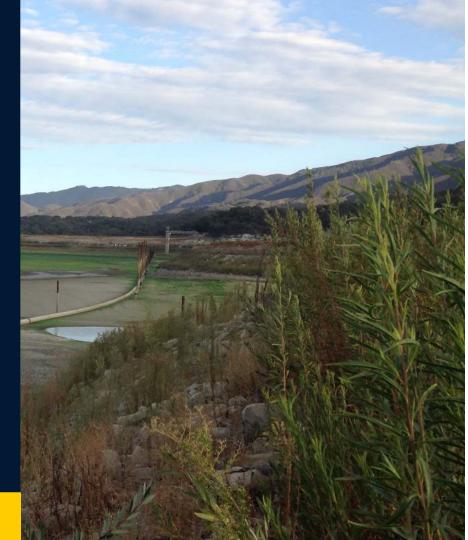
### Helene Schneider Santa Barbara Mayor

## Drought Resiliency:

Diversity, Innovation, and Conservation





### Background

**Drought Status** 

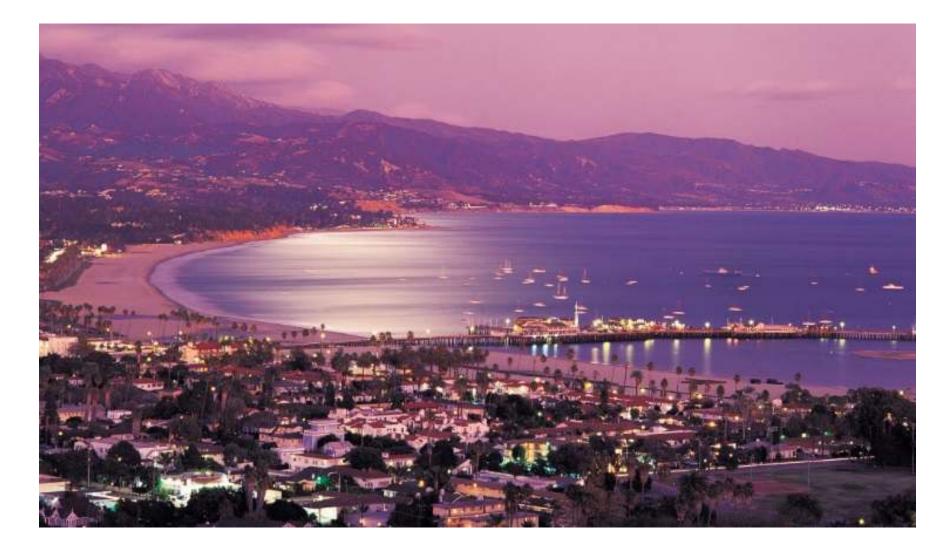
**Demand Status** 

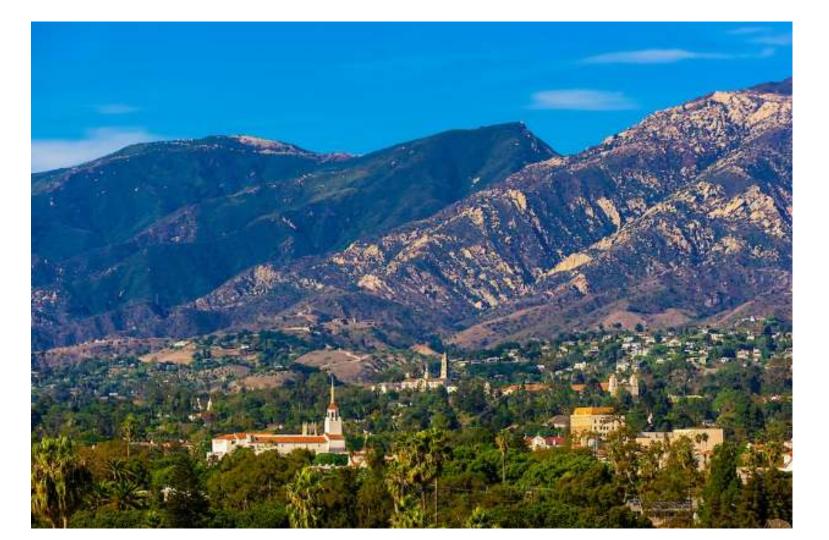
Water Supply Status

**Looking Forward** 

Water Supply Strategy

