



# Update on 2016 Water Supply and Drought Response

June 14, 2016



Santa Clara Valley  
Water District



# Presentation Outline

- Water Use Reduction Update
- 2016 Water Supply Outlook
- SWRCB Emergency Regulations Update
- Board Water Conservation Ad Hoc Committee Recommendation
- Untreated Surface Water Program Update
- Staff Recommendation

# Water Use Reduction Recommendation

## **Adopt Resolution that:**

- Calls for a 20% water use reduction through Jan 2017
- Recommends that water retailers, local municipalities and the County of Santa Clara continue to implement mandatory measures as needed to achieve the 20% water use reduction target
- Calls for a maximum three day per week watering restriction

# 2016 Water Use (Major Retailers Use)

<b>2016</b>	<u>North County Ground water</u>	<u>South County Ground water</u>	<u>Treated Water</u>	SFPUC	SJWC Surface	<b>2016 Monthly Use</b>	<b>2016 Cumulative Use</b>	<i>Cumulative District Source Savings</i>	<i>Cumulative NonDistrict Source Savings</i>	<b>All Sources Cumulative %Savings from 2013 &lt;+&gt; savings</b>	<b>Statewide Cumulative Savings (since Jan 2016)</b>
Jan	3,894	1,085	4,789	2,458	489	<b>12,715</b>	<b>12,715</b>	4%	44%	<b>18%</b>	17%
Feb	3,238	1,041	5,037	2,581	951	<b>12,848</b>	<b>25,563</b>	10%	37%	<b>19%</b>	15%
Mar	3,562	1,149	4,950	3,053	1,282	<b>13,996</b>	<b>39,559</b>	22%	24%	<b>23%</b>	18%
Apr*	4,367	1,315	5,050	3,258	1,857	<b>15,846</b>	<b>55,405</b>	30%	18%	<b>27%</b>	Not available
May	-	-	-	-	-	-	-				
Jun	-	-	-	-	-	-	-				
Jul	-	-	-	-	-	-	-				
Aug	-	-	-	-	-	-	-				
Sep	-	-	-	-	-	-	-				
Oct	-	-	-	-	-	-	-				
Nov	-	-	-	-	-	-	-				
Dec	-	-	-	-	-	-	-				
<b>*Jan to Current</b>	<b>15,060</b>	<b>4,589</b>	<b>19,826</b>	<b>11,350</b>	<b>4,580</b>	<b>55,405</b>					
<i>%Savings by Source of Supply</i>	<b>19%</b>	<b>22%</b>	<b>38%</b>	<b>25%</b>	<b>-9%</b>	<b>27%</b>					

**Current monthly water use data is preliminary and subject to change.**

These water use data sets do not include recycled water or surface water sales by the District

Percent savings are shown in positive values where savings have been made and negative percent values where water use is higher than the base year period (2013)

\*April data does not include Stanford data - Not available as of June 1

# Water Use Reduction - 2016 Compared to 2015

Water Retailer	Call for Reduction	Cumulative Water Use (AF) Jan to April 2016	Monthly Reduction April 2016	Cumulative Reduction Jan to April 2016
San Jose Water Co.	30%	26,835	36%	27%
Santa Clara (City)	30%	4,709	26%	20%
Sunnyvale	30%	4,375	28%	23%
San Jose Municipal	30%	4,066	33%	26%
California Water Service	32%	2,248	42%	39%
Palo Alto	24%	2,632	35%	30%
Mountain View	16%	2,254	35%	31%
Great Oaks	30%	2,246	38%	29%
Milpitas	30%	2,414	24%	18%
Gilroy	30%	1,690	33%	25%
Morgan Hill	30%	1,354	43%	31%
Purissima Hills Water	<sup>2</sup>	266	22%	40%
Stanford <sup>1</sup>	<sup>2</sup>	315	<sup>1</sup>	<sup>1</sup>
<b>Total</b>		<b>55,405</b>	<b>34%</b>	<b>27%</b>

<sup>1</sup> March 2016 data not available as of 3/20/2016. Stanford cumulative reductions thru mid Feb 2016 is 39%

<sup>2</sup> 2-day/week water restrictions.

