




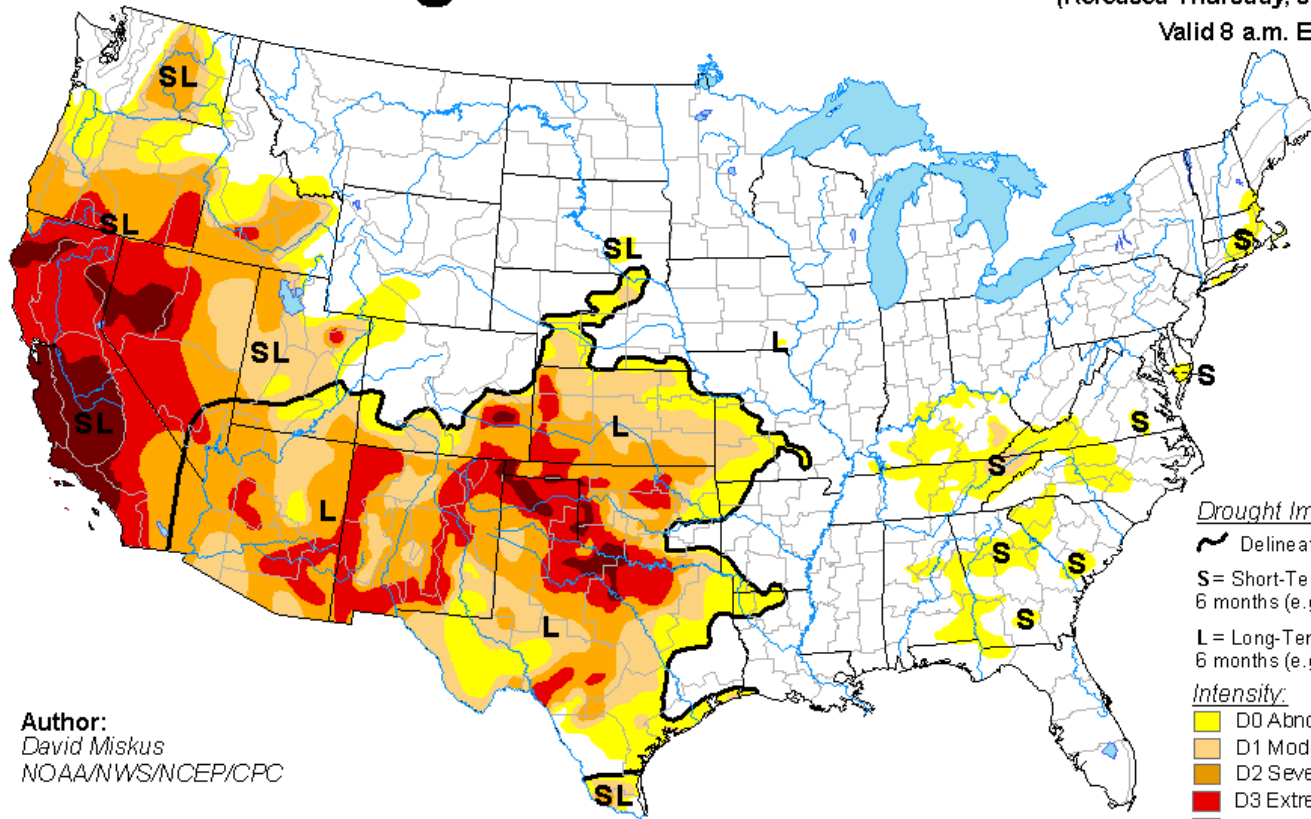
Survey of Current Water Supply Conditions



July 21, 2014
Board of Director's Meeting
Agenda Item 9

U.S. Drought Monitor

July 15, 2014
 (Released Thursday, Jul. 17, 2014)
 Valid 8 a.m. EDT



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 NOAA/NWS/NCEP/CPC

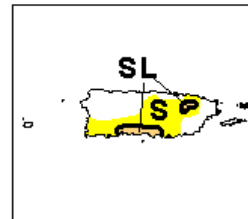
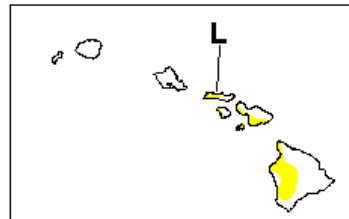
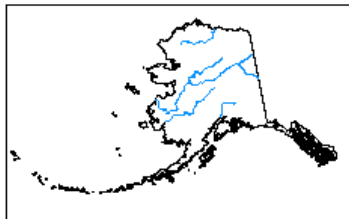
Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

