

# VENTURA RIVER WATER DISTRICT WATER BUDGET PROGRAM WORKSHOP

January 10, 2018



Photo by Paul Jenkin 1-09-2018

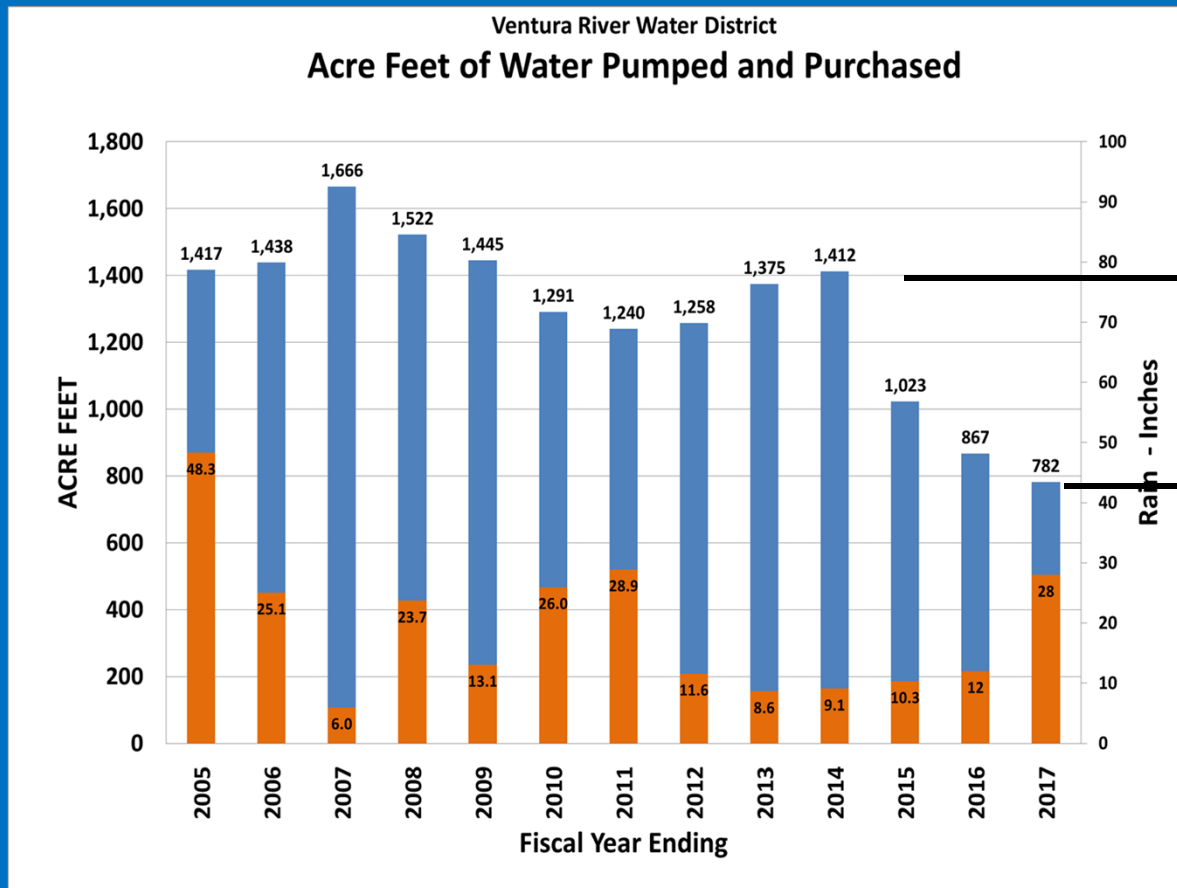
- Tonight – Water Budget Program



- February 15<sup>th</sup> Proposed Rate Changes

# Drought Status

- Still in Stage 3 – 30% Conservation Required

