

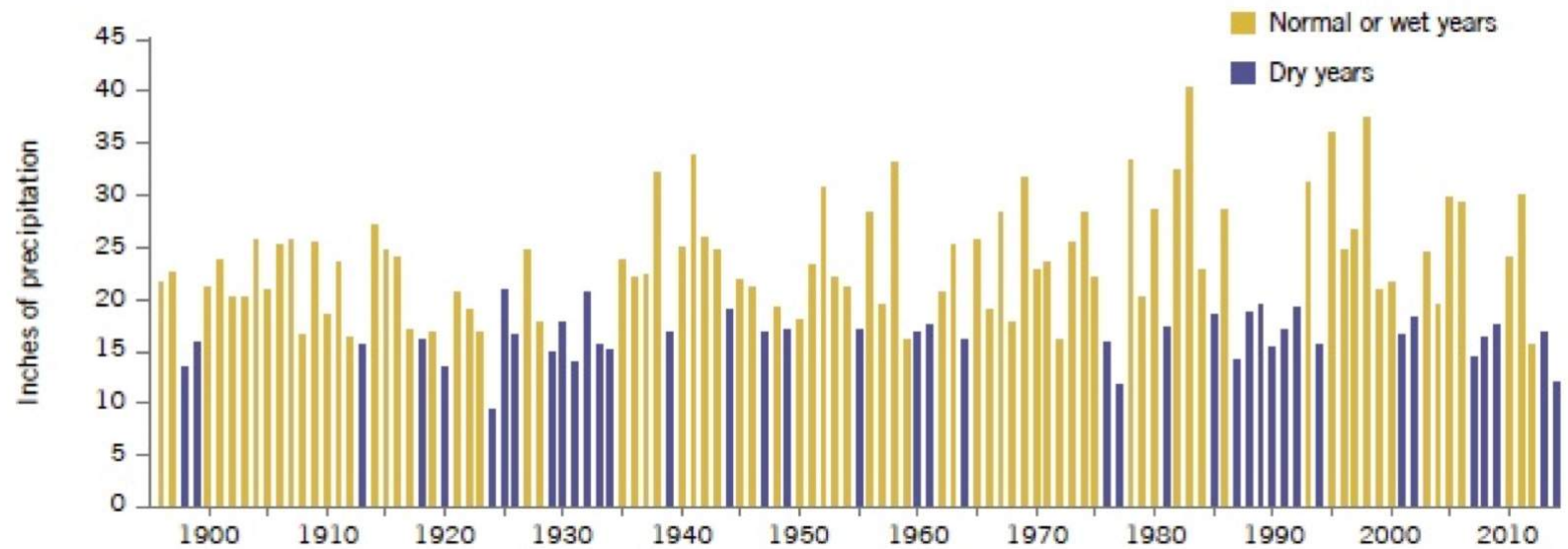
A (Very) Quick Primer on the Drought

Bruce Riordan, CRI



California Precipitation

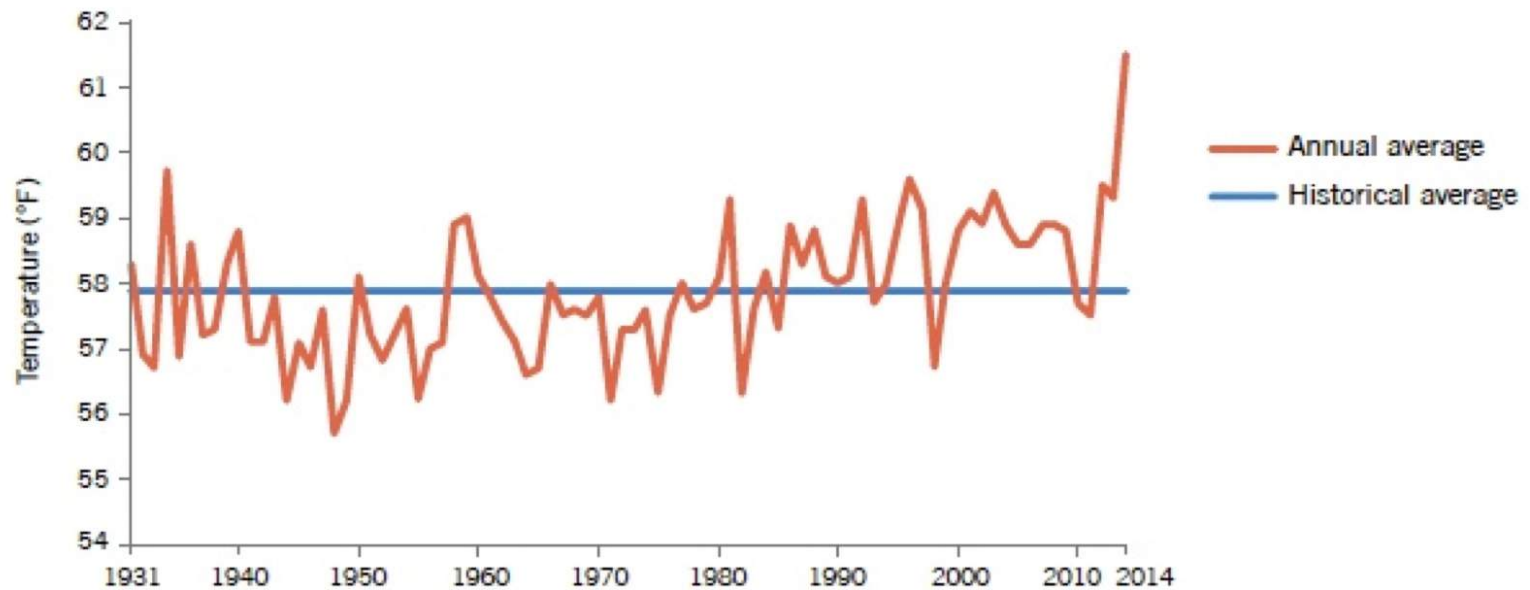
DROUGHTS ARE A RECURRING FEATURE OF CALIFORNIA'S CLIMATE



