BASE LOADING ON THE STATE WATER PROJECT

SOUTHERN CALIFORNIA WATER DIALOGUE

MARCH 22, 2017

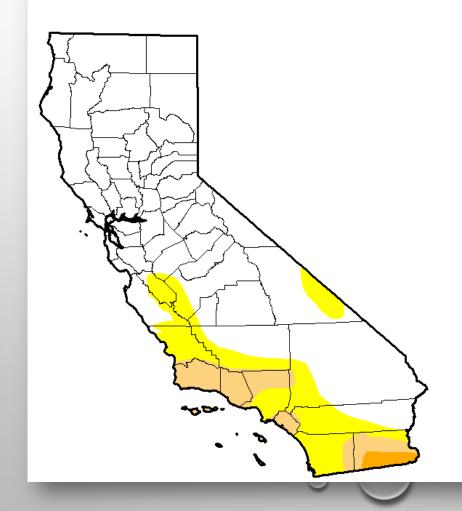
BOB TINCHER, M.S., P.E.

MANAGER OF WATER RESOURCES

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT

IS THE DROUGHT OVER?





March 14, 2017

(Released Thursday, Mar. 16, 2017)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	76.54	23.46	8.24	1.06	0.00	0.00
Last Week 3/7/2017	76.54	23.46	8.24	1.10	0.00	0.00
3 Month's Ago 12/13/2016	12.16	87.84	73.04	60.27	42.80	21.04
Start of Calendar Year 1/3/2017	18.07	81.93	67.61	54.02	38.17	18.31
Start of Water Year 9/27/2016	0.00	100.00	83.59	62.27	42.80	21.04
One Year Ago 3/15/2016	0.43	99.57	93.28	73.64	55.31	34.74

Intensity:

D0 Abnormally Dry
D3 Extreme Drought
D1 Moderate Drought
D4 Exceptional Drought

D2 Severe Drought

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

Author:

Brian Fuchs

National Drought Mitigation Center











Through Tuesday Night

- Lives threatened
- Rivers overflow
- Property damageMud and rock slides
- Melting snow