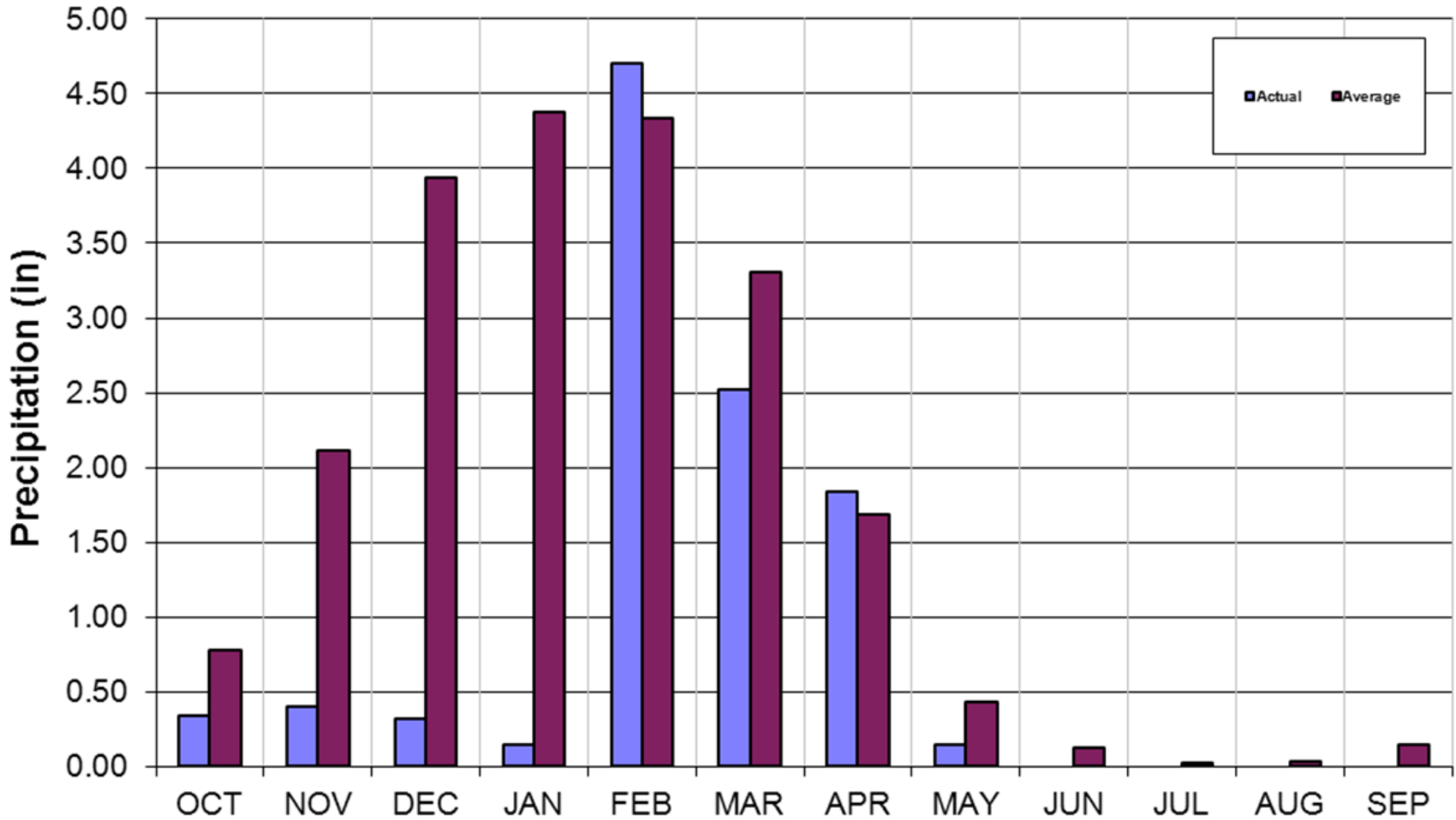
- Yellow: D0 Abnormally Dry
- Light Orange: D1 Moderate Drought
- Orange: D2 Severe Drought
- Red: D3 Extreme Drought
- Dark Red: D4 Exceptional Drought

