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Managing Water in the West

Central Valley Project

WY 2013

Challenges & Tradeoffs

November 2013



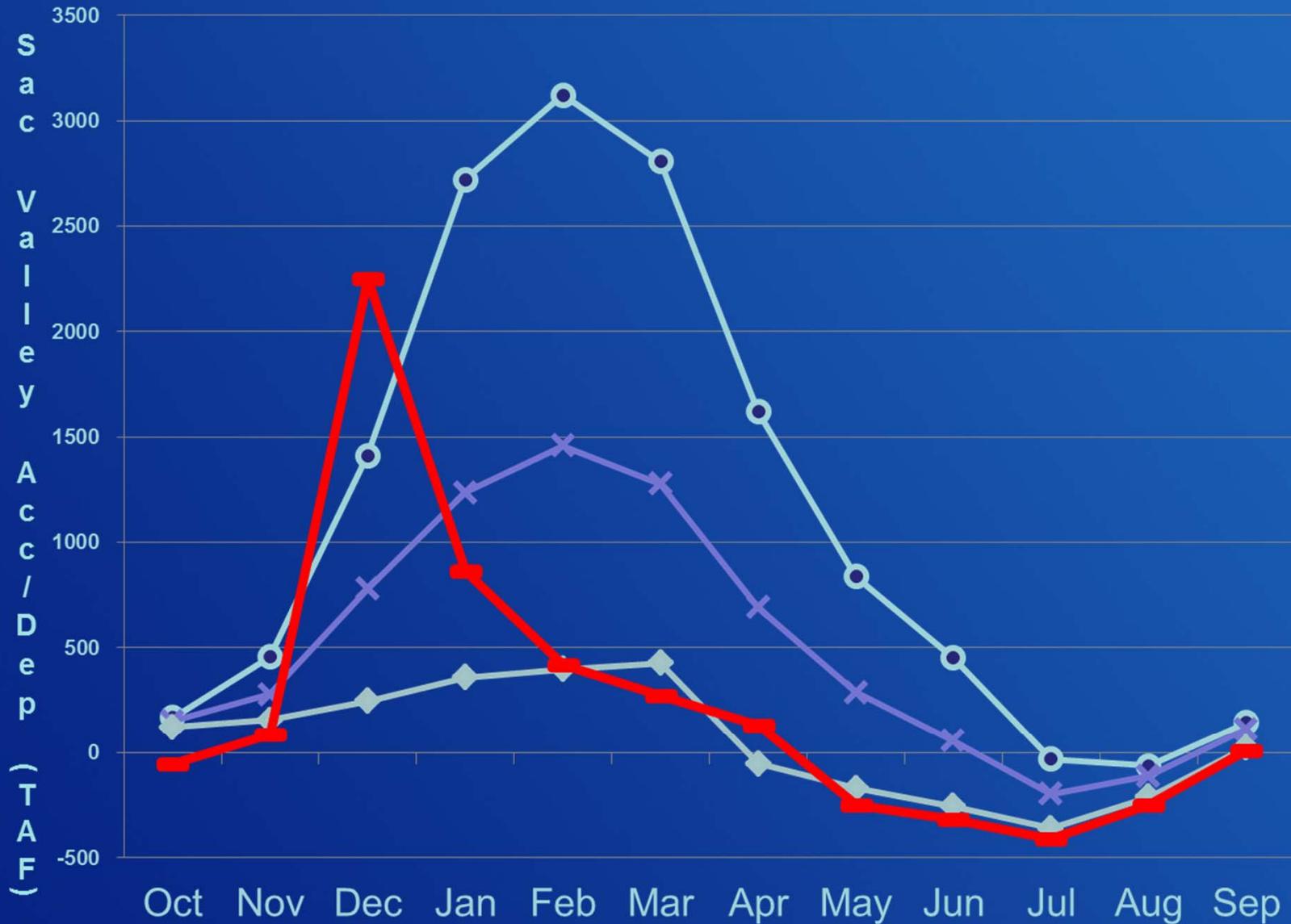
U.S. Department of the Interior
Bureau of Reclamation

- **WY2013 Challenges**
- January to May Hydrology
- Sacramento Valley Depletions
- Fishery Temperature Operations
- Delta Operations

- **Tradeoffs**
- Balancing Reservoir Storages
- Winter Flows / Summer Temps
- Temperature Targets
- American River fall-run

