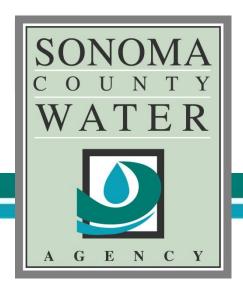
Sonoma County Water Agency Building Climate Resiliency in the Russian River



California Drought Forum

May 15, 2014



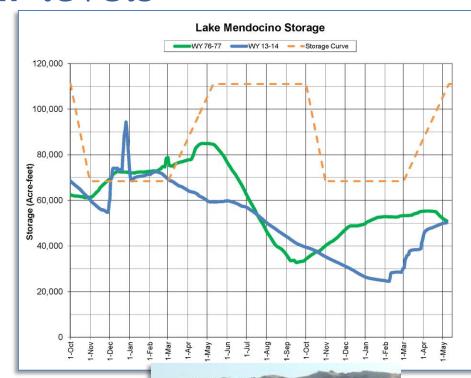
About the Sonoma County Water Agency



2014 Drought Impacts

- Historic low reservoir levels
 - Lake Mendocino at 1977 levels
 - > 2 TUCP's in 12 Months

Basin wide water conservation



Impacts to region economy



Working with Federal Agencies in the Russian River Watershed

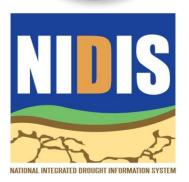
Pilot Projects for Federal Programs

- Integrated Water Resources Science and Services
- National Integrated Drought Information System
- NOAA Habitat Blueprint

Solving Local Resource Issues

- Russian River Instream Flow and Restoration
 - Collaboration with NOAA and Cal Fish & Wildlife
 - Development and Implementation of 2008 Biological Opinion









- Coping with Drought in California's Russian River Watershed
 - Climate Past and Future
 - Drought Preparedness
 - > Atmospheric Rivers







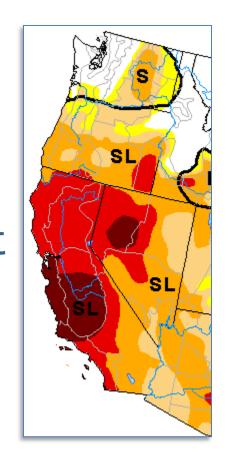


- Improved understanding of regional drought hydrology
 - Estimate historical climate through tree ring analysis
 - Analysis of climate change model results to better understand possible future extremes
 - Develop hypothetical extreme drought scenario for the Russian River to facilitate planning



Drought Readiness Report

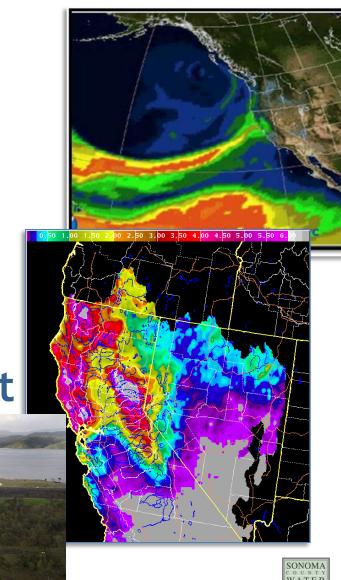
- Develop regionally appropriate drought indicators
- Trigger early response to drought development
- Develop actionable measures to respond to drought conditions





- Better Prediction of Atmospheric Rivers
 - Drought Busters
 - > 35-45% of Annual Precipitation

Scientific foundation for informed water management



- Facilitate Coordination of Federal Agencies
 - Reservoir operations informed by forecasts

