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5.1 ADJACENT LAND USE

<i>Land Owner</i>	<i>Border Shared (miles)*</i>	<i>Border Shared (%)*</i>
Bureau of Indian Affairs	19.86	5.27
Bureau of Land Management (BLM)	70.00	18.58
BLM Wilderness	61.53	16.33
City/County Park	6.39	1.70
Cuyamaca Rancho SP	2.75	.73
CA Department of Fish & Game	12.10	3.21
Ocotillo Wells SVRA	16.10	4.27
Parks & Recreation	.11	0.03
Private (external)	113.23	30.04
Private (internal)	62.08	16.47
State Land Commission	7.79	2.07
U.S. Forest Service	4.91	1.30
Total	376.85	100

*All numbers in this table are approximate mileage and percentage values; not intended to be exact figures.

5.2 POTENTIAL SOIL SERIES*USDA Soil Series Descriptors*

<i>Acid igneous rock land</i>
<i>Badland</i>
<i>Bancas stony loam</i>
<i>Calpine coarse sandy loam</i>
<i>Carrizo very gravelly sand</i>
<i>Crouch rocky coarse sandy loam</i>
<i>Crouch stony fine sandy loam</i>
<i>Holland stony fine sandy loam</i>
<i>Indio silt loam</i>
<i>La Posta loamy coarse sand</i>
<i>La Posta rocky loamy coarse sand</i>
<i>La Posta-sheephead complex</i>
<i>loamy alluvial land</i>
<i>Mecca coarse sandy loam</i>
<i>Mecca fine sandy loam</i>
<i>metamorphic rock land</i>
<i>Mottsville loamy coarse sand</i>
<i>Playas</i>
<i>Ramona sandy loam</i>
<i>Ramona gravelly sandy loam</i>
<i>Reiff fine sandy loam</i>
<i>Riverwash</i>
<i>Rositas fine sand</i>
<i>Rositas fine sand (hummocky)</i>
<i>Rositas loamy coarse sand</i>
<i>rough broken land</i>
<i>Sheephead rocky fine sandy loam</i>
<i>sloping gullied land</i>
<i>stony land</i>
<i>terrace escarpments</i>
<i>Tollhouse rocky coarse sandy loam</i>

5.3 PLANT AND ANIMAL SENSITIVITY CODES

State and Federal Species Designations

*FE	Federal Endangered species	Listed as federally Endangered under the Federal Endangered Species Act (ESA), 1973 as amended. Taxa are in danger of becoming extinct throughout all or a significant portion of their range.
FT	Federal Threatened species	Listed as federally Threatened under the Federal ESA. Taxa, which are likely to become endangered in the foreseeable future in the absence of special protection.
FP	Federally proposed for listing	Taxa that are Proposed in the Federal Register to be listed as Endangered or Threatened under Section 4 of the ESA.
*FSC	Federal Species of Special Concern	The United State Fish and Wildlife Service (FWS) suggests that this term, because it holds no official status under the Federal ESA, be considered as a "term-of-art" that describes the entire realm of taxa whose conservation status may be of concern to the Service
*SE	State listed Endangered	Native California taxa, which are in serious danger of becoming extinct throughout all or a significant portion of their range. Listed as Endangered under the California Endangered Species Act (CESA)
ST	State listed Threatened	Native California taxa, which although not presently threatened with extinction, likely to become Endangered in the foreseeable future, in the absence of special protection and management efforts. Listed as Threatened under the CESA
SR	State listed Rare	Native California taxa, which although not presently threatened with extinction, are likely to become Threatened in the foreseeable future, in the absence of special protection and management efforts. Listed as Rare under the CESA
SC	State Candidate for listing as Endangered, Threatened, or Rare.	Native California taxa, which are not presently threatened with extinction. However, the species, subspecies, or variety is found in such small numbers throughout its range that it may be endangered if its environment worsens.
CSC	California Species of Special Concern	The California Department of Fish and Game (DFG) provides a list of those species that may not warrant an official listing under the CESA, but do warrant watching closely due to declining habitat availability or a restricted distribution in California.
*DFG	California Fully protected or Protected species	Fully protected species may not be possessed or taken without a permit from the Fish and Game Commission and/or the California Department of Fish and Game.

- *FE:** The official Federal listing of Endangered, Threatened, or Proposed animals is published in the Federal Register, 50 CFR 17.11.
- *FSC:** Plants and animals with the FSC status were once compiled in the Category 2 (C2) Candidate list. The C2 designation was reclassified and eliminated in 1996 (61 FR 7457; February 28, 1996) and many of the species on that list were then defined under the term "Federal Species of Concern." However, this too has been eliminated by the Service and is only included here following the DFG lead as provided for informational purposes only. State Parks believes that using these species in sensitive species lists furthers our effort towards natural resource protection.
- *SE:** The official California listing of Endangered and Threatened for animals is contained in the California Code of Regulations, Title 14, Division 1, Subdivision 1, Chapter 3, Section 670.5. State listing is pursuant to §1904 (Native Plant Protection Act of 1977) and §2074.2 and 2075.5 (California Endangered Species Act of 1984) of the Fish and Game Code, relating to listing of Endangered, Threatened, and Rare species of plants and animals.
- *DFG:** Information on Fully protected species can be found in the Fish and Game Code (birds at §3511, reptiles and amphibians at §5050, and fish at §5515). Information on Fully protected fish can be found in the California Code of Regulations, Title 14, Division 1, Subdivision 1, Chapter 2, Article 4, §5.93. Information on native amphibians can be found in Chapter 5, §41, and Protected native reptiles at §42.

