CALIFORNIA DEPARTMENT OF FISH and WILDLIFE

SWAP California State Wildlife Action Plan

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
SIERRA NEVADA YELLOW-LEGGED FROG
YOSEMITE TOAD

Reptile [3]

CALIFORNIA MOUNTAIN KINGSNAKE
RUBBER BOA
GOPHER SNAKE

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

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- 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

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