

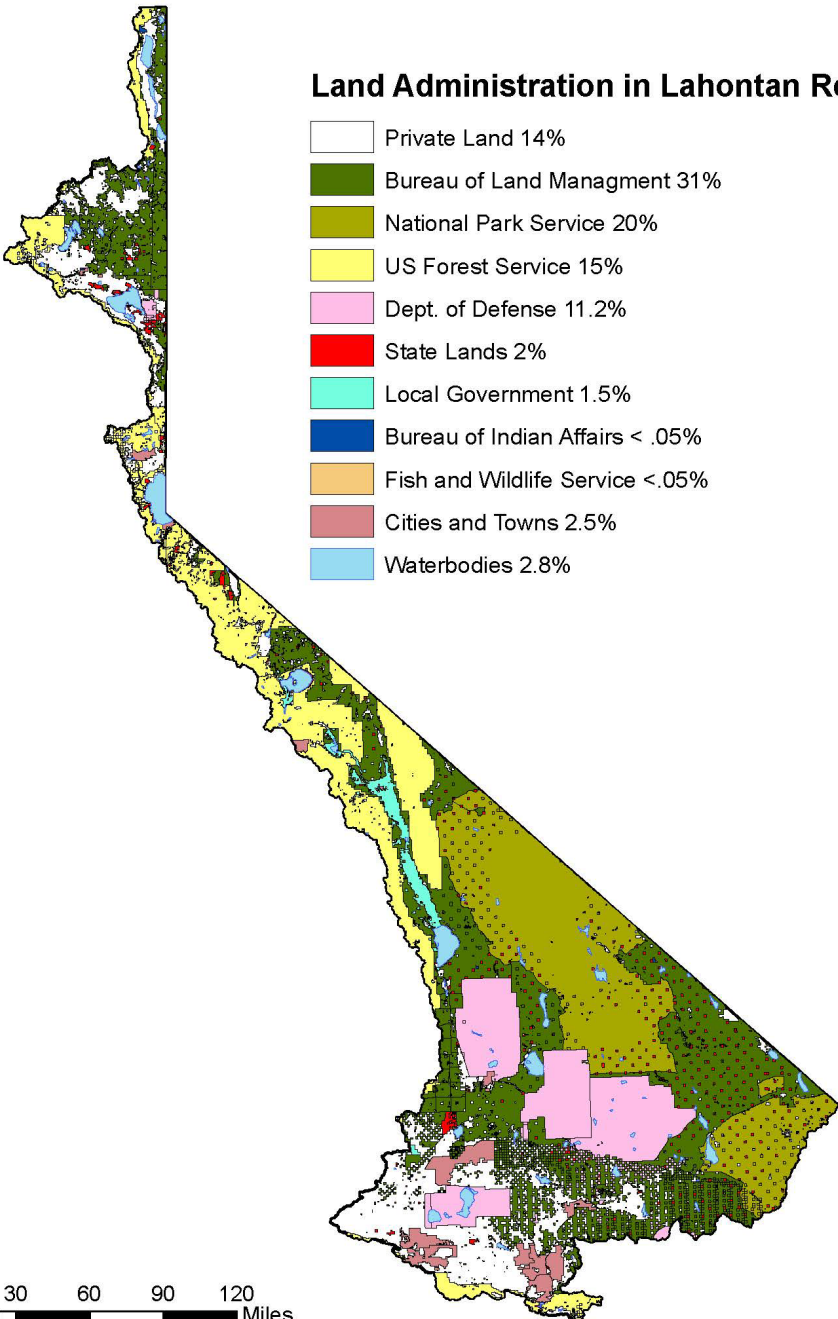
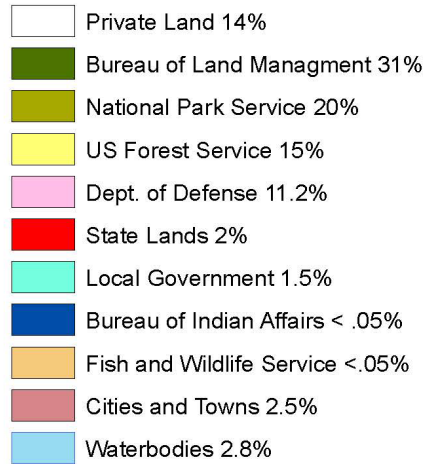
Lahontan Region Response to California Water Supply Strategy August 2022

