STATE WATER PROJECT JUNE 2014 DROUGHT BRIEFING



John Leahigh
Department of Water Resources
June 4, 2014

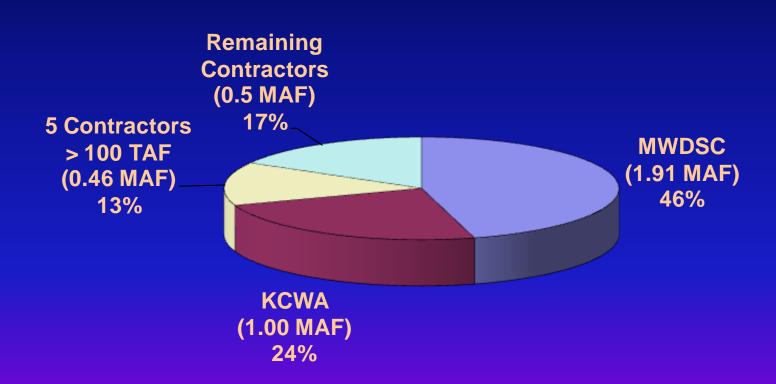
- State Water Project Overview
- California Hydrologic Uncertainty
- 2014 Hydrology
- Drought Response
- Preparation for 2015



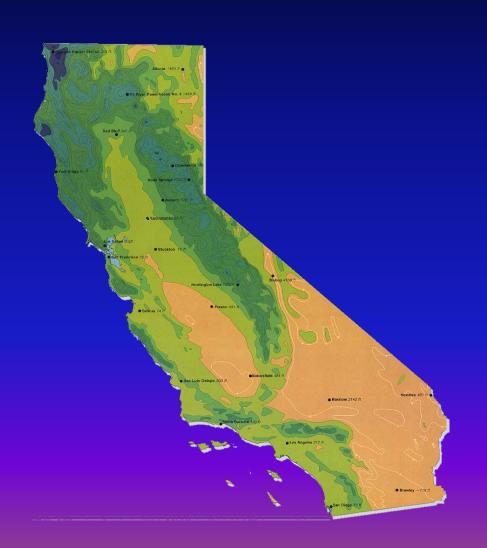


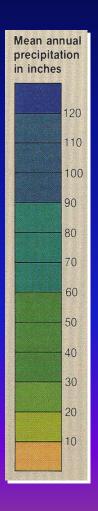


SWP Contract Amount "Table A" (4.18 MAF)

