



Oral Report on Water Surplus and Drought Management

Water Planning and Stewardship Committee
Item 7b
April 11, 2016

Overview

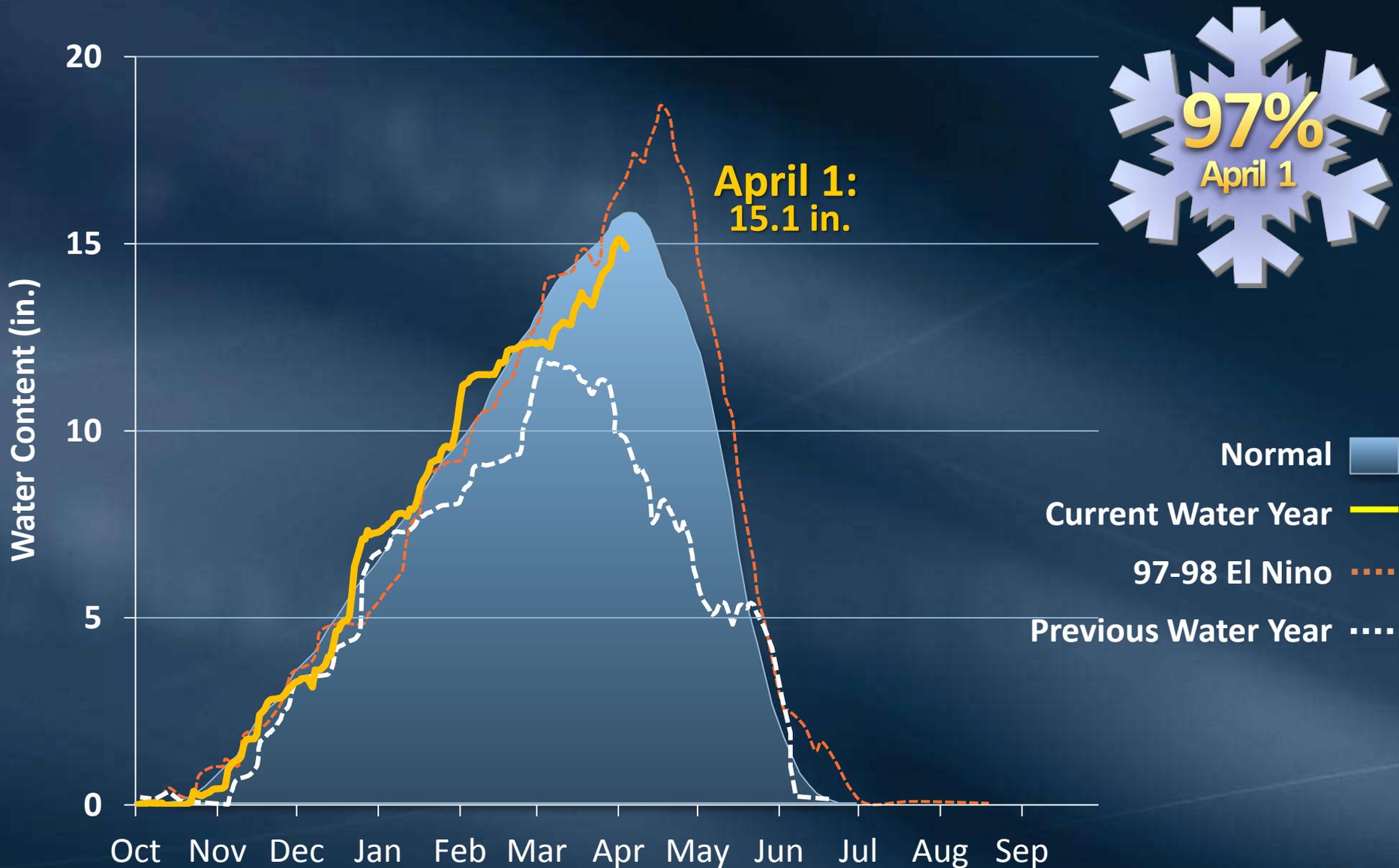
- Hydrologic Conditions
- Supply and Demands
- Uncertainties and WSAP Considerations