WQCC October 27, 2022



Mike Plaziak, Executive Officer

Land Administration in Lahontan Region 6



Lahontan Region Characteristics

- 77% of region under Federal Administration
 - Bureau of Land Management
 - National Park Service
 - US Forest Service
 - Department of Defense
- 700+ miles long
- Population of 964,000 (2010)
- 2 Outstanding National Resource Waters (ONRW)

Lahontan Region Surface Waters

Major Rivers

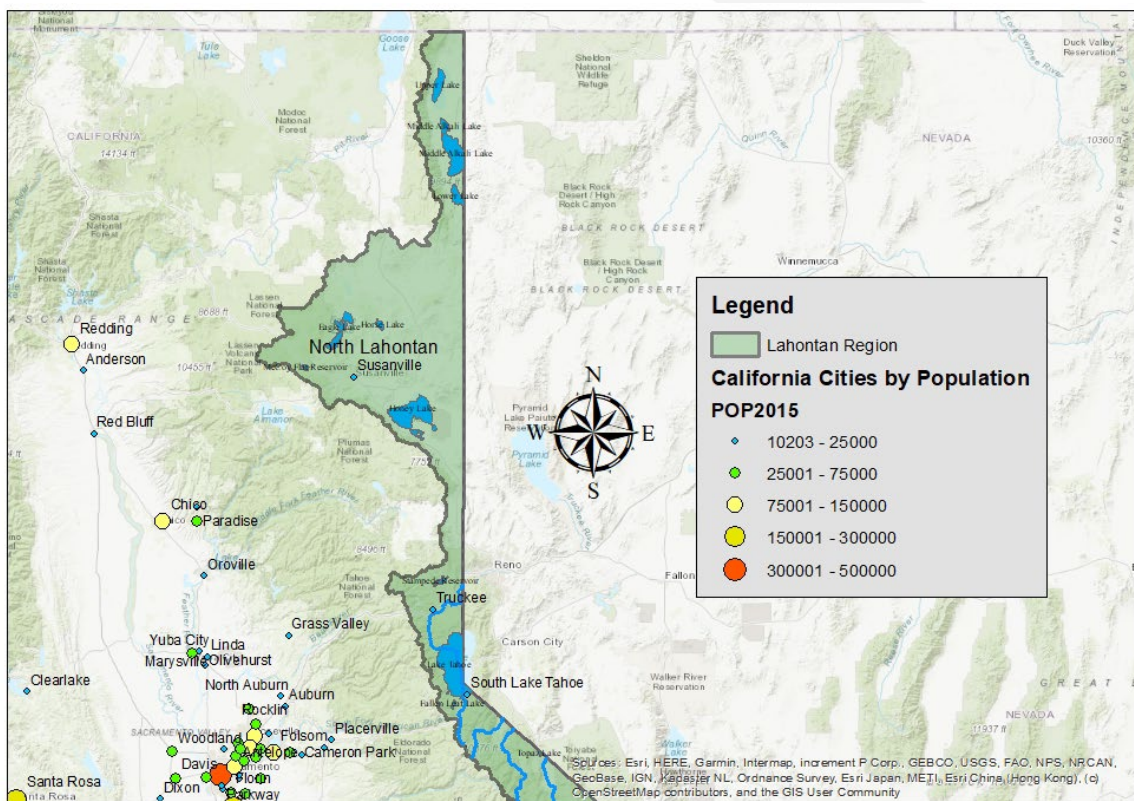
- Mojave River
- Owens River
- Truckee River
- Carson River
- Walker River
- Amargosa River

