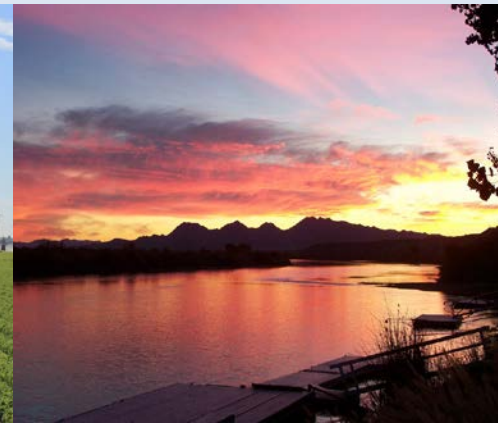


# **The Colorado River: Time to Act?**

**Tanya Trujillo  
Executive Director  
Colorado River Board of California**

**Southwestern Water Conservation District  
April 4, 2014**



# LOWER BASIN DROUGHT CONTINGENCY PLANNING



Lower Basin Background

Review of Current Programs

Drought Contingency Planning

California Drought Update

# LOWER BASIN BACKGROUND



## Lower Basin Allocations:

- California 4.4 maf/yr + surplus
- Arizona 2.8 maf/yr
- Nevada .300 maf/yr

## 1928 Boulder Canyon Project Act

## 1964 Arizona v. California

## 1968 Colorado River Basin Project Act

# CALIFORNIA'S COLORADO RIVER ALLOCATIONS 1931 AGREEMENT

1. Palo Verde ID (104,500 acres valley)	
2. Yuma Project	
3.(a) Imperial ID/Coachella Valley WD	
(b) PVID (16,000 acres mesa)	<u>3.85 maf</u>
4. Metropolitan WD	+ <u>.55 maf</u>
Basic Apportionment	<u>4.40 maf</u>
5. Metropolitan WD	<u>.662 maf</u>
6. IID/CVWD/PVID	<u>.300 maf</u>
7. Agricultural Use	