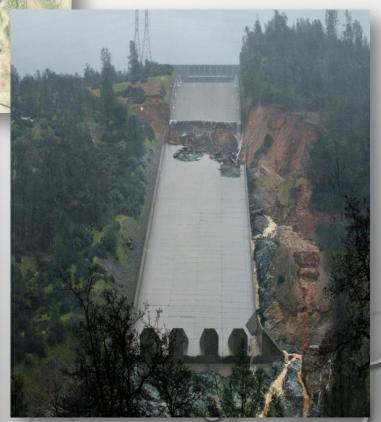
RIVER OF MOISTURE



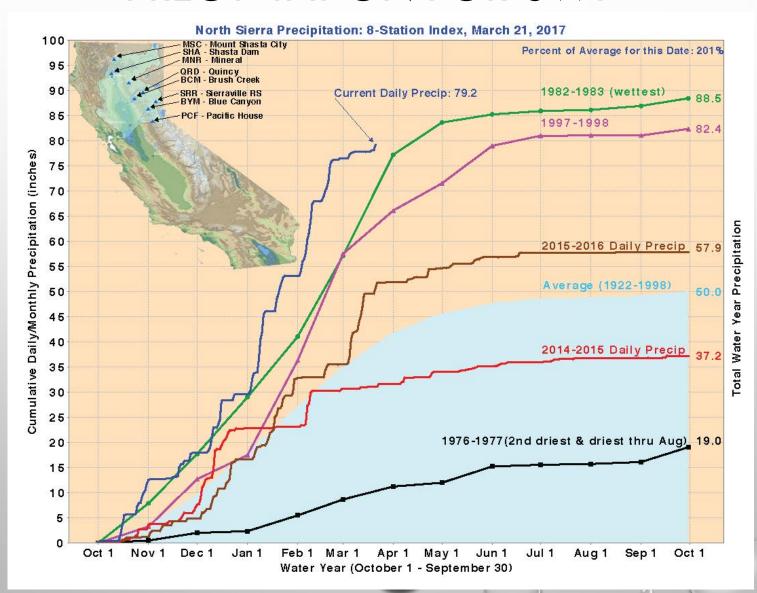
FLOODING



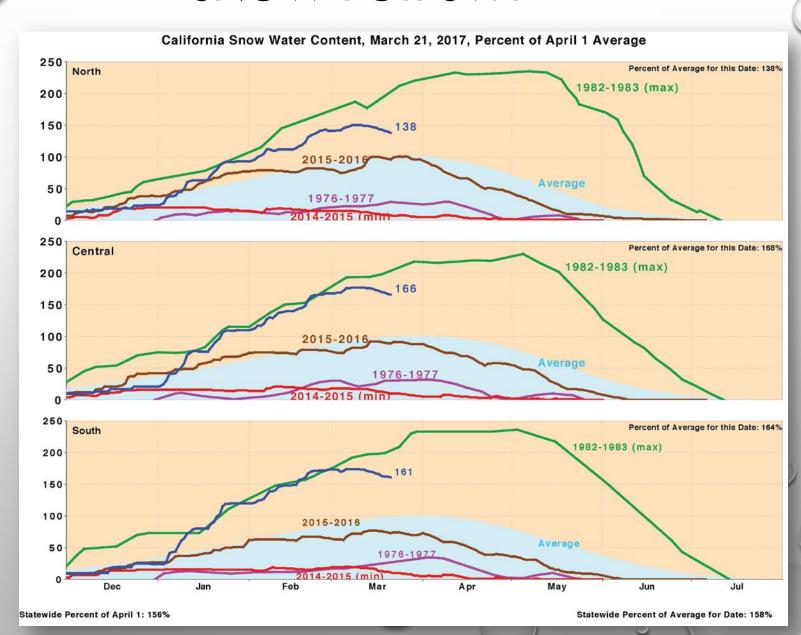