Drainages are generally eastward

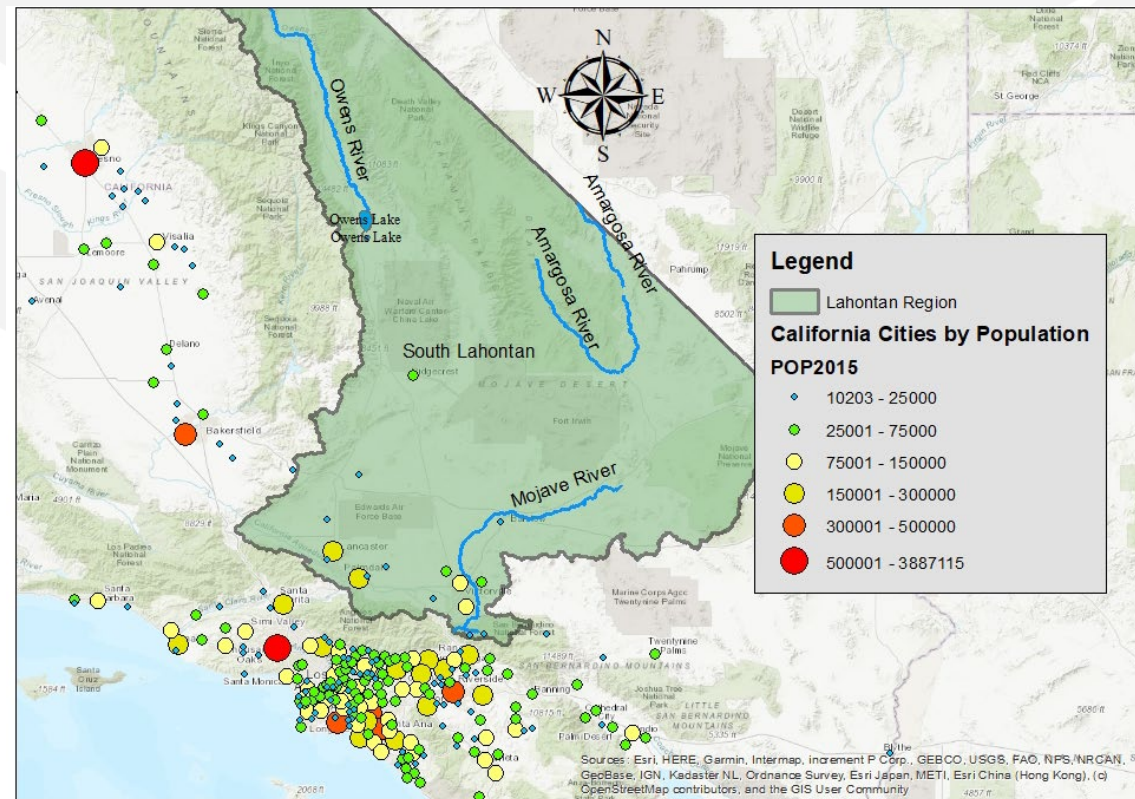
- Great Basin
- Mojave Desert



Lahontan Region Population Centers



North Lahontan Basin



South Lahontan Basin

Total population of the Lahontan Region is over 964,000

Resolution R6T-2019-0277

Climate Change in the Lahontan Region