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

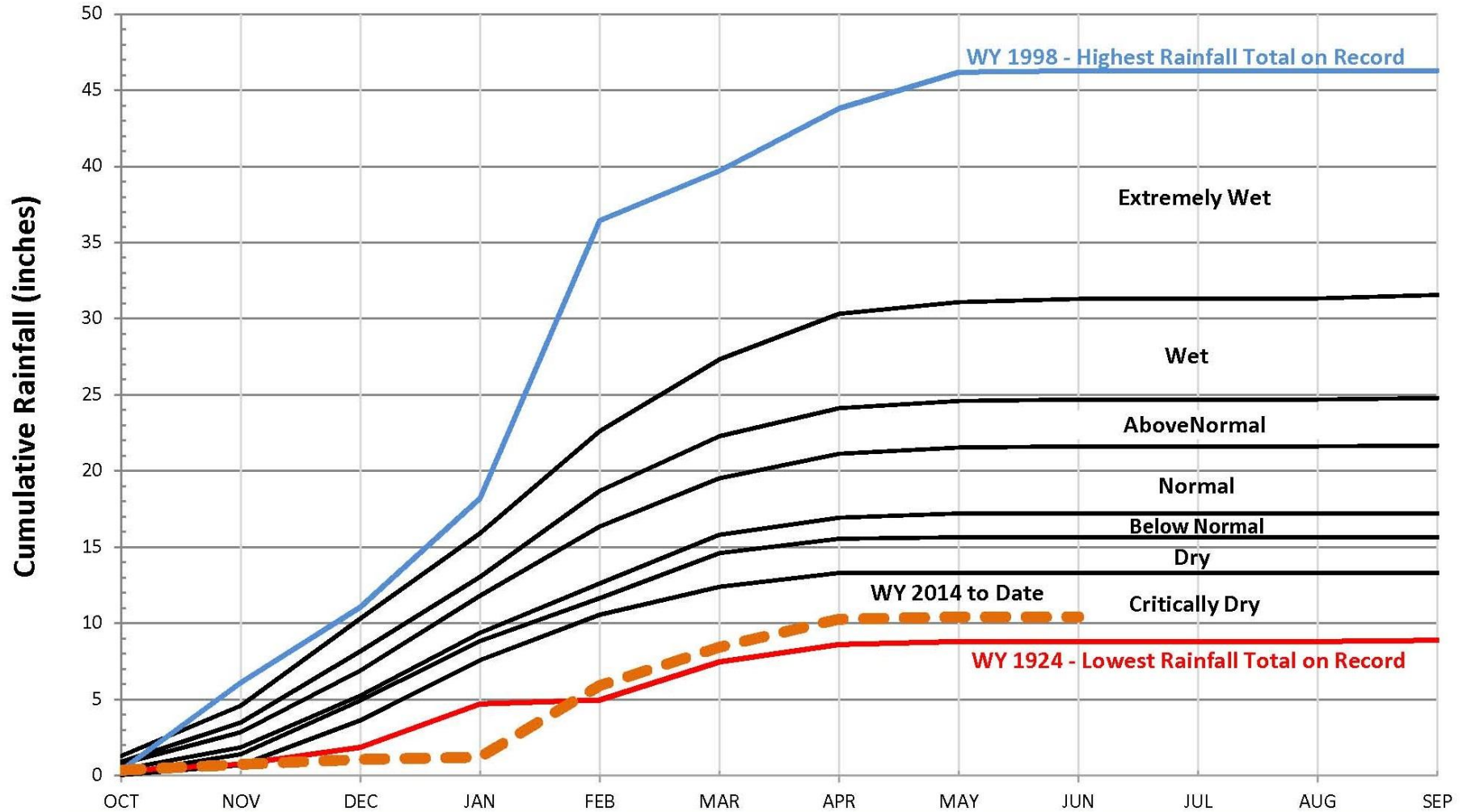


