

# Water Supply Conditions

Special Board Meeting  
February 13, 2014

Presented by:  
Ken Weinberg, Director of Water Resources  
Dana Frieauf, Acting Water Resources Manager

SERIOUS DROUGHT  
HELP SAVE WATER

EXIT  
131  
↑

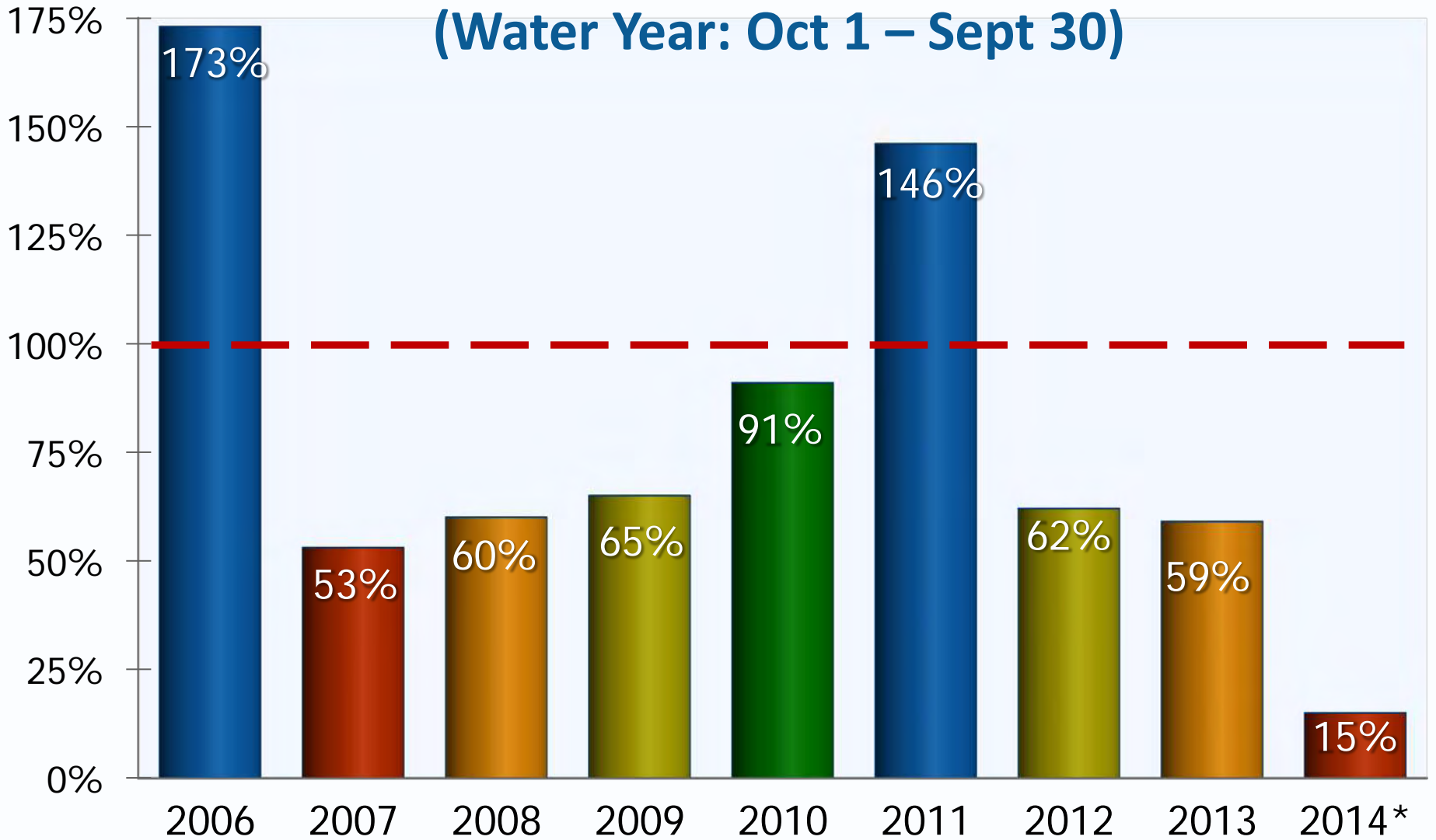
Four-Year Plan  
AT WORK  
HIGHWAY IMPROVEMENT  
YEAR OF COMPLETION  
FEDERAL HIGHWAY  
STATE HIGHWAY



San Diego County  
Water Authority

# Average Water Year Statewide Runoff

(Water Year: Oct 1 – Sept 30)