WSAP Recommendation Deferred to May

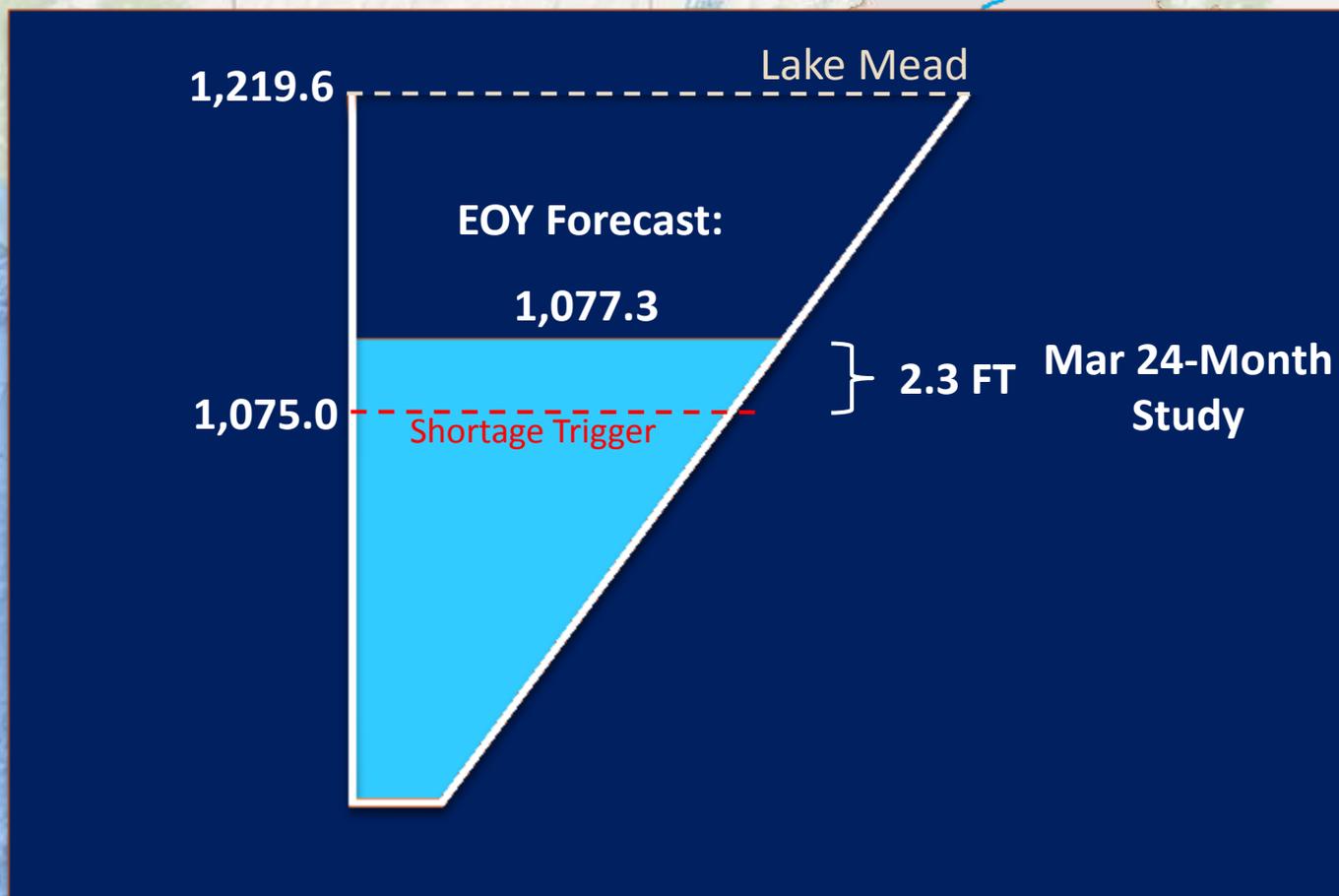
- March precipitation eases drought conditions in portions of state
- More clarity regarding supplies and demands anticipated in May
- A longer lead time not as critical when adjusting or lifting an existing WSAP