# CALIFORNIA'S COLORADO RIVER USES



**Irrigation of 800,000 acres of farmland**

**Domestic water for 20 million people**

**3.5 billion kwh of hydropower**



**Opportunities for recreation and tourism and fish and wildlife habitat**

# CALIFORNIA'S 4.4 PLAN

## Quantification Settlement Agreement



**Transfers (short and long term)**

**Off stream storage/interstate banking**

**Efficiency projects/canal lining**

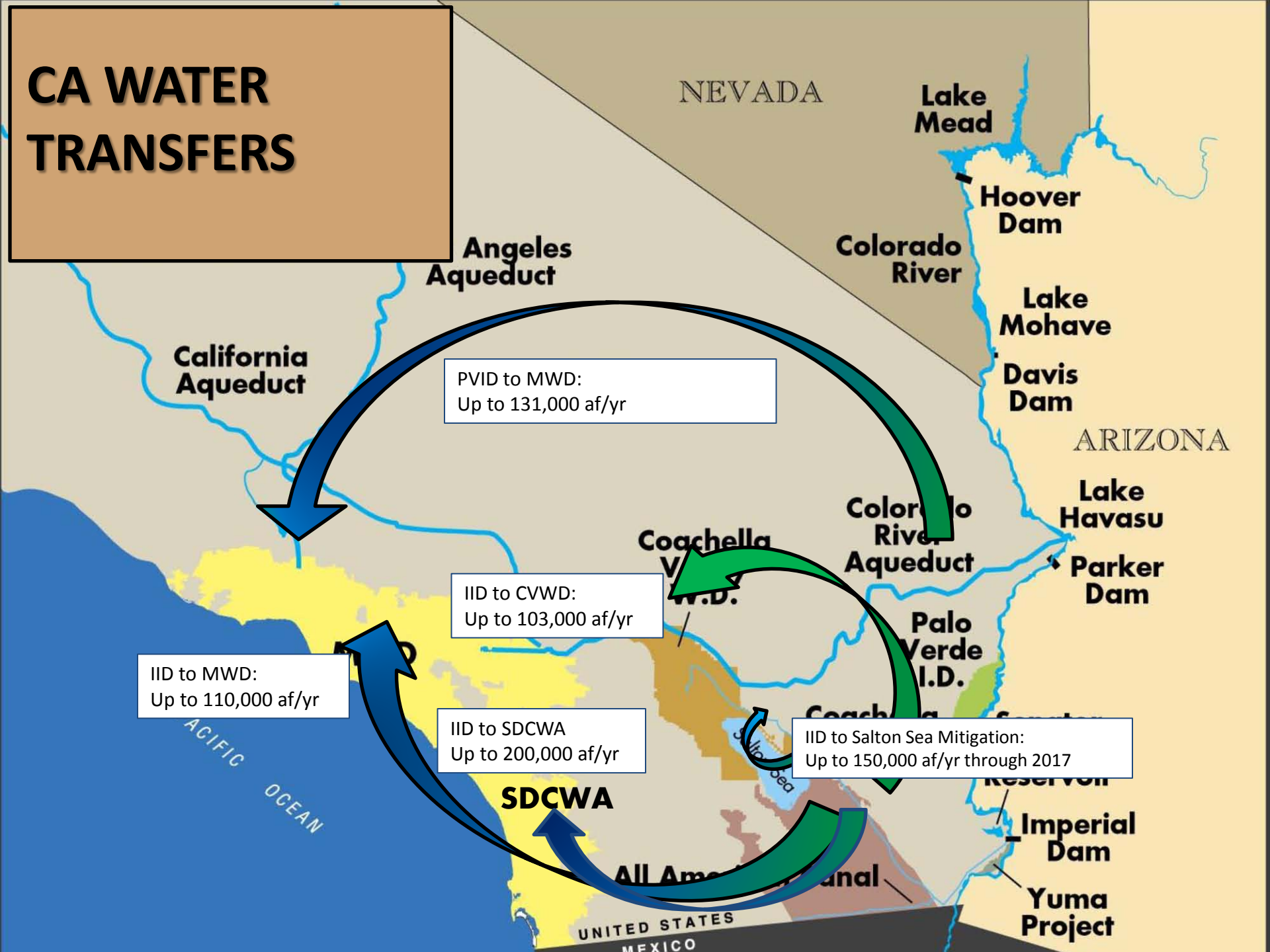
**Conservation**

**Augmentation**

**Quantification Settlement Agreement**



# CA WATER TRANSFERS



NEVADA

Lake Mead

Hoover Dam

Colorado River

Lake Mohave

Davis Dam

ARIZONA

Lake Havasu

Parker Dam

Colorado River

Aqueduct

Palo Verde I.D.

Coachella V.W.D.