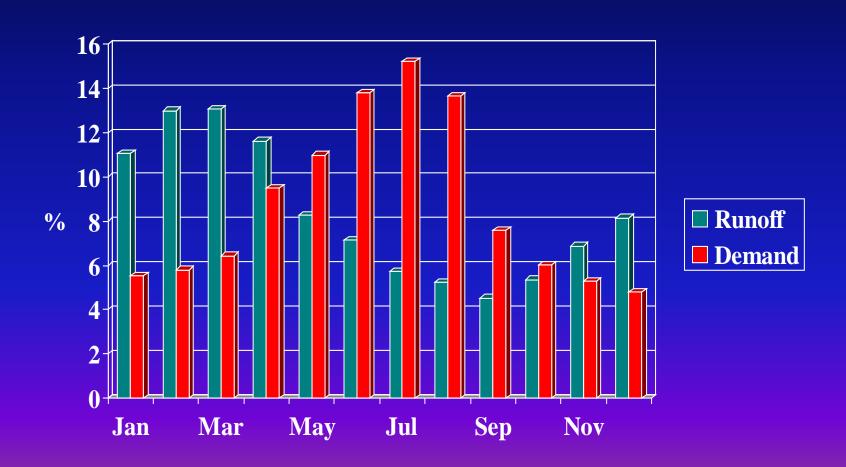


Project <u>Conveyance</u> Resolves the Geographic Disparity



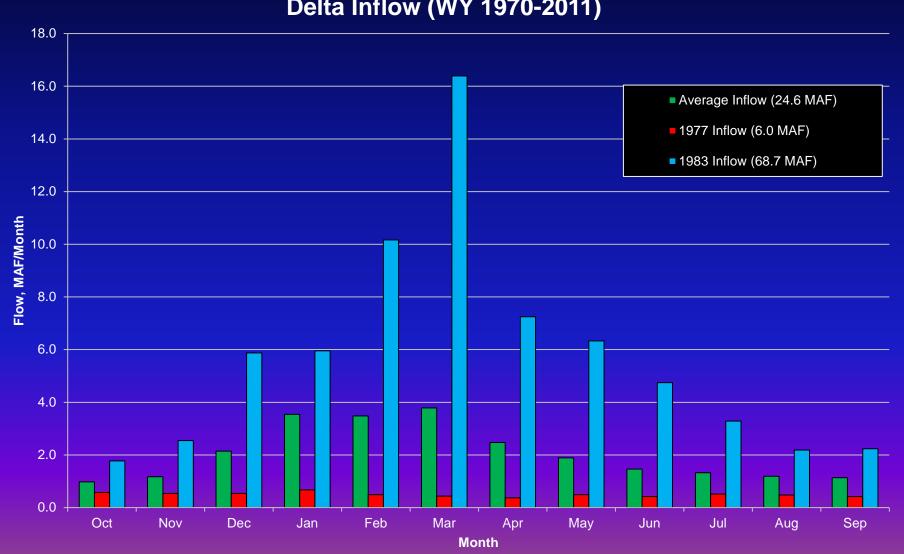


Project <u>Storage</u> Resolves the Seasonal Disparity

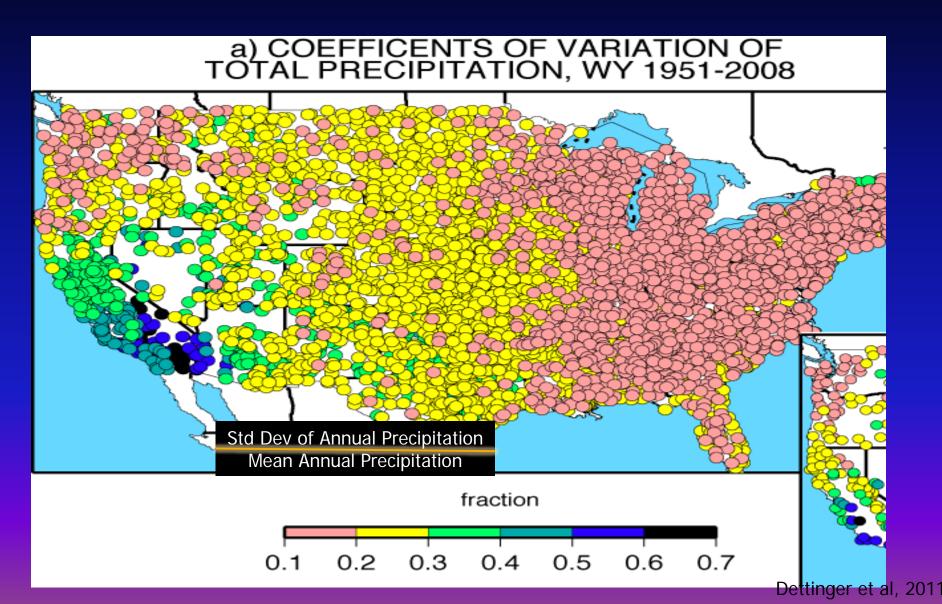


Seasonal Variation of Runoff