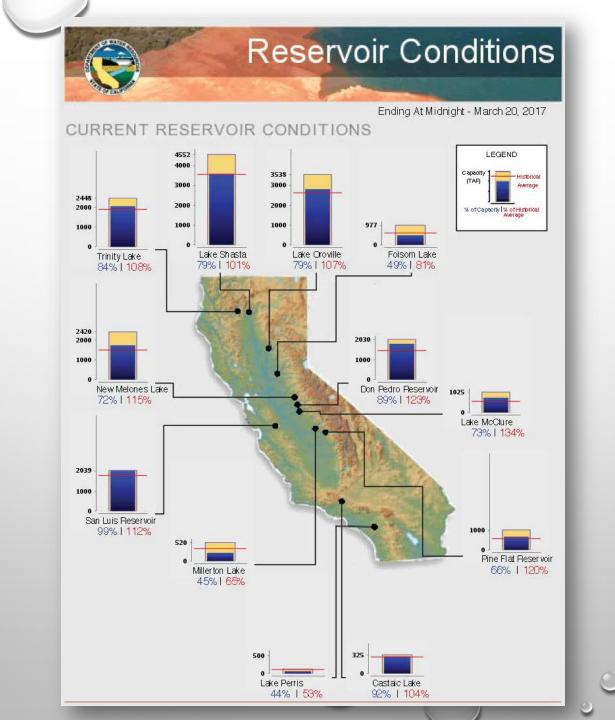


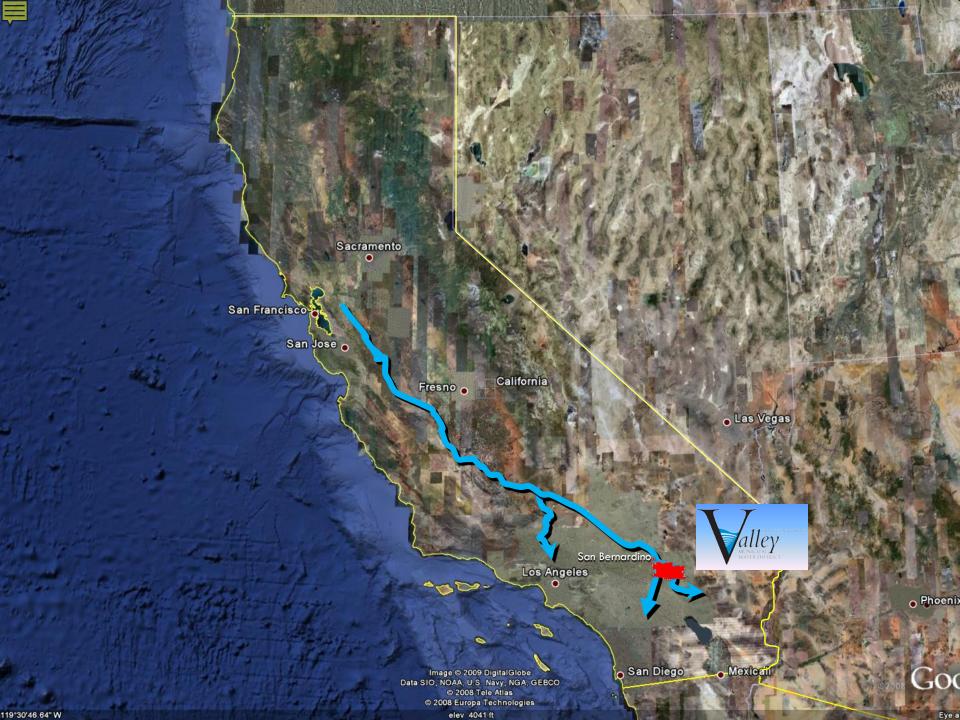
PRECIPITATION FOR SWP

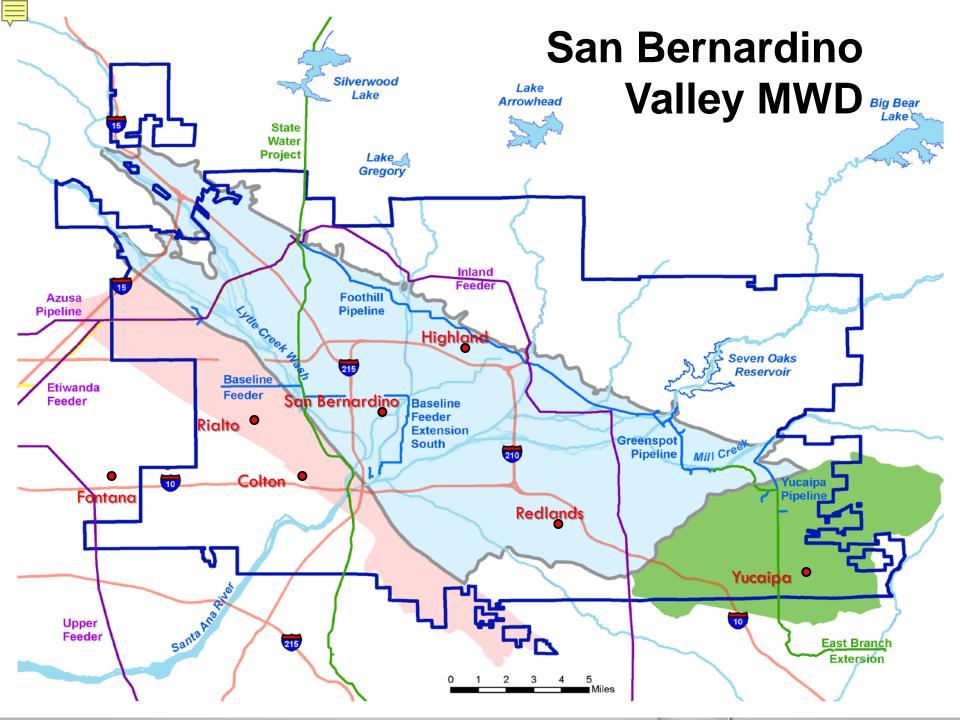


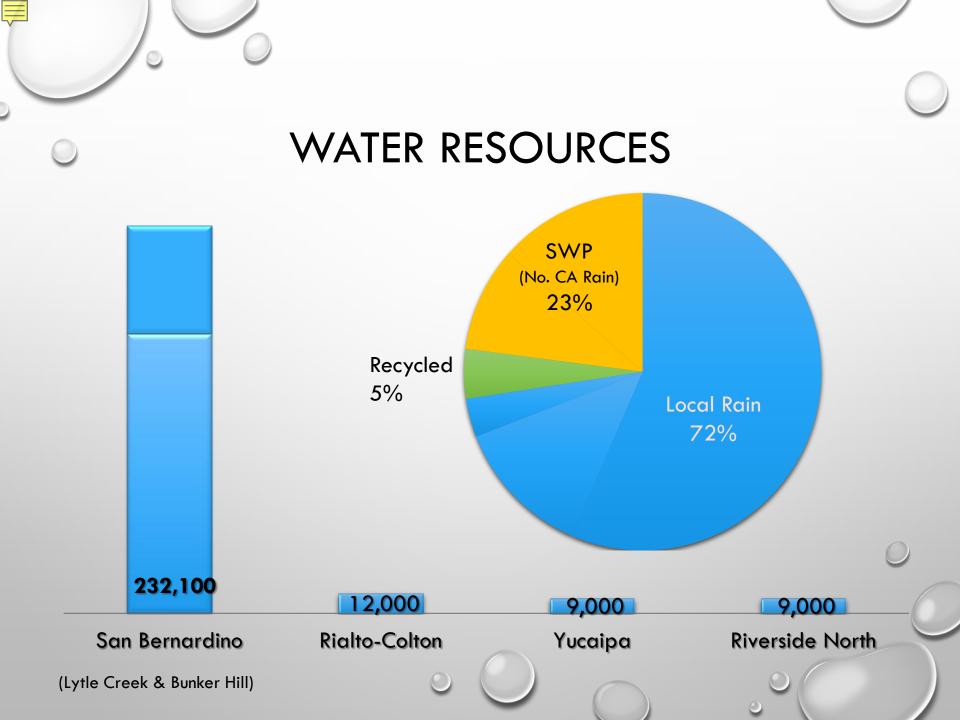