Additional Designations

BLMS	The Bureau of Land Management (BLM) defined sensitive species	BLM defines sensitive species as "those species (1) that are under status review by the Service; (2) whose number are declining so rapidly that Federal listing may become necessary; (3) with typically small and widely dispersed populations; or (4) inhabiting ecological refugia or other specialized or unique habitats."
FSS	Forest Service (FS) defined sensitive species.	The FS participates in recovery programs with DFG and the FWS to restore declining populations and protect habitats. FS "sensitive species" programs identify and manage species whose populations are declining.
MNBMC	Fish and Wildlife Service Migratory Non-game Birds of Management Concern	Species of migratory non-game birds that are considered to be of concern in the US because of (1) documented or apparent population declines (2) small or restricted populations, or (3) dependence on restricted or vulnerable habitats.
ACWL	The Audubon Society's state WatchList for California.	The state WatchLists were developed using the Partners in Flight (PIF) data and prioritization process. The state lists are an additional tool designed to help conserve local bird populations.
PIFWL	Partners in Flight (PIF) Watch List (WL) for California	PIF compiles a WatchList, which identifies North American bird species that are faced with population decline, limited geographic range, and/or threats such as habitat loss on their breeding and wintering grounds.
WBWGHP	Western bat working group (WBWG) High Priority (HP)	The WBWG designates species as High Priority that are imperiled or are at high risk of imperilment based on available information on distribution, status, ecology, and known threats.

Plant Sensitivity Lists and Codes

[California Native Plant Society (CNPS) Designations]

Sensitivity lists

List 1A	Species presumed extinct in California
List 1B	Plants rare, threatened, or endangered in California and elsewhere
List 2	Plants rare, threatened or endangered in California, but more common elsewhere
List 3	Plants about which more information is needed
List 4	Plants of limited distribution. A watch list for species that need to be monitored.

Rarity (R) Codes

1	Rare but found in sufficient numbers and distributed widely enough that the potential for extinction or extirpation is low at this time.
2	Distributed in a limited number of occurrences, occasionally more if each occurrence is small
3	Distributed in one to several highly restricted occurrences, or present in such small numbers that it is seldom reported.