Directs resources to the:

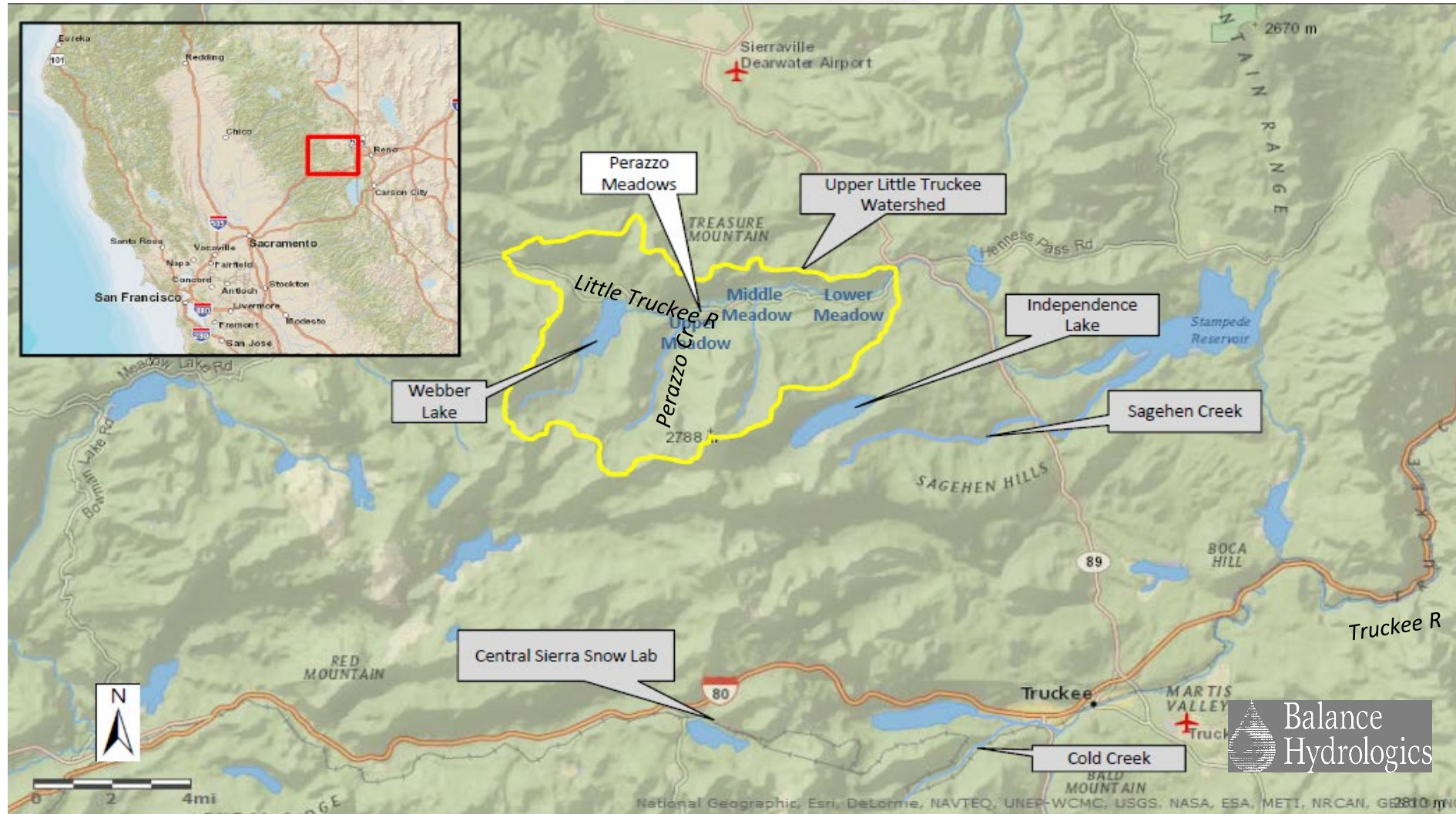
- I. Protection of Wetlands, Floodplains and Headwaters
- II. Protection of Headwater Forests and Promoting Fire Resiliency
- III. Protection of Groundwater Quality & Supply
- IV. Protection of Infrastructure