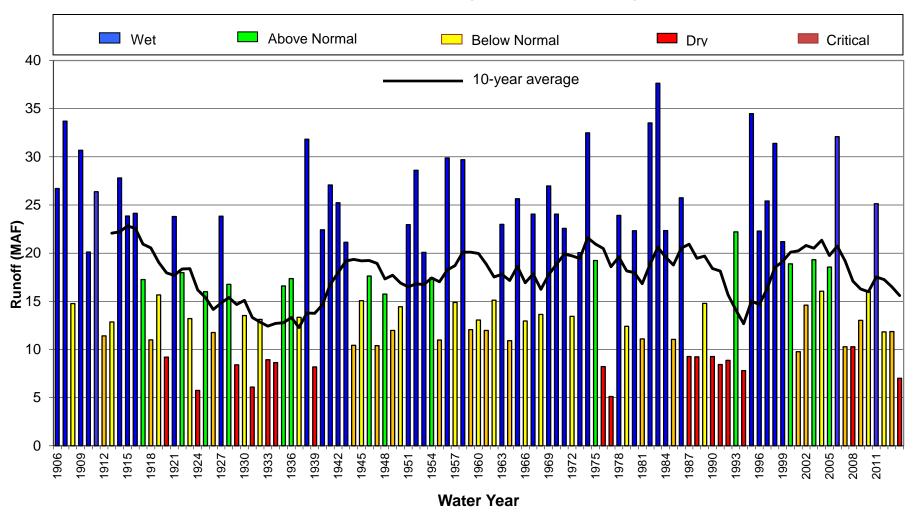




California's Precipitation is Uniquely Variable

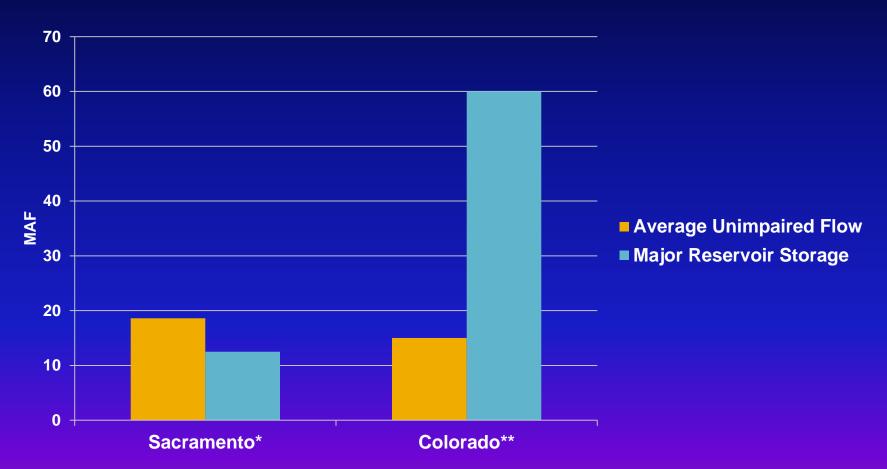


Sacramento Valley Water Year Types





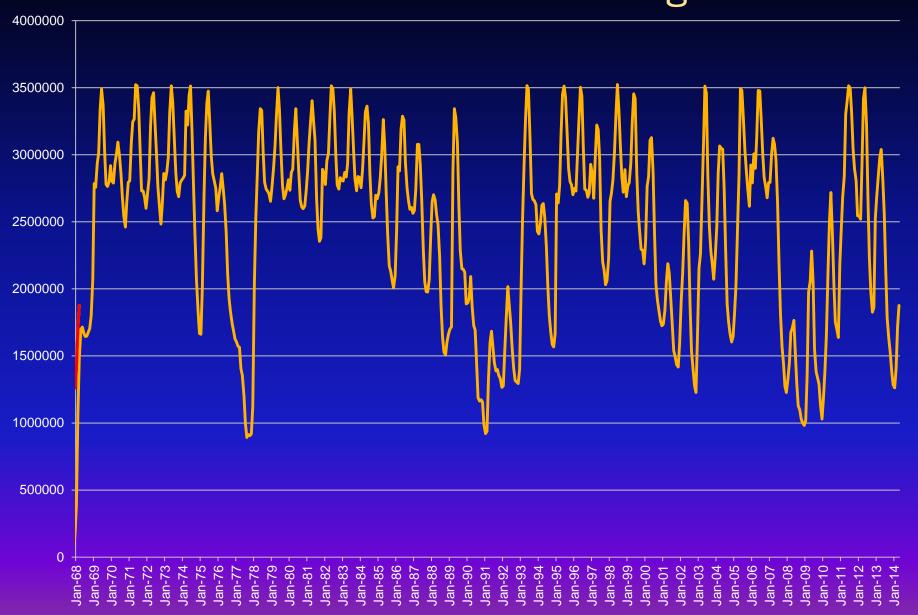
California Storage Insufficient for Annual Variation