Hydrologic Conditions

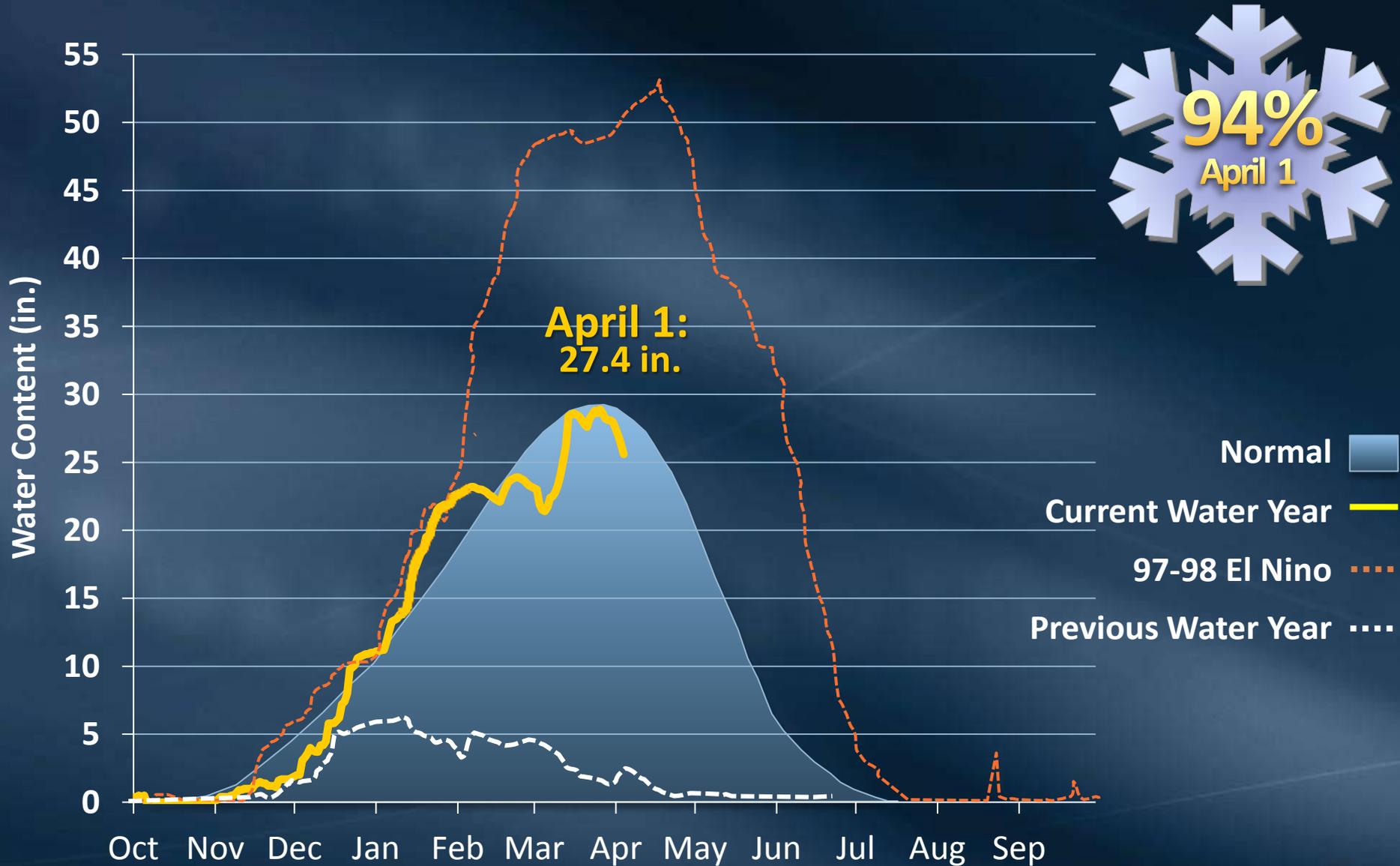
Upper Colorado River Basin Snowpack



Lake Mead Storage Continues to Decline



Northern Sierra Snowpack