SNOW FOR SWP

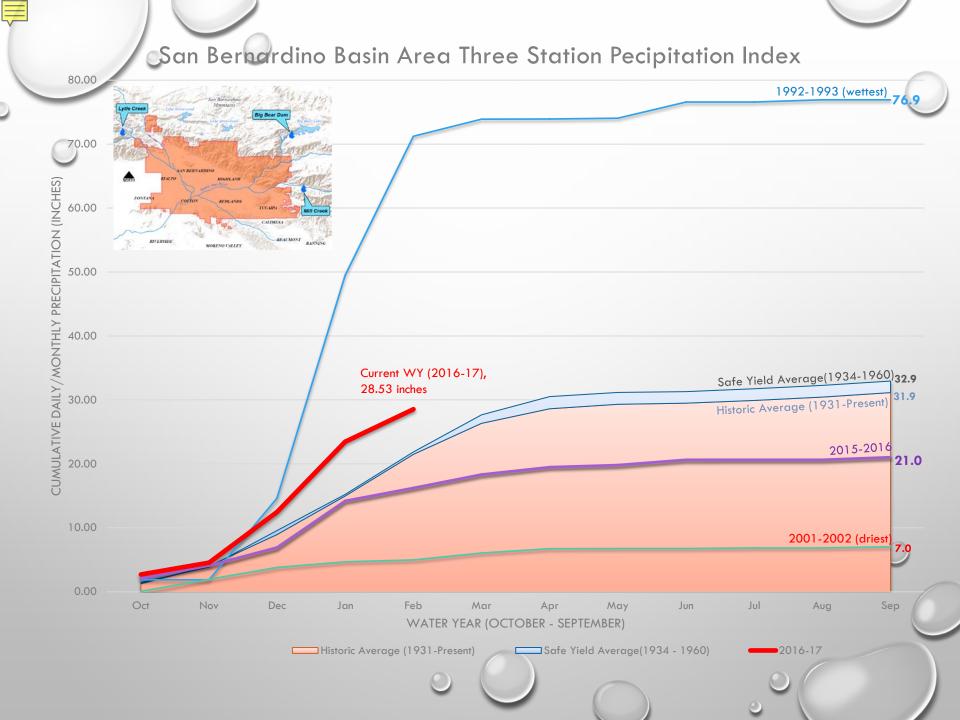






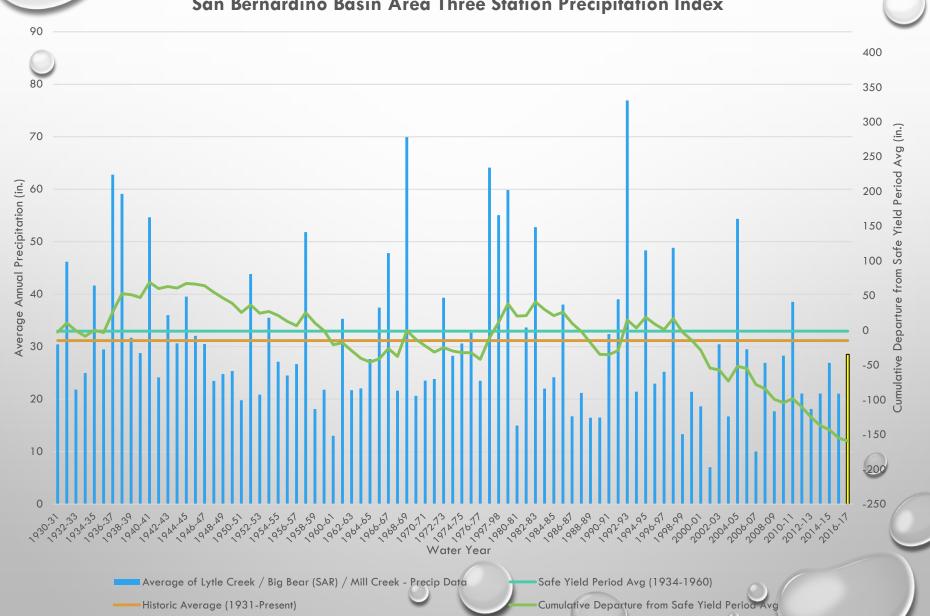




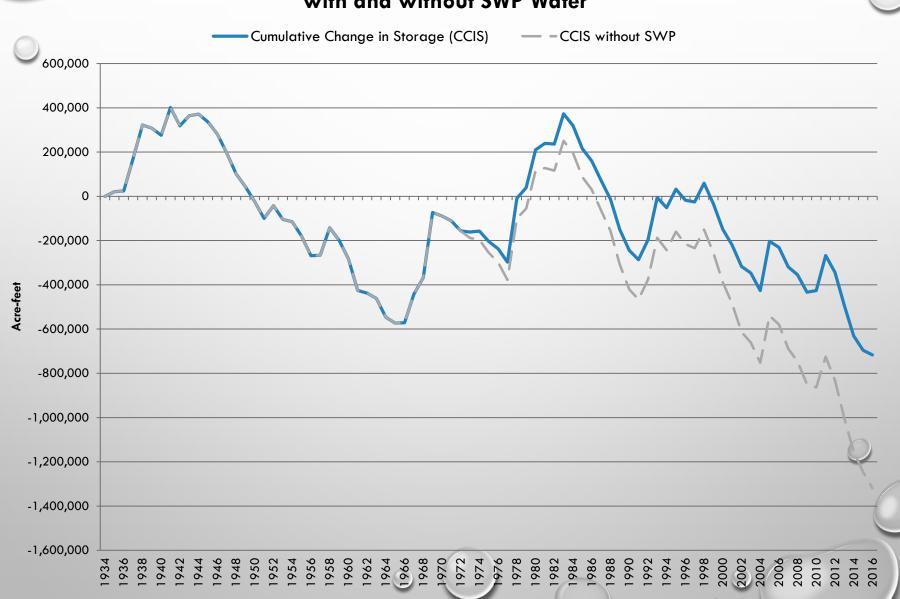


STILL BELOW AVERAGE FOR THE YEAR