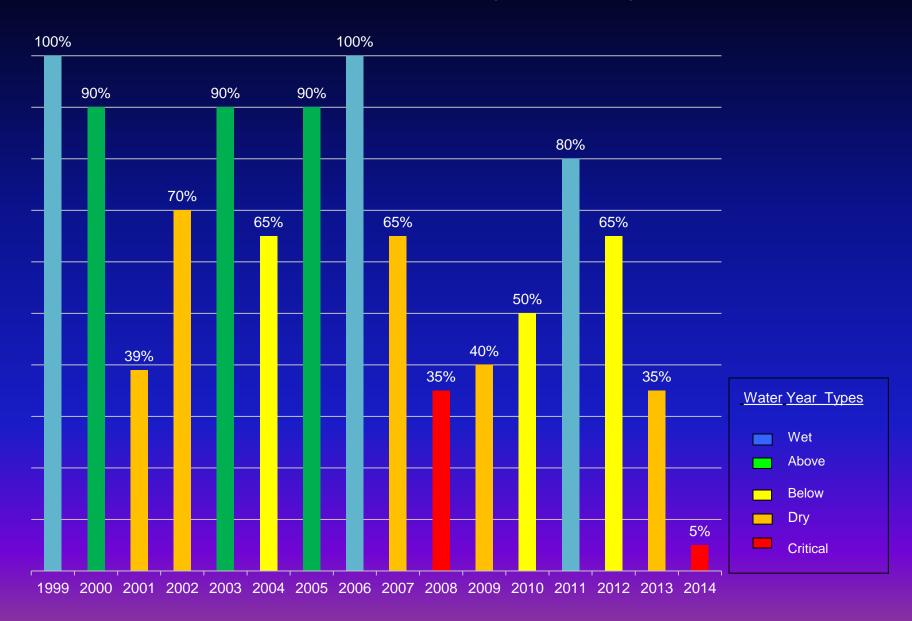
Trinity, Shasta, Oroville, and Folsom

^{**} Mead, Powell, and Flaming Gorge

Historical Lake Oroville Storage

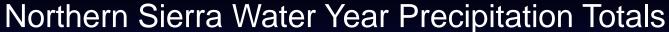


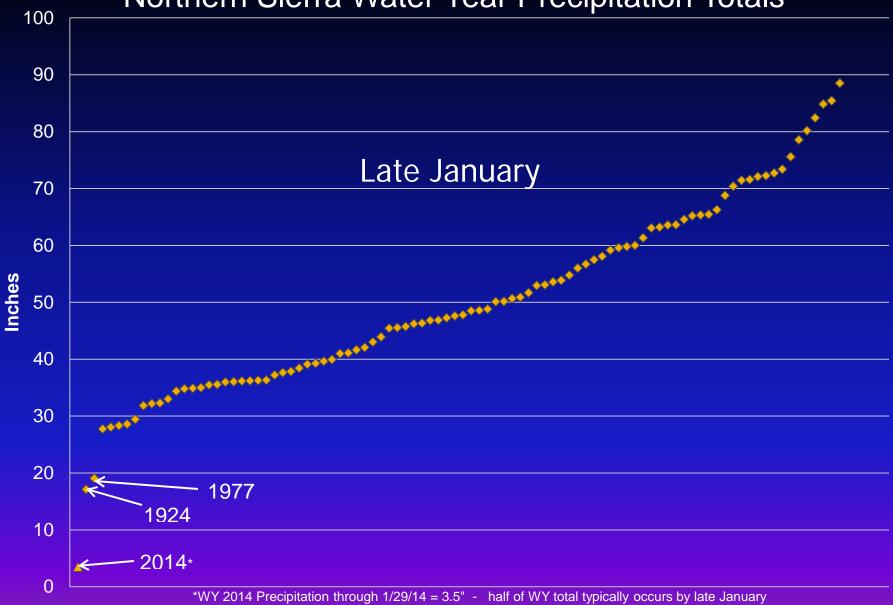
SWP Allocation by Year Type