I. Headwater Protection

- Mountain Meadows
 - ✓ Groundwater resiliency
 - ✓ Late summer / fall groundwater releases reduce fire risk
 - ✓ Cold freshwater habitat beneficial uses are supported
- Nature-based Solutions
- Partnerships
 - US Forest Service
 - Bureau of Land Management
 - Tahoe Regional Planning Agency
 - Truckee River Watershed Council
 - Mono Lake Committee

Lower Perazzo Meadows Restoration Project



Source: Balance Hydrologics



Lower Perazzo Meadows

- Impacts from logging, grazing, and dairy operations
- Project Achievements
 - ✓ Restore hydrologic function – improve floodplain connectivity
 - ✓ Restore wetland hydrology – elevate groundwater table through the growing season
 - ✓ Improve water quality and habitat – reduce erosion and improve stream temperatures
 - ✓ Climate Change resilience – increased flood flow attenuation & healthy meadow vegetation
- 2.5 miles remnant channel restoration
- 50 acres wetland and stream habitat restoration

Source: Balance Hydrologics

Upper Perazzo Meadows

- Upper Perazzo Meadow (2009)
- Middle Perazzo Meadow (2010)

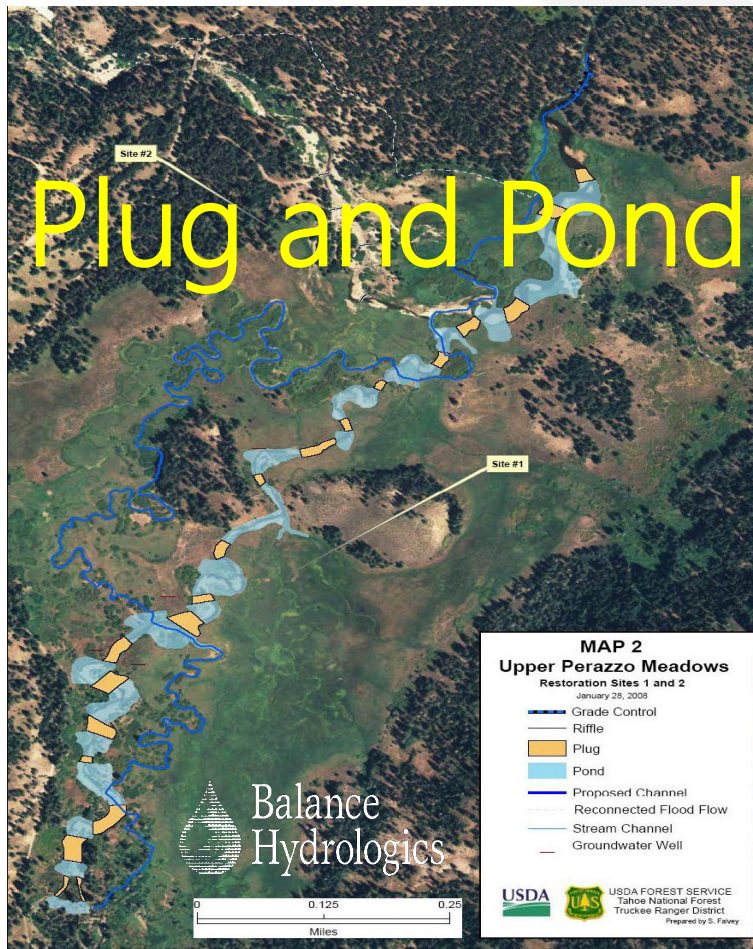


Figure 2. Final Restoration Plan for the Upper Meadow Site – Site 1



Source: Balance Hydrologics

II. Wildfire Resiliency & Response



Tamarack Fire crosses Highway 395 July 24, 2021

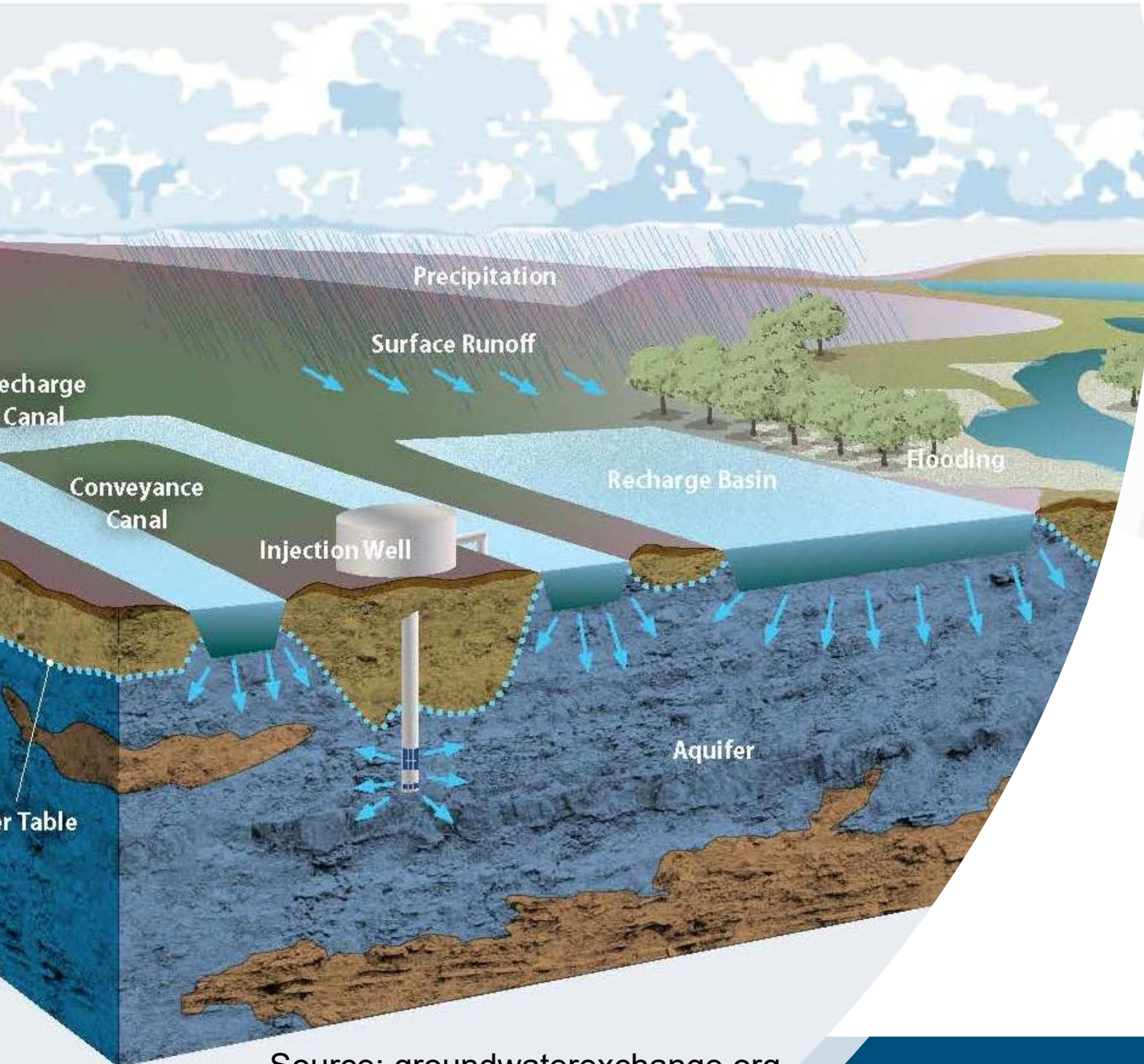
Source: wildfiretoday.com

Wildfire Recovery – Tamarack Fire

- Hazard Tree Mitigation/Removal
- Salvage Logging
- Slope Stabilization with
 - ✓ Contour logs
 - ✓ Chipping
 - ✓ Mastication
- Timber Harvest Waiver