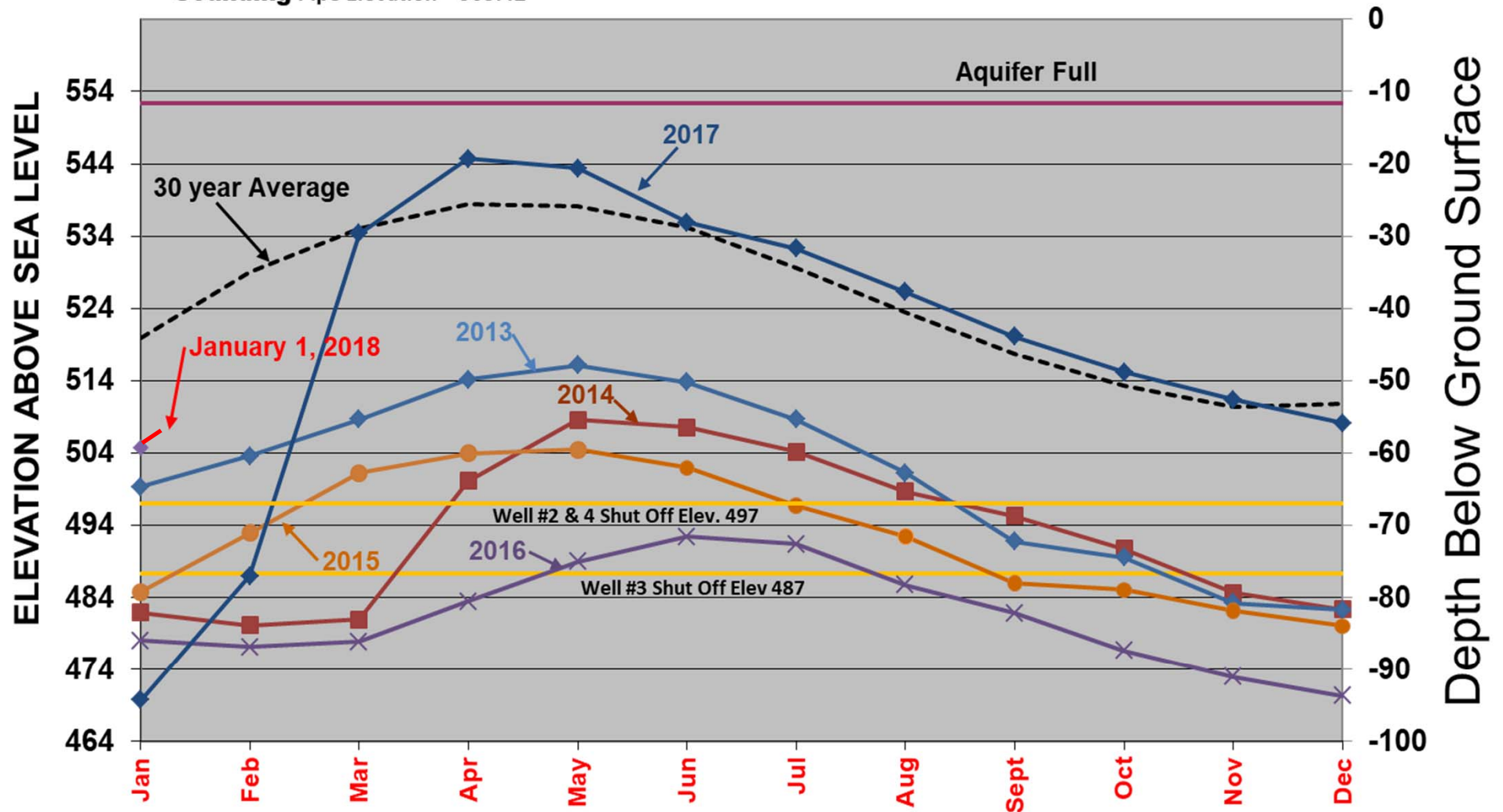


40% Reduction  
from 2013

# AQUIFER LEVEL BELOW REFERENCE VRWD WELL # 2 FIRST DAY OF THE MONTH

- 30 Yr AVG
- ◆ 2013
- 2018
- Aquifer Full
- 2015
- Well #3 Shut Off
- 2016
- 2014
- ◆ 2017
- Well #2 & #4 Shut Off