Northern Sierra April Snow Survey



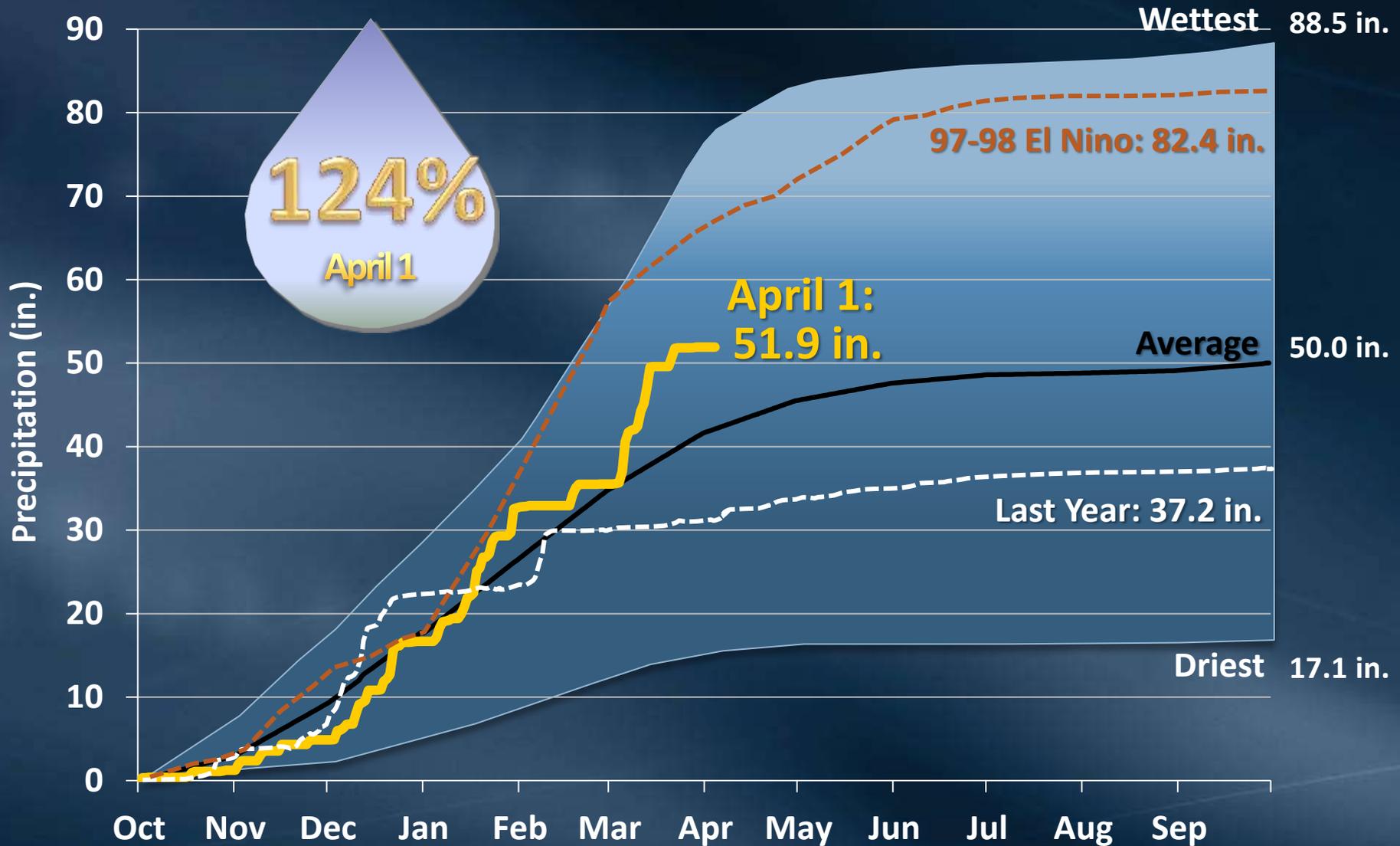
2015: 5%



2016: 94%

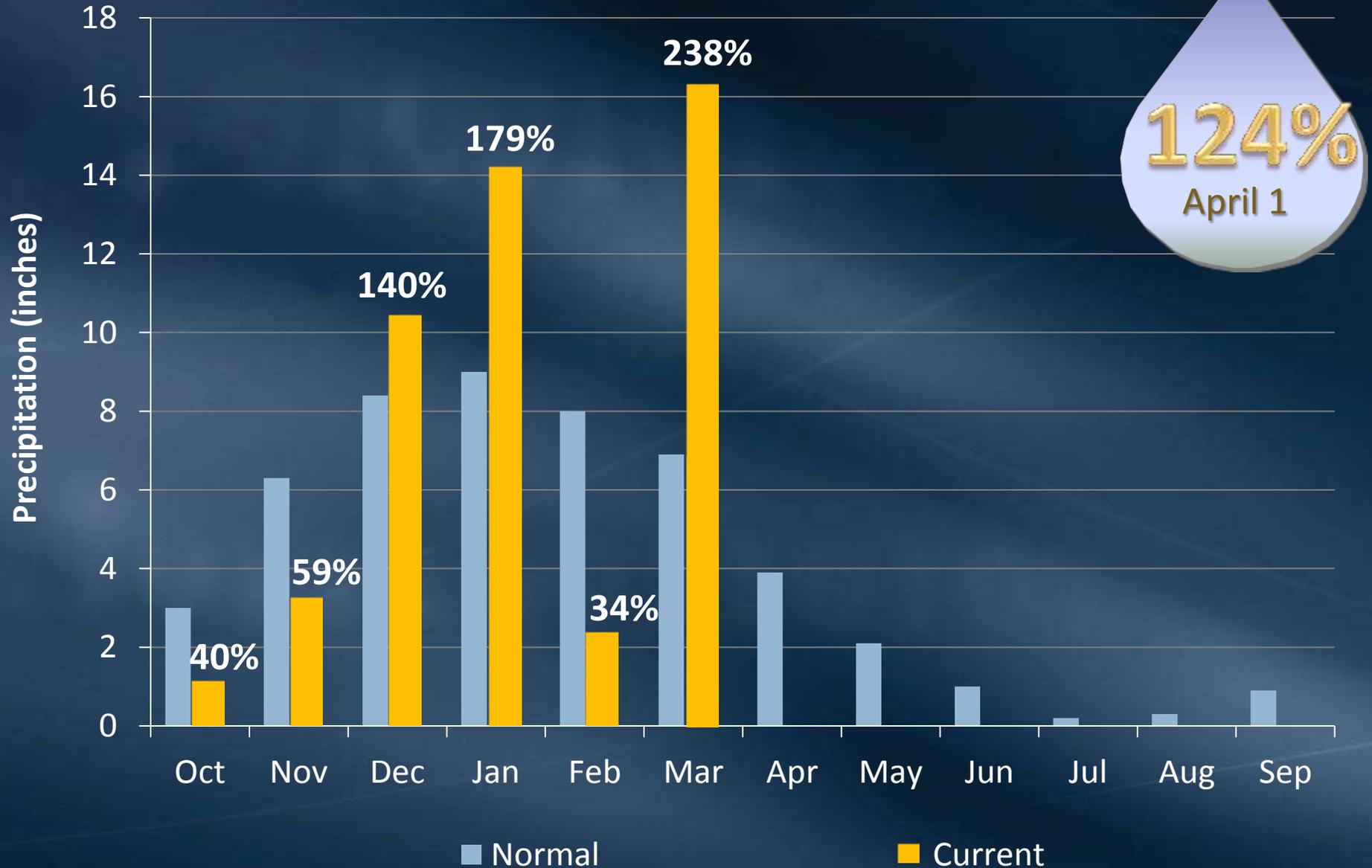
Northern Sierra Precipitation – Cumulative