# Improved Water Supply Availability in 2016

## Stevens Creek Reservoir at Boat Ramp



2014



2016

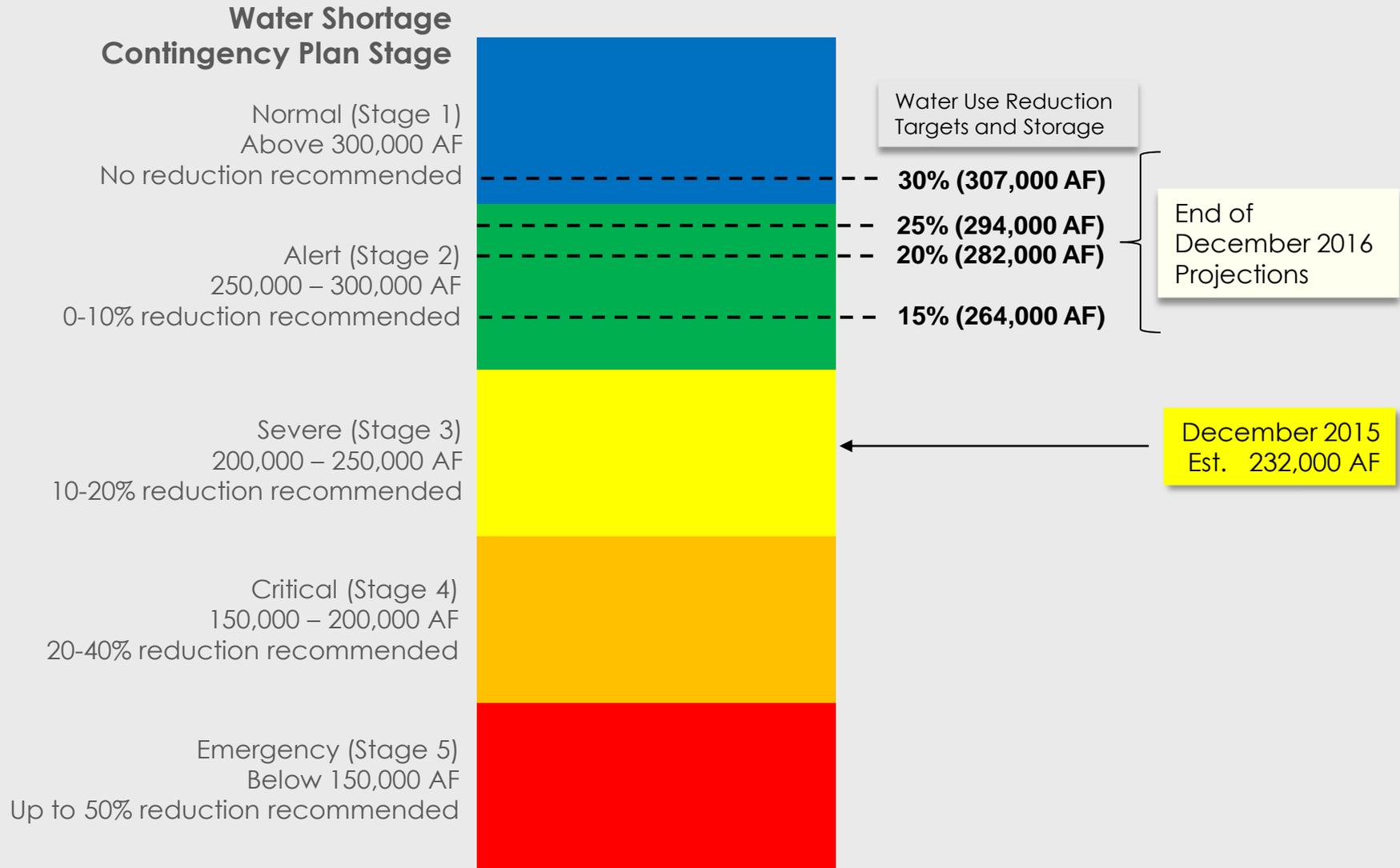
# Improved District\* Water Supply in 2016