Sounding Pipe Elevation = 565.42

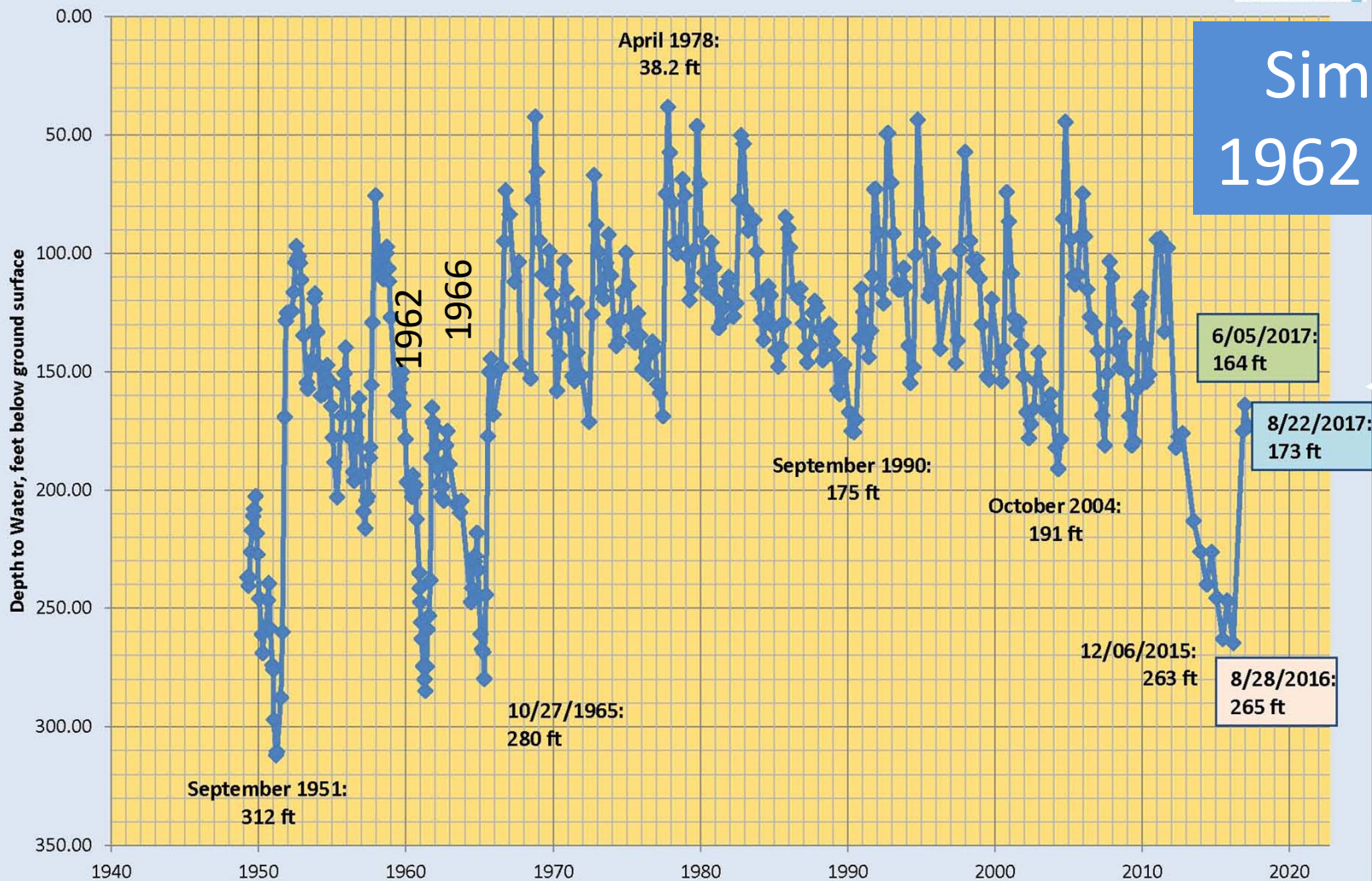


WATER LEVEL HYDROGRAPH



