CALIFORNIA DEPARTMENT OF FISH and WILDLIFE

SWAP California State Wildlife Action Plan

State Wildlife Action Plan (SWAP) 2015

Walker Basin Watershed

Walker River Native Species Assemblage

What are the sensitive species found in the Walker Basin Watershed? The following 10 aquatic species (taxa) from this watershed are found to be sensitive:

Fish

LAHONTAN CUTTHROAT TROUT
MOUNTAIN SUCKER
MOUNTAIN WHITEFISH
PAIUTE SCULPIN
LAHONTAN CREEK TUI CHUB
LAHONTAN REDSIDE
LAHONTAN SPECKLED DACE
TAHOE SUCKER

Invertibrate

Freshwater mussels (*Anodonta* and possibly *Margaritifera*)

What do we find important for recovering and sustaining healthy ecosystem in this watershed? Ecological conditions that are found to be most critical to sustain healthy ecosystem in this watershed are:

- Extent of native species assemblage
- Community structure and composition
- Nutrient concentration and dynamics
- Connectivity-gene flow
- Surface water flow

Degraded ecological conditions that are found to be impacting this watershed are:

- Change in air temperature
- Change in precipitation
- Change in snow pack
- Change in snow cover period
- Change in frequency and intensity of extreme events
- Change in sediment erosion-deposition regime
- Change in natural fire regime
- Change in runoff and river flow
- Change in water levels and hydro-period
- Change in flood occurrence, frequency and intensity
- Change in groundwater tables
- Change in water nutrients
- Change in water chemistry
- Change in spatial extent
- Change in successional process and ecosystem development
- Change in biotic interactions (altered community dynamics)
- Habitat fragmentation

Human related activities and issues that are found to be sources of potential impacts to this watershed are:

- Roads & Railroads
- Dams & water management/Use
- Introduced genetic material
- Invasive plants/animals
- Inappropriate livestock farming and ranching

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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