



## San Joaquin County Numbers:

<b>County Total Size:</b>	<b>1,426 square miles</b>
<b>Land Size:</b>	<b>1,399 square miles</b>
<b>Water Size</b>	<b>27 square miles</b>
<b>County Population (2005):</b>	<b>646,259</b>
<b>Average Household Size:</b>	<b>3.13</b>
<b>Total Housing Units:</b>	<b>217,991</b>
<b>Median Family Income:</b>	<b>\$57,774</b>
<b>Median Home Value:</b>	<b>\$379,600</b>
<b>County is Home to the Cities of:</b>	<b>Stockton, Tracy, Manteca, Lodi, Lathrop, Ripon and Escalon</b>

## Habitat Conservation Plan Numbers:

<b>Permit Term:</b>	<b>50 years</b>
<b>Species Covered:</b>	<b>97</b>
<b>Total County Acres:</b>	<b>912,640</b>
<b>Existing Urban Acres:</b>	<b>52,000</b>
<b>Acres Allowed to be</b>	
<b>Converted Using Permits:</b>	<b>109,320</b>
<b>Agricultural Converted Acres Permitted:</b>	<b>57,635</b>
<b>Natural Converted Acres Permitted:</b>	<b>14,202</b>
<b>Multi-Purpose Converted Acres Permitted:</b>	<b>37,465</b>
<b>Habitat Acres to be Preserved:</b>	<b>100,241</b>

## Habitat Types Covered:

**Cropland**  
**Orchards/Vineyards**  
**Row and Field Crops**  
**Ruderal**  
**Blue Oak-Conifer Savanna**  
 (<10% canopy closure)  
**Blue Oak-Conifer Woodland**  
 (10-33% canopy closure)  
**Blue Oak-Conifer Forest**  
 (34-75% canopy closure)  
**Blue Oak-Conifer Forest**  
 (>75% canopy closure)  
**Blue Oak Savanna**  
 (< 10% canopy closure)  
**Blue Oak Woodland**  
 (10-33% canopy closure)  
**Blue Oak Forest**  
 (34-75% canopy closure)  
**Blue Oak Forest**  
 (>75% canopy closure)  
**Drainage Ditches**  
**Valley Grasslands**  
**Foothill Grasslands**  
**Vernal Pool Grasslands**  
**Channel Islands**  
**Tule Island and Mud Flat**  
**Mixed Oak Savanna**  
 (<10% canopy closure)  
**Mixed Oak Woodland**  
 (10-33% canopy closure)  
**Mixed Oak Forest**  
 (34-75% canopy closure)

**Mixed Oak Forest**  
 (>75% canopy closure)  
**Diablan Sage Scrub**  
**Great Valley Riparian Forest**  
**Great Valley Valley Oak Riparian Forest**  
**Great Valley Cottonwood Riparian Forest**  
**Arroyo Willow Thicket**  
**Great Valley Mixed Riparian Forest**  
**Great Valley Riparian Scrub**  
**Scrub/grassland**  
**Elderberry Savanna**  
**Valley Oak Savanna**  
 (<10% canopy closure)  
**Valley Oak Woodland**  
 (10-33% canopy closure)  
**Valley Oak Forest**  
 (34-75% canopy closure)  
**Valley Oak Forest**  
 (>75% canopy closure)  
**River/Deep Water Channel**  
 (> 200 feet wide)  
**Tributary Stream**  
 (100-200 feet wide)  
**Creek** (20-100 feet wide)  
**Dead-End Slough**  
**Freshwater Lake, Pond or Vernal Pool**  
**Sewer Treatment Ponds**  
**Freshwater Emergent Wetland**  
**Vernal or Seasonal Wetlands**  
**Canals**