8 - Station



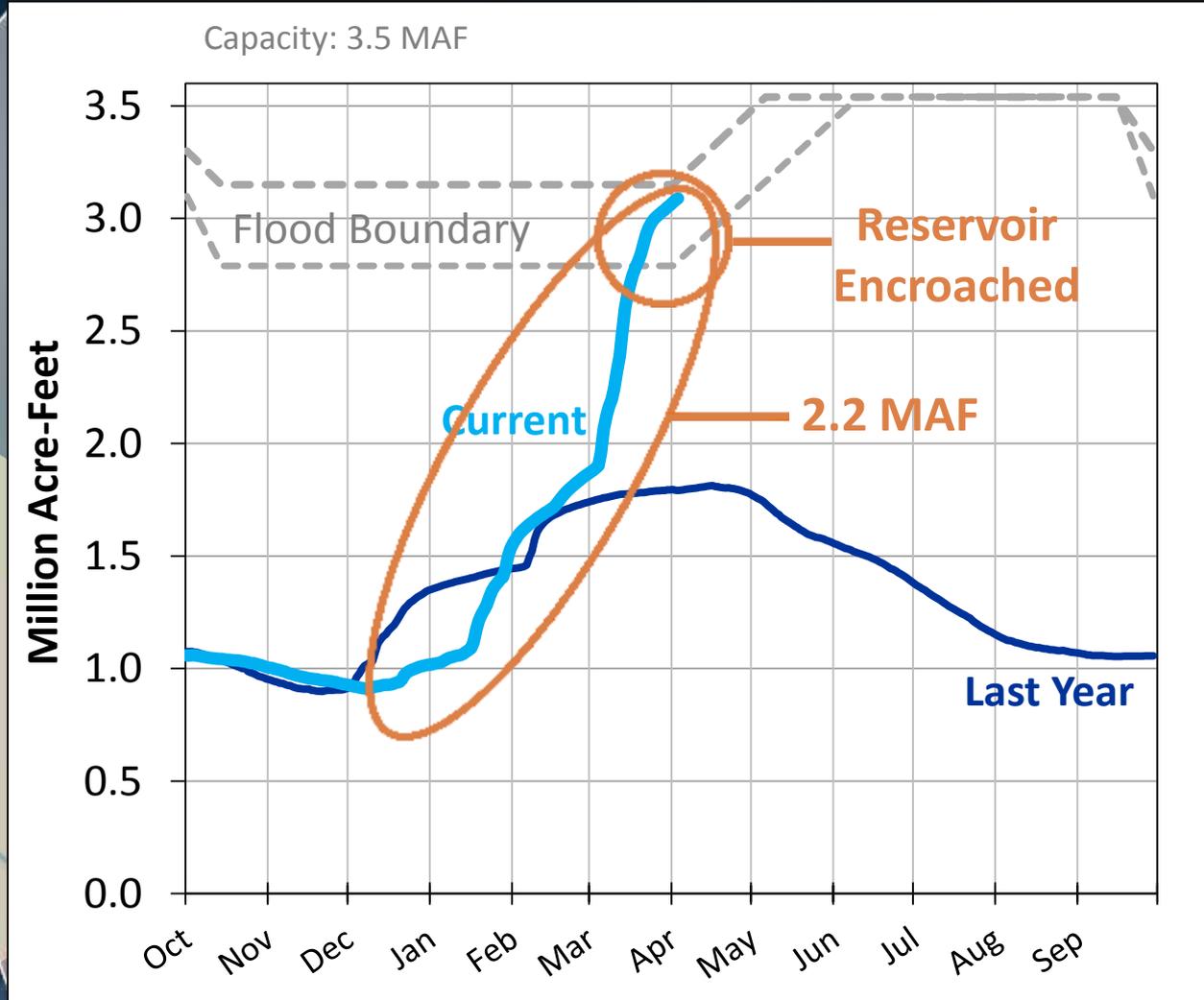
Northern Sierra Precipitation – Monthly

8 - Station



Flood Control Releases at Key Northern California Reservoirs

Oroville Triples its Storage



Lake Oroville – March 2016



Lake Oroville Spillway – March 2016



Folsom Lake Storage Gains this Water Year