Endangered (E) Codes

1	Not Endangered
2	Endangered in a portion of its range
3	Endangered throughout its range

Distribution (D) Codes

1	More or less widespread outside California
2	Rare outside California
3	Endemic to California

5.4 SENSITIVE PLANTS

SCIENTIFIC NAME	COMMON NAME	DOCU- MENTED	STATE STATUS	FEDERAL STATUS	CNPS LIST	R-E-D CODE
<i>Androsace elongata ssp. acuta</i>	California androsace	NO	NONE	NONE	4	1-2-2
<i>Arabis hirshbergiae</i>	Cuyamaca rock cress	YES	NONE	NONE	1B	3-2-3
<i>Astragalus coccineus</i>	Crimson locoweed/scarlet milk-	YES	NONE	NONE	NONE	
<i>Astragalus crotalariae</i>	Salton milk-vetch	YES	NONE	NONE	4	1-1-2
<i>Astragalus douglasii var. perstrictus</i>	Jacumba milk-vetch	NO	NONE	NONE	1B	2-2-2
<i>Astragalus insularis var. harwoodii</i>	Harwood's milk-vetch	YES	NONE	NONE	2	2-2-1
<i>Astragalus lentiginosus var. borreganus</i>	Borrego milk-vetch	YES	NONE	NONE	4	1-1-1
<i>Ayenia compacta</i>	Ayenia	YES	NONE	NONE	2	2-1-1
<i>Berberis fremontii</i>	Fremont barberry	NO	NONE	NONE	3	?-?-1
<i>Brodiaea orcuttii</i>	Orcutt's brodiaea	NO	NONE	NONE	1B	1-3-2
<i>Bursera microphylla</i>	Elephant tree	YES	NONE	NONE	2	3-1-1
<i>Calliandra eriophylla</i>	Fairyduster	YES	NONE	NONE	2	2-1-1
<i>Calochortus dunnii</i>	Dunn's mariposa lily	NO	RARE	NONE	1B	2-2-2
<i>Carlowrightia arizonica</i>	Arizona carlowrightia	YES	NONE	NONE	2	3-2-1
<i>Caulanthus simulans</i>	Payson's jewelflower	YES	NONE	NONE	4	1-2-3
<i>Chaenactis carphoclinia var. peirsonii</i>	Peirson's pincushion	YES	NONE	NONE	1B	2-1-3
<i>Chamaesyce arizonica</i>	Arizona spurge	NO	NONE	NONE	2	2-1-1
<i>Chamaesyce platysperma</i>	Flat-seeded spurge	NO	NONE	NONE	1B	3-2-2
<i>Clarkia delicata</i>	Delicate clarkia	NO	NONE	NONE	1B	2-2-2
<i>Condalia globosa var. pubescens</i>	Spiny abrojo	NO	NONE	NONE	4	1-2-1
<i>Cryptantha costata</i>	Ribbed cryptantha	NO	NONE	NONE	4	1-1-2
<i>Cryptantha ganderi</i>	Gander's cryptantha	YES	NONE	NONE	1B	3-3-2
<i>Cryptantha holoptera</i>	Winged cryptantha	NO	NONE	NONE	4	1-1-2
<i>Cynanchum utahense</i>	Utah vine milkweed	YES	NONE	NONE	4	1-1-1
<i>Delphinium hesperium ssp.</i>	Cuyamaca larkspur	YES	RARE	NONE	1B	2-2-3
<i>Delphinium parishii ssp. subglobosum</i>	Parish's larkspur	YES	NONE	NONE	4	1-1-2
<i>Downingia concolor ssp. Drevoir</i>	Lake Cuyamaca downingia	YES	ENDANGERED	NONE	1B	3-3-3
<i>Eucnide rupestris</i>	Rock nettle	YES	NONE	NONE	2	3-2-1
<i>Galium angustifolium ssp.</i>	Borrego bedstraw	YES	RARE	NONE	1B	3-1-3
<i>Geraea viscida</i>	Sticky geraea	YES	NONE	NONE	2	2-1-1
<i>Deinandra floribunda</i>	Tecate tarplant	NO 1	NONE	NONE	1B	2-2-2
<i>Herissantia crispa</i>	Curly abutilon	NO 2	NONE	NONE	2	3-1-1
<i>Heuchera brevistaminea</i>	Laguna Mountains alumroot	YES	NONE	NONE	1B	3-1-3
<i>Heuchera rubescens var. versicolor</i>	San Diego county alumroot	YES	NONE	NONE	2	3-1-1
<i>Hulsea californica</i>	San Diego sunflower	YES	NONE	NONE	1B	2-1-3
<i>Hulsea mexicana</i>	Mexican hulsea	NO 1	NONE	NONE	2	3-1-1
<i>Hulsea vestita ssp. callicarpa</i>	Beautiful hulsea	YES	NONE	NONE	4	1-2-3
<i>Ipomopsis tenuifolia</i>	Slender-leaved ipomopsis	YES	NONE	NONE	2	2-1-1
<i>Lepidium flavum var. felipense</i>	Borrego Valley pepper-grass	YES	NONE	NONE	1B	3-2-3
<i>Limnanthes gracilis ssp. parishii</i>	Parish's meadowfoam	YES	ENDANGERED	NONE	1B	2-2-3
<i>Linanthus bellus</i>	Desert beauty	YES	NONE	NONE	2	2-1-1
<i>Linanthus orcuttii</i>	Orcutt's linanthus	YES	NONE	NONE	1B	2-1-2
<i>Lupinus excubitus var. medius</i>	Mountain springs bush lupine	YES	NONE	NONE	1B	2-1-2
<i>Lycium parishii</i>	Parish's desert-thorn	YES	NONE	NONE	2	2-1-1
<i>Lyrocarpa coulteri var. palmeri</i>	Coulter's lyrepod	YES	NONE	NONE	4	1-1-1
<i>Malperia tenuis</i>	Brown turbans	YES	NONE	NONE	2	3-1-1
<i>Matelea parvifolia</i>	Spearleaf	YES	NONE	NONE	2	3-1-1
<i>Mentzelia hirsutissima</i>	Hairy stickleaf	YES	NONE	NONE	2	2-1-1

SCIENTIFIC NAME	COMMON NAME	DOCU- MENTED	STATE STATUS	FEDERAL STATUS	CNPS LIST	R-E-D CODE
<i>Mimulus aridus</i>	Low bush monkeyflower	YES	NONE	NONE	4	1-1-2
<i>Mirabilis tenuiloba</i>	Long-lobed four-o'clock	YES	NONE	NONE	4	1-1-1
<i>Monardella nana</i> ssp. <i>leptosiphon</i>	San felipe monardella	NO 2	NONE	NONE	1B	3-2-2
<i>Opuntia wigginsii</i>	Wiggins' cholla	NO 1	NONE	NONE	3	3-1-2
<i>Penstemon cleavelandii</i> var. <i>connatus</i>	San jacinto beardtongue	YES	NONE	NONE	4	1-1-1
<i>Penstemon thurberi</i>	Thurber's beardtongue	YES	NONE	NONE	4	1-2-1
<i>Pilostyles thurberi</i>	Thurber's pilostyles	YES	NONE	NONE	4	1-1-1
<i>Proboscidea althaeifolia</i>	Desert unicorn plant	YES	NONE	NONE	4	1-1-1
<i>Salvia eremostachya</i>	Desert sage	YES	NONE	NONE	4	1-1-1
<i>Selaginella eremophila</i>	Desert spike-moss	YES	NONE	NONE	2	3-2-1
<i>Senna covesii</i>	Cove's cassia	YES	NONE	NONE	2	2-2-1
<i>Streptanthus campestris</i>	Southern jewelflower	YES	NONE	NONE	1B	2-1-2
<i>Xylorhiza orcuttii</i>	Orcutt's woody aster	YES	NONE	NONE	1B	2-2-2

Bold: indicates species discussion present in 'Sensitive Biota'.