Source: PPIC

California Temperatures

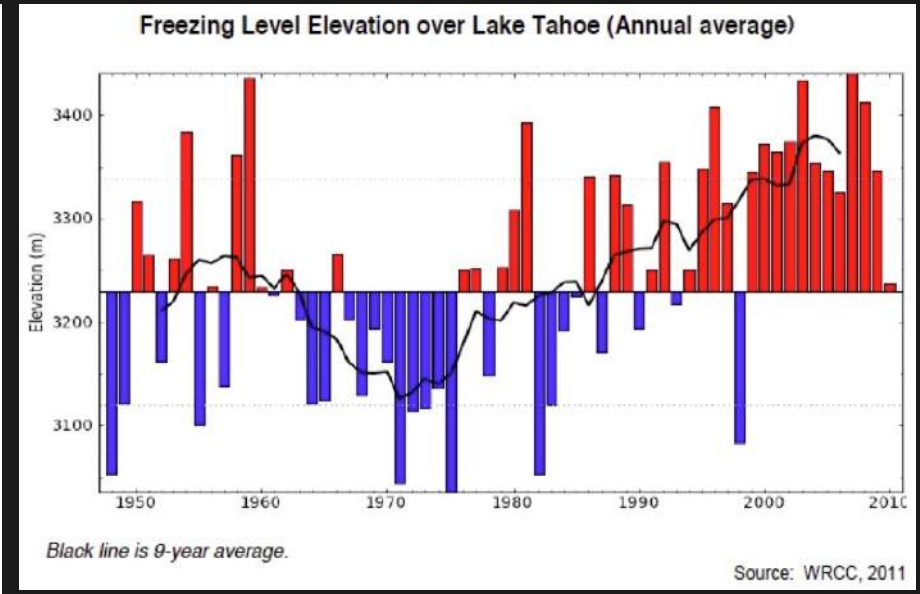
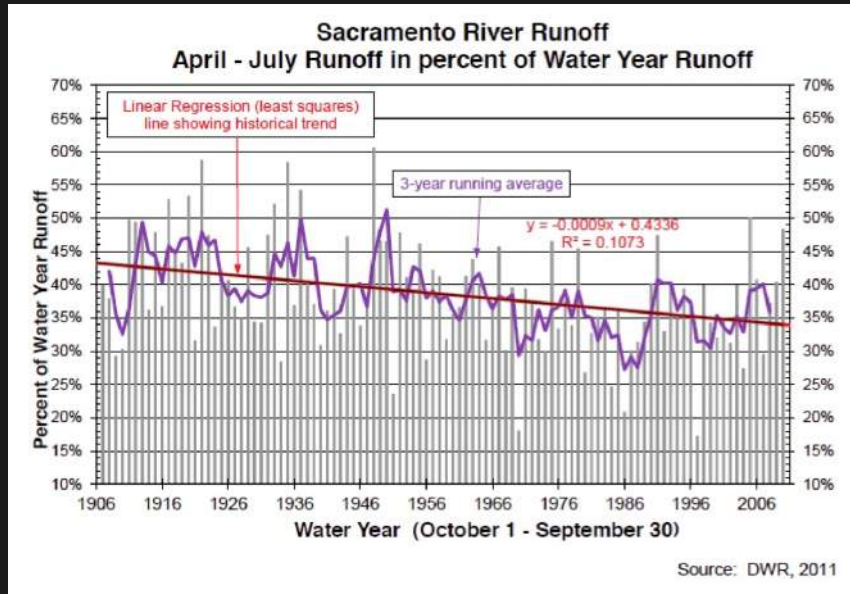
CALIFORNIA IS GETTING WARMER



SOURCE: National Oceanic and Atmospheric Administration.