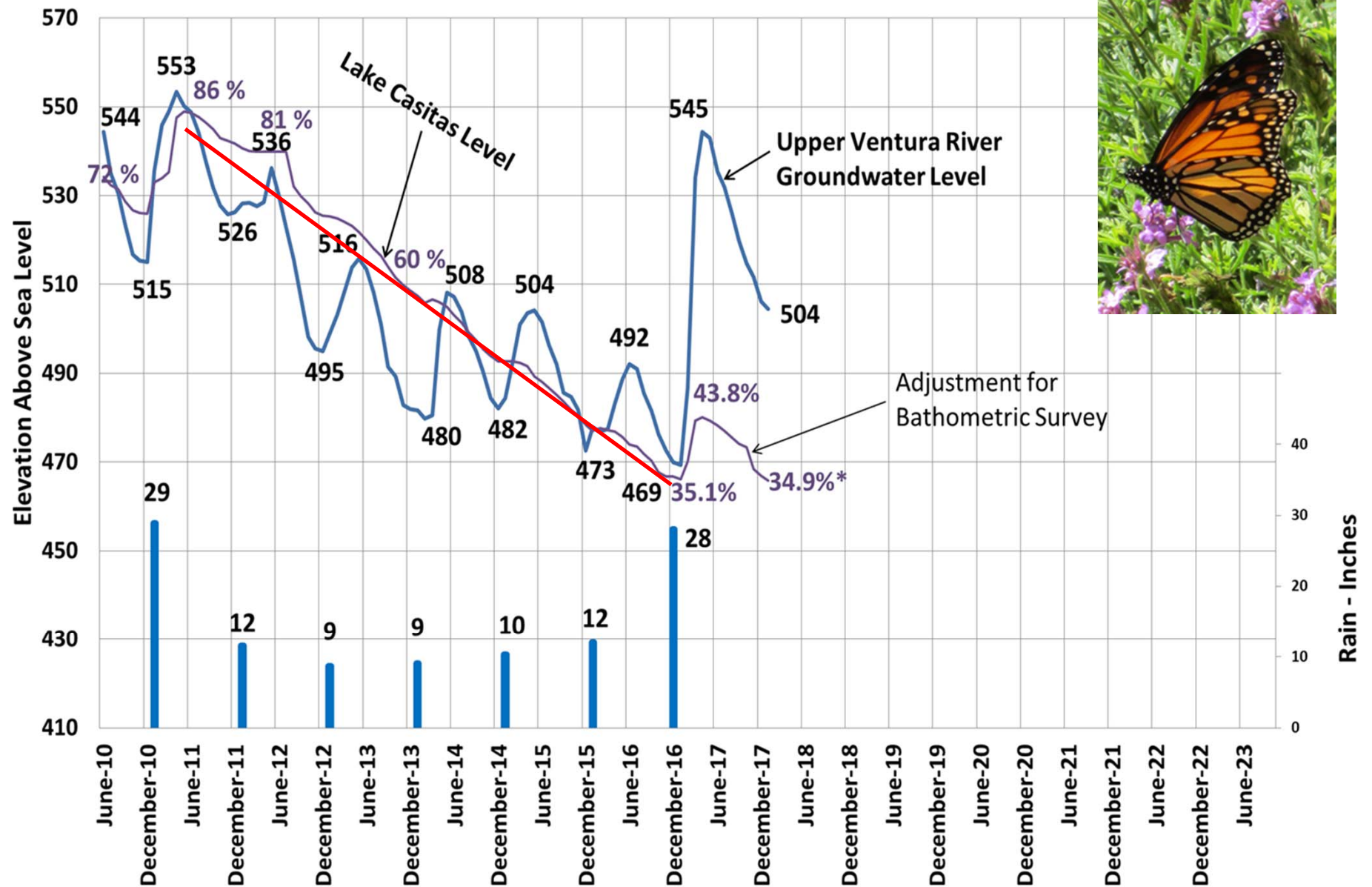
# The Status of Water In Ojai

Depth to Water: Ojai Basin Key Well 04N/22W-5L8  
(Carne and Grand)