5.5 SENSITIVE ANIMALS

<u>Common Name</u>	<u>Scientific Name</u>	<u>Legal Status</u>
INVERTEBRATES		
Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	FE
FISH		
Desert Pupfish	<i>Cyprinodon macularius</i>	SE, FE
Unarmored Threespine Stickleback	<i>Gasterosteus aculeatus williamsoni</i>	SE, FE, DFG
AMPHIBIANS & REPTILES		
Large-blotched Salamander	<i>Ensatina eschscholtzii klauberi</i>	CSC, FSC
Desert Slender Salamander	<i>Batrachoseps major aridus</i>	SE, FE
Western Spadefoot	<i>Scaphiopus hammondi</i>	CSC, FSC, BLMS
Arroyo Southwestern Toad	<i>Bufo microscaphus californicus</i>	FE, CSC
California Red-legged Frog	<i>Rana aurora draytonii</i>	FT, CSC
Lowland Leopard Frog	<i>Rana yavapaiensis</i>	CSC, BLMS
Desert Tortoise	<i>Xerobates agassizii</i>	ST, FT
Barefoot Gecko	<i>Coleonyx switaki switaki</i>	ST
San Diego Banded Gecko	<i>Coleonyx variegatus abbotti</i>	FSC
Western Chuckwalla	<i>Sauromalus obesus obesus</i>	BLMS
Colorado Desert Fringe-toed Lizard	<i>Uma notata notata</i>	CSC, BLMS
San Diego Horned Lizard	<i>Phrynosoma coronatum blainvillii</i>	CSC, FSS
Flat-tailed Horned Lizard	<i>Phrynosoma mcallii</i>	CSC, FP, BLMS
Sandstone Night Lizard	<i>Xantusia henshawi gracilis</i>	CSC
Coronado Skink	<i>Eumeces skiltonianus interparietalis</i>	CSC, BLMS
Belding's Orange-throated Whiptail	<i>Cnemidophorus hyperythrus beldingi</i>	CSC
Silvery Legless Lizard	<i>Anniella pulchra pulchra</i>	CSC, FSC, FSS
Coastal Rosy Boa	<i>Lichanura trivirgata roseofusca</i>	FSC, FSS, BLMS
Coast Patch-nosed Snake	<i>Salvadora hexalepis virgulata</i>	CSC
Baja California Rat Snake	<i>Elaphe rosaliae</i>	CSC
San Diego Mountain Kingsnake	<i>Lampropeltis zonata pulchra</i>	CSC, FSS
Two-striped Garter Snake	<i>Thamnophis hammondi</i>	CSC, FSS, BLMS
Northern Red-diamond Rattlesnake	<i>Crotalus ruber ruber</i>	CSC
BIRDS		
Common Loon	<i>Gavia immer</i>	CSC, FSC, MNBMC
American White Pelican	<i>Pelecanus erythrorhynchos</i>	CSC, ACWL
California Brown Pelican	<i>Pelecanus occidentalis</i>	SE, FE, MNBMC, DFG
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	CSC
White-faced Ibis	<i>Plegadis chihii</i>	CSC, FSC, MNBMC
Osprey	<i>Pandion haliaetus</i>	CSC
White-tailed Kite	<i>Elanus leucurus</i>	CSC, FSC, MNBMC, DFG
Bald Eagle	<i>Haliaeetus leucocephalus</i>	SE, FT, DFG
Northern Harrier	<i>Circus cyaneus</i>	CSC
Sharp-shinned Hawk	<i>Accipiter striatus</i>	CSC
Cooper's Hawk	<i>Accipiter cooperii</i>	CSC
Northern Goshawk	<i>Accipiter gentilis</i>	CSC, FSC, MNBMC, FSS, DFG
Swainson's Hawk	<i>Buteo swainsoni</i>	ST, FSC, FSS
Ferruginous Hawk	<i>Buteo regalis</i>	CSC, FSC, ACWL, MNBMC, BLMS
Golden Eagle	<i>Aquila chrysaetos</i>	CSC, DFG, BLMS