# Lake Oroville – Principal SWP Reservoir - July 2011

## 100% Capacity, 131% Average



# Lake Oroville – Principal SWP Reservoir - January 2014

## 36% Capacity, 55% Average

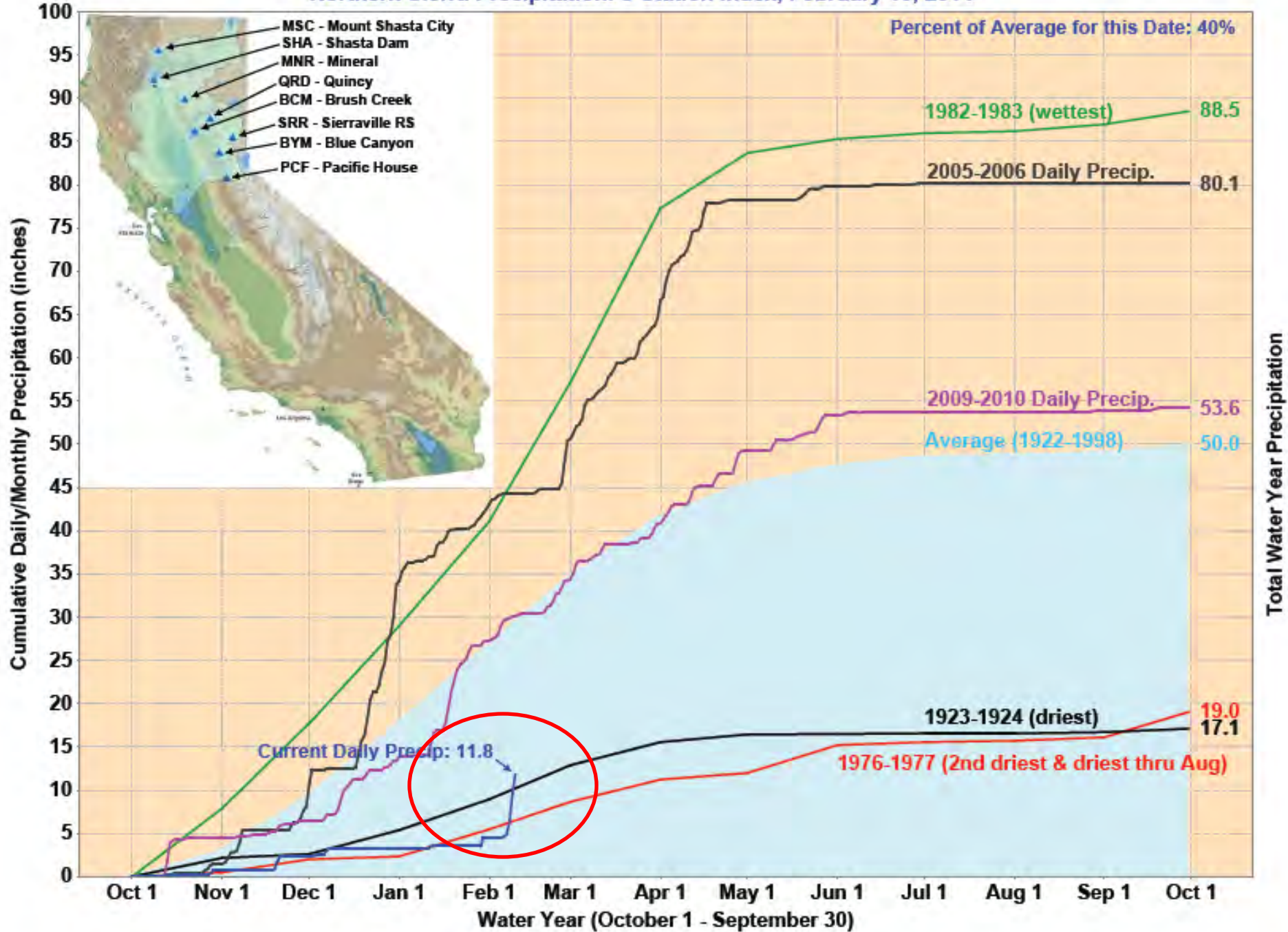


# Drought Related Actions

- Governor Brown proclaimed a State of Emergency in California due to drought (Jan 17)
  - Call for increased voluntary conservation and implementation of shortage contingency plans
- DWR reduced SWP Table A Allocation to zero percent (Jan 31)
  - Jan 30 snow survey lowest recorded snow water content for that time of year (12%)
- MWD Board adopted Water Supply Alert resolution (Feb 11)
  - Call for local agencies to achieve extraordinary conservation by adopting and enforcing drought ordinances