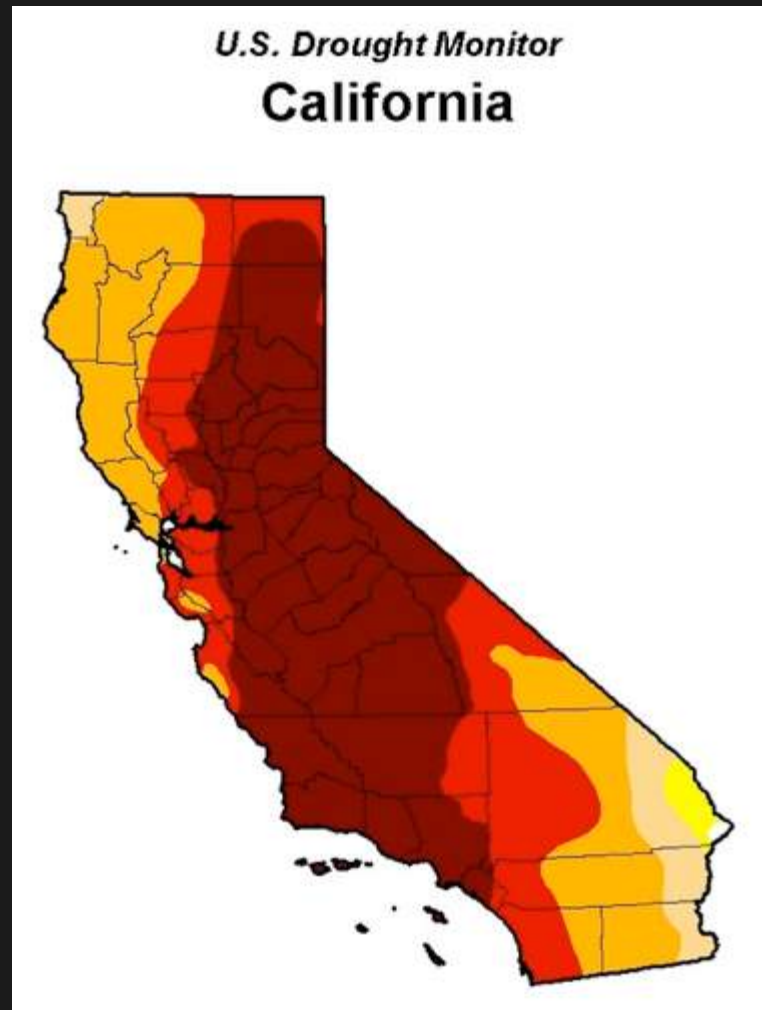
Source: PPIC

Changes in Sierra



Source: Indicators of Climate Change in California

California Drought



Source: U.S. Drought Monitor

California Drought: Landlords pass along water bills to coax apartment dwellers to conserve



