

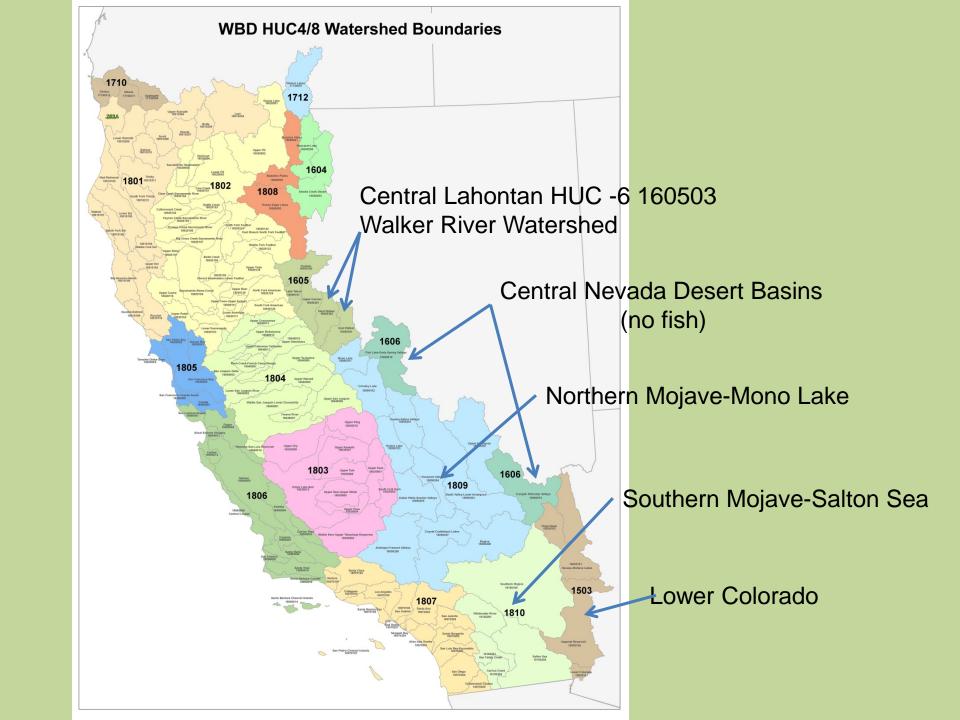


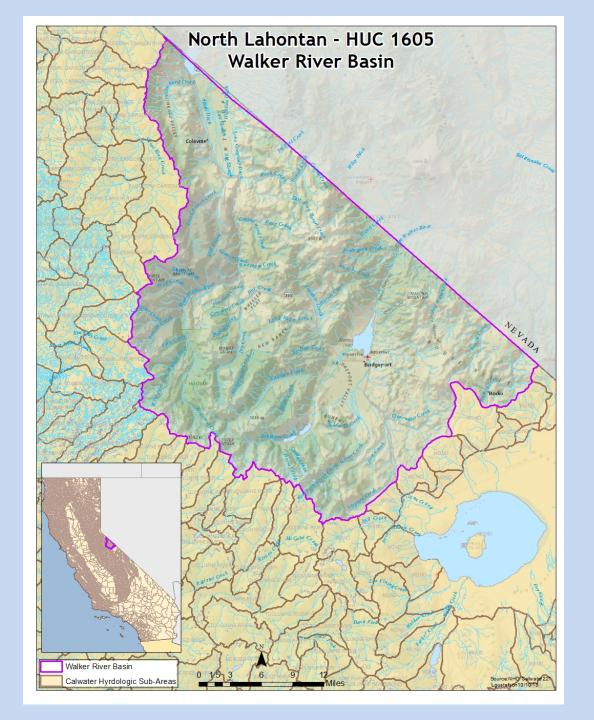
# State Wildlife Action Plan 2015 Update

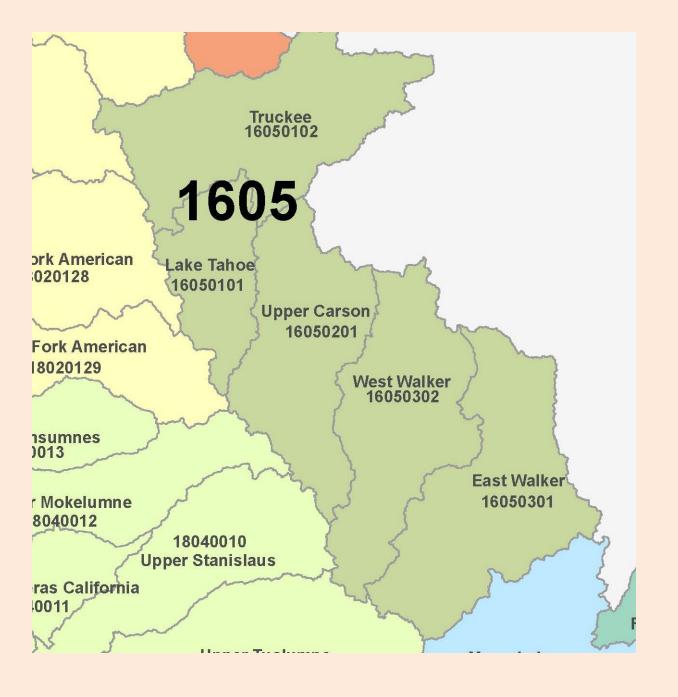
Walker River Watershed (HUC 160503) and Stream Habitats (HUC 1606, 1809 & 1810)