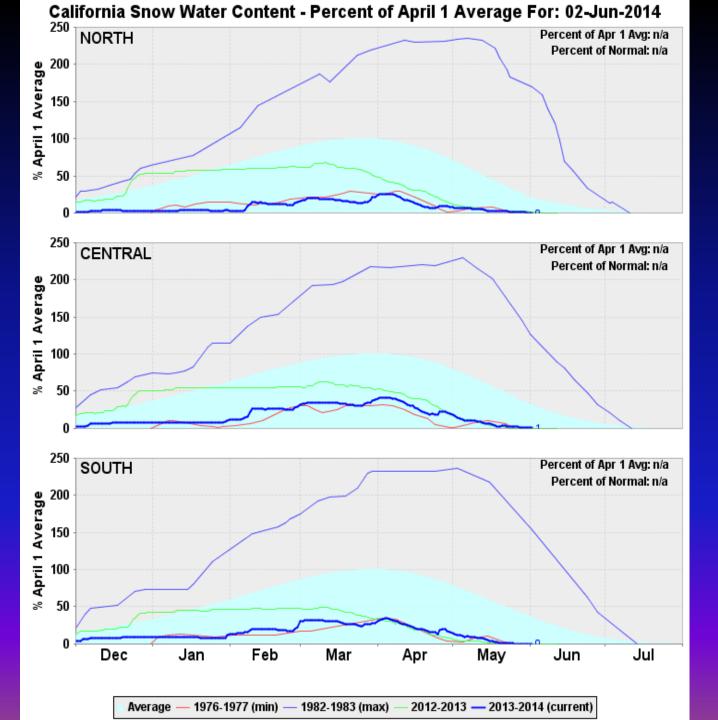


2014 Hydrologic Progression



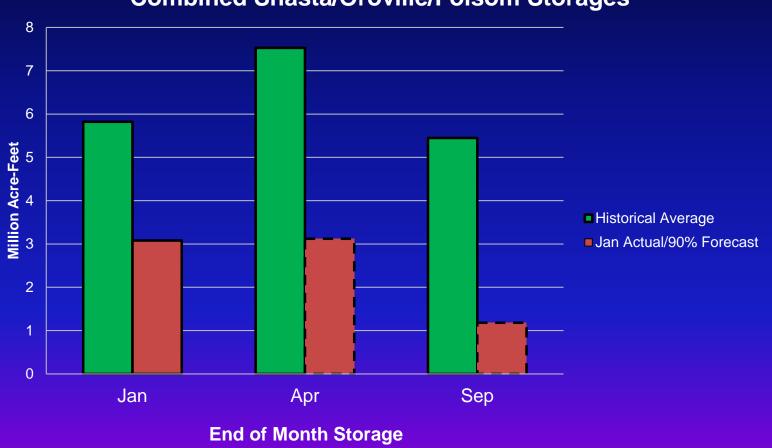




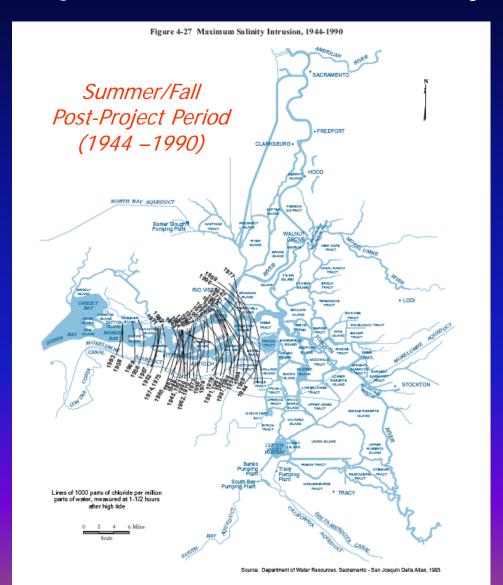


Insufficient Storage Gains in the Winter/Spring for Salinity Control in the Summer/Fall