<u>Common Name</u>	<u>Scientific Name</u>	<u>Legal Status</u>
Merlin	<i>Falco columbarius</i>	CSC
American Peregrine Falcon	<i>Falco peregrinus anatum</i>	SE, MNBMC, DFG, FSS
Prairie Falcon	<i>Falco mexicanus</i>	CSC, ACWL
California Black Rail	<i>Laterallus jamaicensis</i>	ST, FSC, PIFWL, ACWL, MNBMC
Long-billed Curlew	<i>Numenius americanus</i>	CSC, FSC, ACWL, MNBMC, PIFWL
California Gull	<i>Larus californicus</i>	CSC
Burrowing Owl	<i>Athene cucularia</i>	CSC, FSC, MNBMC, BLMS
California Spotted Owl	<i>Strix occidentalis occidentalis</i>	CSC, FSC, FSS, MNBMC, BLMS
Long-eared Owl	<i>Asio otus</i>	CSC
Black Swift	<i>Cypseloides niger</i>	CSC, FSC, MNBMC, PIFWL, ACWL
Gila Woodpecker	<i>Melanerpes uropygialis</i>	SE, MNBMC
Southwestern Willow Flycatcher	<i>Empidonax traillii extimus</i>	SE, FE
Vermilion Flycatcher	<i>Pyrocephalus rubinus</i>	CSC
Brown-crested flycatcher	<i>Myiarchus tyrannulus</i>	CSC
Purple Martin	<i>Progne subis</i>	CSC
California Gnatcatcher	<i>Polioptila californica</i>	CSC, FT
Bendire's Thrasher	<i>Toxostoma bendirei</i>	CSC, PIFWL, MNBMC, ACWL, BLMS
Crissal Thrasher	<i>Toxostoma dorsale</i>	CSC, ACWL
Le Conte's Thrasher	<i>Toxostoma lecontei</i>	CSC, FSC, PIFWL, ACWL, BLMS
Western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i>	SE, MNBMC, FSS
Loggerhead Shrike	<i>Lanius ludovicianus</i>	CSC, FSC, ACWL, MNBMC
Least Bell's Vireo	<i>Vireo bellii</i>	SE, FE, PIFWL, MNBMC
Gray Vireo	<i>Vireo vicinior</i>	CSC, PIFWL, ACWL, BLMS
Virginia's Warbler	<i>Vermivora virginiae</i>	CSC, PIFWL
Yellow Warbler	<i>Dendroica petechia</i>	CSC
Yellow-breasted Chat	<i>Icteria virens</i>	CSC, MNBMC
Summer Tanager	<i>Piranga rubra</i>	CSC
Harris' Hawk	<i>Parabuteo unicinctus</i>	CSC
Hepatic Tanager	<i>Piranga flava</i>	CSC
MAMMALS		
California Leaf-nosed Bat	<i>Macrotus californicus</i>	CSC, FSS, BLMS, WBWGHP
Mexican Long-tongued Bat	<i>Choeronycteris mexicana</i>	CSC, WBWGHP
Yuma Myotis	<i>Myotis yumanensis</i>	FSC, BLMS
Long-eared Myotis	<i>Myotis evotis</i>	FSC, BLMS
Fringed Myotis	<i>Myotis thysanodes</i>	FSC, BLMS, WBWGHP
Long-legged Myotis	<i>Myotis volans</i>	FSC, WBWGHP, BLMS
Small-footed Myotis	<i>Myotis ciliolabrum</i>	FSC, BLMS
Western Yellow Bat	<i>Lasiurus xanthinus</i>	WBWGHP
Spotted Bat	<i>Euderma maculatum</i>	CSC, FSC, BLMS, WBWGHP
Townsend's Big-eared Bat	<i>Plecotus townsendii</i>	CSC, FSC, FSS, BLMS, WBWGHP
Pallid Bat	<i>Antrozous pallidus</i>	CSC, FSS, BLMS, WBWGHP
Pocketed Free-tailed Bat	<i>Nyctinomops femorosacca</i>	CSC
Big Free-tailed Bat	<i>Nyctinomops macrotis</i>	CSC
Western Mastiff Bat	<i>Eumops perotis</i>	CSC, FSC, BLMS, WBWGHP
Stephen's Kangaroo Rat	<i>Dipodomys stephensi</i>	ST, FE
Penninsular Bighorn Sheep	<i>Ovis canadensis</i>	ST, FE, DFG