<http://droughtmonitor.unl.edu/>

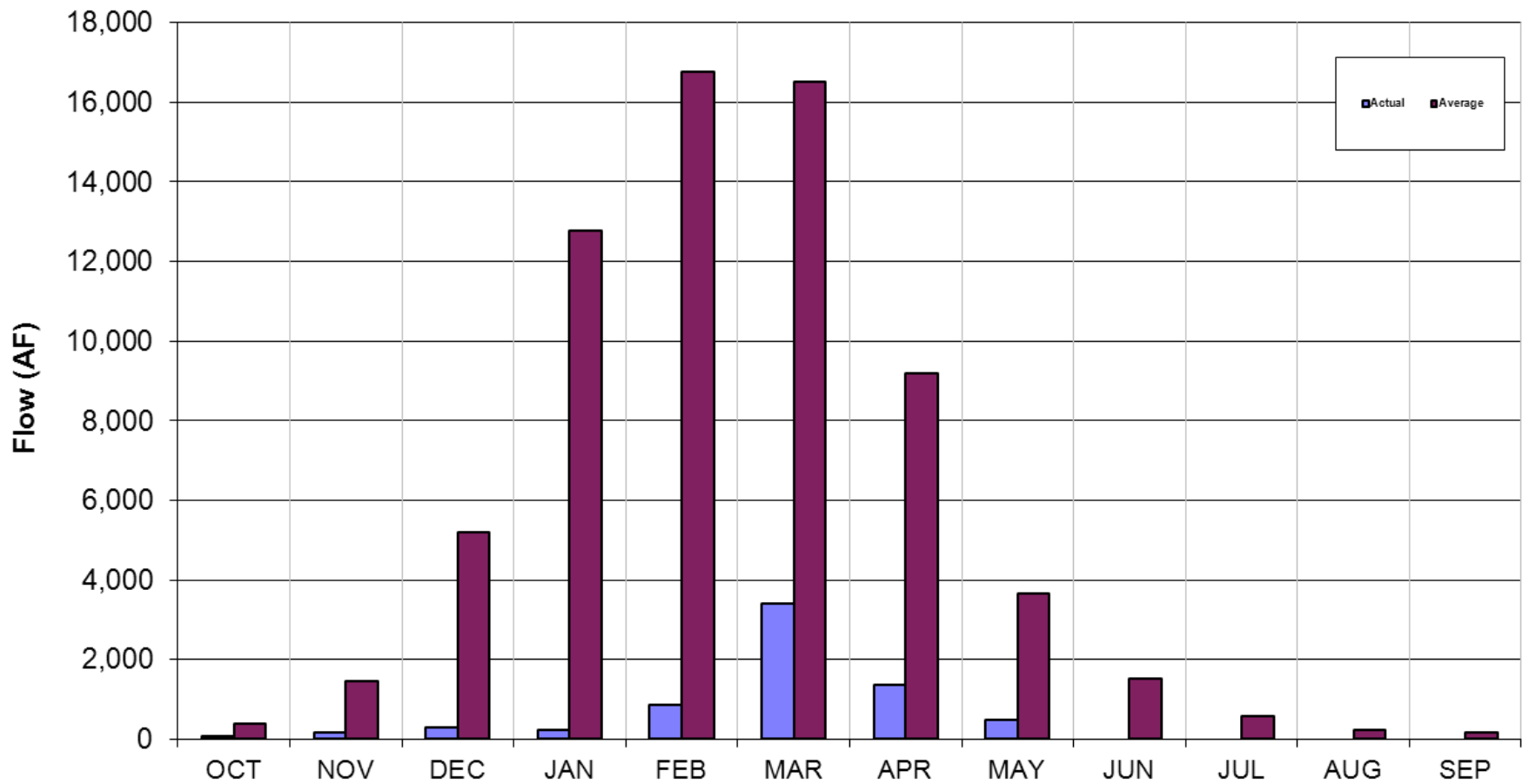
Recorded Rainfall at San Clemente Dam - 2014