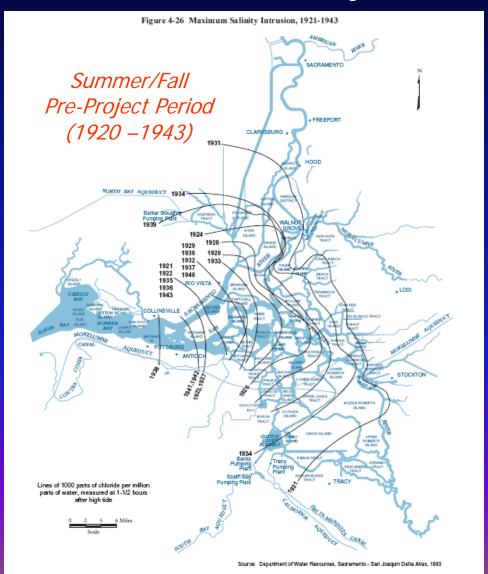
Combined Shasta/Oroville/Folsom Storages



Return to Normal Precipitation Pattern Project Controlled Salinity



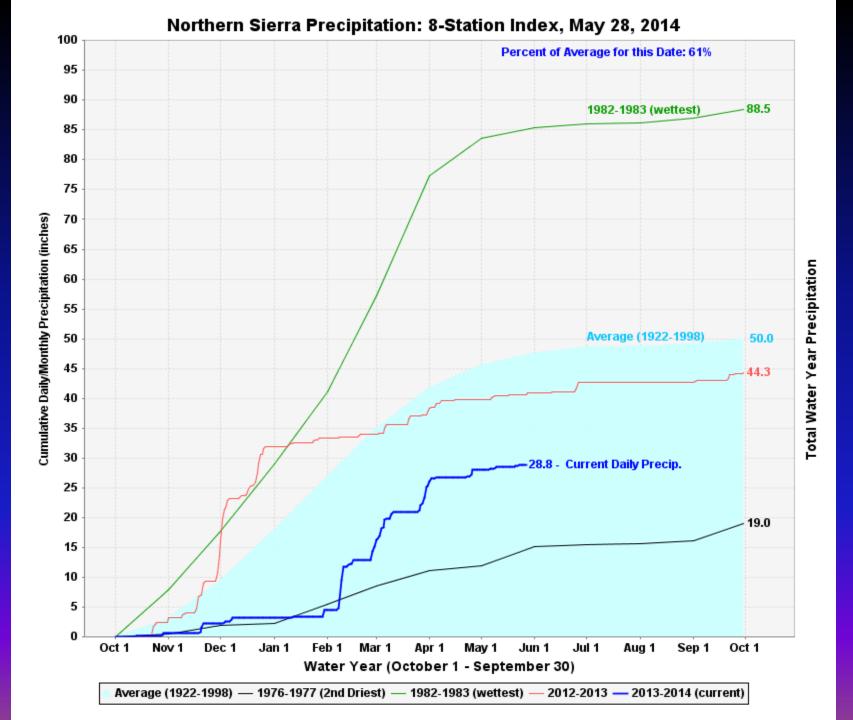
Continued Dry Conditions Loss of Delta Salinity Control