# Northern Sierra Precipitation: 8-Station Index, February 10, 2014



# Comparison of Water Use and Supply Conditions in Water Authority Service Area in 2007 and 2013

Indicator	CY 2007	CY 2013
Total Water Use (includes recycled water)	725,900 AF	572,200 AF
Member Agency Local Supplies	77,000 AF	87,900 AF
Water Authority Colorado River Transfer Supplies	73,125 AF	180,000 AF
Regional Reliance on MWD Supplies	79%	53%
MWD End of Year Storage	1.8 MAF	2.4 MAF

Notes: MWD = Metropolitan Water District of Southern California  
AF = Acre-Feet

# Water Authority Dry-Year Regional Management Tools

- Water Shortage and Drought Response Plan
  - Provides guidance on regional actions to manage dry-year conditions
  - Provides orderly, incremental approach to drought response
- Model Drought Response Ordinance
  - Purpose is to provide regional consistency
  - Contains response levels and core water-use restrictions
    - Progressive severity of restrictions to avoid economic hardship
  - All member agencies updated ordinances based on model
    - Restrictions vary slightly



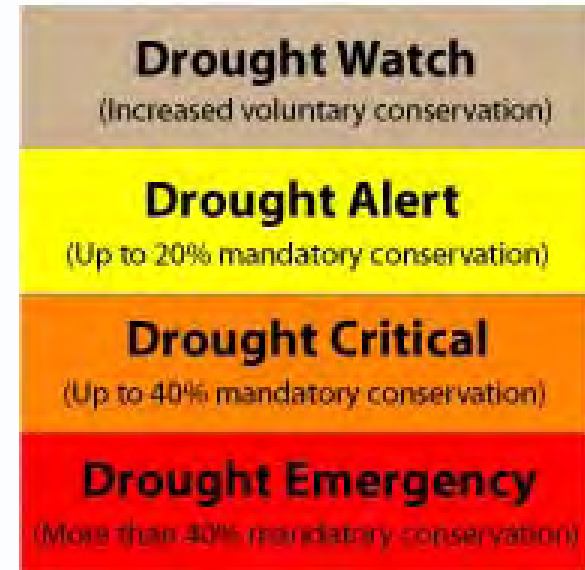
# Water Shortage and Drought Response Plan

## Drought Response Matrix – Firm Demands

POTENTIAL SDCWA DROUGHT ACTIONS	REGIONAL STAGES		
	Voluntary Supply Management	SDCWA Supply Enhancement	Mandatory Cutbacks
Ongoing BMP Implementation	X	X	X
Communication Strategy	X	X	X
Monitoring supply conditions and storage levels	X	X	X
Call for increased voluntary conservation	X	X	X
Put in and take from SDCWA Carryover Storage	X	X	X
Secure transfer option contracts	X	X	X
Buy phase 1 spot transfers (cost at or below Tier 2 rate)		X	X
Call transfer options		X	X
Buy phase 2 spot transfers (cost at or below Tier 2 rate)		X	X
Implement allocation methodology			X
Utilize ESP Supplies			X

# Model Drought Response Ordinance

- Contains four drought response levels with progressive severity of restrictions
- Types of water conserving measures at Level 1:
  - Washing paved surfaces only when necessary for health and safety
  - Eliminating inefficient landscape irrigation, such as runoff and overspray
  - Irrigating only before 10 a.m. and after 6 p.m.
  - Serving and refilling water at restaurants only on request



# Correlation between Plan Stages and Model Ordinance Levels

Plan Stage	Potential Drought Response Level	Use Restrictions
*Stage 1	1- Drought Watch	Voluntary
Stage 2	1- Drought Watch	Voluntary
	2- Drought Alert	Mandatory
Stage 3	2- Drought Alert	Mandatory
	3- Drought Critical	Mandatory
	2- Drought Emergency	Mandatory

\*Staff recommendation, Stage 1, Level 1

# Basis for Staff Recommendation

- Respond to governor's call for increased voluntary conservation and immediate implementation of water shortage contingency plans
- Assist the state in managing California's water crisis that arose due to unprecedented dry conditions statewide
- Metropolitan will need to withdraw significant amounts of water from storage in 2014 to meet normal demands
- Water savings achieved through increased voluntary conservation will help preserve critical water reserves should dry conditions continue

# Staff Recommendation

1. Declare implementation of Stage 1, Voluntary Supply Management, of the San Diego County Water Authority's Water Shortage and Drought Response Plan; and
2. Approve notification to the Water Authority member agencies of a Regional Drought Response Level 1, Drought Watch condition