5.6 MANAGEMENT ZONES MATRIX

Recreational Use	Info./Entrance Zone	Focused-Use Zone 1	Focused-Use Zone 2	Back-Country Zone
Camping	<ul style="list-style-type: none"> - Camping not allowed - Camping/campground information available 	<ul style="list-style-type: none"> - Developed or semi-developed individual & group camping <ul style="list-style-type: none"> - Picnic tables, fire receptacles, shade, flush toilets, showers, drinking water; may have electrical hook-ups. - Camping in designated campsites & campgrounds only 	<ul style="list-style-type: none"> - Primitive individual & group camping <ul style="list-style-type: none"> - Picnic tables, fire receptacles, shade, toilets, water may be available - Camping in designated areas or sites only 	<ul style="list-style-type: none"> - Isolated primitive campsites & rest areas along roads & trails - Water typically not provided - Waterless toilets may be available - Open camping allowed
Equestrian Use	<ul style="list-style-type: none"> - Equestrian, trail-use & camping, information available 	<ul style="list-style-type: none"> - Corrals & facilities for equestrian staging - Developed or semi-developed individual & group camping - Feeding & watering horses - Camping in designated equestrian campgrounds only - Trails adjacent to facilities - Riding on designated unpaved roads & trails only 	<ul style="list-style-type: none"> - Corrals & facilities for equestrian staging - Primitive individual & group camping - Feeding & watering facilities - Camping in designated equestrian campgrounds only - Trails adjacent to facilities - Riding on designated unpaved roads & trails only 	<ul style="list-style-type: none"> - Hitching posts in isolated areas along trails - Water typically not provided - Equestrian camping allowed in designated trail camps - Riding allowed on designated unpaved roads & trails only
Motorized Vehicles	<ul style="list-style-type: none"> - Auto & trailer/RV parking available - Visitor information available 	<ul style="list-style-type: none"> - Parking available - Motorized vehicles on designated roads only 	<ul style="list-style-type: none"> - Parking available - Motorized vehicles on designated roads only 	<ul style="list-style-type: none"> - Motorized vehicles allowed on designated roads only - No camping on vegetation - Parking allowed along primitive park roadways
Mountain Bikes	<ul style="list-style-type: none"> - Trail information available 	<ul style="list-style-type: none"> - Mountain bikes on designated roads & trails only 	<ul style="list-style-type: none"> - Mountain bikes on designated roads & trails only 	<ul style="list-style-type: none"> - Mountain bikes allowed on designated roads & trails only - Mountain bike trail camps may be allowed
Hiking	<ul style="list-style-type: none"> - Trail information 	<ul style="list-style-type: none"> - Developed hiking trails & trail heads - Off-trail hiking allowed 	<ul style="list-style-type: none"> - Developed hiking trails & trail heads - Off-trail hiking allowed 	<ul style="list-style-type: none"> - Designated hiking trails available - Off trail hiking allowed
Possible Facility Additions	<ul style="list-style-type: none"> - Staffed information kiosks/visitor contact stations - Interpretive elements - Limited electricity & water - Restrooms - Use of self-contained/ resource friendly systems (ex. solar power, composting toilets, etc.) 	<ul style="list-style-type: none"> - Administrative facilities - Camp stores & concession facilities - Interpretive elements (may include low-speed, paved driving loops) - Rustic lodging - Maintenance & storage buildings - Picnic sites - Scientific & educational facilities - Visitor center - Campground Facilities 	<ul style="list-style-type: none"> - Interpretive elements (may include low-speed, paved driving loops) - Maintenance & storage buildings - Picnic sites - Scientific & educational facilities - Primitive Campground Facilities 	<ul style="list-style-type: none"> - Minor interpretive elements - Development of new (or relocated) roads & trails as necessary to protect significant resources or provide further recreation opportunities <p style="text-align: right;">(Also see other side of this page.)</p>

<i>Recreational Use</i>	<i>Wilderness Zone</i>	<i>Wetland Riparian Zone</i>	<i>Cultural Preserve Zone</i>
<i>Camping</i>	<ul style="list-style-type: none"> - No facilities - No water - Open camping allowed - (Except within 200 yards of a water source, or as designated by Superintendent order) 	<ul style="list-style-type: none"> - Camping not allowed 	<ul style="list-style-type: none"> - Camping not allowed
<i>Equestrian Use</i>	<ul style="list-style-type: none"> - No facilities - Water not provided - Primitive camping allowed in designated areas - Riding on designated unpaved roads & trails only 	<ul style="list-style-type: none"> - Riding on designated, unpaved roads & trails only 	<ul style="list-style-type: none"> - Horses not allowed
<i>Motorized Vehicles</i>	<ul style="list-style-type: none"> - Motorized vehicles allowed on designated roads only (technically outside the designated Wilderness Zone) - Parking allowed along primitive park roadways 	<ul style="list-style-type: none"> - Vehicles not allowed unless crossing (at 90 degrees) on designated road 	<ul style="list-style-type: none"> - Vehicles not allowed
<i>Mountain Bikes</i>	<ul style="list-style-type: none"> - Mountain bikes allowed on designated roads & trails only (technically outside the designated Wilderness Zone) 	<ul style="list-style-type: none"> - Mountain bikes not allowed unless crossing (at 90 degrees) on designated road or trail 	<ul style="list-style-type: none"> - Mountain bikes not allowed
<i>Hiking</i>	<ul style="list-style-type: none"> - Designated hiking trails available - Off-trail hiking allowed 	<ul style="list-style-type: none"> - Hiking on designated trails only 	<ul style="list-style-type: none"> - Hiking on designated trails only
<i>Possible Facility Additions</i>	<ul style="list-style-type: none"> - Minimal signage (allowing for appropriate interpretive signs) - Hiking & equestrian trails 	<ul style="list-style-type: none"> - Minimal signage (allowing for appropriate interpretive signs) 	<ul style="list-style-type: none"> - Minimal signage (allowing for appropriate interpretive signs)

