SWP Updates on Climate Change and Wildfire Response Planning



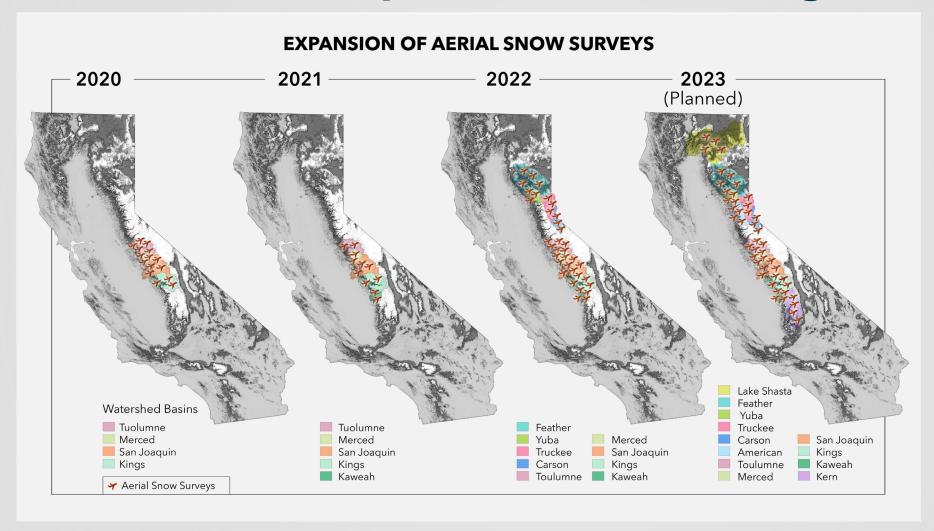
California Water Commission Briefing September 21st, 2022

Today's Briefing

- Improved forecasting
- Wildfire response
- Improved planning for future conditions



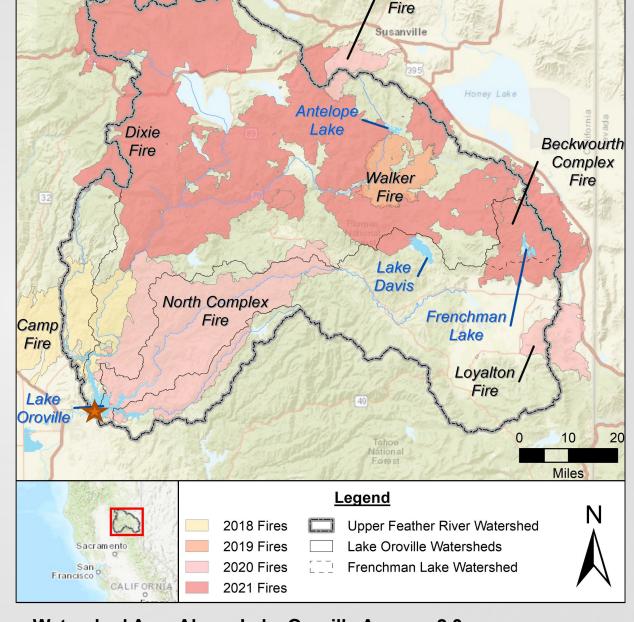
Better Data = Improved Forecasting





Fires in the Upper Feather River Watershed

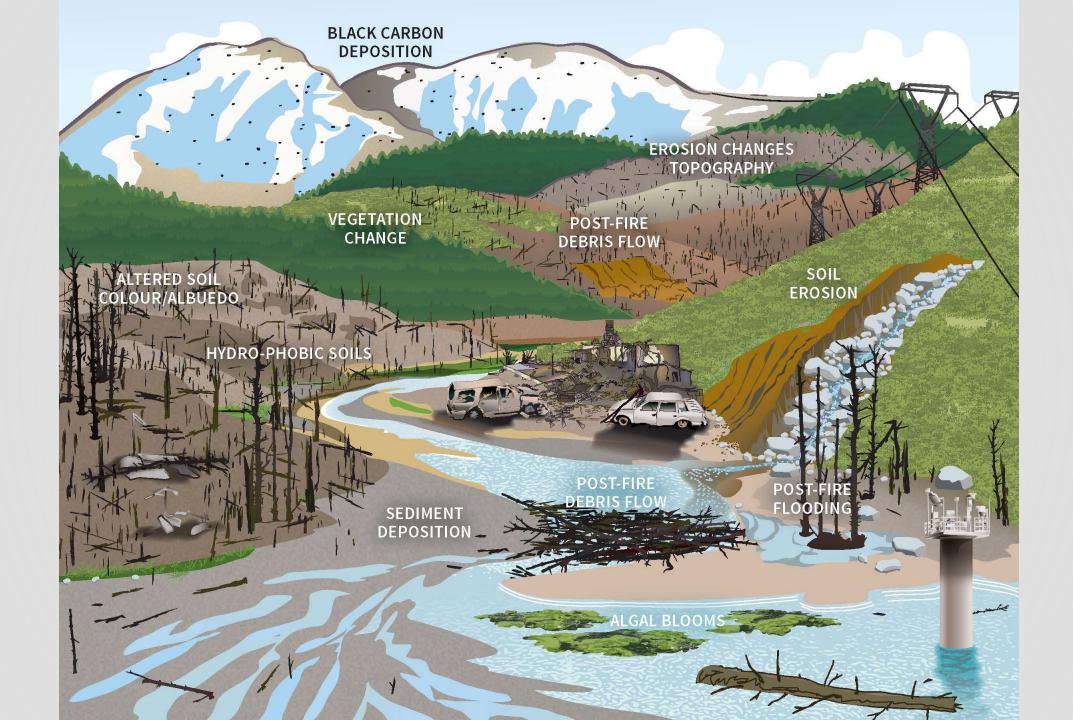
- 57% of the Upper Feather River
 Watershed has burned since 2018
- 27% burned at high severity (75% tree mortality)
- The majority of shoreline around Lake Oroville has burned (largely in Camp Fire and North Complex Fire)



