

**California State Wildlife Action Plan (SWAP) 2015**

**Sierra Nevada Region  
 High Elevation Wet Meadows**

**What are the sensitive species found in wet meadows?** The following 33 wet meadow species from this area are found to be sensitive:

**Amphibian [3]**

CASCADE FROG  
 YOSEMITE TOAD

SIERRA NEVADA YELLOW-LEGGED FROG

**Reptile [3]**

CALIFORNIA MOUNTAIN KINGSLAKE  
 GOPHER SNAKE

RUBBER BOA

**Bird [13]**

BANK SWALLOW  
 BLACK SWIFT  
 CALIFORNIA QUAIL  
 GOLDEN EAGLE  
 GREAT GRAY OWL  
 GREATER SAGE-GROUSE  
 LONG-EARED OWL

NORTHERN HARRIER  
 PEREGRINE FALCON  
 SANDHILL CRANE  
 WILLOW FLYCATCHER  
 SPOTTED OWL  
 WHITE-TAILED KITE

**Mammal [14]**

AMERICAN BADGER  
 AMERICAN MARTEN  
 BLACK-TAILED JACKRABBIT  
 BROAD-FOOTED MOLE  
 DUSKY-FOOTED WOODRAT  
 FISHER  
 LONG-EARED MYOTIS

MOUNTAIN BEAVER  
 MOUNTAIN LION  
 MT. LYELL SHREW  
 NORTHERN FLYING SQUIRREL  
 ORNATE SHREW  
 RED FOX  
 RINGTAIL

**What do we find important for recovering and sustaining healthy wet meadows in high elevation?** Ecological features that are found to be most critical to sustain healthy wet meadows at high elevations are:

- Area and extent
- Connectivity
- Hydrological regime
- Soil/sediment structure & chemistry
- Community structure and composition

- Fire regime - (timing, frequency, intensity, extent)

Degraded ecological conditions that are found to be impacting wet meadows at high elevations are:

- Change in spatial extent
- Change in community structure or composition
- Change in succession processes and ecosystem development
- Change in temperature
- Change in precipitation
- Change in snow pack (amount and duration)
- Change in natural fire regime
- Change in extreme events
- Change in runoff and river flow
- Change in groundwater tables
- Change in sediment erosion-deposition regime
- Change in soil moisture
- Avalanches/Landslides

Human related activities and issues that are found to be sources of potential impacts to wet meadows at high elevation are:

- Roads & railroads
- Dams & water management/use
- Housing and urban areas
- Mining & quarrying
- Logging & wood harvesting
- Fire and fire suppression
- Tourism & recreation areas
- Recreational activities
- Hunting & collecting terrestrial animals
- Livestock farming and ranching
- Annual and perennial non-timber crops
- Agricultural & forestry effluents
- Industrial & military effluents
- Problematic native species
- Invasive plants/animals

### **More questions?**

1. Come talk to us and ask questions at scoping meetings!
2. Check our Website: <http://www.dfg.ca.gov/SWAP/>
3. Provide written comments

By email to: [SWAP@wildlife.ca.gov](mailto:SWAP@wildlife.ca.gov)

By mail: Armand Gonzales  
California Department of Fish and Wildlife  
1416 Ninth Street, Suite 1341-B  
Sacramento, CA 95814