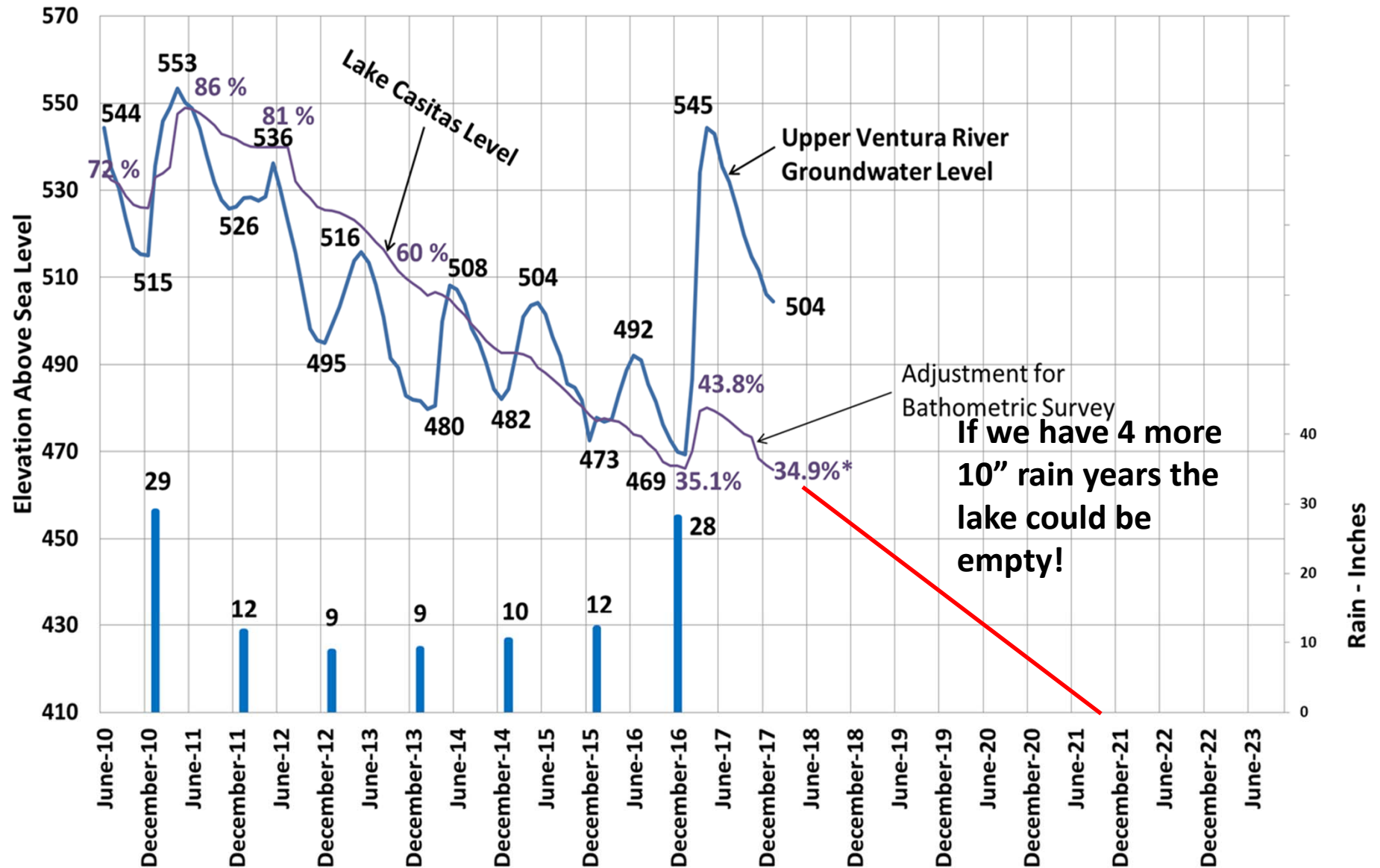
# VENTURA RIVER UPPER BASIN & LAKE CASITAS LEVELS