## Species Covered (Cont.):

- Mid-valley fairy shrimp (*Branchinecta sp. nova*)
- Curved-foot diving beetle (*Hygrotyris curvipes*)
- Moestan blister beetle (*Lytta moesta*)
- Molestan blister beetle (*Lytta molesta*)
- Green sturgeon (*Acipenser medirostris*)
- Longfin smelt (*Spirinchus thaleichthys*)
- California tiger salamander (*Ambystoma californiense*)
- Foothill yellow-legged frog (*Rana boylei*)
- Western spadefoot toad (*Scaphiopus hammondi*)
- Western pond turtle (*Clemmys marmorata*)/b/
- San Joaquin whipsnake (*Masticophis flagellum ruddocki*)
- California horned lizard (*Phrynosoma coronatum frontale*)
- Cooper's hawk (*Accipiter cooperi*)
- Sharp-shinned hawk (*Accipiter striatus*)
- Western grebe (*Aechmophorus occidentalis*)
- Tricolored blackbird (*Agelaius tricolor*)
- Bell's sage sparrow (*Amphispiza belli belli*)
- Golden eagle (*Aquila chrysaetos*)
- Great egret (*Ardea albus* formerly *Casmerodius albus*)
- Great blue heron (*Ardea herodias*)
- Short-eared owl (*Asio flammens*)
- Ferruginous hawk (*Buteo regalis*)
- Northern harrier (*Circus cyaneus*)
- Yellow warbler (*Dendroica petechia brewsteri*)
- Snowy egret (*Egretta thula*)
- White-tailed kite (*Elanus leucurus* - formerly *Elanus caeruleus*)
- California horned lark (*Eremophila alpestris actia*)
- Merlin (*Falco columbarius*)
- Prairie falcon (*Falco mexicanus*)
- Yellow-breasted chat (*Icteria virens*)
- Loggerhead shrike (*Lanius ludovicianus*)
- Long-billed curlew (*Numenius americanus*)
- Black-crowned night heron (*Nycticorax nycticorax*)
- Osprey (*Pandion haliaetus*)
- American white pelican (*Pelecanus erythrorhynchos*)
- Double-crested cormorant (*Phalacrocorax auritus*)
- White-faced ibis (*Plegadis chichi*)
- Burrowing owl (*Speotyto cunicularia*)
- Ringtail/ringtail cat (*Bassaricus astutus*)
- Berkeley kangaroo rat (*Dipodomys heermanni berkeleyensis*)
- Greater western mastiff bat aka California mastiff bat (*Eumops perotis californicus*)
- (Eumops perotis californicus)
- Red Bat (*Lasiurus blossevilli*)
- Small-footed myotis/bat (*Myotis ciliolabrum*)
- Long-eared myotis/bat (*Myotis evotis*)
- Fringed myotis/bat (*Myotis thysanodes*)
- Long-legged myotis/bat (*Myotis volans*)
- Yuma myotis/bat (*Myotis yumanensis*)
- San Joaquin pocket mouse (*Perognathus inornatus inornatus*)
- Pale big-eared bat (*Plecotus townsendii pallascens* aka *Corynorhinus townsendii pallascens*) aka
- Pacific western big-eared bat (*Plecotus townsendii townsendii* aka *Corynorhinus townsendii townsendii*)
- American badger (*Taxidea taxus*)



# San Joaquin County Multi-Species Habitat Conservation and Open Space Plan

## Species Covered:

### Informational Fact Sheet

#### Executive Summary

The key purpose of the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP or Plan), is to provide a strategy for balancing the need to conserve Open Space and the need to Convert Open Space to non-Open Space uses while protecting the region's agricultural economy; preserving landowner property rights; providing for the long-term management of plant, fish and wildlife species, especially those that are currently listed, or may be listed in the future, under the Federal Endangered Species Act (ESA) or the California Endangered Species Act (CESA); providing and maintaining multiple-use Open Spaces which contribute to the quality of life of the residents of San Joaquin County; and accommodating a growing population while minimizing costs to Project Proponents and society at large.

San Joaquin County's past and future (2001-2051) growth has affected and will continue to affect 97 special status plant, fish and wildlife species in 52 vegetative communities scattered throughout San Joaquin County's 1,400+ square miles and 900,000+ acres, which include 43% of the Sacramento-San Joaquin Delta's Primary Zone.