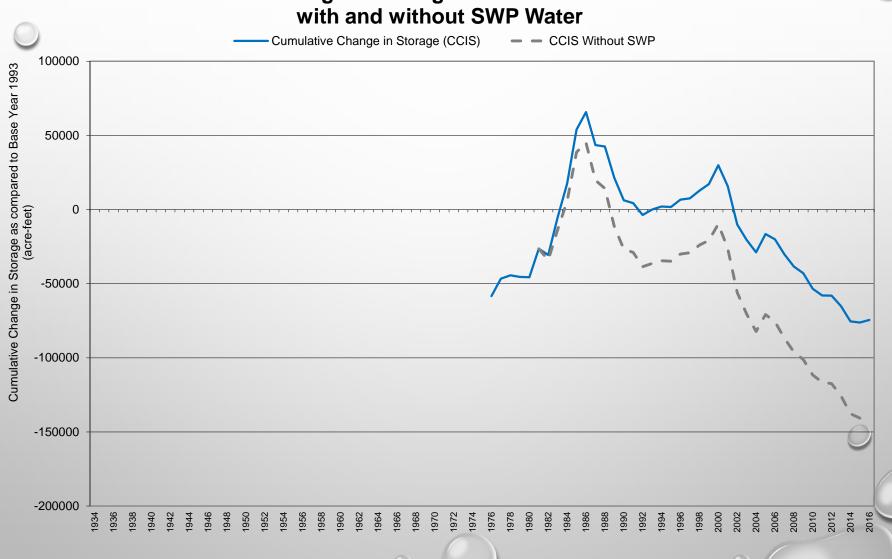
San Bernardino Basin Area Three Station Precipitation Index



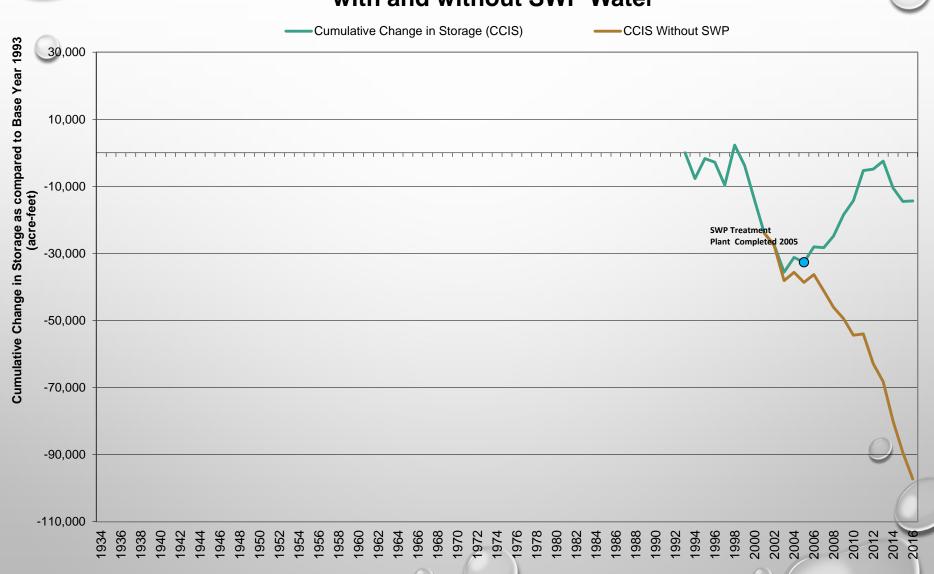
Cumulative Change in Storage for the SBBA with and without SWP Water



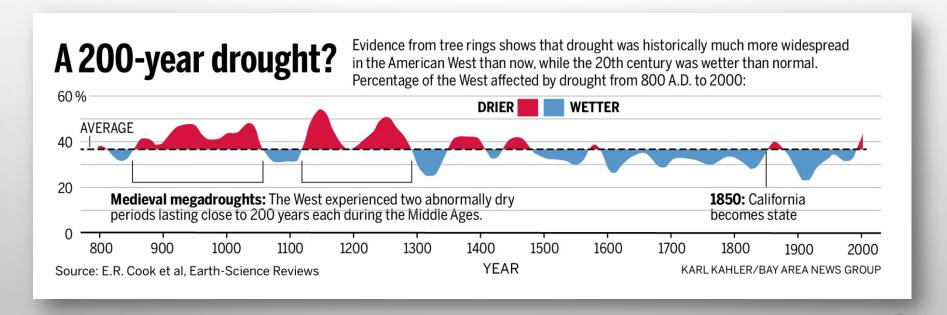
Cumulative Change in Storage for the Rialto-Colton Basin with and without SWP Water