January 5, 2018



# VENTURA RIVER UPPER BASIN & LAKE CASITAS LEVELS

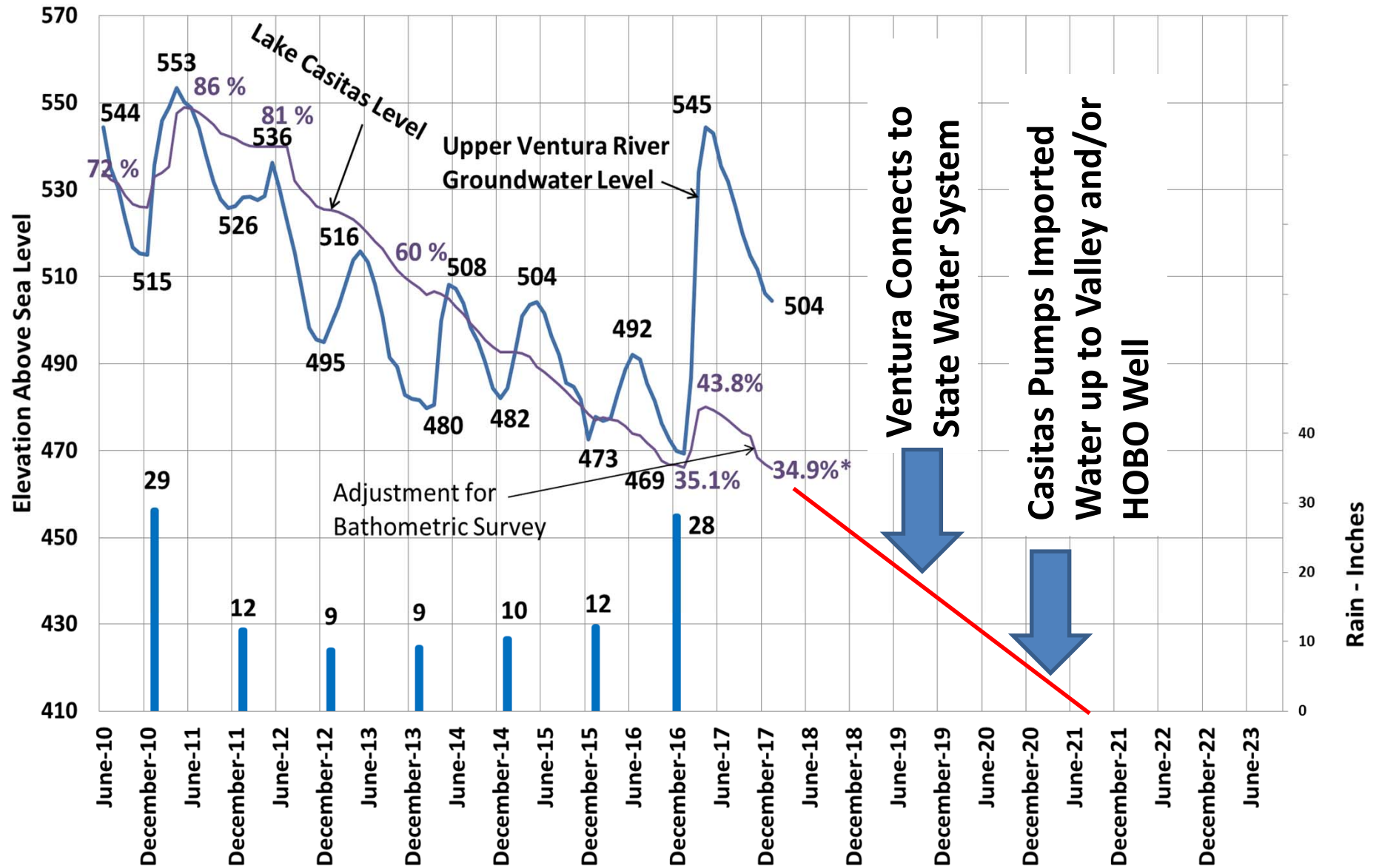