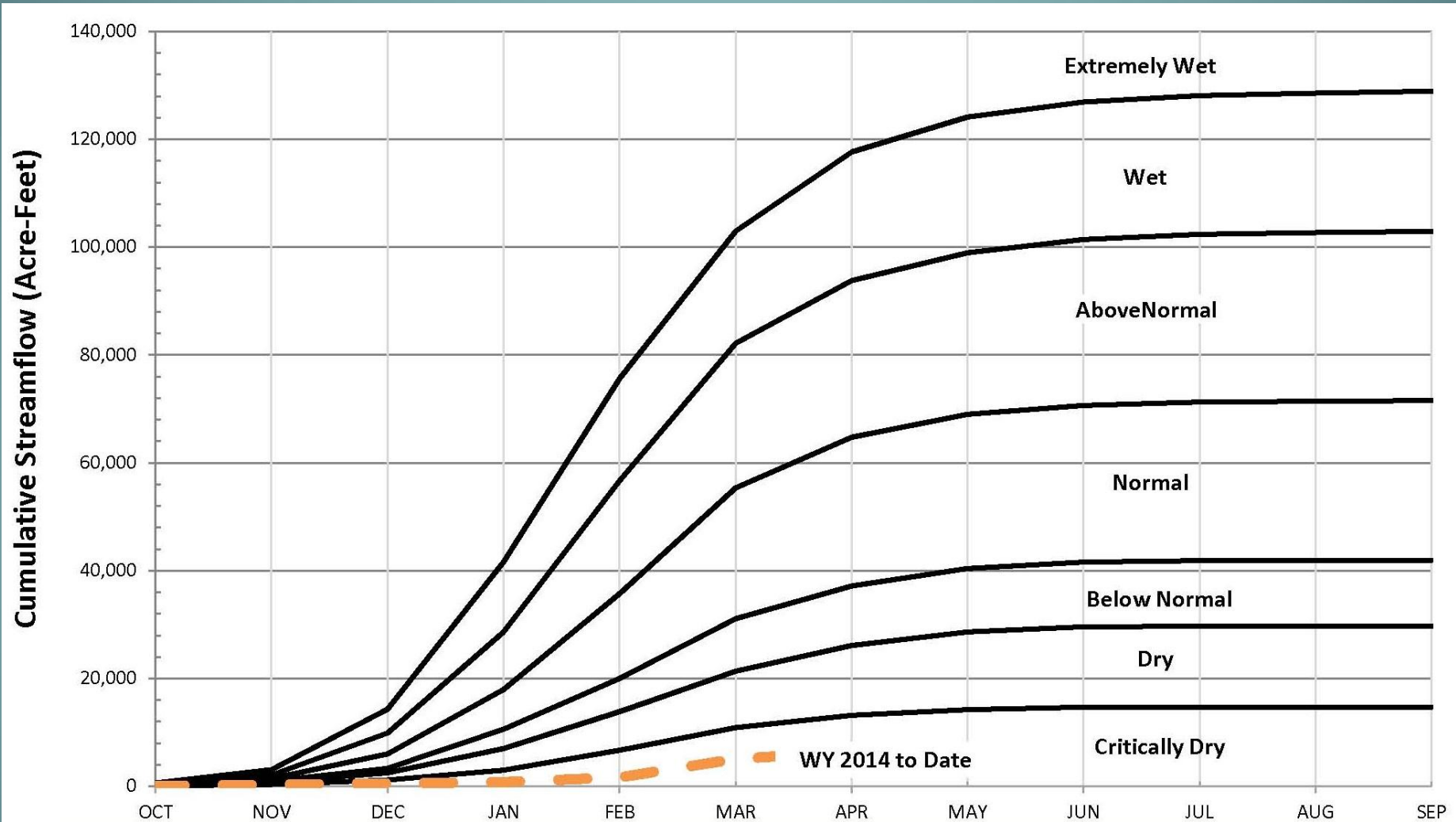
Water Year Types by Rainfall At San Clemente Dam Since 1922