November 2015



February 2016

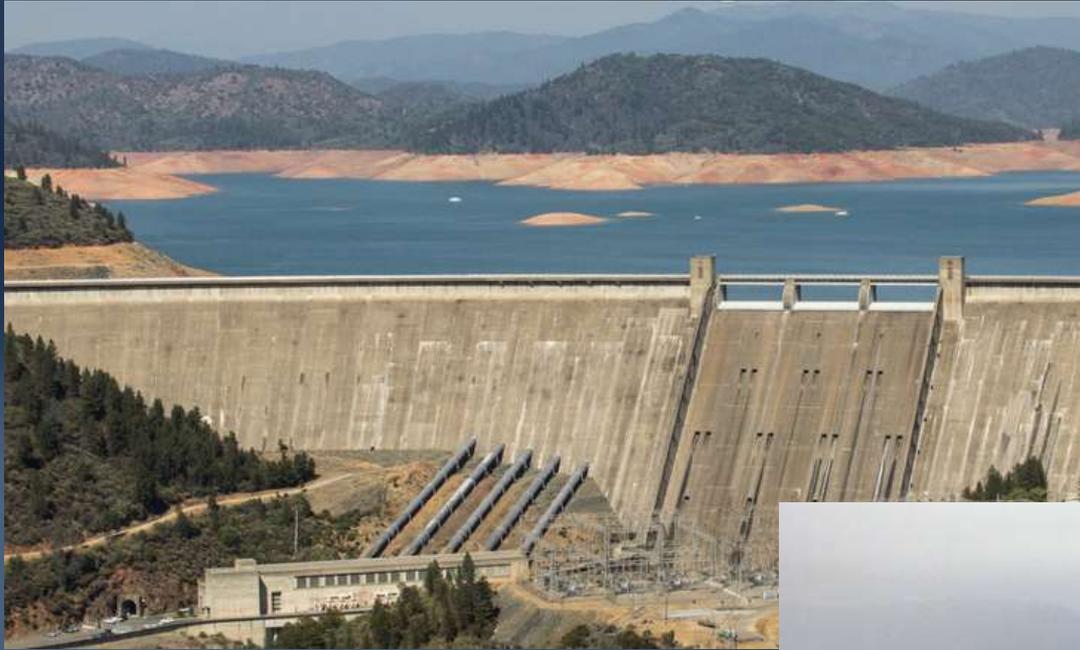


March 2016

Folsom Lake Spillway – March 2016



Shasta Dam Gains Storage this Year



Fremont Weir Overtopped in March 2016

Yolo Bypass

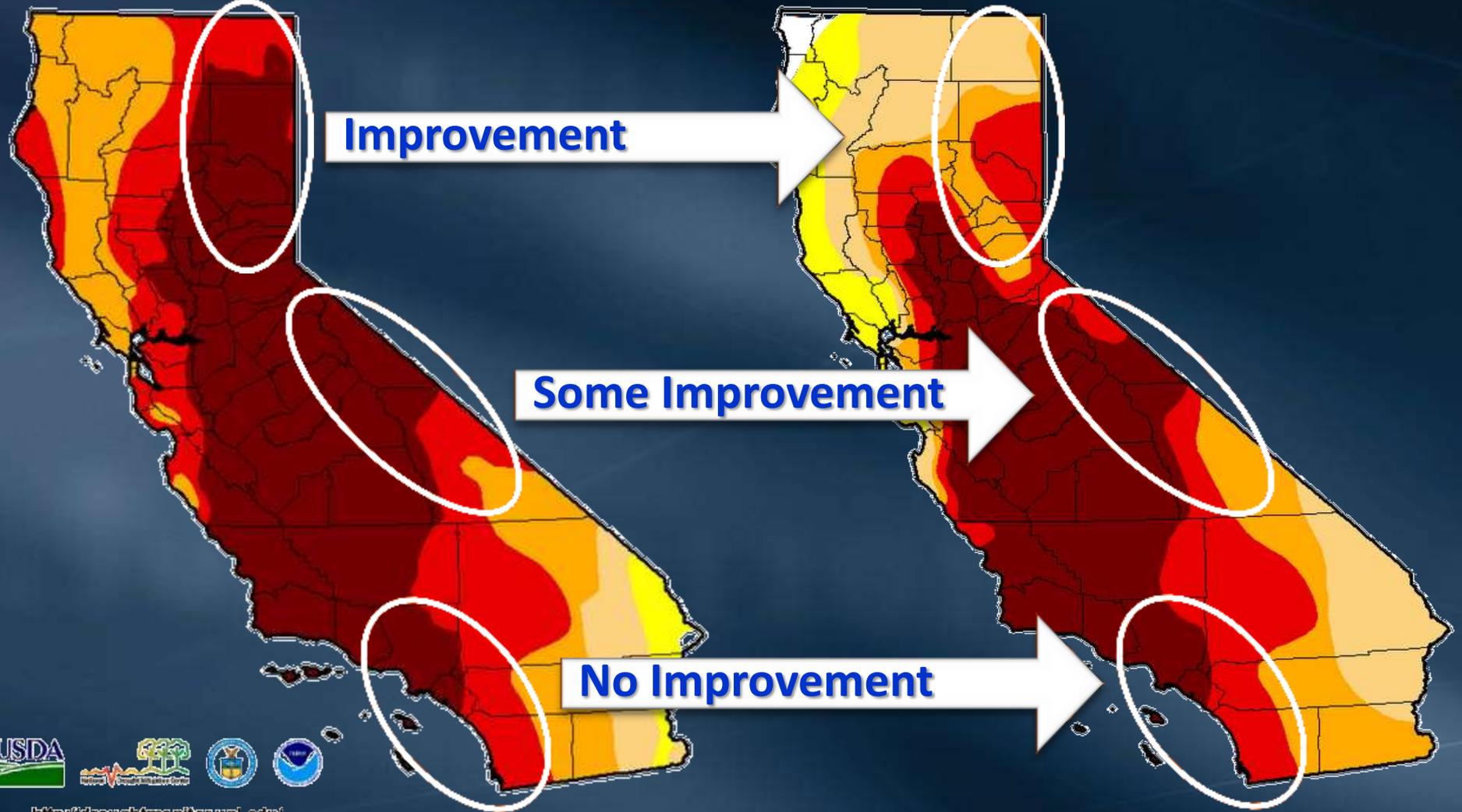


Where Do We Stand?