5.7 ALTERNATIVES MATRIX

Proposed Uses & Environmental Impacts

	Preferred Alternative Acreages*	Alternative 1 Acreages*	Alternative 2 Acreages*	Alternative 3 Acreages*	No Project Acreages*
Information/Entrance Zone (IZ)	Less than 10	N/A	N/A	N/A	N/A
Focused Use Zone I (FUZI)	2,224	2,318	1,519	1,519	N/A
Focused Use Zone II (FUZII)	2,276	7,500	3,799	5,600	N/A
Backcountry Zone (BZ)	157,724	162,406	210,688	137,088	218,700 (State Park)
Proposed Backcountry	123,900	128,600	176,900	103,000	188,700
Carrizo Impact Area	30,000	30,000	30,000	30,000	30,000
State Wilderness Zone (WZ)	462,900	450,000	406,200	436,300	405,100
Existing Wilderness Zone	405,100	405,100	405,100	405,100	405,100
Proposed Extensions	55,797	45,191	1,291	31,200	N/A
Wetland Riparian Zone (WRZ)	N/A	2,900	2,900	2,900	N/A
Cultural Preserve Zone (CPZ)	443	443	443	44,750	N/A

*NOTE: Management zone acreage is approximate & does not sum to the total Park acreage; these numbers allow for comparison of the alternatives in terms of area within each management zone.

	Preferred Alternative (PA)	Alternative 1 (A-1)	Alternative 2 (A-2)	Environmentally Superior Alt. 3	No Project
Natural Resources	Expanded WZ designation, & goals/guidelines for natural resources provide protection for sensitive natural resources park-wide & in specific areas like Coyote Canyon, Sentenac Canyon, & Carrizo Badlands. All potentially significant impacts will be avoided, minimized, and/or mitigated to a level below significance.	Same as PA, except (1) less land proposed as WZ, partially offset by protective WRZ (2). More land proposed as BZ & FUZs I & II, allowing higher potential for significant impacts, including areas with sensitive natural resources.	Same as A-1, except much less land proposed as WZ, & more as BZ; allowing new roads, & trails through sensitive habitat in Coyote Canyon & Borrego Badlands. More natural resources are potentially impacted. Offers the least amount of resource protection.	Same as PA, except protects a significantly more resources with Preserve & WRZs, extending into areas such as Harper & Hapaha flats, Coyote Canyon, Borrego & Carrizo Badlands.	No new facilities would be built causing less of an impact to significant resources; potential for impacts to sensitive resources from recreation could occur from the lack of Mgmt. Zones & resource protective Goals/Guidelines.
Cultural Resources	Expanded WZs, Preserve designation near Sentenac Canyon & goals/guidelines for cultural resources provide protection for all significant resources from future development & recreational activity (park-wide & area-specific).	Same as PA, except higher potential for impacts to sensitive cultural resources. Potential significant impacts.	Same as A-1, except allows potential development in more land (See Natural Resources above), including areas with sensitive cultural resources. Increased potential for significant impacts.	Same as PA, except protects significantly more resources with Preserve designation; extending into areas such as Harper and Hapaha flats, Coyote Canyon, Borrego & Carrizo Badlands.	No new facilities would be built causing less impact to significant resources; potential for impacts to sensitive resources from recreation could occur from the lack of Management Zones & resource protective Goals/Guidelines.
Interpretation	Park entrance/info. kiosks, & goals/guidelines for interpretation, inform visitors on rules & regulations; educate public (incl. school children, physically challenged & elderly) about environmental impacts, recreational impacts, & other critical park issues.	Same as PA, except allows for more acreage within which to develop intensive interpretation/education facilities.	Same as PA, except allows slightly less acreage within which to develop intensive interpretation/education facilities.	Same as PA, except minimal signage will be permitted in Preserve areas.	Precludes opportunity to enhance visitor services for all members of the public.
Park Operations	Allows for efficient park operations, strengthened enforcement of resource protective regulations in WZ & Preserve areas, compliance with the ADA of 1990, & provides management direction through guidelines	Same as PA, except more acreage in FUZs, including areas close to sensitive resources, thereby putting constraints on operations & increasing the need for active management.	Same as PA, except allows low-level facility development in more areas of the Park--could require more staff time to operate & maintain, particularly if dispersed.	Same as PA.	Would not comply with PRC 5003 or allow construction of new operational facilities in response to increased visitation.
Hazardous Materials	CCR Title 14, Div. 3, Ch. 6 4604 Carrizo Impact Area closed to the public pending decontamination procedures.	Same as PA.	Same as PA.	Same as PA.	Same as PA.
Recreation	Proposes to keep existing opportunities for high quality outdoor recreation. Provides over 500 miles of designated roads & trails while protecting undisturbed natural & cultural resources. Off-trail hiking in BZ & WZ. Developed and primitive camping facilities in limited areas and open camping in majority of park. Further direction to be derived from Management Plans.	Same as PA, except more acreage in FUZs & BZ. Allows new roads, trails, & primitive campsites.	Same as PA, except offers more potential for low-level facility development in FUZ II for visitor services and more land in BZ which would allow for potentially greater vehicular travel/camping and off-trail equestrian travel.	Creates potentially significant impacts to visitor services & outdoor recreation by eliminating multiple user groups from more areas of the Park.	Precludes opportunity to enhance visitor services for all members of the public.