Imperial Dam

Yuma Project

Angeles Aqueduct

California Aqueduct

PVID to MWD:  
Up to 131,000 af/yr

IID to CVWD:  
Up to 103,000 af/yr

IID to MWD:  
Up to 110,000 af/yr

IID to SDCWA  
Up to 200,000 af/yr

IID to Salton Sea Mitigation:  
Up to 150,000 af/yr through 2017

SDCWA

All American Canal

PACIFIC OCEAN

UNITED STATES  
MEXICO

# CALIFORNIA'S COLORADO RIVER USES



Since 2003, CA's average use is at 4.3 maf

CA Agencies have invested over \$1 billion towards conservation efforts

State of California invested \$254 million for canal lining

Transfers have totaled more than 3.0 maf through 2012





# EXISTING LOWER BASIN PROGRAMS



**1999 Storage and Interstate Release Agreements**

**2001 Interim Surplus Guidelines**

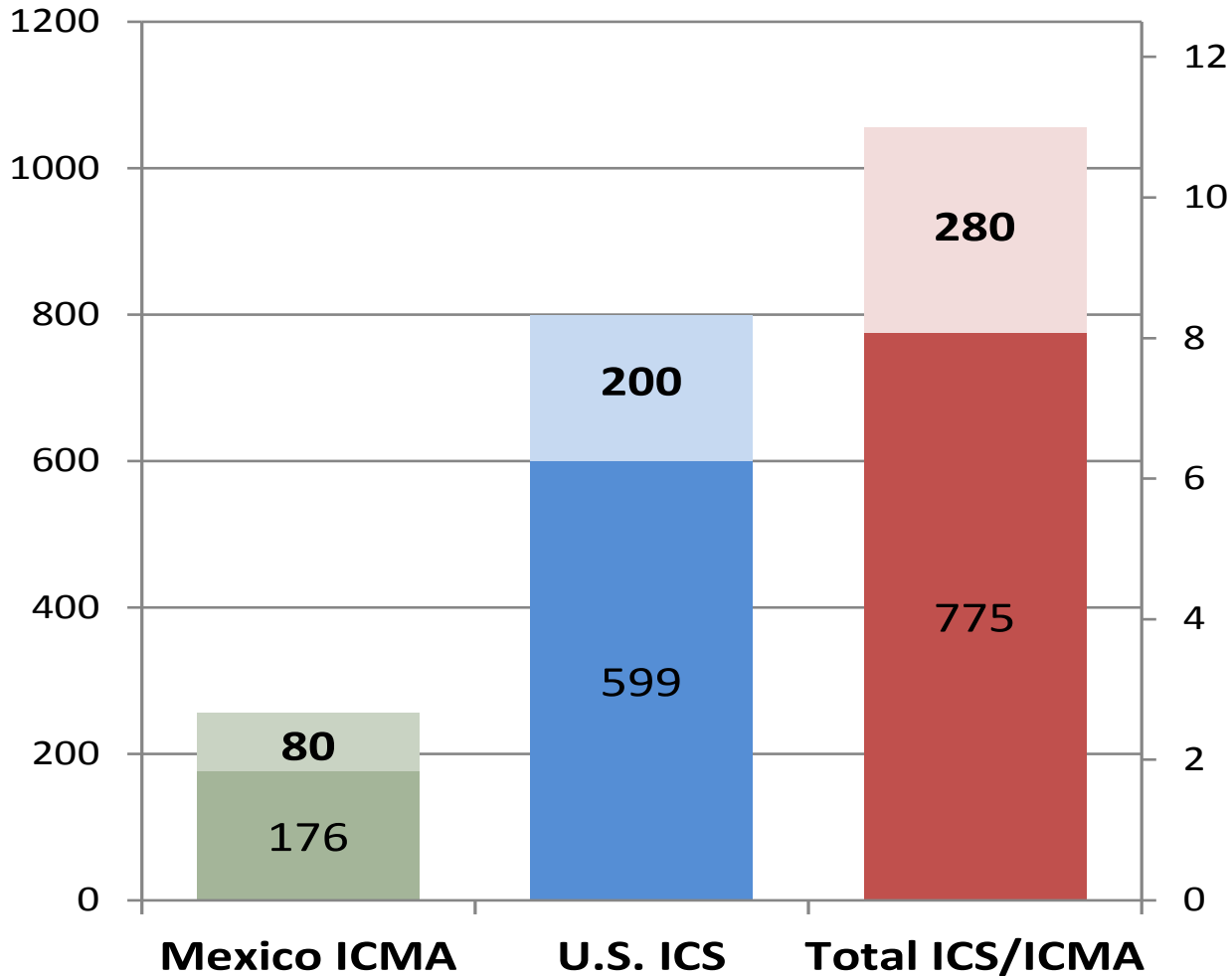
**2004 System Conservation Pilot Programs**