North Fairing Better than South

OCTOBER 2015

CURRENT



Improvement

Some Improvement

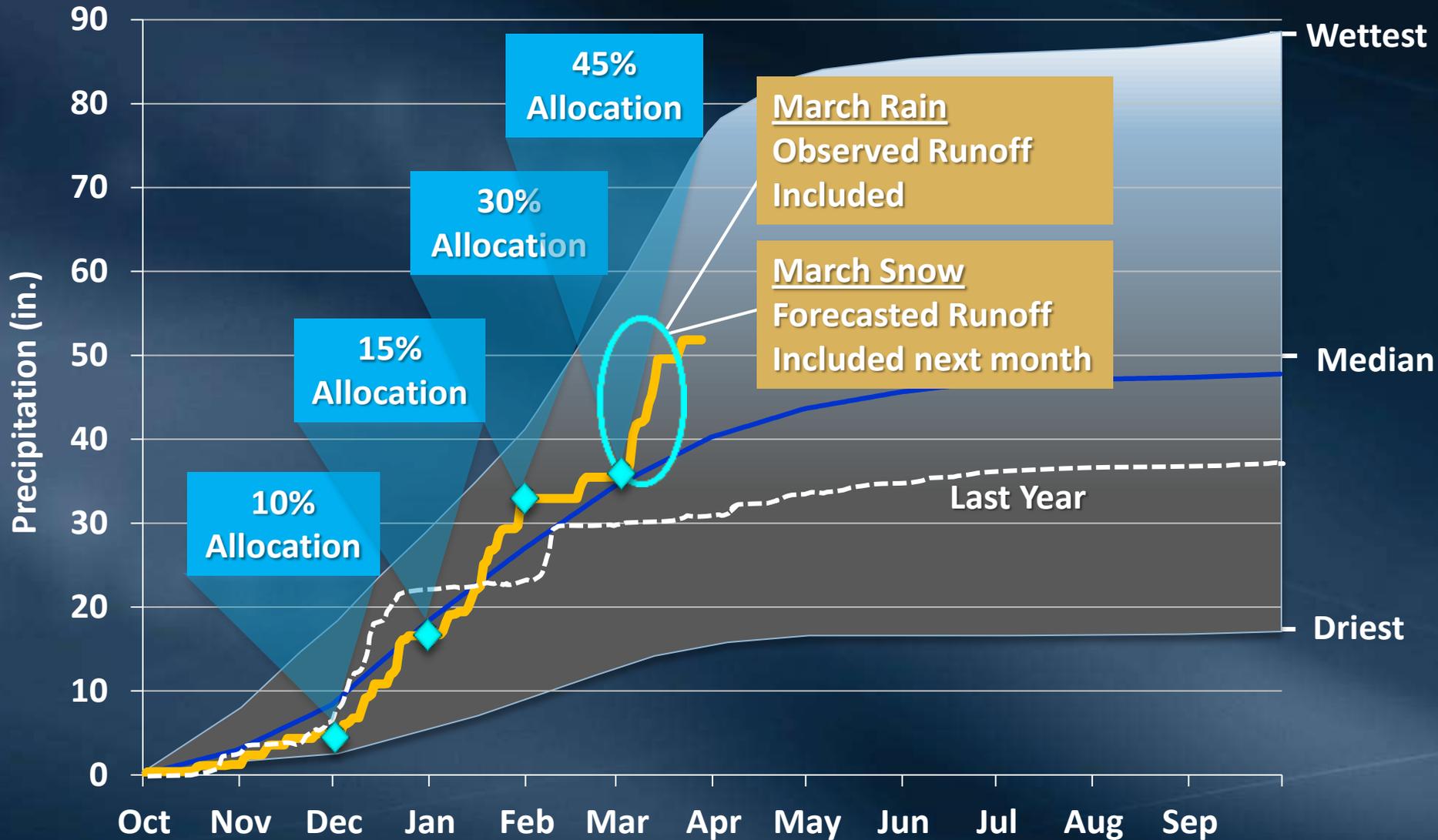
No Improvement



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

ABNORMAL	MODERATE	SEVERE	EXTREME	EXCEPTIONAL
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SWP Allocation Continues to Increase



Historical 12 Month Delivery vs. Estimated WSAP Level 3

All Member Agencies

Current Period
Apr-15 to Mar-16



End of 12-Month Period

Call For Water Use Efficiency Framework

BASELINE

Water Use Efficiency

Ongoing conservation, recycling, and outreach to **build** storage

CONDITION 1

Water Supply Watch

Local agency voluntary dry-year conservation measures and **use** of regional storage reserves

CONDITION 2

Water Supply Alert

Regional call for conservation through drought ordinances and other measures to **mitigate use** of storage