Sheep







DWR/SWP Impact Assessment and Action Planning

- Sediment and Debris
- Water Quality
- People and Grey Infrastructure
- Water Supply



DCR 2023 Climate Change Enhancements Plan

- Historical data adjustments to account for climate changes already observed
- New risk informed future climate projections
- New guidance on using risk informed climate projections



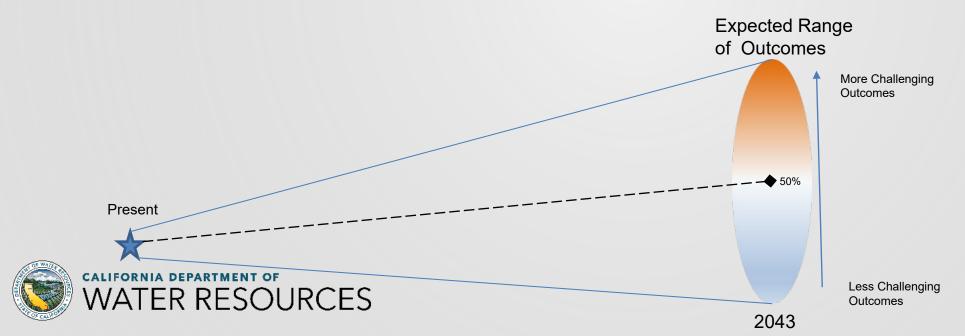
New Risk Informed Future Projections

• Future conditions scenarios will evaluate combinations of climate changes (temperature, precipitation, and sea level rise) that represent different levels of risk tolerance. The risk tolerance will be represented by a probability number that describes the percent of climate outcomes that would result in better system performance outcomes.



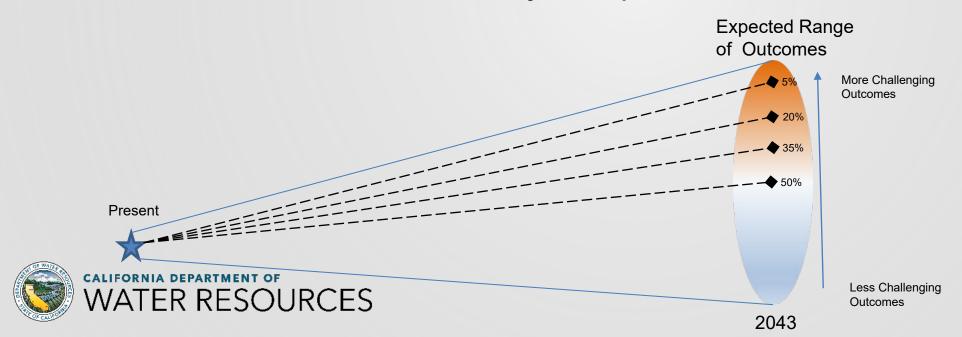
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Resilient Water Management

- Improved planning
- Increased transparency
- The future is uncertain with a range of possible outcomes
- Each agency may have different risk tolerance and dependance on SWP supplies



Structural Measures

Operations and Management Measures





- Structural Measures
 - Delta conveyance
 - California aqueduct subsidence project
- Operations and Management Measures





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 - Forecast informed reservoir operations (FIRO)
 - Improved seasonal forecasting
 - Lake Oroville water control manual update
 - Feather River watershed wildfire mitigation





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 - SWP enhanced asset management





Any Questions?