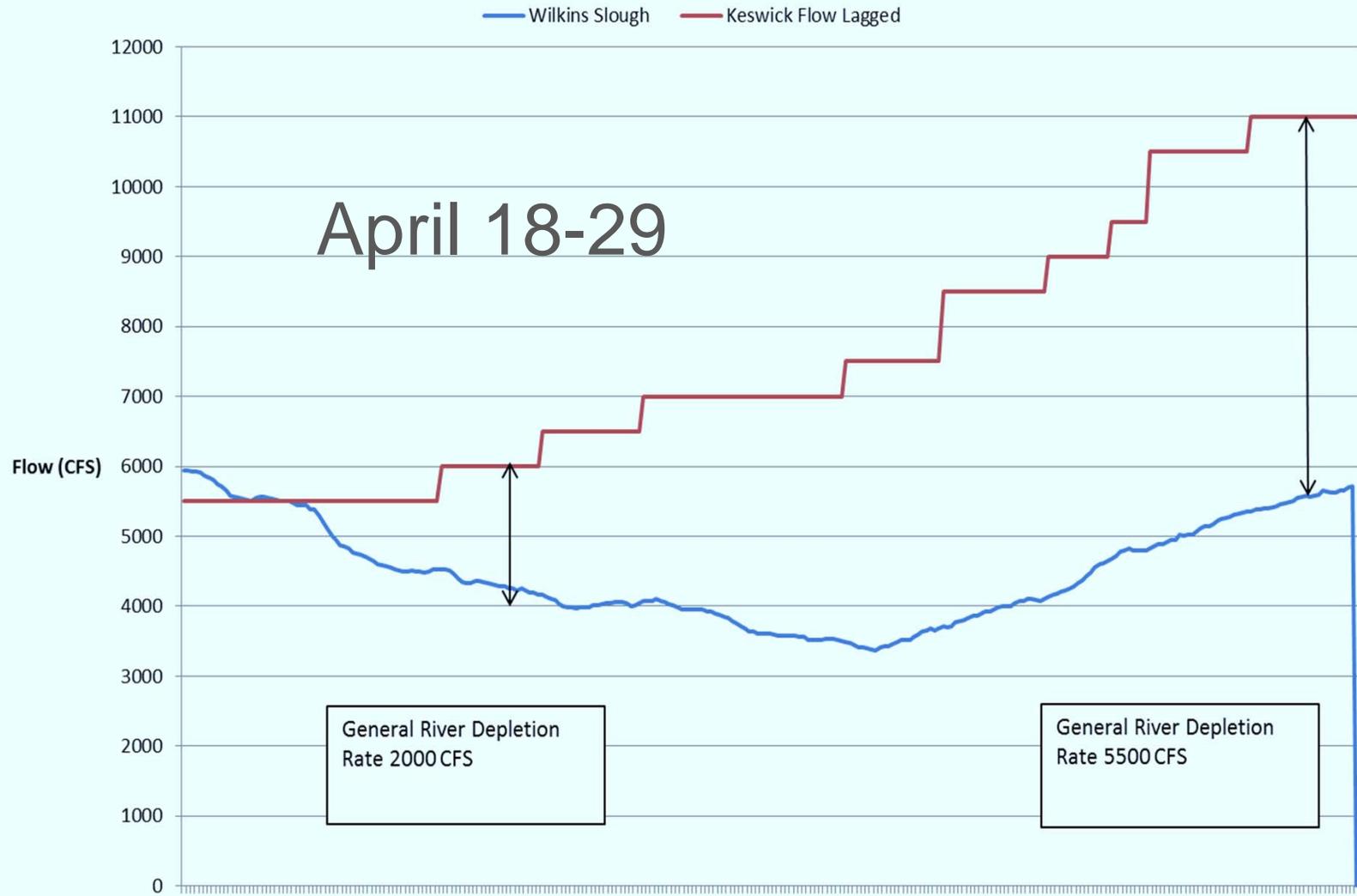


Acc/Dep Trends for 2013 vs. Historic Exceedence



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Flow Response to Reservoir Increases at Wilkins Slough