\* Excludes Hetch-Hetchy supplies

Supply Source	Actual CY 2015 (AF)	Planned CY 2016 (AF)
Local Surface Water	60,000	94,000
Imported Water	171,000	211,000
Federal (CVP)	40,000	79,000
State (SWP)	20,000	60,000
Transfers, Carryover, Semitropic	111,000	72,000
<b>Total</b>	<b>231,000</b>	<b>305,000</b>
Managed Recharge	56,000	127,000
Semitropic Put/Take	Take 46,000	Put up to 20,000
Median Groundwater Level Change From Prior Year	Down 1 foot	Up 13 feet

Values are rounded to the nearest thousand acre-feet. Planned values are approximate.

# Projected 2016 Groundwater Storage



End of Year Groundwater Storage

# Water Use Reductions - Comparing Options

2016 Water Use Reductions	Benefits	Considerations
15% (or less)	<ul style="list-style-type: none"> <li>• Close to Water Shortage Contingency Plan (WSCP), which calls for 0-10% reduction</li> <li>• Improves conditions from Severe to low Alert Stage</li> </ul>	<ul style="list-style-type: none"> <li>• 15% is the expected result if all calls for reduction lifted</li> <li>• Most retailers and Landscape Committee prefer higher call to maintain momentum</li> <li>• Results in low end of Alert Stage</li> </ul>
20% (Current Recommendation)	<ul style="list-style-type: none"> <li>• In line with recommendations from most retailers and Landscape Committee</li> <li>• Improves conditions to upper Alert Stage</li> <li>• Maintains community momentum</li> </ul>	<ul style="list-style-type: none"> <li>• Higher than called for in WSCP</li> <li>• SFPUC may call for voluntary 10% reductions</li> </ul>
25% (or more)	<ul style="list-style-type: none"> <li>• Improves conditions to near or above Normal Stage</li> <li>• Maintains high level of community reductions and momentum</li> </ul>	<p>In addition to considerations for 20%:</p> <ul style="list-style-type: none"> <li>• Not in line with most retailers</li> <li>• May not meet community expectations for some relief</li> <li>• Increases risk of drought fatigue and may reduce District credibility</li> <li>• Likely maintains high rate surcharges to end users</li> </ul>

# Water Supply Outlook with 20% Call for Reductions

## **Significantly improved 2016 water supply conditions and year end 20% water use reductions result in:**

- ✓ Full utilization of imported water allocations
- ✓ Maximized groundwater recharge
- ✓ Offering non-contract treated water pricing to minimize groundwater pumping
- ✓ Improved groundwater storage to near normal conditions
- ✓ Planned storage of up to 20,000 AF into Semitropic

# State Board Emergency Regulation

- Adopted May 18, 2016
- Retailers can self-certify, based on 3-year “stress test”
- Wholesaler calculates volume of water it can deliver to each water retailer over 3-year period
- Approach not well suited for groundwater management agencies such as the District
- Our water use reduction target continues to be based on projected end-of-year groundwater conditions

# Landscape Rebate Program

Board Ad-Hoc Water Conservation Committee recommended distribution of \$1,000,000 as follows:

- \$800,000 for new participants
- \$100,000 for Ecology Action's lawn replacement program for schools and other publicly owned facilities in disadvantaged communities
- \$100,000 for design/irrigation/maintenance assistance

# Untreated Surface Water Program Update

- Untreated surface water deliveries curtailed in 2014-2015
- Appeal process: 12 customers granted temporary diversions (99 total customers)
- Improved 2016 supplies allows conditional lift of curtailment to most customers
- Subject to the same water use reductions as Board's call to retailers
- Process to revise Surface Water Rules under way

# Staff Recommendation

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