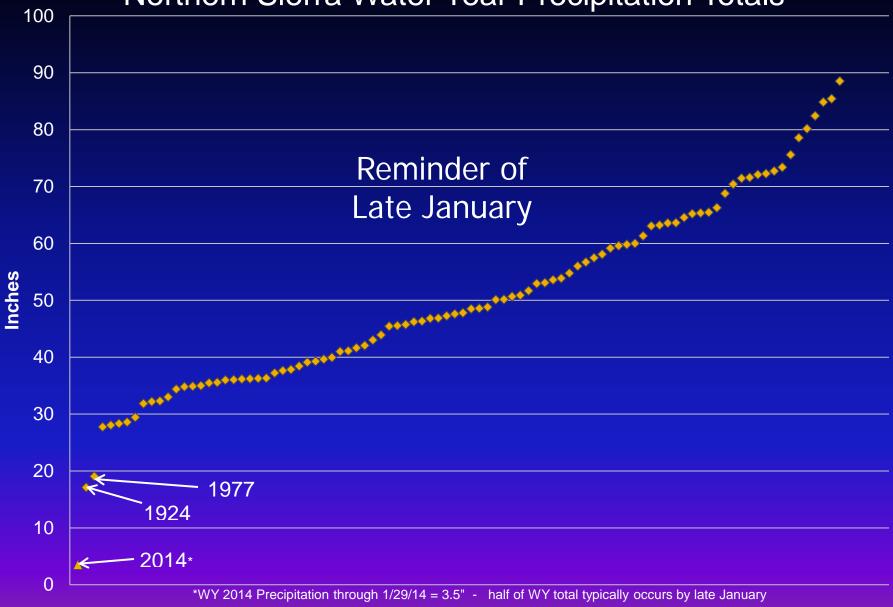
Preparing for the Worst

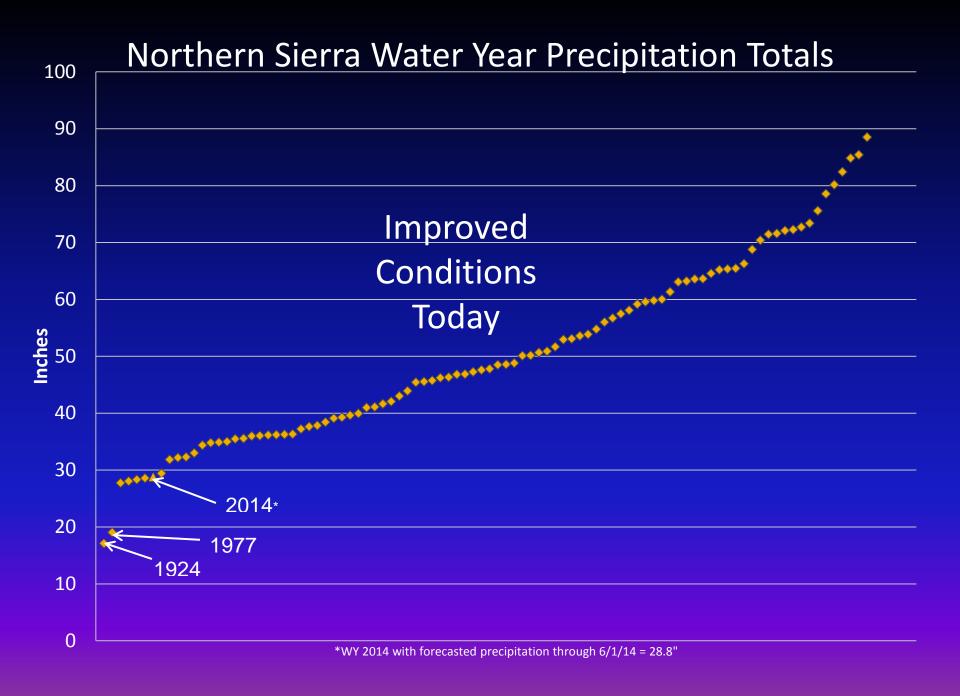
- Allocation Reductions
- Petition the Water Board to Modify Delta Standards
- Plan for Emergency Drought Rock Barriers
- Begin Development of the Drought Operations Plan