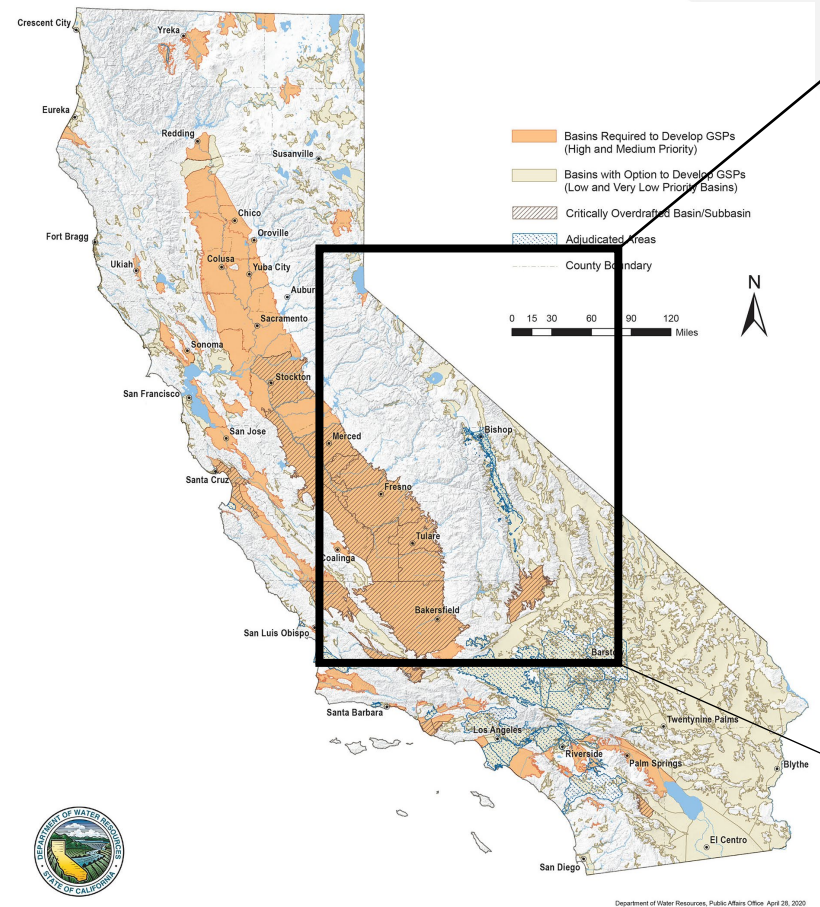
06.10.2022 12:25



Source: groundwaterexchange.org

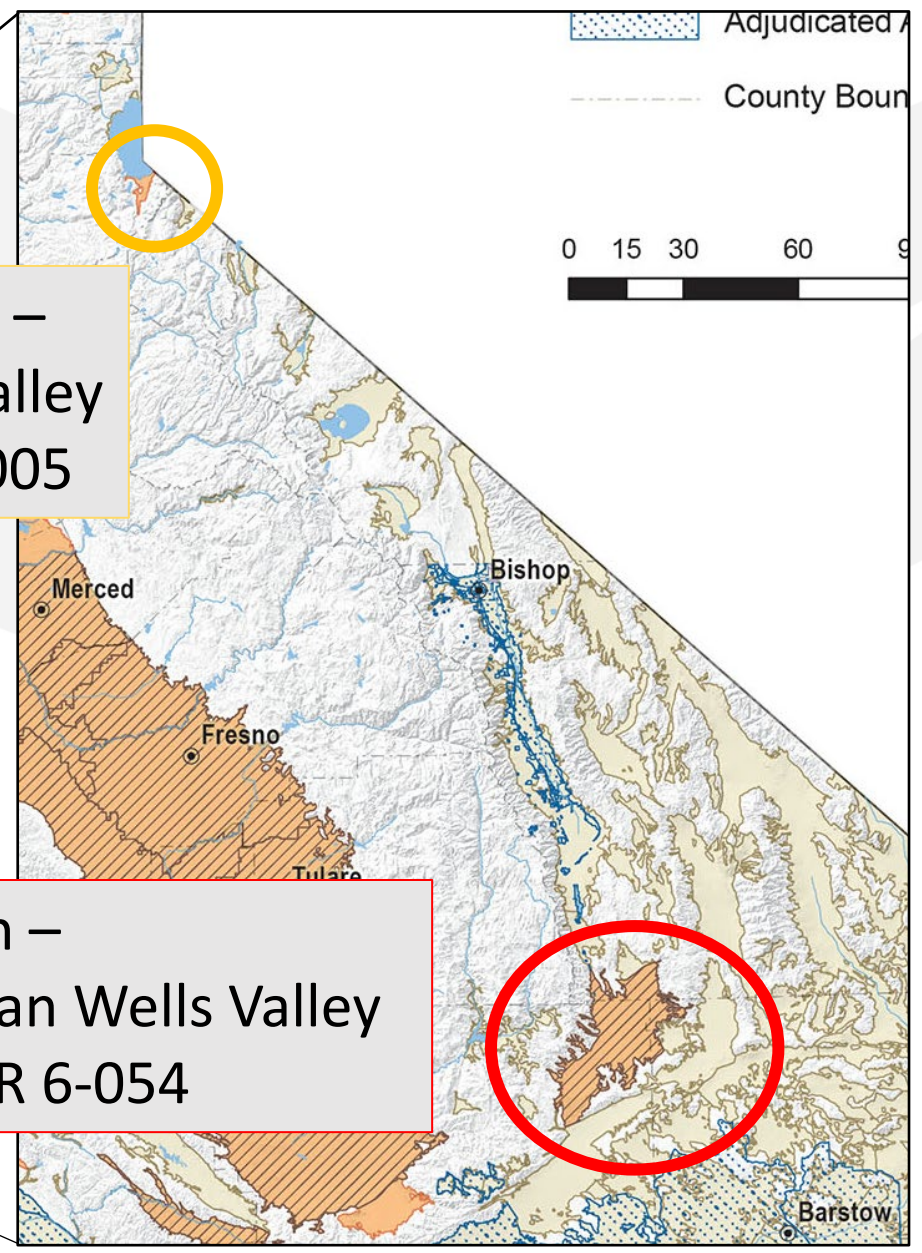
III. Protection of Groundwater Quality and Supply