Demand Management Strategy



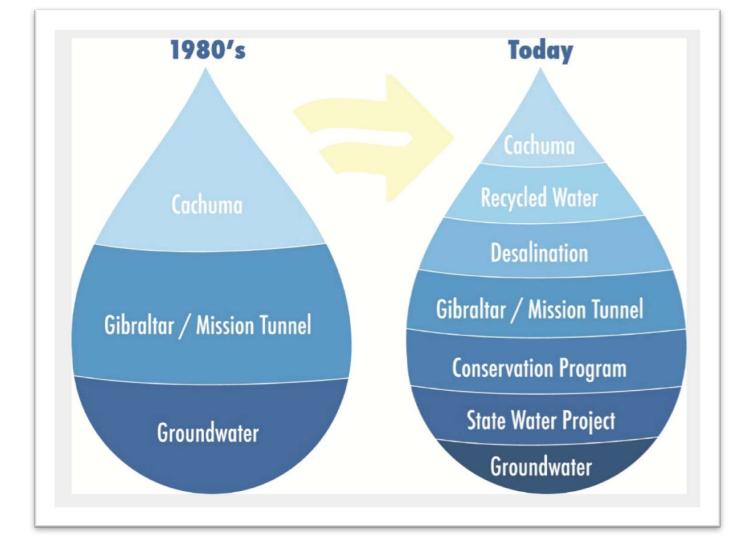


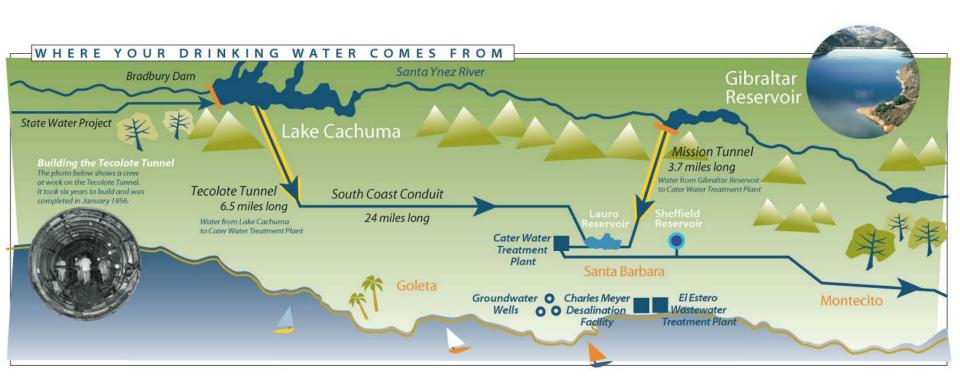
## 1806 Dam & Aqueduct









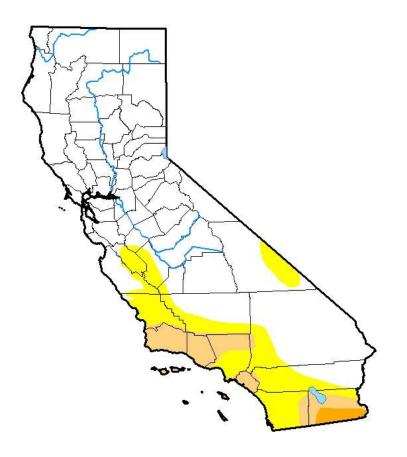




Background
Drought Status
Demand Status
Water Supply Status
Looking Forward
Water Supply Strategy
Demand Management Strategy