## January 5, 2018



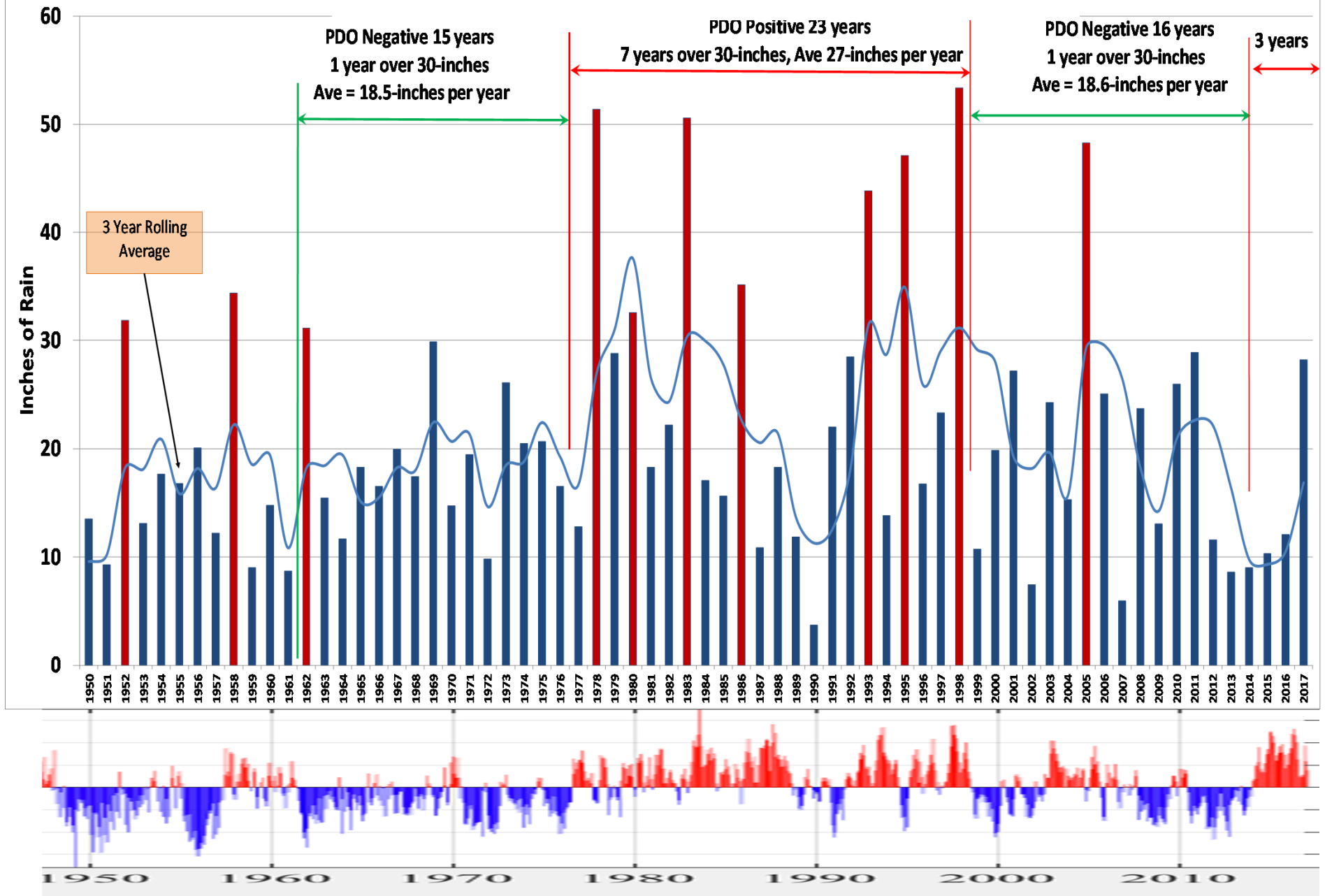


# VENTURA RIVER UPPER BASIN & LAKE CASITAS LEVELS

January 5, 2018