**2007 Coordinated Operations Guidelines**

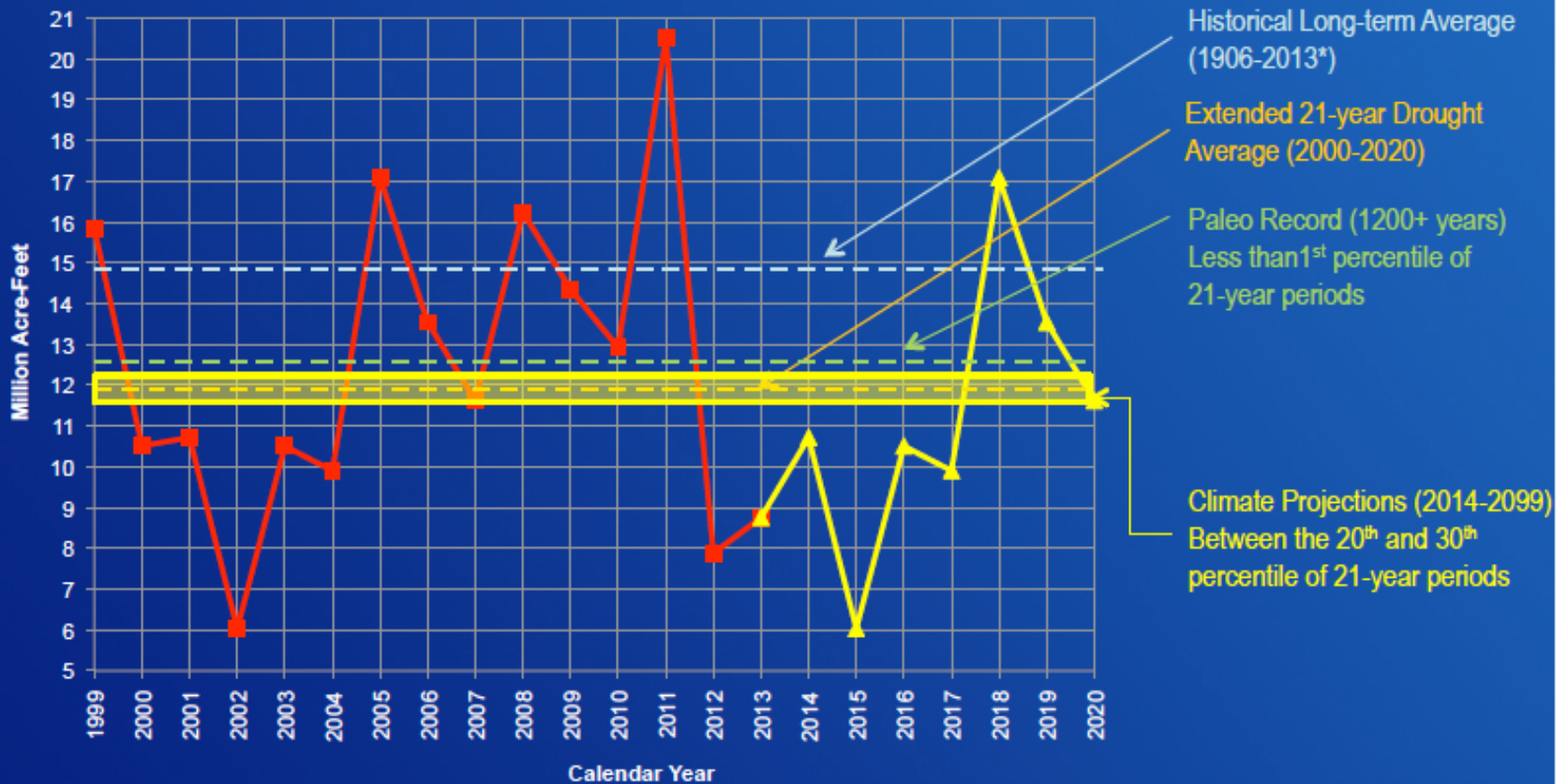
**2009 Yuma Desalting Plant Pilot**

# EXISTING LOWER BASIN PROGRAMS

**Calendar Year 2013  
Projected End of Year Balances**



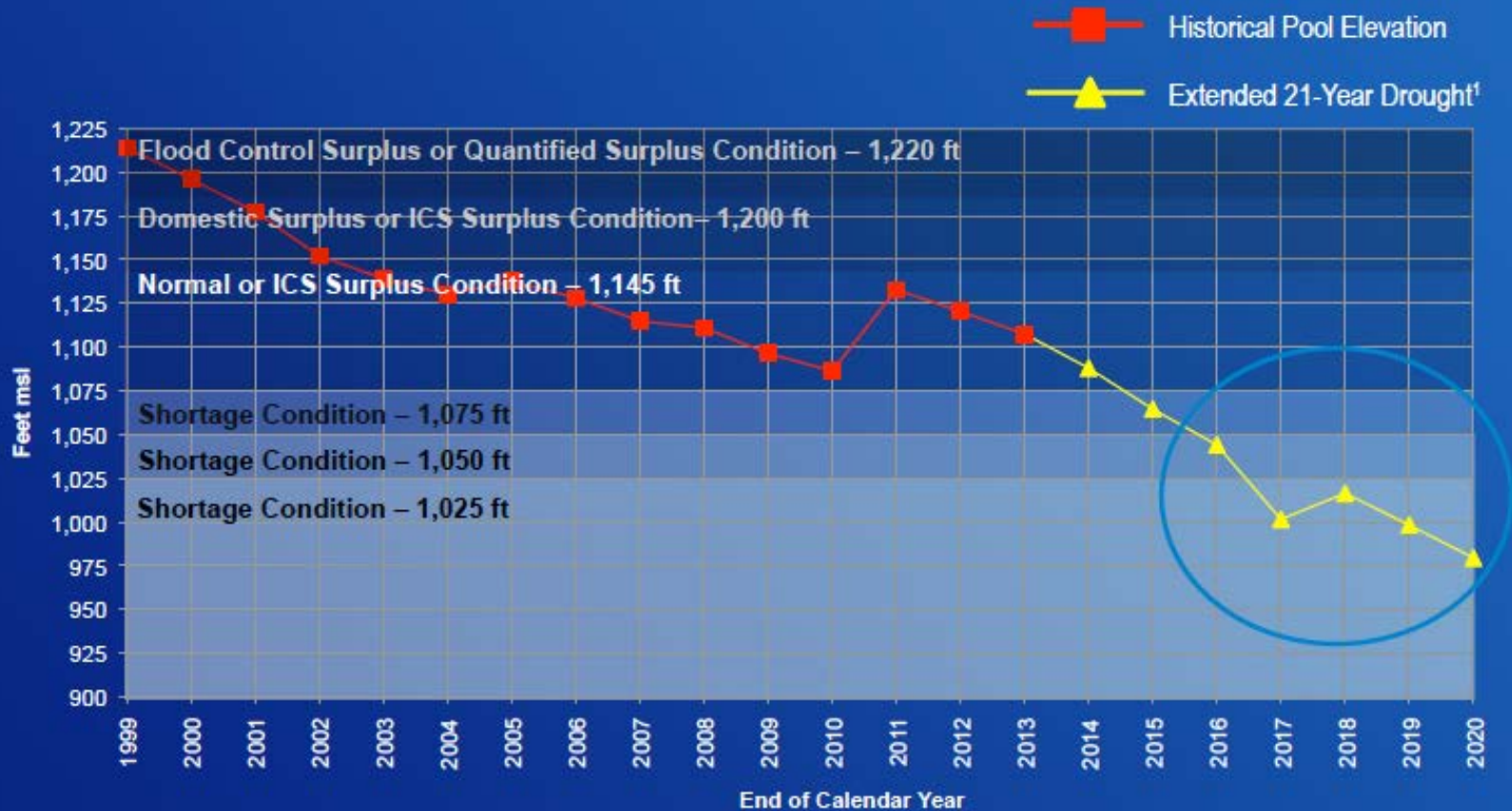
# Extended 21-year Drought (2000-2020) Natural Flow at Lees Ferry



\*2011-2013 natural flows are provisional

RECLAMATION

# Lake Mead End of Calendar Year Pool Elevation



<sup>1</sup>May 2013 CRSS trace 96: 2014-2020 uses 2001-2007 hydrology

# LOWER BASIN DROUGHT CONTINGENCY PLANNING



**Continue Existing Programs that are working**

- Encourage conservation and storage (ICS)