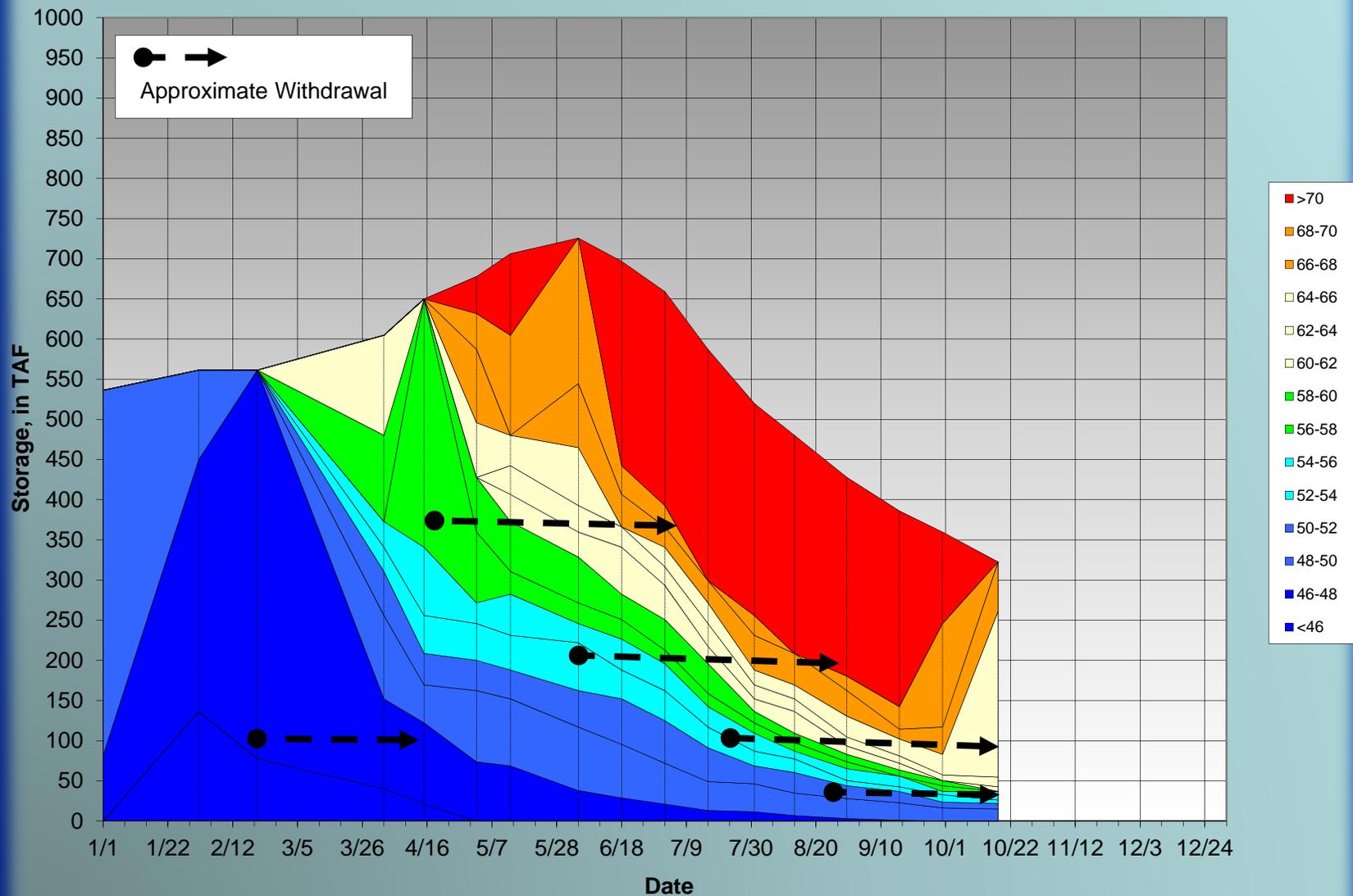
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Temperature Tradeoffs

- Sacramento River – Airport Road – full season
- Sacramento River - late fall-run Chinook flows
- American River – 69° F @ Watt Ave - steelhead
- American River – fall-run Chinook Spawning

