterion</th>
<th>Status</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) The habitat of core populations of endangered or threatened plant or animal species.</td>
<td>Met</td>
<td>The SEA contains a core habitat area for the endangered plant Braunton’s milkvetch. The upper San Gabriel River is a core habitat of several native fishes, one of the last areas where three of five original natives occur together: federally-threatened Santa Ana sucker, and the arroyo chub and Santa Ana speckled dace, which is of state concern. All three live in the San Gabriel River in the SEA area. A local population of the speckled dace is known from the mouth of Fish Canyon. The very rare San Gabriel bedstraw and San Gabriel Mountains live-forever only occur in this area of the world.</td>
</tr>
<tr>
<td>B) On a regional basis, biotic communities, vegetative associations, and habitat of plant or animal species that are either unique or are restricted in distribution.</td>
<td>Met</td>
<td>The SEA contains habitat of extremely rare plants: San Gabriel bedstraw and the San Gabriel Mountains dudleya. In addition, several plant communities within this SEA are CDFG highest priority communities due to their restricted distribution in the Southern California region. These communities include walnut woodland, oak riparian woodland, southern willow scrub, coastal sage scrub, and alluvial fan scrub. The federally-endangered California gnatcatcher has been recently sighted in the Glendora foothills, and probably maintains a small population along</td>
</tr>
<tr>
<td>Criterion</td>
<td>Status</td>
<td>Justification</td>
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<tr>
<td>C) Within the County, biotic communities, vegetative associations, and habitat of plant or animal species that are either unique or are restricted in distribution.</td>
<td>Met</td>
<td>All of the plant communities and habitats mentioned as being restricted in distribution on a regional basis, are also restricted in distribution within the County.</td>
</tr>
<tr>
<td>D) Habitat that at some point in the life cycle of a species or group of species, serves as concentrated breeding, feeding, resting, or migrating grounds and is limited in availability either regionally or in the County.</td>
<td>Met</td>
<td>The three major canyons within this SEA support well-developed and diverse riparian woodlands, as well as year-round water sources. These represent important stopover and overwintering areas for a wide variety of migratory birds, as well as essential habitat for resident species. These canyons also support seasonal and more frequent movement for wide-ranging mammals, which must move over large areas to fulfill their habitat requirements.</td>
</tr>
<tr>
<td>E) Biotic resources that are of scientific interest because they are either an extreme in physical/geographical limitations, or represent unusual variation in a population or community.</td>
<td>Met</td>
<td>The SEA contains biotic resources that are of scientific interest for their very restricted distributions: the San Gabriel bedstraw, the San Gabriel Mountains live-forever, and a local isolated population of the Pacific madrone. The population of Santa Ana speckled dace in Fish Canyon may be the remaining extreme western extent of its population.</td>
</tr>
<tr>
<td>F) Areas that would provide for the preservation of relatively undisturbed examples of the original natural biotic communities in the County.</td>
<td>Met</td>
<td>Virtually all of the native biotic communities within this SEA are relatively undisturbed over most of their extent. Because urbanization throughout much of the County’s foothill regions has removed large expanses of these communities, those in the SEA are particularly important to the County’s natural heritage.</td>
</tr>
</tbody>
</table>

In conclusion, the area is an SEA because it contains: A) the habitat of core populations of endangered and threatened plant and animal species; B-C) biotic communities, vegetative associations, and habitat of plant and animal species that are either unique or are restricted in distribution in the County and regionally; D) concentrated breeding, feeding, resting, and migrating grounds, which are limited in availability in the County; E) populations of scientific interest because of very restricted distributions and isolated populations; and F) areas that provide for the preservation of relatively undisturbed examples of original natural biotic communities in the County.
19. San Gabriel Canyon SEA Sources


County of Los Angeles, Department of Regional Planning. 2006. San Gabriel Canyon SEA Description, Los Angeles County, California.