### U.S. Drought Monitor

### California



### April 4, 2017

(Released Thursday, Apr. 6, 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 03-28-2017	76.54	23.46	8.24	1.06	0.00	0.00
3 Month's Ago 01-03-2017	18.07	81.93	67.61	54.02	38.17	18.31
Start of Calendar Year 01-03-2017	18.07	81.93	67.61	54.02	38.17	18.31
Start of Water Year 09-27-2016	0.00	100.00	83.59	62.27	42.80	21.04
One Year Ago 04-05-2016	3.55	96.45	90.58	74.37	55.25	31.68

#### Intensity:



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

#### Author:

Anthony Artusa NOAA/NWS/NCEP/CPC



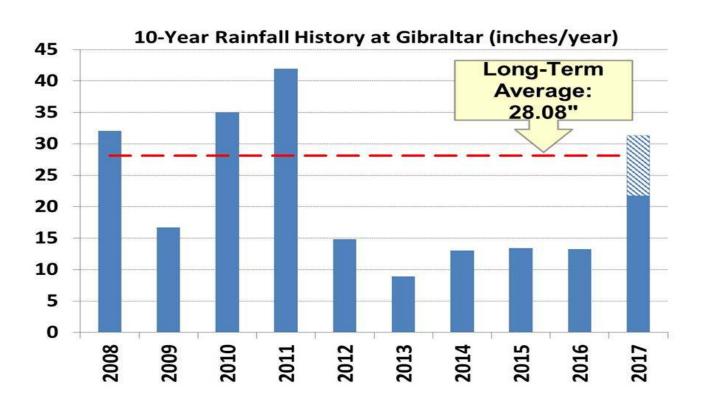






9

## Recent Rainfall



## **Current Drought**

- 2012 present
- 5 driest consecutive years on record
- Even with recent rains, we are still in a drought





Background Drought Status

**Demand Status** 

Water Supply Status

**Looking Forward** 

Water Supply Strategy

Demand Management Strategy

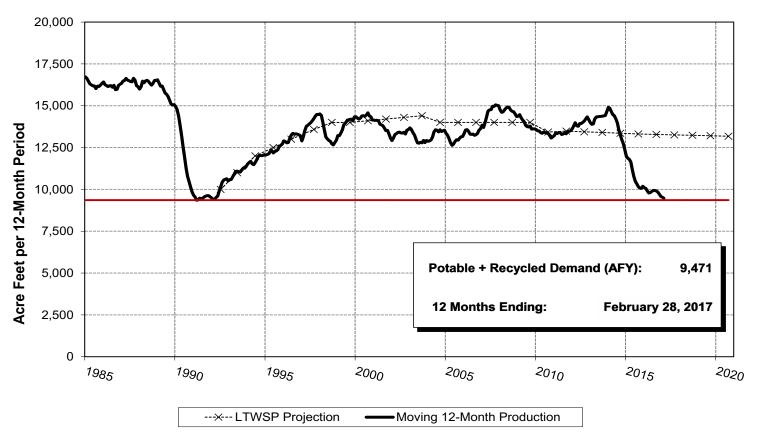
# The City Has a Long, Successful History of Water Conservation

- 20% reduction in water usage since the 80s
- City helped shape conservation BMPs for the State
  - Water Budgets Irrigation Customers
  - Free Water Check-ups
- Savings exceed statewide and regional averages and targets
- Conservation Approach
  - Short Term To address an Emergency
  - Long Term Ongoing Improvements in Water Use Efficiency