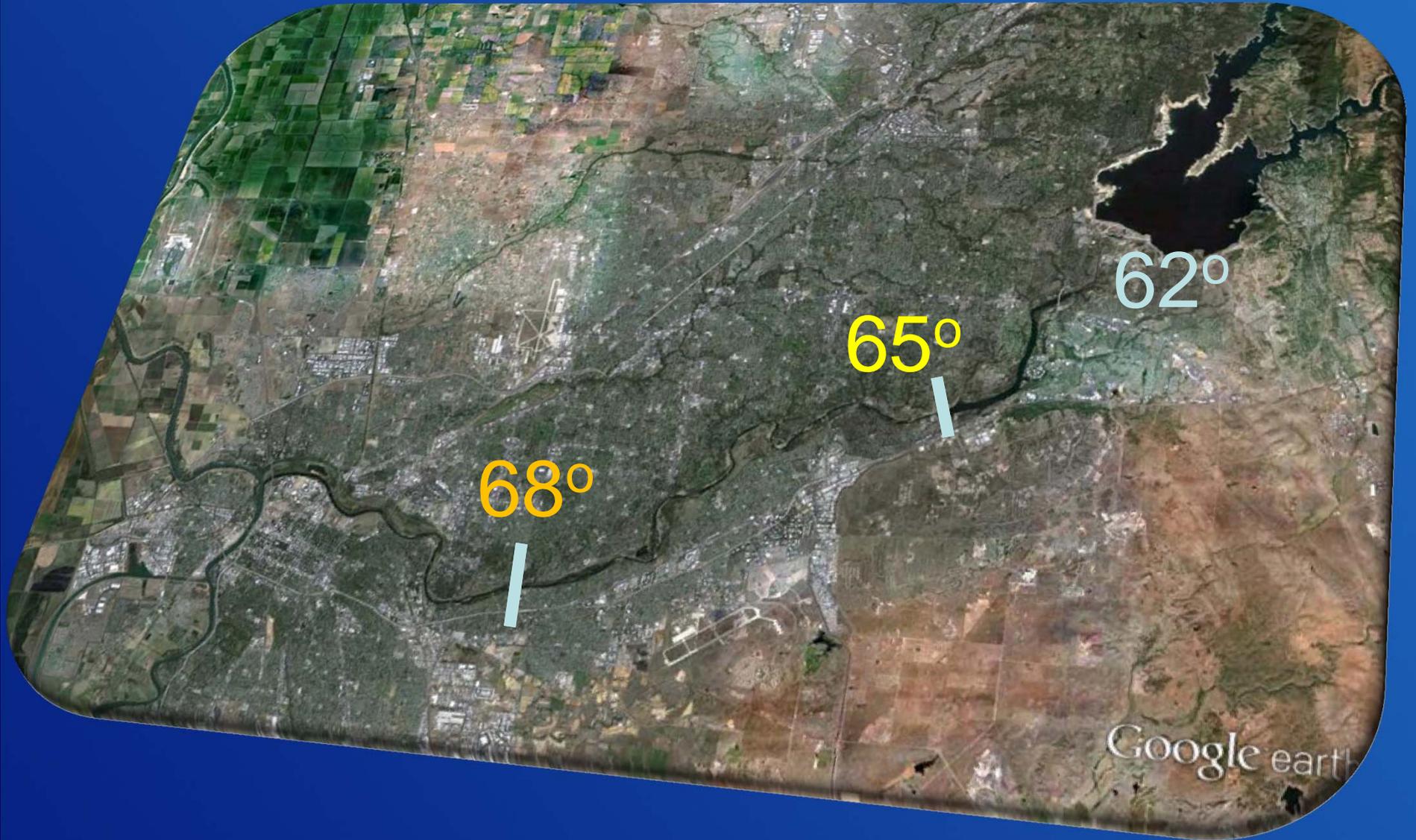
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Folsom Lake Isothermobaths - 2013 (Water Temperature, in ° F)