**Expand operational efficiencies**

- Canal lining/regulating reservoirs

**Expand opportunities with Mexico**

# U.S. Drought Monitor California

**April 1, 2014**

*(Released Thursday, Apr. 3, 2014)*

**Valid 8 a.m. EDT**

*Drought Conditions (Percent Area)*

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	0.00	100.00	99.81	95.21	68.76	23.49
<b>Last Week</b> <i>3/25/2014</i>	0.00	100.00	99.80	95.21	71.78	23.42
<b>3 Months Ago</b> <i>12/31/2013</i>	2.61	97.39	94.25	87.53	27.59	0.00
<b>Start of Calendar Year</b> <i>12/31/2013</i>	2.61	97.39	94.25	87.53	27.59	0.00
<b>Start of Water Year</b> <i>10/1/2013</i>	2.63	97.37	95.95	84.12	11.36	0.00
<b>One Year Ago</b> <i>4/2/2013</i>	0.00	100.00	48.38	24.22	0.00	0.00

*Intensity:*



*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

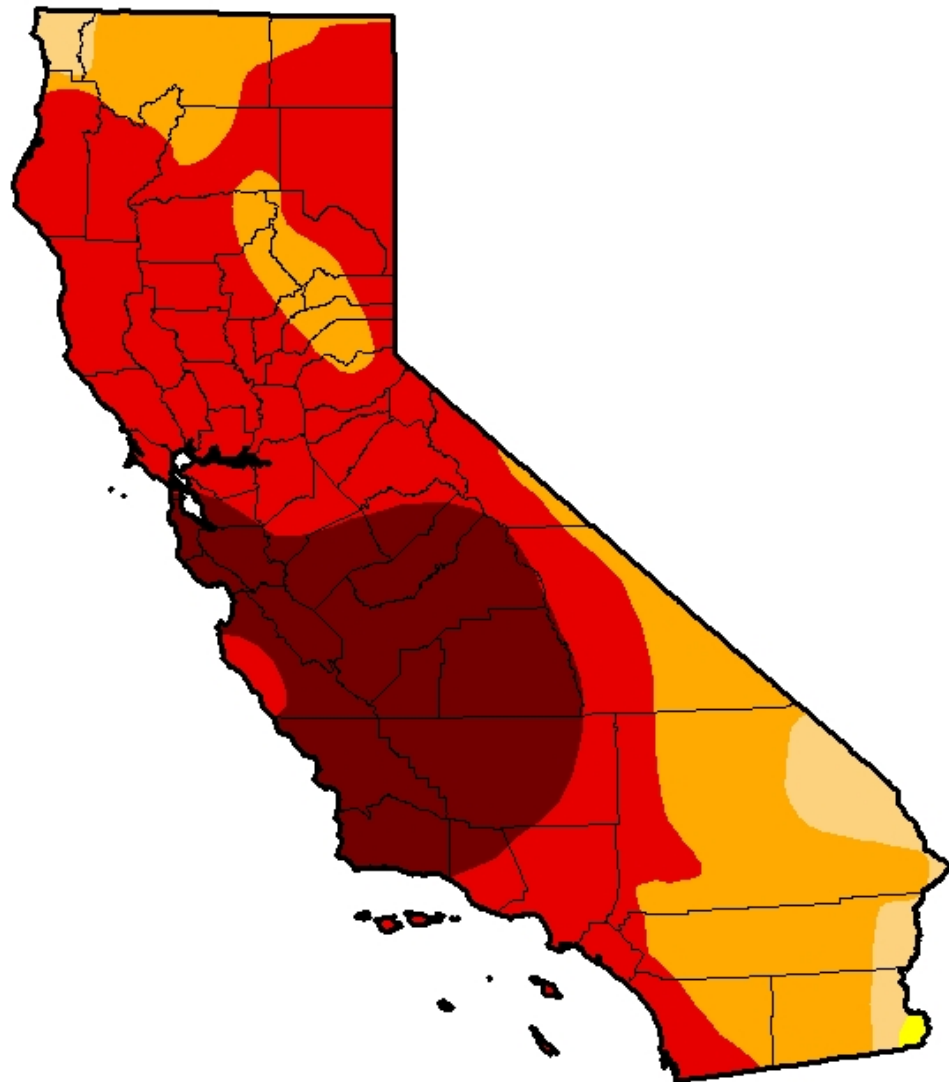
**Author:**

*David Simeral*

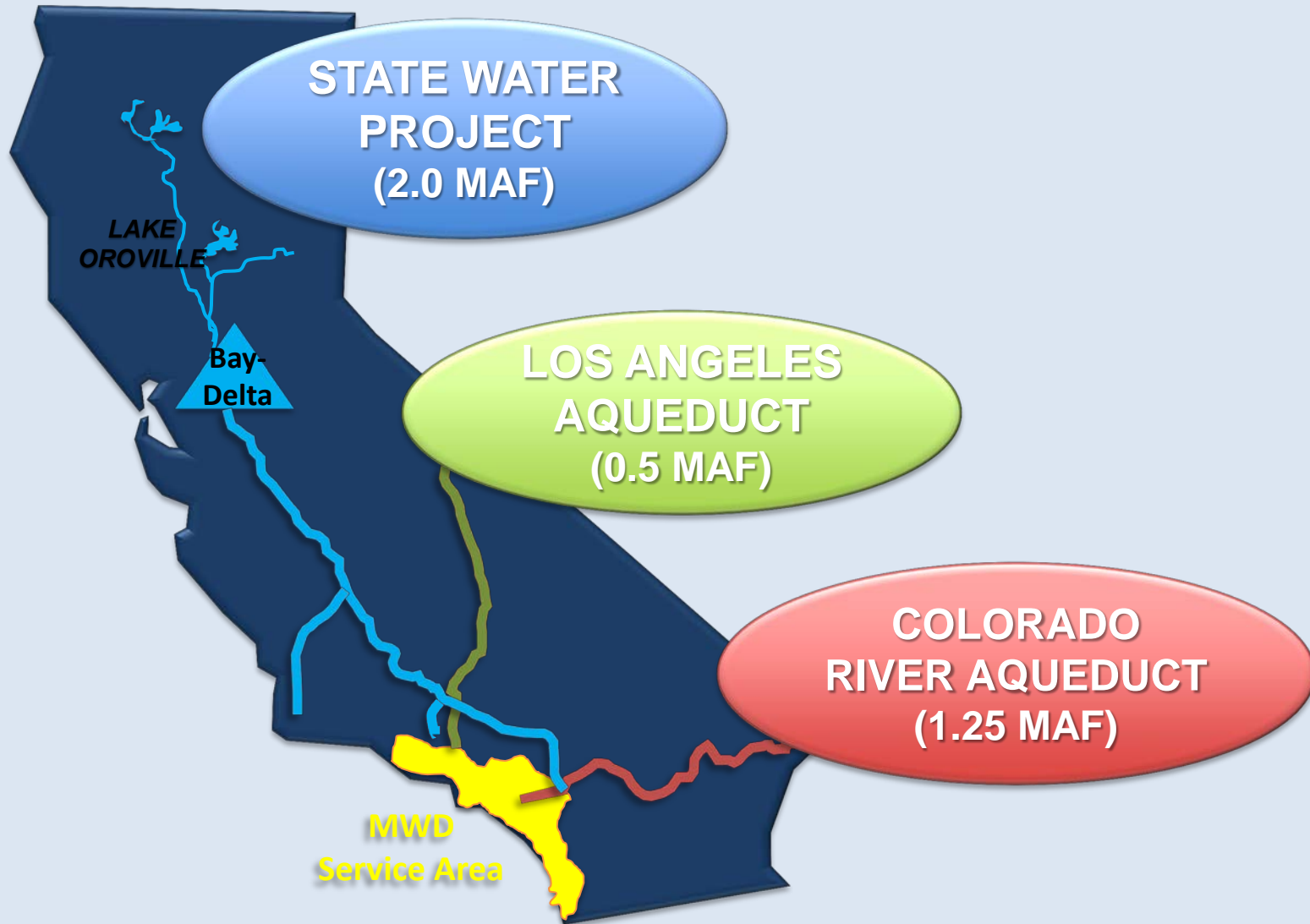
*Western Regional Climate Center*



<http://droughtmonitor.unl.edu/>



# Southern California's Imported Water Supply



# THANK YOU

**Tanya Trujillo**  
**Executive Director**  
**Colorado River Board of California**