CONDITION 3

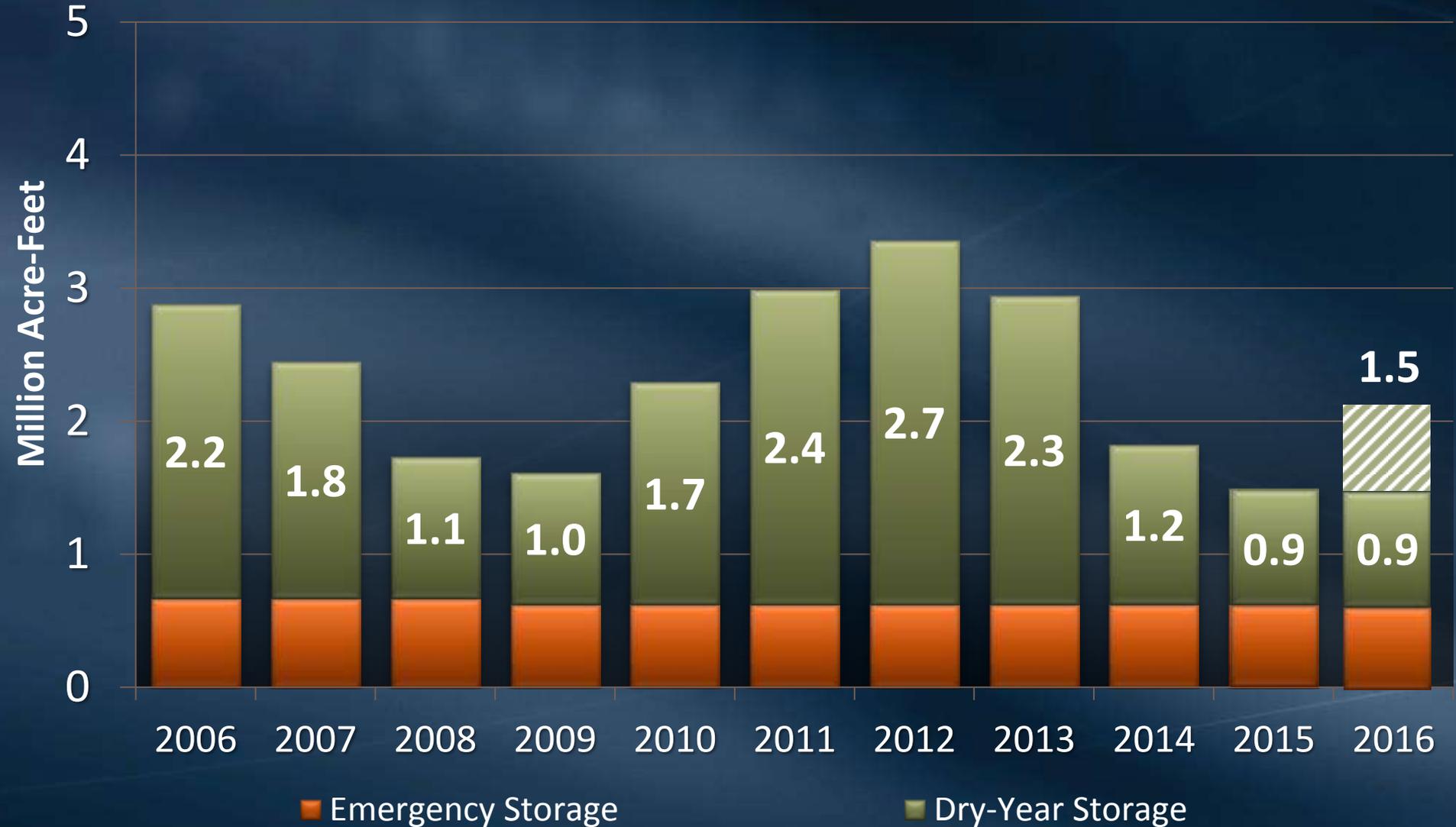
Water Supply Allocation

Implement Water Supply Allocation Plan:

Level: 1 2 **3** 4 5 6 7 8 9...

Metropolitan Storage Reserves

End of Year Balances



Uncertainties

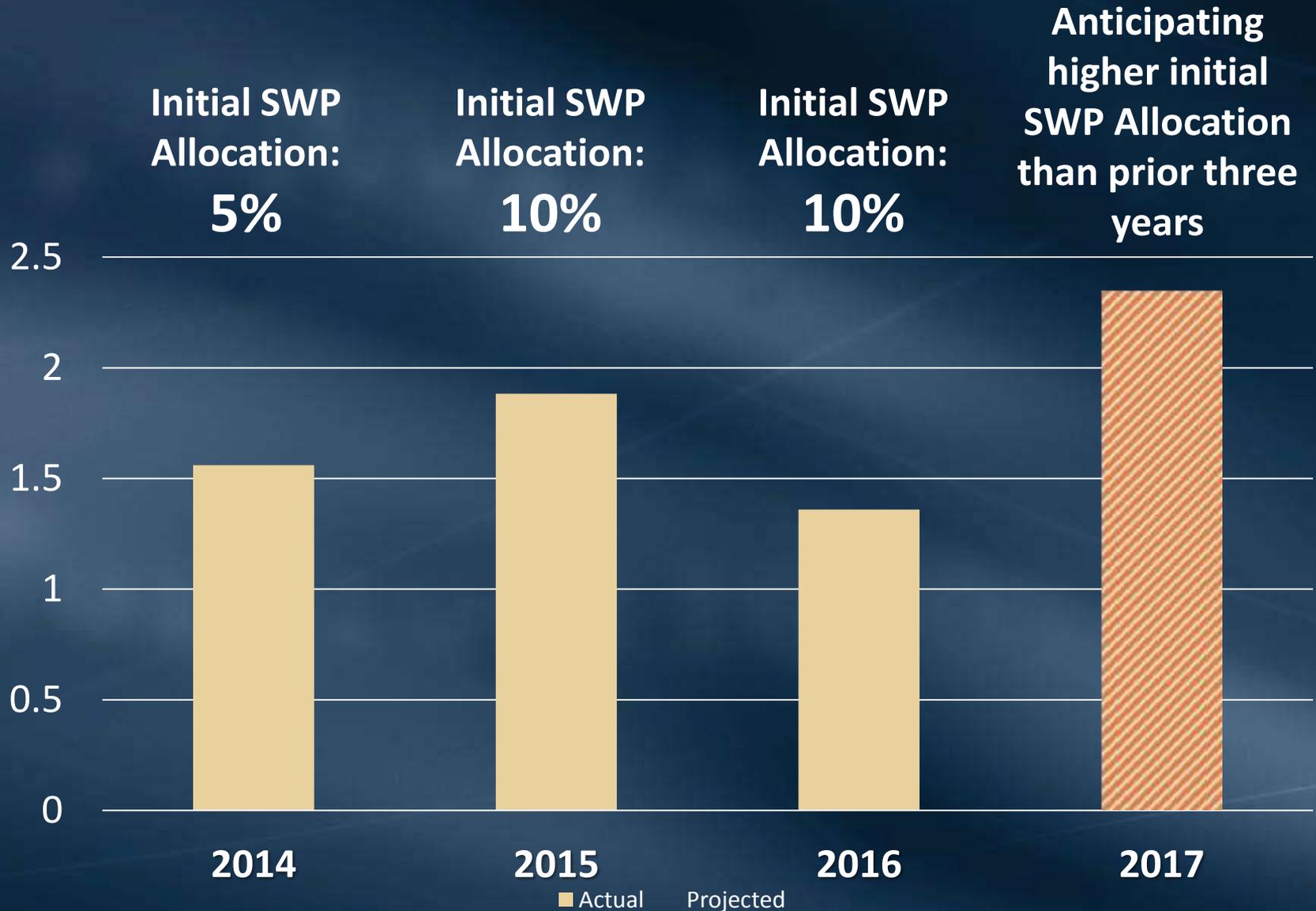
- SWP Allocation
- Demands
- Transfers and Exchanges
- Access to Lake Mead Supplies
- Agriculture Adjustment

Other Considerations

- Balanced Public Message
 - Key reservoirs in northern California are encroached
 - SWRCB may act to relax regulations
- Avoid turning WSAP on and off
 - 2016 dry-year storage balance
 - 2017 SWP allocation

SWP Reservoir Starting Conditions

Oroville and San Luis Combined



Next Steps

- Continue to monitor developing hydrologic conditions
- Continue to evaluate uncertainties and narrow range of supply/demand balances
- Provide WSAP recommendation in May