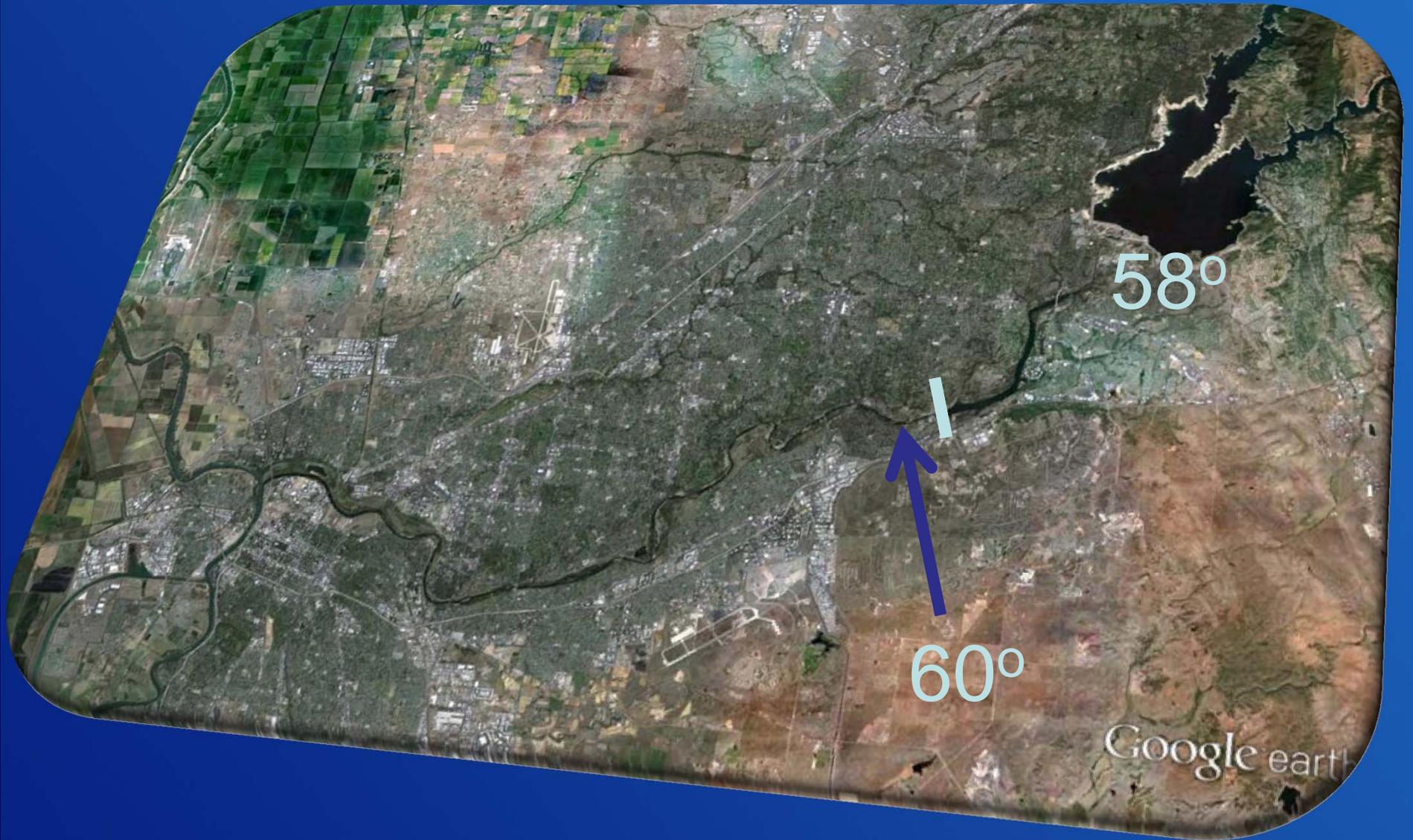
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Typical Summer Day