SGMA 2019 Basin Prioritization



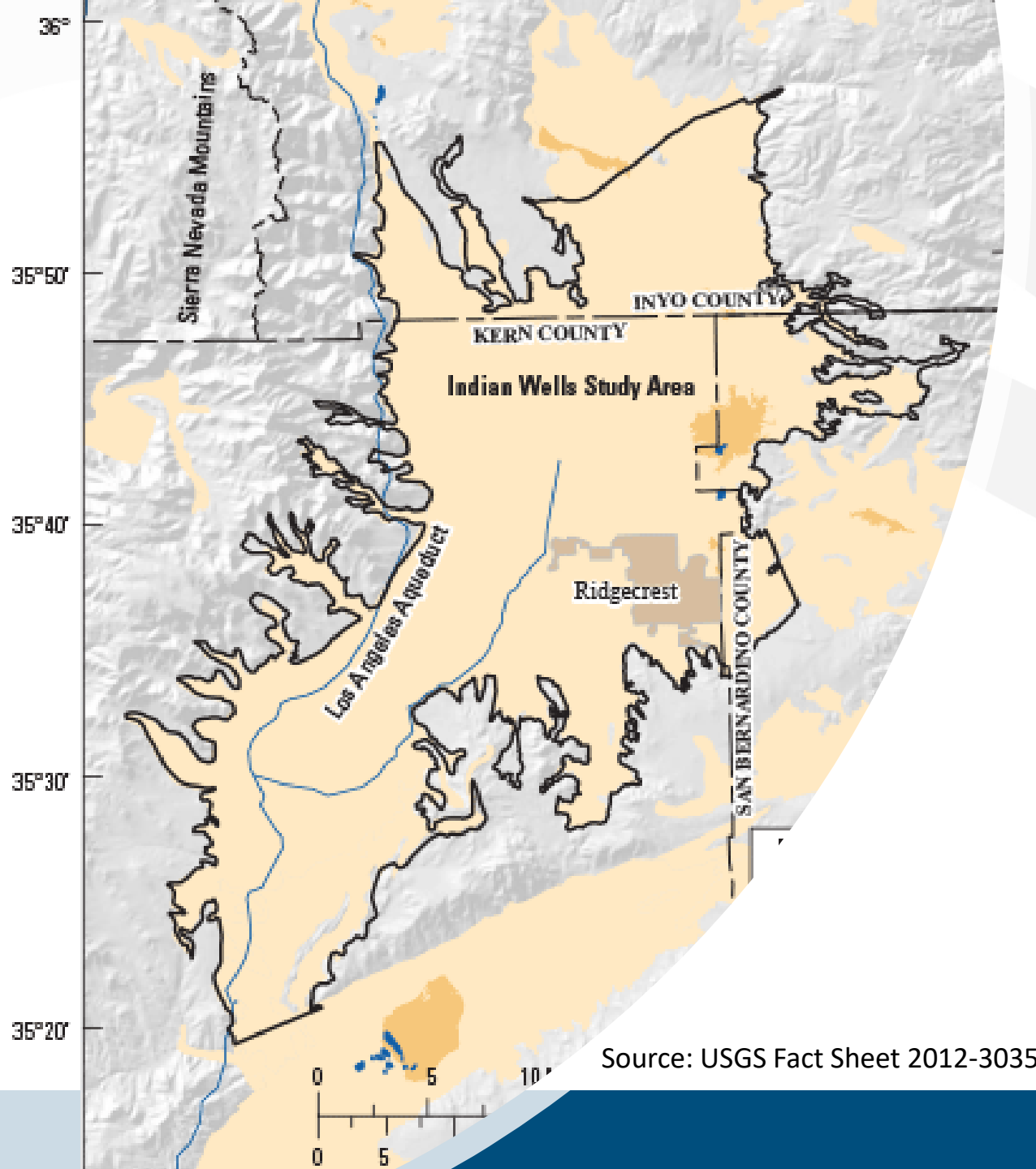
Medium –
Tahoe Valley
DWR 6-005

High –
Indian Wells Valley
DWR 6-054



Indian Wells Valley Groundwater Basin

- Basin in Critical Overdraft
- SGMA 2019 Prioritization is HIGH
- IWV Groundwater Authority proposed Recycled Water Project
 - ✓ 2000 acre-ft for direct groundwater recharge



Source: USGS Fact Sheet 2012-3035

Salt and Nutrient Management Plans

Groundwater Basin	SGMA Priority	Sq Mi	Pop (2010)	SNMP Accepted
Antelope Valley*	Very Low	1578	400K	2014
Mojave*	Very Low	1700	400K	2016
Indian Wells Valley*	High	596	34K	2018
Tahoe Valley – South Tahoe Updated GSP under DWR review in 2022	Medium	35	32K	GSP
Owens Valley –GSP under DWR review in 2022		1032	18K	GSP
Fremont Valley*	Low	523	17K	2019
Fort Irwin*		16	9K	2017

- Region's population is over 1 M
- 5 SNMPs cover 90% of population

* Denotes SNMP accepted by the Lahontan Water Board

Salt and Nutrient Management Plans – Next Steps

- 5 SNMP approved by Lahontan Water Board
 - ✓ Pre-2019 SNMP to be evaluated by April 2024
 - ✓ Covers 90% of the region (867,000 population in 2010)
- Continue building relationships
 - ✓ Indian Wells Valley Groundwater Authority
 - ✓ Mojave Water Agency
 - ✓ Antelope Valley Regional Water Management Group
 - ✓ South Tahoe Public Utilities District
 - ✓ Owens Valley Groundwater Authority

Summary of Lahontan Region Actions California's Water Supply Strategy 2022

- Continue to follow our Lahontan Climate Change Action Plan
- Continue to build relationships and partnerships with key land administrators, GSAs, stakeholders and the regulated community

Questions?