Cumulative Change in Storage for the Yucaipa Basin with and without SWP Water

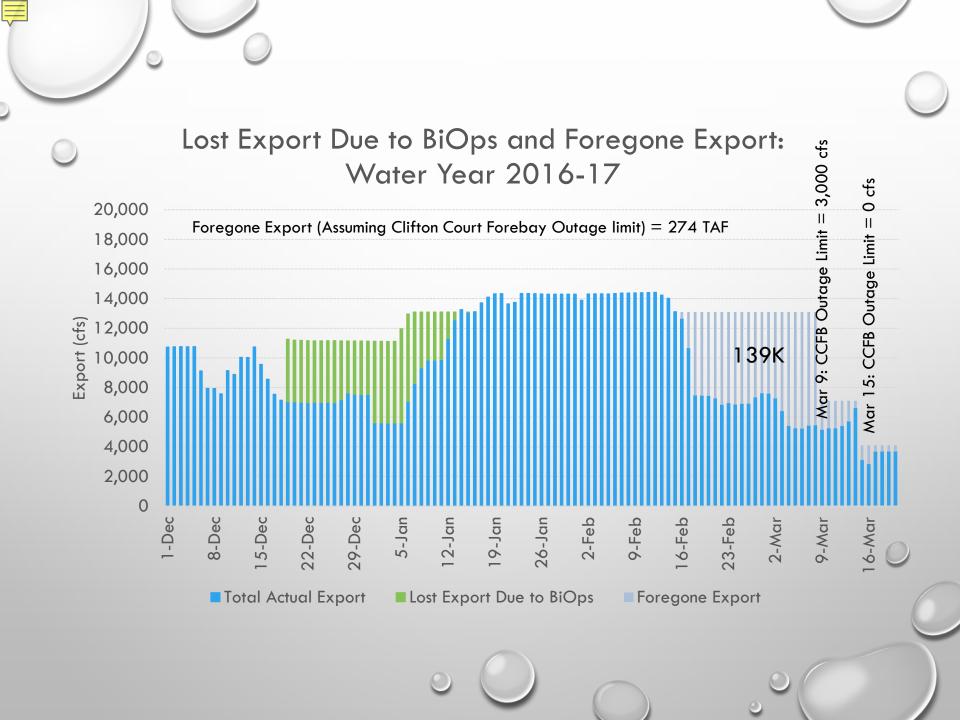


WHAT IF DROUGHTS LAST LONGER?