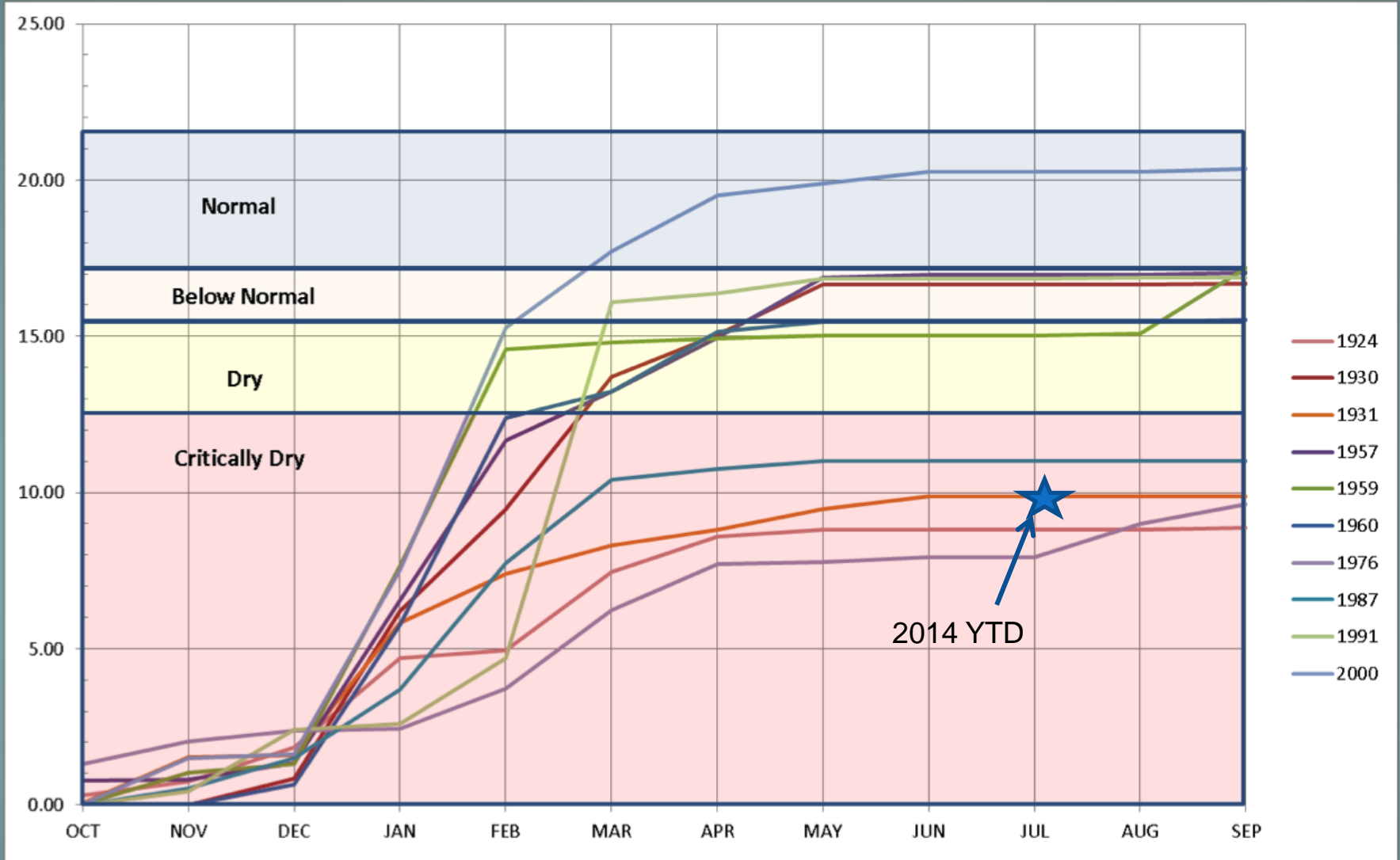
Unimpaired Streamflow at San Clemente Dam - 2014