Drought kills 12 million trees in California's national forests



Drought linked to polluted winter air

SFGATE <http://www.sfgate.com/bayarea/article/California-drought-Silicon-Valley-faces-sweeping-6274158.php>

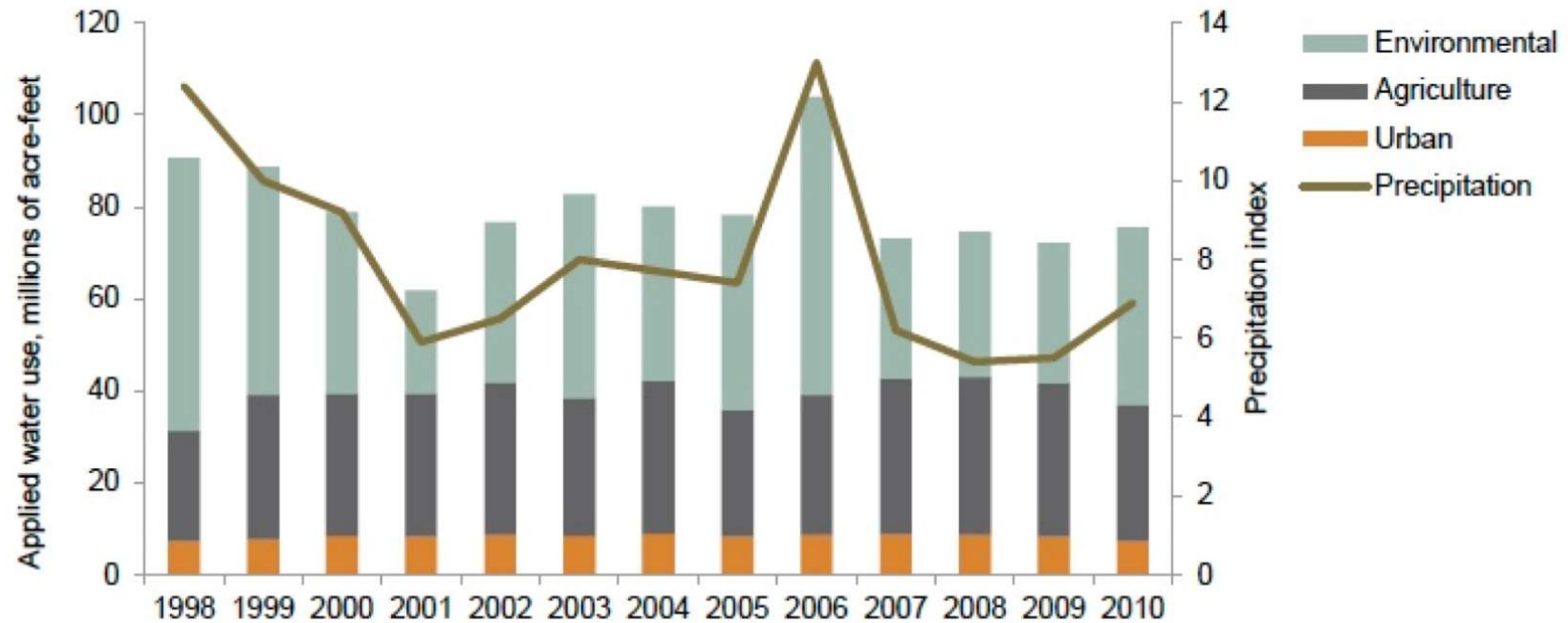
California drought: Silicon Valley faces sweeping water cuts