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## Target: Walker River HUC 160503 Native Fish Assemblage

- Distribution limited to a few drainages
- Unique species to HUC 1605



#### SGCNs Associated with Target

#### Lahontan cutthroat trout



#### **Mountain sucker**



#### **Mountain whitefish**



#### **Paiute Sculpin**



#### Lahontan reside



#### Lahontan speckled dace



#### **Tahoe sucker**



#### Mountain yellow legged frog

CDFW & federally listed - Endangered



#### **Environmental Stresses**

- > Change in ecosystem development
- Change in spatial extent of fish community
- Change in biotic interactions
- > Habitat fragmentation
- Change in water chemistry
- Change in natural fire regime
- Change in groundwater table



## **Human Related Impacts**

- Invasive plants and animals
- > Introduced genetic material
- > Dams and water management
- > Livestock farming and ranching
- > Roads and railroads



#### Strategies

- ➤ Conjunctive water management
- ➤ Co-management partnerships
- >Translocation or re-introductions
- ➤ Data gathering and analysis
- ➤ Manage invasive species
- ➤ Develop BMPs for grazing
- ➤Outreach and education

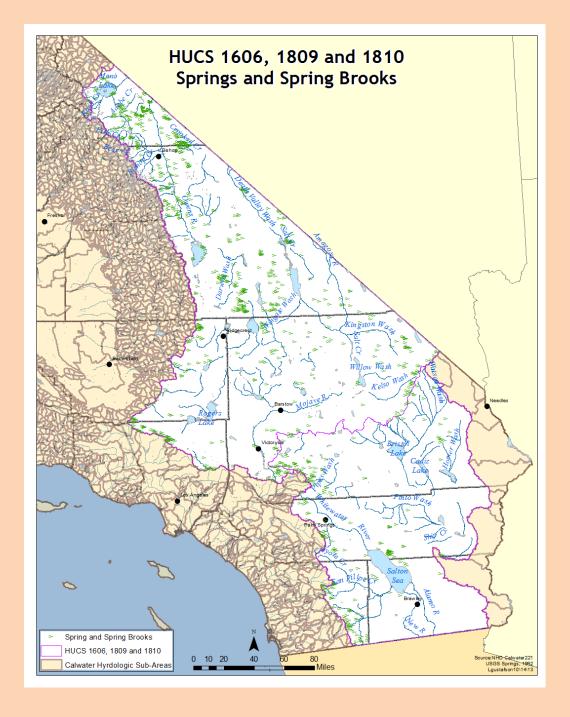


## **Funding**

- State Wildlife Grant
- Section 6 Threatened and Endangered Species Funding
- Multi species habitat conservation plans
- Co-operative partnerships
- Legislative funding
- Bond funding
- Project impact mitigation



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- Mono Lake Watershed is the northern boundary
- Nevada state line and Colorado River watershed are the eastern boundary
- Mexican border is southern boundary
- Watershed draining the east side of the Sierra, San Gabriel, San Bernardino, San Jacinto and Palomar Mountains from the western boundary.

## Target: Springs and Spring Brooks

Based on Desert Fish Habitat Partnership

 Smaller spring-fed pool and run systems which occur throughout the

arid west.



## Other Desert HUC Targets:



Cienega

**Streams** 



## Other Desert HUC Targets:

## Other Desert HUC Targets:



Refuges

Anthropogenic

#### SGCNs Associated with Target



**Owens Pupfish** 

Owens tui chub





**Desert pupfish** 

**Cabin Bar Tui Chub** 





**Owens Speckled Dace** 



Shoshone pupfish



**Cottonball Marsh Pupfish** 

Saratoga Springs Pupfish





**Arroyo Toad** 

Southwestern pond turtle



- Shoshone pupfish
- Long Valley Speckled dace

#### **Environmental Stresses**

- Change in community structure and composition
- Change in spatial extent of fish community
- > Habitat fragmentation
- Change in runoff and river flow
- Change in natural fire regime
- Change in groundwater table



#### **Human Related Impacts**

> Invasive plants and animals

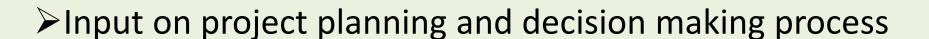
Renewable energy development and operations

> Dams and water management



#### Strategies

- Manage dams and barriers
- ➤ Co-management partnerships
- >Translocation or re-introductions
- ➤ Data gathering and analysis
- ➤ Manage invasive species



Outreach and education



## **Funding**

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## Thank you for coming

We appreciate your input

Questions?