5.8 REASONABLE PROJECTION OF DEVELOPMENT*

Info/Entrance Zone (IZ)	Existing Condition	Projected # added	Reasonable Projection	Net Difference
5 acres				
Buildings				
Info. Kiosk	0	+5	25sf	+25sf
Comfort Station	0	+3	300sf	+300sf
Vehicle Parking	0		1,500sf	+1,500sf
Annual Visitation	0		100,000 people	100,000 people

Focused-Use Zone 1 (FUZ I)	# of existing items	Existing Condition	Reasonable Projection	Net Difference
2,224 acres				
Buildings				
Headquarters	1	8,000 SF	11,000 SF	+3,000 SF
Visitor Center	1	10,000 SF	20,000 SF	+10,000 SF
Residences	7	4,000 SF	13,500 SF	+9,500 SF
Maintenance	2	2,500 SF	3,500 SF	+1,000 SF
Airplane Hanger/Maintenance		0	2,000 SF	+2,000 SF
Ranger Station	1	2,000 SF	4,000 SF	+2,000 SF
Comfort Stations	10	2,000 SF	2,400 SF	+400 SF
Research / Collections	1	5,000 SF	10,000 SF	+5,000 SF
Educational Facility / Dorm		0	32,000 SF	+32,000 SF
Amphitheater	1	2,000 SF	4,000 SF	+2,000 SF
Picnic / Gathering Areas		2 areas	4 areas	+2 areas
Campsites (designated)		154 sites	250 sites	+100 sites
Developed group sites		5 sites	11 sites	+6 sites
Rustic Lodging		0	2,000 SF	+2,000 SF
Trails				
Hiking, Biking, Equestrian		1 MI	2 MI	+1 MI
Equestrian Facilities		1	3	+2
Vehicle Parking		65,000	100,000 SF	+35,000 SF
Paved Airstrip		0	60,000 SF	+60,000 SF
Annual Visitation		177,800	200,300	+22,500

Focused-Use Zone II (FUZ II)	# of existing items	Existing Condition	Reasonable Projection	Net Difference
2,276 acres				
Buildings				
Ranger Station	2	400 SF	800 SF	400 SF
Maintenance	2	1,000 SF	2,000 SF	1,000 SF
Comfort Stations	2	400 SF	600 SF	200 SF
Picnic Area		1	5	4
Amphitheater		0	2,000 SF	2,000 SF
Campsites (unimproved)		34 sites	184 sites	150 sites
Equestrian Staging Area		0	5 areas	5 areas
Vehicle Parking		20,000 SF	50,000 SF	30,000 SF
Primitive Roads		12 MI	18 MI	6 MI
Annual Visitation		96,000	112,000	16,000

Backcountry Zone	Existing Condition	Reasonable Projection	Net Difference
127,724 acres			
Campsites (open camping)	222 sites	222 sites	0
Trails	17 MI	30 MI	13 MI
Primitive Roads	300 MI	320 MI	20 MI
Comfort Stations			
Annual Visitation	127,000	138,500	11,500

Wilderness Zone	Existing Condition	Reasonable Projection	Net Difference
462,271 acres			
Campsites (open camping)	141 sites	141 sites	0
Trails	60 MI	70 MI	10 MI
Annual Visitation	50,000	55,000	5,000

Cultural Preserve	Existing Condition	Reasonable Projection	Net Difference
443 acres			
Trails	0	2 MI	2 MI
Annual Visitation	5,000	5,000	0

Carrizo Impact Area	Existing Condition	Reasonable Projection	Net Difference
30,000 acres			
CLOSED TO THE PUBLIC			

California Population Total (July 1, 2001):	34,758,000
Projected State Population Total by 2020:	46,250,000

REASONABLE PROJECTION OF DEVELOPMENT

This table represents a reasonable scenario of potential public-use facilities that could be developed in each of the proposed Management Zones under the goals and guidelines proposed in the Preliminary General Plan for ABDSP. The scenarios depicted in this table portray the most extensive development that should be expected.

This matrix allows for an analysis of potentially significant environmental effects that could result from implementation of the General Plan. The actual choice of types, sizes, and locations of facilities to be developed within each zone will be determined during preparation of subsequent management plans (such as the Trails Management Plan) or specific project plans. The decisions made in these plans will be consistent with the goals and guidelines of the General Plan and based on many factors including natural and cultural resource protection, and visitor experience.

*NOTE: All numbers in this table are approximate & are intended only as a broad planning projection. Annual visitation square feet (SF) and mileage (MI) used in this table are extrapolated from State Park staff surveys and historical data/trends.