By **Kurtis Alexander** Updated 6:03 pm, Tuesday, May 19, 2015

ADVERTISEMENT

California Water Use

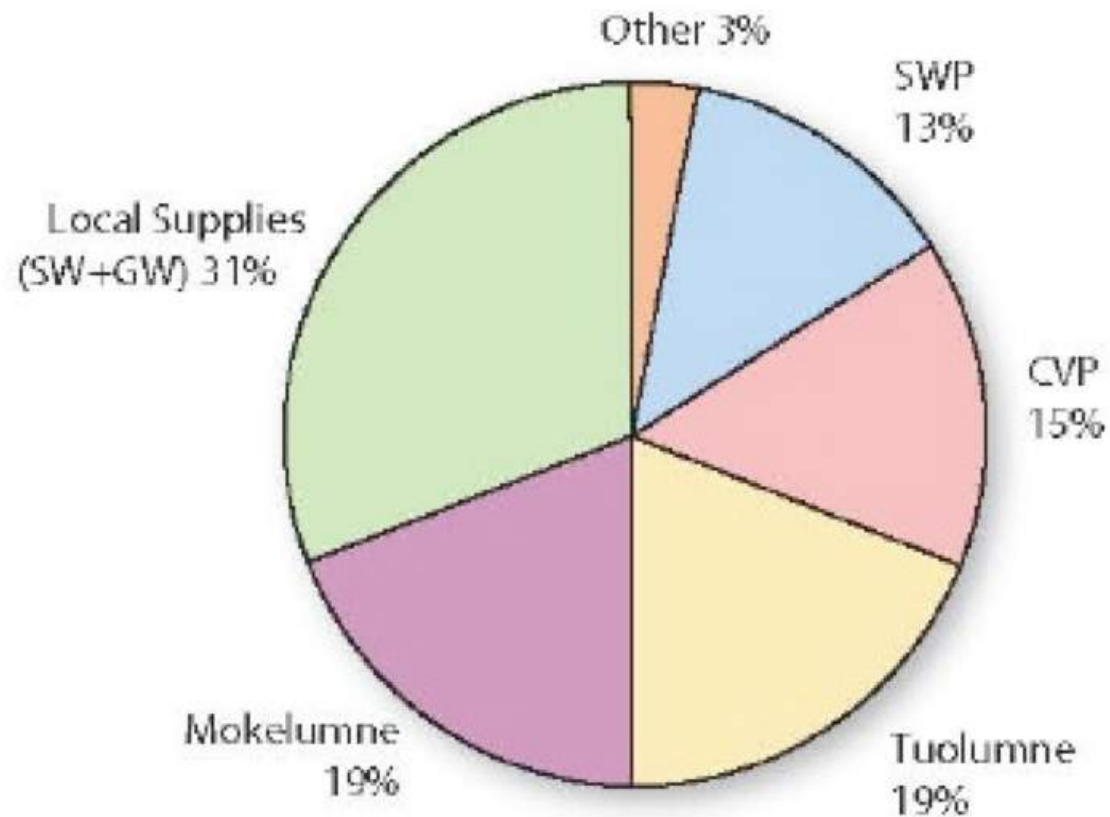
Environmental water use fluctuates most



Source: PPIC

Bay Area Water Sources

Figure 2-18: Bay Area Water Use by Supply Source



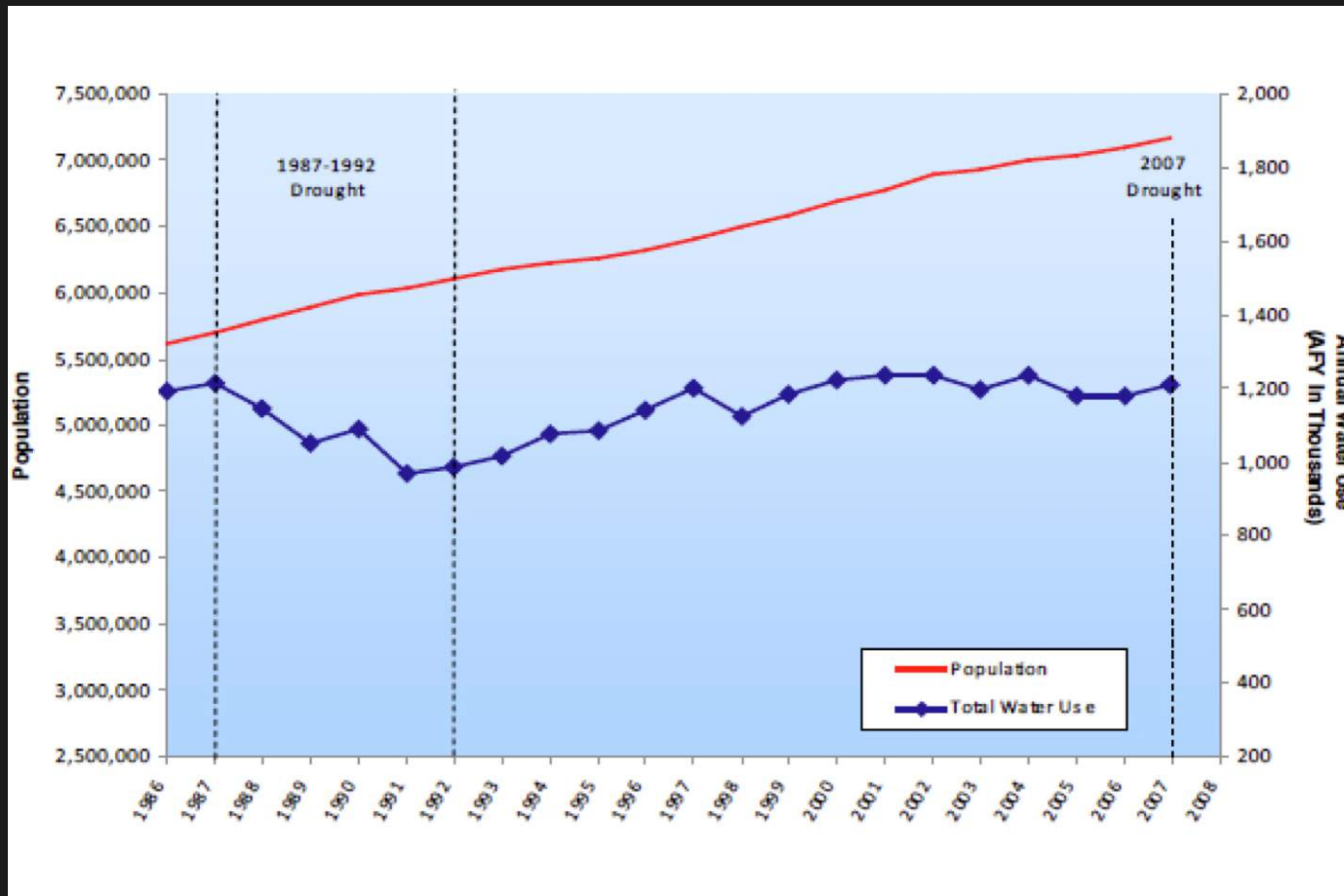
Source: IRWMP

Bay Area Major Water Agencies



Source: IRWMP

Bay Area Water Use



Source: IRWMP

The Drought Challenge

Executive Department
State of California

EXECUTIVE ORDER B-29-15

WHEREAS on January 17, 2014, I proclaimed a State of Emergency to exist throughout the State of California due to severe drought conditions; and

