

## Water Supply Conditions and Regional Drought Response



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April 2, 2014  
San Diego IRWM RAC Meeting



## Agenda

- Current drought conditions
- Investments in supply reliability
- Overview of regional conservation programs

DWR April 1<sup>st</sup> manual snow survey

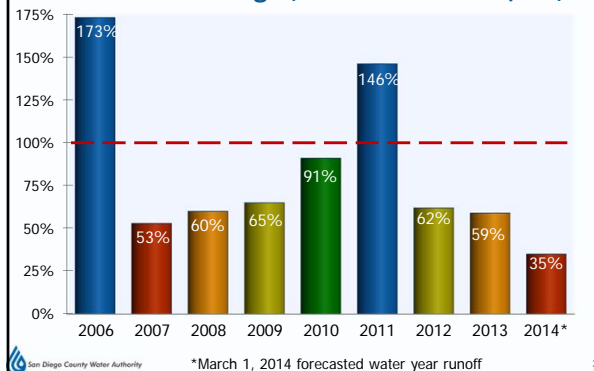


*"Despite Storms, Snowpack Still Far Below Normal - Drought Retains Grip as Summer Approaches"* DWR Press Release, 4/1/14

Snowpack water content only 32% of average statewide



### Average Water Year Statewide Runoff Percent of Average (Water Year: Oct 1 – Sept 30)



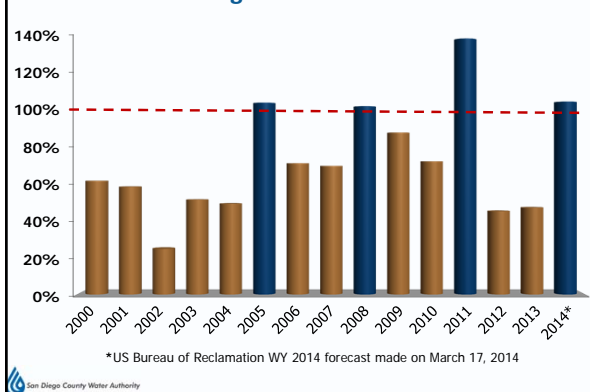
### Lake Oroville – Principal SWP Reservoir - July 2011 100% Capacity

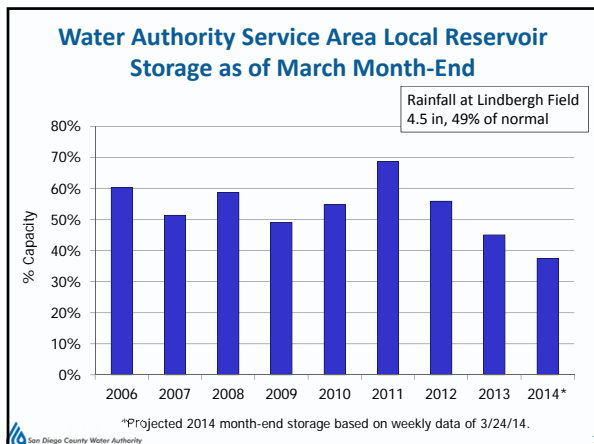


### Lake Oroville – Principal SWP Reservoir - January 2014 36% Capacity



### Water Year Unregulated Inflow to Lake Powell





### Impacts due to Dry Conditions Vary Statewide

- Areas most impacted are those relying on a single watershed or source of supply
- Small rural drinking water communities
- Farming communities in the Central Valley
- Urban regions
  - For example, San Juan Water District is at Stage 3, 25% mandatory reductions
  - Rely only on Lake Folsom: currently 45% of capacity

### San Diego Region Better Able to Manage Shortages due to Drought

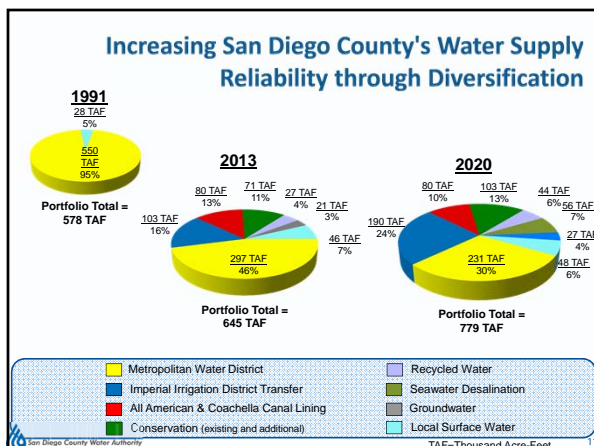
- Ratepayers investments and commitment to water conservation have reduced the region's vulnerability to drought
  - Diversification
    - Colorado River Transfers: 180,000 AF in 2013
  - Water Conservation
    - Water use down 24% since 2007
  - Regional Storage
    - Adequate storage reserves in southern California to help manage conditions
- No cutbacks expected for San Diego region in 2014

Lining the Coachella Canal

Metropolitan Water District Diamond Valley Lake

### February 13, 2014 Water Authority Board Actions on Drought Response

- Activate the Water Authority's Water Shortage and Drought Response Plan, Voluntary Stage
- Declare a Regional Drought Response Level 1, Drought Watch condition
  - Eliminate wasteful water practices
  - Check with local water agency for specific measures
- Actions taken to reduce usage will help manage storage reserves and respond to Governor's drought declaration calling for conservation statewide



### Carlsbad Desalination Project

- New, local, drought-proof water supply
- 50 mgd facility located adjacent to Encina Power Station in Carlsbad
- Public-private partnership between Water Authority and Poseidon Resources
- Construction approximately 30% complete
- Expected online in early 2016

Construction site of Carlsbad Desalination Facility

**Project: San Vicente Dam Raise  
Construction Complete: Summer 2014**



**Benefit: Increase reservoir capacity by 152,000 AF for emergency situations and drought shortage periods**

## Rebates and Resources for WaterSmart Living



Rebates



[WaterSmartSD.org](http://WaterSmartSD.org)



Turf Replacement Program



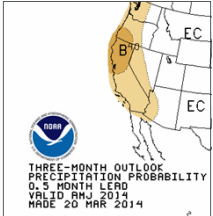
Online digital magazine

San Diego County Water Authority

## Conclusion

- Continue to closely monitor supply and demand conditions
- Enhanced public outreach underway
  - Formal outreach campaign beginning in April
- Ratepayer investments in supply reliability have paid off
  - Region better able to manage shortages due to drought
- Critical that residents and businesses continue to use water wisely

**Precipitation Outlook  
April – June 2014**



San Diego County Water Authority