Water Year Types by Unimpaired Streamflow At San Clemente Dam Since 1902

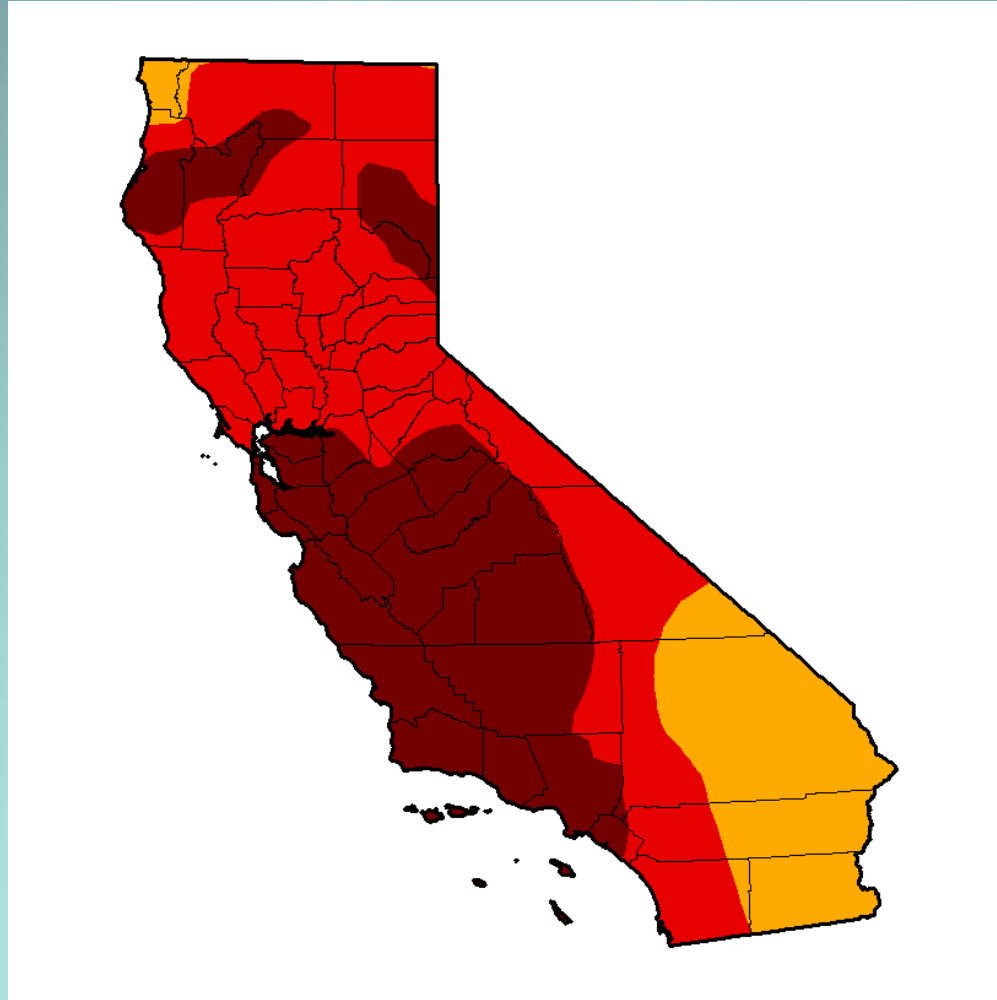


Comparison of Ten "Worst First Quarter" Water Years Based on Precipitation



Drought Monitor – California

July 15, 2014



Drought Response

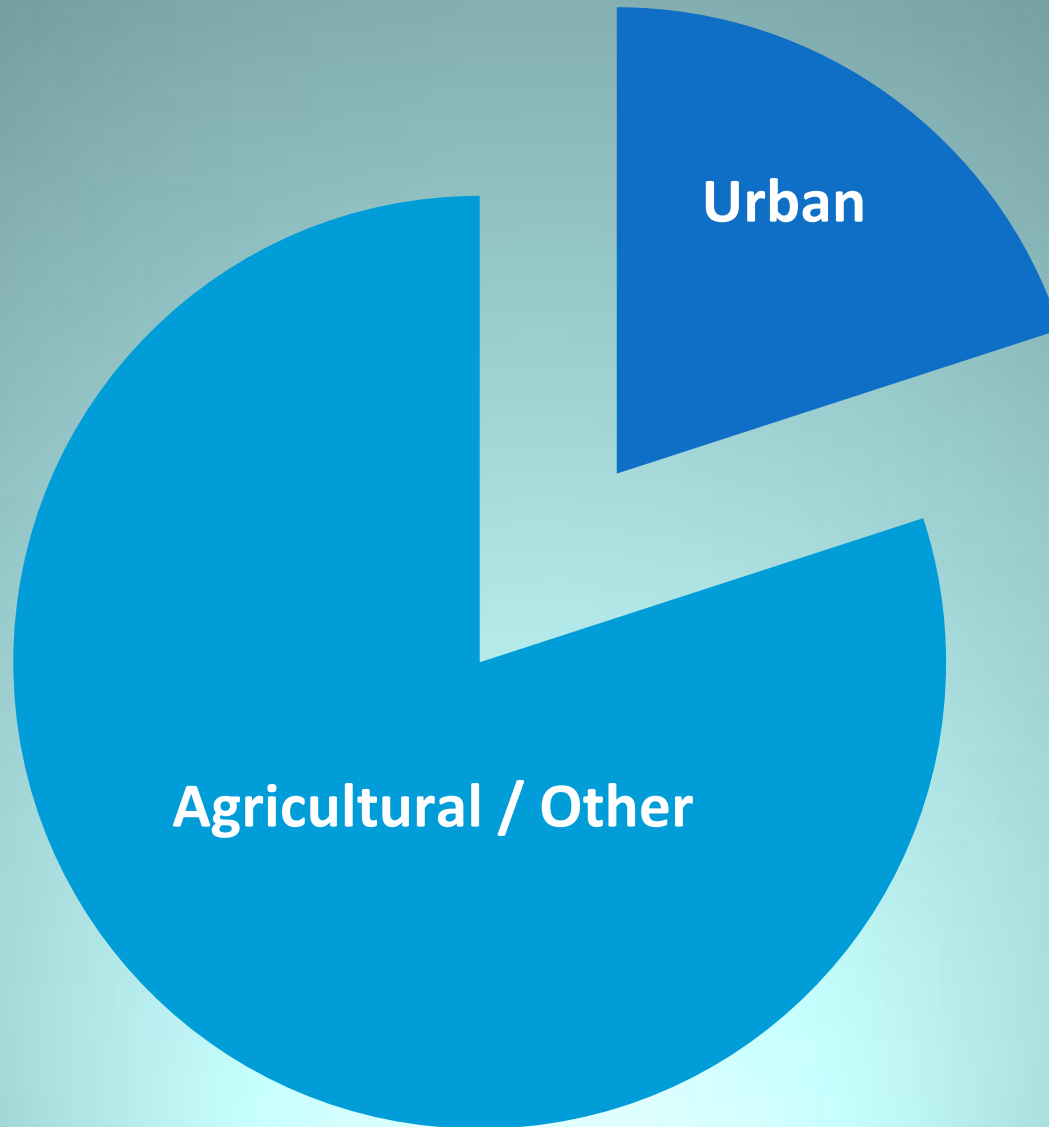
- Governor's Emergency Declaration January 17th
- CPUC Resolution W-4976 February 27th
- Senate Bill 104 March 1st
- MPWMD Emergency Ordinance 159 April 21st
- Governor's Task Force & April 25th Proclamation
- ACWA Drought Action Group
- Monterey County Interagency Task Force April 22nd
- State Water Board Emergency Rules July 15th