WHEREAS on April 25, 2014, I proclaimed a Continued State of Emergency to exist throughout the State of California due to the ongoing drought; and

WHEREAS California's water supplies continue to be severely depleted despite a limited amount of rain and snowfall this winter, with record low snowpack in the Sierra Nevada mountains, decreased water levels in most of California's reservoirs, reduced flows in the state's rivers and shrinking supplies in underground water basins; and

WHEREAS the severe drought conditions continue to present urgent challenges including: drinking water shortages in communities across the state, diminished water for agricultural production, degraded habitat for many fish and wildlife species, increased wildfire risk, and the threat of saltwater contamination to fresh water supplies in the Sacramento-San Joaquin Bay Delta; and

WHEREAS a distinct possibility exists that the current drought will stretch into a fifth straight year in 2016 and beyond; and

WHEREAS new expedited actions are needed to reduce the harmful impacts from water shortages and other impacts of the drought; and

WHEREAS the magnitude of the severe drought conditions continues to present threats beyond the control of the services, personnel, equipment, and facilities of any single local government and require the combined forces of a mutual aid region or regions to combat; and

WHEREAS under the provisions of section 8558(b) of the Government Code, I find that conditions of extreme peril to the safety of persons and property continue to exist in California due to water shortage and drought conditions with which local authority is unable to cope; and

WHEREAS under the provisions of section 8571 of the California Government Code, I find that strict compliance with various statutes and regulations specified in this order would prevent, hinder, or delay the mitigation of the effects of the drought.

NOW, THEREFORE, I, EDMUND G. BROWN JR., Governor of the State of California, in accordance with the authority vested in me by the Constitution and statutes of the State of California, in particular Government Code sections 8567 and 8571 of the California Government Code, do hereby issue this Executive Order, effective immediately.

Bay Area Scorecard

AGENCY	Total Water Production (Jan 14-Feb 15)	Saved Jun14-Feb15 vs. 2013	R-GPCD (Jul-Sep14)	STATE REQ vs. 2013
Alameda County				
Alameda County Water District	8,458,900,000	20%	88.3	16%
Dublin San Ramon	1,959,505,000	29%	84.7	16%
EBMUD	46,127,500,000	12%	94.2	16%
Hayward	3,957,222,483	12%	62.3	8%
Livermore (City)	1,199,514,000	27%	100.3	20%
Livermore (CWS)	1,909,163,511	31%	120.5	24%
Pleasanton	3,099,891,000	30%	119.8	24%
San Lorenzo Valley	335,050,267	20%	77.9	12%
Contra Costa County				
Antioch	4,042,923,000	13%	141.9	28%
Bay Point	452,672,802	12%	69.2	12%
Brentwood	2,663,210,000	12%	174.9	32%
Contra Costa Water District	7,547,370,752	15%	139.9	28%
EBMUD	See Alameda Co.			
Martinez	871,695,210	15%	95.5	16%
Pittsburg	2,226,323,000	10%	100.4	20%
Marin County				
Marin Municipal	3,966,662,221	15%	107.4	20%
North Marin	1,986,810,000	19%	129.1	24%
Napa County				
American Canyon	777,155,653	15%	93.5	16%
Napa	3,247,435,321	10%	109.2	20%
Santa Clara County				
Gilroy	1,995,678,000	14%	117.5	24%
Milpitas	2,424,775,231	11%	72.3	12%
Mountain View	2,531,213,885	15%	82.5	16%
Palo Alto	2,685,999,460	16%	116.8	24%
San Jose (City)	4,707,000,000	11%	96.0	20%
San Jose Hills	6,833,016,444	5%	120.3	24%
San Jose Water Company	31,608,300,000	12%	105.7	20%
Santa Clara	4,749,500,000	11%	88.3	16%
Sunnyvale	3,929,970,221	15%	85.2	16%
San Francisco				
SFPUC	18,717,900,000	8%	45.4	8%