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Typical November Day

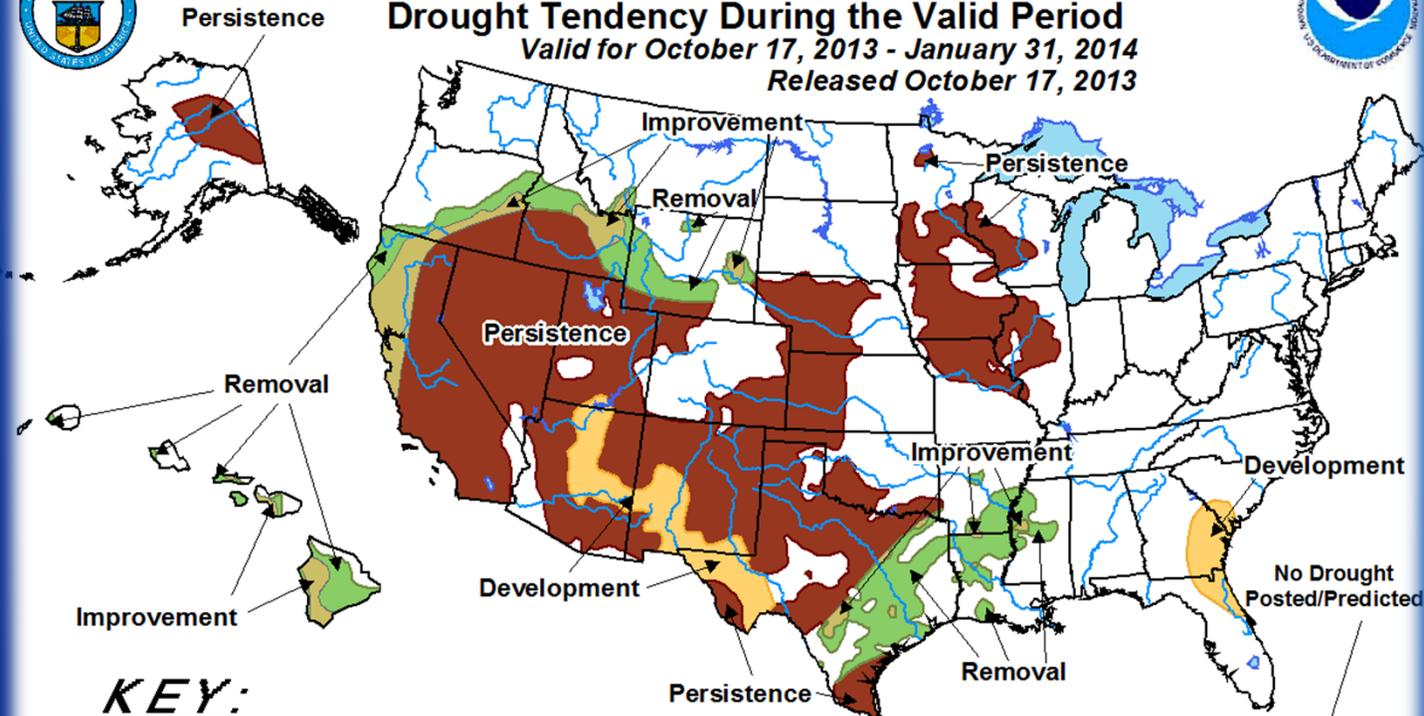


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Drought Outlook



U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period Valid for October 17, 2013 - January 31, 2014 Released October 17, 2013



KEY:

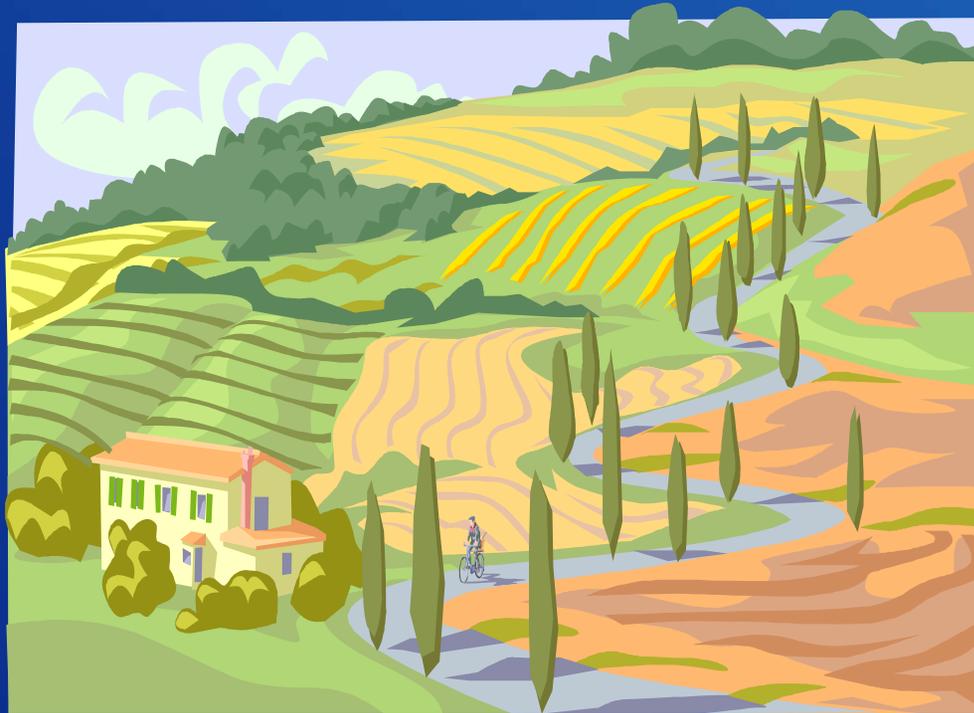
- Drought persists or intensifies
- Drought remains but improves
- Drought removal likely
- Drought development likely

Author: Adam Allgood, Climate Prediction Center, NOAA
http://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.html

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor.
 NOTE: The tan area areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period although drought will remain.
 The Green areas imply drought removal by the end of the period (D0 or none)

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Questions ?



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