The SJMSCP, in accordance with ESA Section 10(a)(1)(B) and CESA Section 2081(b) Incidental Take Permits, provides compensation for the Conversion of Open Space to non-Open Space uses which affect the plant, fish and wildlife species covered by the Plan. The SJMSCP compensates for Conversions of Open Space for the following activities: urban development, mining, expansion of existing urban boundaries, non-agricultural activities occurring outside of urban boundaries, levee maintenance undertaken by the San Joaquin Area Flood Control Agency, transportation projects, school expansions, non-federal flood control projects, new parks and trails, maintenance of existing facilities for non-federal irrigation district projects, utility installation, maintenance activities, managing Preserves, and similar public agency projects.

#### Federally-Listed Species

- Large-flowered fiddleneck (*Amsinckia grandiflora*)
- Succulent owl's clover aka fleshy owl's clover (*Castilleja campestris* ssp. *succulenta* fmr *Orthocarpus succulentus*)
- Orcutt grass/Greene's tuctoria (*Tuctoria greenei*)
- Conservancy fairy shrimp (*Branchinecta conservatio*)
- Longhorn fairy shrimp (*Branchinecta longiantenna*)
- Vernal pool fairy shrimp (*Branchinecta lynchi*)
- Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*)
- Vernal pool tadpole shrimp (*Lepidurus packardii*)
- Delta smelt (*Hypomesus transpacificus*)
- Sacramento splittail (*Pogonichthys macrolepidotus*)
- California red-legged frog (*Rana aurora draytonii*)
- Giant garter snake (*Thamnophis gigas*)
- Aleutian Canada goose (*Branta canadensis leucopareia*)
- Mountain plover (*Charadrius montanus*)
- Riparian woodrat (*Neotoma fucipes riparia*)
- Riparian brush rabbit (*Sylvilagus bachmani riparius*)
- San Joaquin kit fox (*Vulpes macrotis mutica*)

#### State-listed Species that are not Federally-Listed

- Delta button-celery/Delta coyote thistle (*Eryngium racemosum*)
- Boggs Lake hedge-hyssop (*Gnaphalium heterosepala*)
- Mason's lilaeopsis (*Lilaeopsis masonii*)
- Swainson's hawk (*Buteo swainsoni*)
- Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*)
- Greater sandhill crane (*Grus canadensis tabida*)
- California black rail (*Laterallus jamaicensis coturniculus*)
- Bank swallow (*Riparia riparia*)
- **Other SJMSCP Covered Species**
- Suisun marsh aster (*Aster lentus*)
- Alkali milk-vetch (*Astragalus tener* var. *tener*)
- Heartscale (*Atriplex cordulata*)
- Brittlescale (*Atriplex depressa*)
- Hoover's calycadenia (*Calycadenia hooveri*)
- Bristly sedge (*Carex comosa*)
- Slough thistle (*Cirsium crassicaule*)
- Mt. Hamilton coreopsis (*Coreopsis hamiltonii*)
- Hospital Canyon larkspur (*Delphinium californicum* ssp. *interius*)
- Recurved larkspur (*Delphinium recurvatum*)
- Diamond-petaled poppy/diamond-petaled California poppy (*Escholzia rhombipetala*)
- California hibiscus/rose mallow (*Hibiscus lasiocarpus*)
- Red Bluff dwarf rush (*Juncus leiospermus* var. *leiospermus*)
- Delta tule pea (*Lathyrus jepsonii* var. *jepsonii*)
- Legenere (*Legenere limosa*)
- Delta mudwort (*Limosella subulata*)
- Showy madia (*Madia radiata*)
- Sanford's arrowhead/Sanford's sagittaria (*Sagittaria sanfordii*)
- Mad-dog skullcap (*Scutellaria lateriflora*)
- Wright's trichocoronis (*Trichocoronis wrightii* var. *wrightii*)
- Caper-fruited tropidocarpum (*Tropidocarpum capparideum*)

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