February/March Improvements

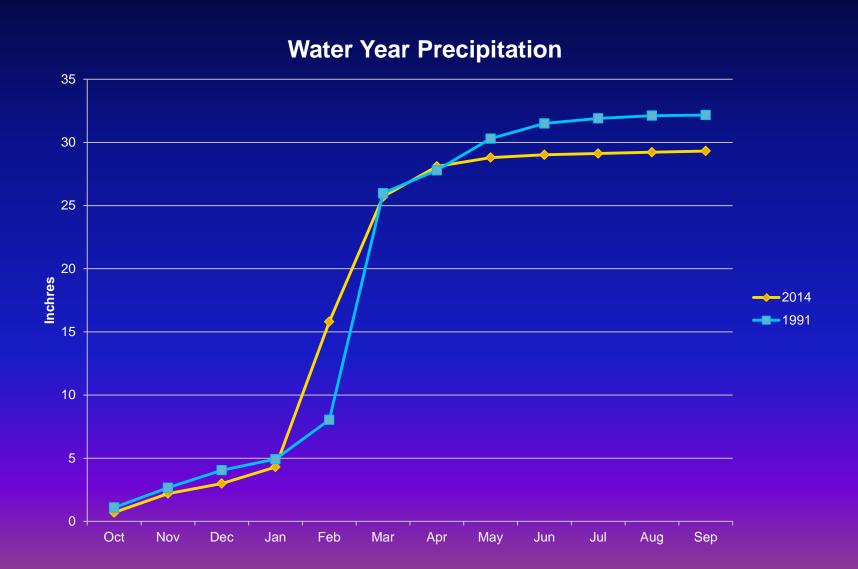






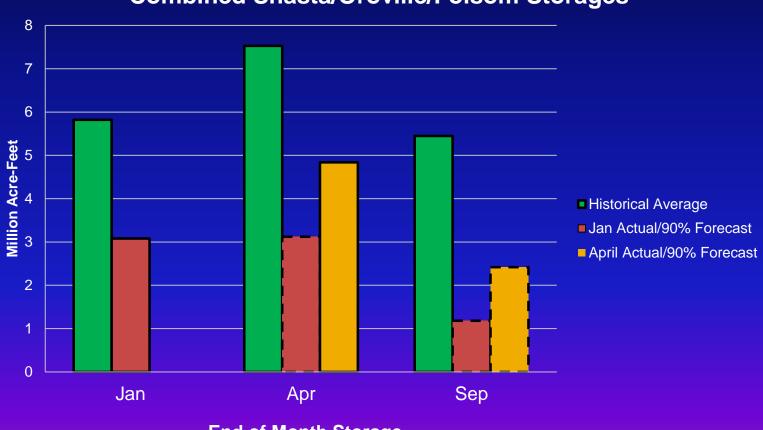


"Miracle March February/March"



Improved Storage

Combined Shasta/Oroville/Folsom Storages



End of Month Storage

Improved Conditions

Some Increased Supply

 Scaled Back Requests for Modified Delta Standards

Emergency Drought Barrier Installation on Hold

Drought Actions for 2015

1 Thessalonians 5:17



Possible Drought Management Actions for 2015

Reduced SWP Supply

Modified Delta Flow/Salinity Standards

State Water Board Curtailments

Drought Barrier Installation

El Nino?



Questions?



State Water Project
Operations Control Office
http://wwwoco.water.ca.gov