#### **City of Santa Barbara Water Demand**

Moving 12-Month Production to Serve Potable + Recycled Systems



City of Santa Barbara - Public Works Department

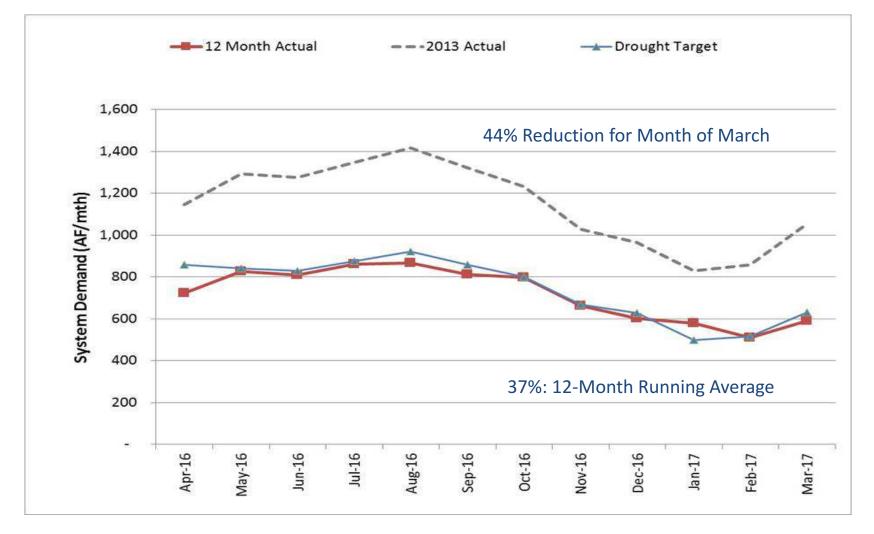
## **Conservation Tools - Highlights**

- Free Water Checkups for homes and businesses
- Rebates
  - Lawn replacement, drip irrigation
  - Pool covers
  - Washing machines
  - Commercial appliances & fixtures
- Free mulch deliveries, rain sensors, showerheads
- Green Gardener Certification Program
- Strong presence in local schools and community groups
- Regular use of media
  - Promoting customers who have changed their water use
  - Tools for reducing water use
  - Action oriented advertising
- Water Conservation Model

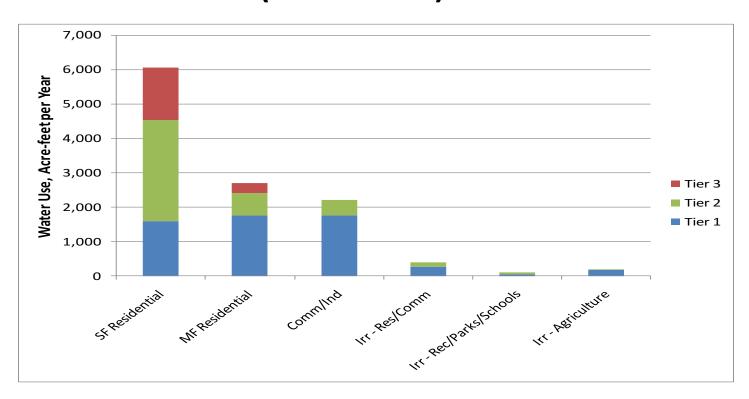








# Water Usage by Customer Class (Normal)



# **Drought Stages**

Date	Drought Stage	Conservation Target
February 11, 2014	Stage One Declared	Voluntary 20%
May 20, 2014	Stage Two Declared	Mandatory 20%
May 5, 2015	Stage Three Declared	Mandatory 25%
April 26, 2016	Stage Three (continued)	Mandatory 35%
December 6, 2016	Stage Three (continued)	Mandatory 40% with lawn watering ban
March 21, 2017	Stage Three (continued)	Mandatory 30%