State Water Board Emergency Regulations

Effective August 1

New Rule	MPWMD
Urban water agencies must implement mandatory outdoor water use restrictions under their Water Shortage Contingency Plans.	Have done so. Been in Stage 1 since 1998.
Prohibits: <ul style="list-style-type: none"> • Potable water to driveways and sidewalks. • Watering of landscapes that runoff to adjacent property, non-irrigated areas, walkways, roadways, parking lots or structures. • Using a hose to wash a vehicle without a shut-off nozzle. • Using potable water in a water feature, unless recirculated. Requires 2-day a week watering, for cities without Contingency Plans	Consistent with MPWMD “Water Waste” prohibitions
Enforcement is handled at the local level; Penalties up to \$500 per infraction	We’re here to help...
Require urban water agencies to report monthly water production data	Cal-Am will do so

Water Use in California



Current MPWMD Rationing Plan: The Seven Stages

Stage	Trigger	Ramifications
1	We're always in it	Certain users are subject to landscape budgets; Everyone is subject to certain conservation rules.
2	When Cal-Am exceeds limits on a YTD basis	Enforcement of Landscape Budgets
3	Monthly monitoring of Cal-Am production versus limits; Varies as Water Year moves onward	After any month from December through September, could cause implementation of "Emergency Rate Schedule" based on a variety of triggers.
4	Same as #3, but adds Physical Storage and "Legally Ordered Reduction in Supply" triggers	Landscape irrigators get more notice; Water Wasters (High Users) get enforced; Public outreach; Voluntary 15%
5	Enhanced Monthly, Physical, & Legally-Ordered Triggers	Starts Rationing 16%-35%; Proportional reduction based on use by class in prior year; Commercial ration based on factors; Residential capped at 35 gallons per person per day; <i>Alternate Water ration (variance) may be determined based on BMP compliance for the type of use</i>
6	More	36%-50% BMP variances granted under Stage 5 may be affected
7	More	Severe Rationing (>50%)

Actual vs Target Production for Cal-Am: Oct 2013 – July 1, 2014 (All Values in Acre-Feet)

Year-to-Date Values	Carmel River Basin	Seaside Groundwater Basin		Water Projects		MPWRS Total
		Coastal	Laguna Seca	ASR Projects	Sand City	
Target	5,993	2,581	96	0	225	8,895
Actual	5,592	2,059	257	0	145	8,054
Difference	401	523	-162	0	80	841

Notes:

1. “Sand City” refers to the Sand City Desalination Facility, which pumps brackish water from the Seaside Groundwater Basin as source water. The Sand City values refer to yield from the facility.
2. “ASR Projects” refers to the Phase 1 and 2 Aquifer Storage and Recovery (ASR) Project and the values refer to the amount of stored water recovered for customer service.
3. “MPWRS” refers to Monterey Peninsula Water Resource System.
4. Carmel River Basin Target reflects assumed annual production of 300 AF from Sand City.
5. Production numbers are estimated pending finalization of CAW production data.
6. Carmel River Basin target represents quarterly adjustments based on differences between budgeted values and actual production from other sources.

Usable Storage versus Stage 4/5/6/7 Triggers Current Water Year 2014

Total Usable Storage May 1 = 29,070 AF

TOTAL STORAGE REQUIRED ON MAY 1				
Water Rationing Stage				
	4	5	6	7
	15%	20%	35%	50%
Total	24,110	19,065	13,866	8,820

Rationing Trigger Was Not Tripped.....