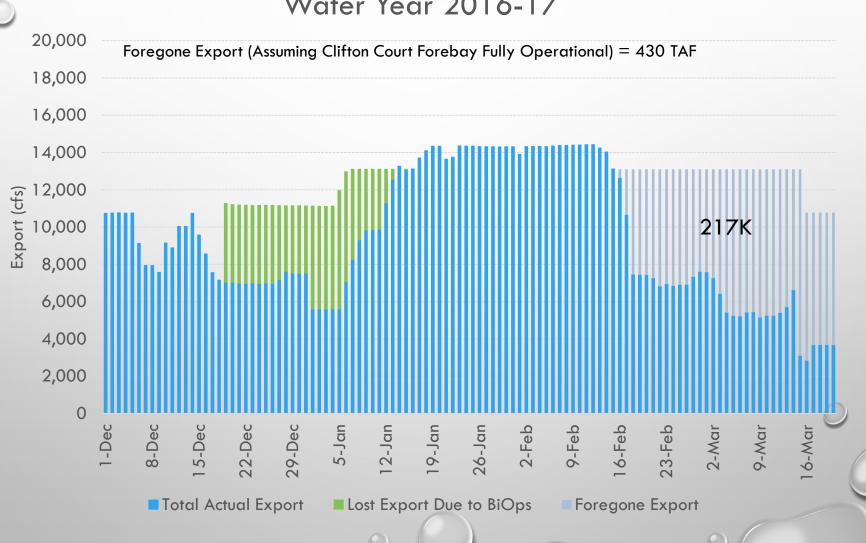


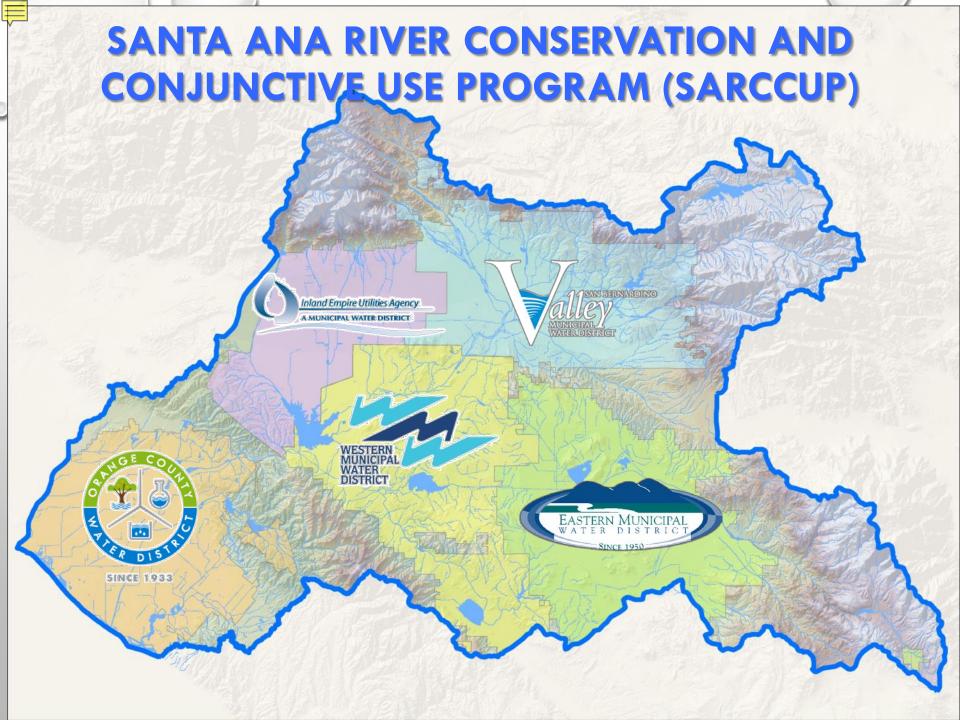
OWOW WATERSHED-SCALE WATER MANAGEMENT CONCEPTS

One Water One Watershed 2010 Integrated Regional Water Management Plan	ONE WATERSHED 2.0 PLAN
Introduced "exchange" concept of "replacement" water to upper/middle watershed for recycled water staying in river	Watershed Exchange Program (40,000 AFY Evaluation)
"Base Load" off of imported water	Wet Year Storage Program (120,000 AF
	Evaluation)



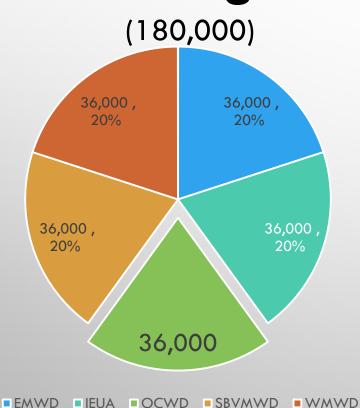
Lost Export Due to BiOps and Foregone Export: Water Year 2016-17



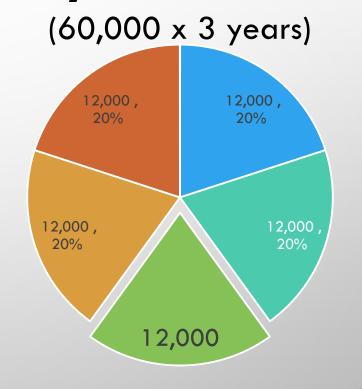


SARCCUP

Storage



Dry Year Yield



■IEUA ■OCWD ■SBVMWD ■WMWD

EMWD

SARCCUP GROUNDWATER BANK, PHASE 1

(1,000's AF)