Background
Drought Status
Demand Status
Water Supply Highl

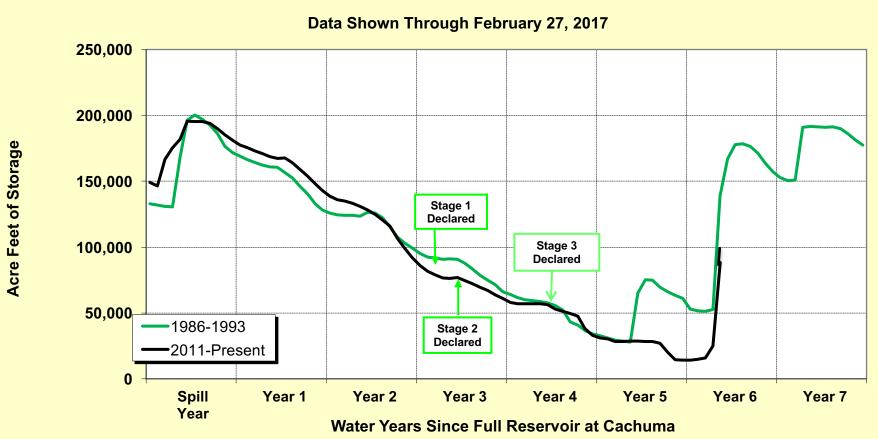
Water Supply Highlights

**Looking Forward** 

Water Supply Strategy

**Demand Management Strategy** 

# Cachuma Storage: Current Drought & 1986-93 Period Data Shown Through February 27, 2017

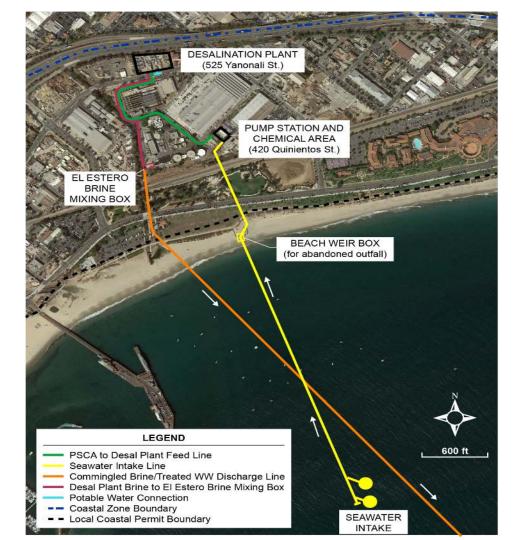


## Imported Water

- Central Coast Aqueduct sufficient to deliver about a third of the City's demands per year
- Delivered over a year's supply of water in the last 3 years
- State Water Project infrastructure:
  - State Water delivery
  - Supplemental purchased water
  - Banked water



## **Desal Plant Tour**



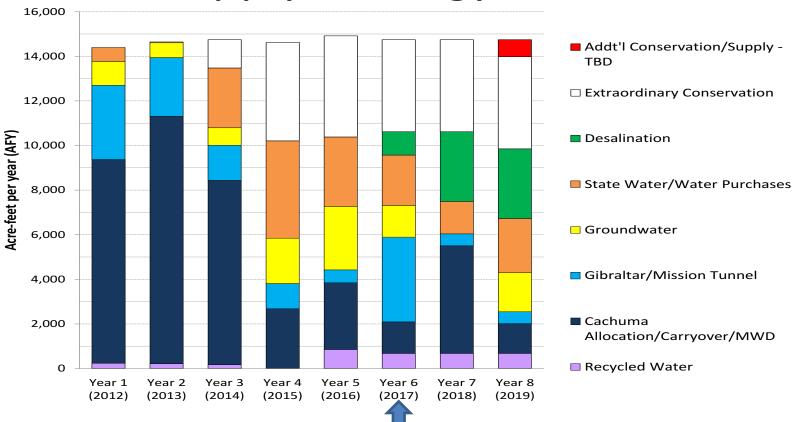
## **Drone Video**



Background
Drought Status
Demand Status
Water Supply Status

Looking Forward
Water Supply Strategy
Demand Management Strategy

## Water Supply Strategy



## Water Supply Strategy – Stress Test

- Recent rains are a positive improvement in our water supply outlook
- However, celebration is premature:
  - Groundwater basin at historic low levels
  - Surface water reservoirs back to 2014 levels
- Stress Test: Continue to plan for drought conditions
  - 3 Year Water Supply Strategy
    - Assuming drought conditions continue
  - Operation of desal
  - Rest groundwater basins
  - Return Borrowed Water
  - Maintain/build state water storage at Cachuma

