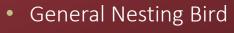
# Southern California Special-Status Species Survey Calendar



## **Avian Species**



- Raptors
- Western Burrowing Owl
- Western Snowy Plover
- Southwestern Willow Flycatcher
- Brown-headed Cowbird
- Belding's Savannah Sparrow
- Coastal California Gnatcatcher
- Ridgway's Rail
- California Least Tern
- Least Bell's Vireo

### Avian Species

- Varying Habitats
- Grasslands
- Beaches/salt marsh/coastal lagoons/coastal wetlands
- Riparian
- Woodlands/grasslands
- Scrub

Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
General Nesting Bird <sup>4</sup>		Feb 15							Sept 15			
Raptors <sup>4</sup>	Jan 15								Sept 15			
Western Burrowing Owl (Athene cunicularia hypugaea)		Feb 15					Jul 15					
Western Snowy Plover ( <i>Charadrius alexandrinus nivosus</i> ) <sup>3</sup>				Apr 01					Sept 15			
Southwestern Willow Flycatcher (Empidonax traillii extimus) 1, 2					May 01		Jul 31					
Brown-headed Cowbird ( <i>Molothrus ater</i> )		Feb 15		Tra	pping Surve	y		Aug 30				
Belding's Savannah Sparrow ( <i>Passerculus</i> sandwichensis beldingii) <sup>2</sup>		Feb 15		Apr 30								
Coastal California Gnatcatcher ( <i>Polioptila</i> californica californica) <sup>3</sup>		Feb 15 NCCP	Mar 15 Non- NCCP			Jun 30 Non- NCCP		Aug 30 NCCP				
Ridgway's Rail ( <i>Rallus obsoletus levipes</i> ) <sup>1, 2</sup>		Feb 15		Apr 30								
California Least Tern ( <i>Sterna antillarum browni</i> ) <sup>1, 2</sup>				Apr 01					Sept 15			
Least Bell's Vireo ( <i>Vireo bellii pusillus</i> ) <sup>1, 2</sup>				Apr 10			Jul 31					

<sup>&</sup>lt;sup>1</sup>Federally Endangered Species



<sup>&</sup>lt;sup>3</sup> Federally Threatened Species

<sup>&</sup>lt;sup>2</sup> State Endangered Species

<sup>&</sup>lt;sup>4</sup> Covered under Migratory Bird Treaty Act

# Amphibians & Reptiles



- Arroyo Toad
- California Red-legged Frog
- Mountain Yellow-legged Frog
- Western Spadefoot
- Western Pond Turtle
- Desert Tortoise

## Amphibians & Reptiles

Vernal	Pools	/grace	lands
vernai	P0015/	grass	iaiius

Riparian/pond

Riparian/scrub

Desert

Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
California Tiger Salamander ( <i>Ambystoma californiense</i> ) <sup>3,4</sup>			Mar 01 Larval Survey; March 15 Drift fence survey		May 30 Larval Survey					Oct 15 Drift fence survey		
Arroyo Toad ( <i>Anaxyrus californicus</i> ) <sup>1</sup>			Mar 15			Jun 30						
California Red-legged Frog ( <i>Rana draytonih</i> ) <sup>3</sup>	Jan 01								Sept 30			
Mountain Yellow-legged Frog ( <i>Rana muscosa</i> ) <sup>1, 2</sup>					May 01			Aug 30				
Western Spadefoot ( <i>Spea hamondii</i> )			Mar 31									Dec 01

Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Western Pond Turtle ( <i>Actinemys marmorata</i> )				Apr 15					Sept 15			
Desert Tortoise ( <i>Gopherus agassizii</i> ) <sup>3,4</sup>			Mar 01		May 30				Sept 01	Oct 31		

<sup>&</sup>lt;sup>1</sup>Federally Endangered Species



<sup>&</sup>lt;sup>3</sup> Federally Threatened Species

<sup>&</sup>lt;sup>2</sup> State Endangered Species <sup>4</sup> State Threatened Species

### **Invertebrates**



### **Invertebrates**

	Vernal	pool	ls
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Grasslands/shrublands

Meadow

Oak woodlands/riparian

Open habitat

Woodlands/chaparral

Delhi sands and dune substrates

Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Fairy Shrimp ( <i>Branchinecta</i> spp. and <i>Streptocephalus woottonl</i> ) <sup>1</sup>			Conduc	t one wet sed	ison survey	(winter/sp	oring) and on	e dry seaso	n survey (si	ummer/fall	)	
Crotch Bumble Bee ( <i>Bombus Crotchii</i> ) <sup>6</sup>		Late Feb		1 <sup>st</sup> flight period peak			2 <sup>nd</sup> flight period peak			Late Oct		
Thorne's hairstreak butterfly (Callophrys thornel)				Apr 01	May 30							
Quino checkerspot Butterfly ( <i>Euphydras editha quino</i> ) <sup>1</sup>		3 <sup>rd</sup> Week of Feb			2 <sup>nd</sup> Sat in May							
Harbison Dun Skipper ( <i>Euphyesvestris harbisoni</i> )				Late Spring			Early Summer					
Hermes Copper Butterfly ( <i>Lycaena Hermes</i> ) <sup>5</sup>					3 <sup>rd</sup> Week of May		1 <sup>st</sup> Week of Jul					
Laguna Mountain Skipper ( <i>Pyrgusruralis lagunae</i> ) <sup>1</sup>				Apr 15	2-year	Survey	Jul 31					
Delhi Sands Flower-loving Fly ( <i>Rhaphiomidas terminates abdominalis</i> ) <sup>1</sup>							July 01		Sept 20			

<sup>&</sup>lt;sup>1</sup> Federally Endangered Species



<sup>&</sup>lt;sup>3</sup> Federally Threatened Species

<sup>&</sup>lt;sup>5</sup> Candidate Federally Endangered

<sup>&</sup>lt;sup>2</sup>State Endangered Species

<sup>&</sup>lt;sup>4</sup> State Threatened Species

<sup>&</sup>lt;sup>6</sup> Candidate State Endangered

### **Mammals**

- Bat Roost Assessments
  San Bernardino Kangaroo Rat
  - Stephen's Kangaroo Rat
     Pocket Mouse Species
  - Pocket Mouse Species including Pacific Pocket Mouse
  - Mohave Ground Squirrel

### **Mammals**

Varying Habitats

Alluvial/scrub

Grassland

Desert scrub

Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
General Bat Roost Assessments						Year-r	ound					
San Bernardino Kangaroo Rat ( <i>Dipodomys merriami parvus</i> ) <sup>1</sup>						Year-r	ound					
Stephen's Kangaroo Rat ( <i>Dipodomys stephensi</i> ) <sup>1, 2</sup>						Year-r	ound					
Pacific Pocket Mouse ( <i>Perognathus longimembris pacificus</i> ) <sup>1</sup>				Apr 01					Sept 30			
Pocket Mouse Species ( <i>Chaetodipus</i> spp. and <i>Perognathus</i> spp.)			Species of	e a variety o of Special Co ific sub-spec	ncern and n	nay require	e surveys. In	quire with o	our biologis	ts as to		
Mohave Ground Squirrel (Xerospermophilus mohavensis) <sup>4</sup>			Mar 01				Jul 15					

<sup>1</sup>Federally Endangered Species

<sup>3</sup> Federally Threatened Species

<sup>5</sup> Candidate Federally Endangered

<sup>2</sup>State Endangered Species

<sup>4</sup> State Threatened Species

<sup>6</sup> Candidate State Endangered



Artemis Environmental Services, Inc.