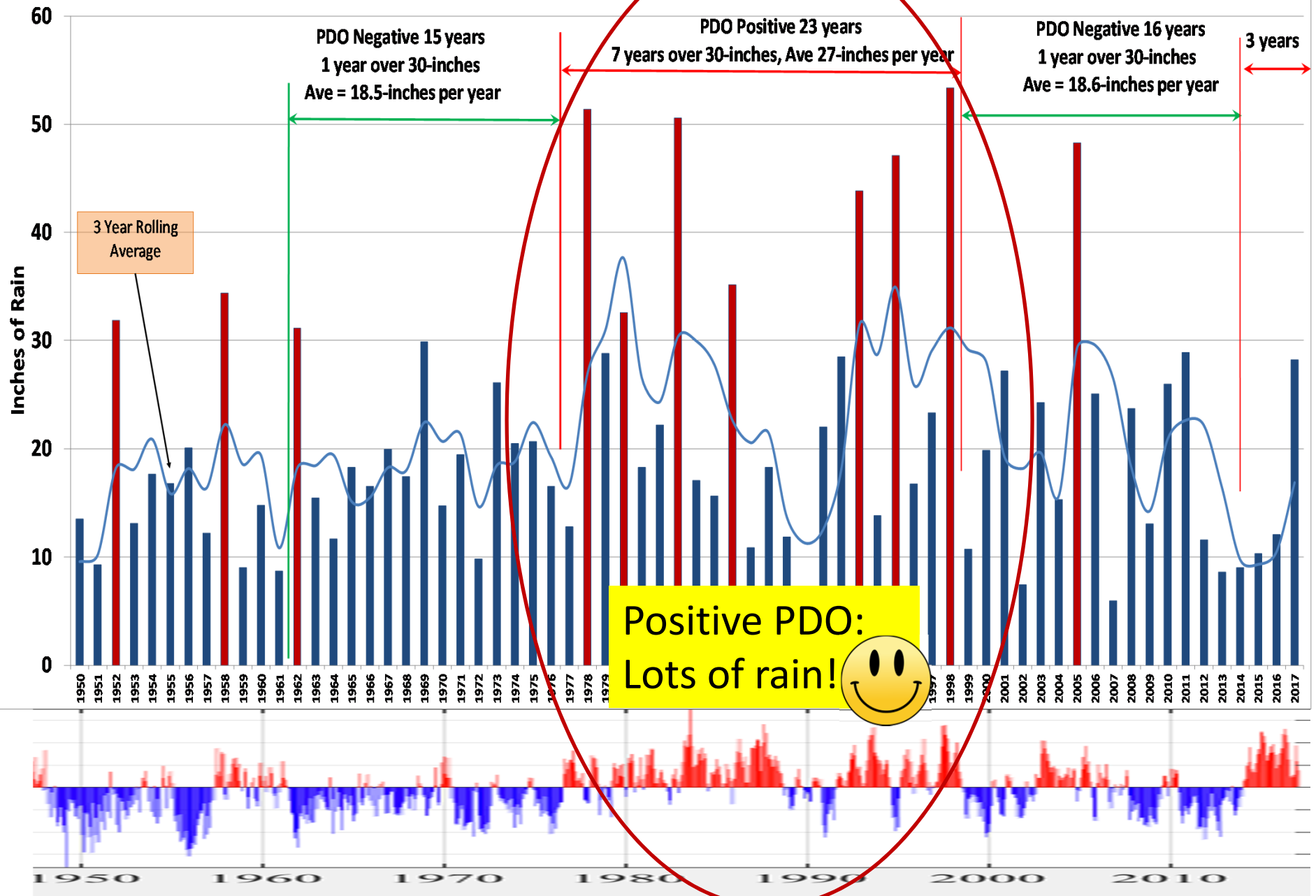


# Will it Rain This Year???

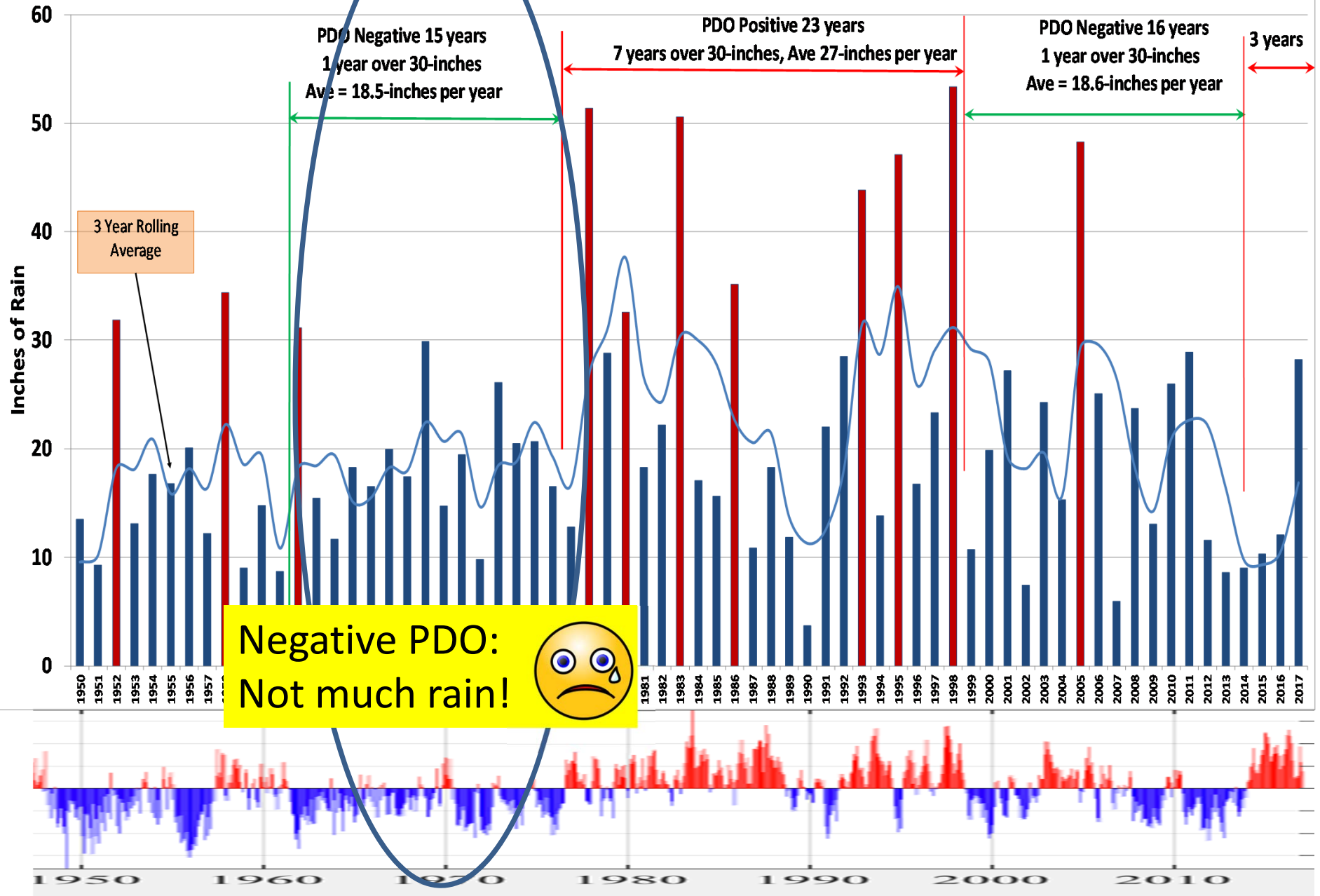




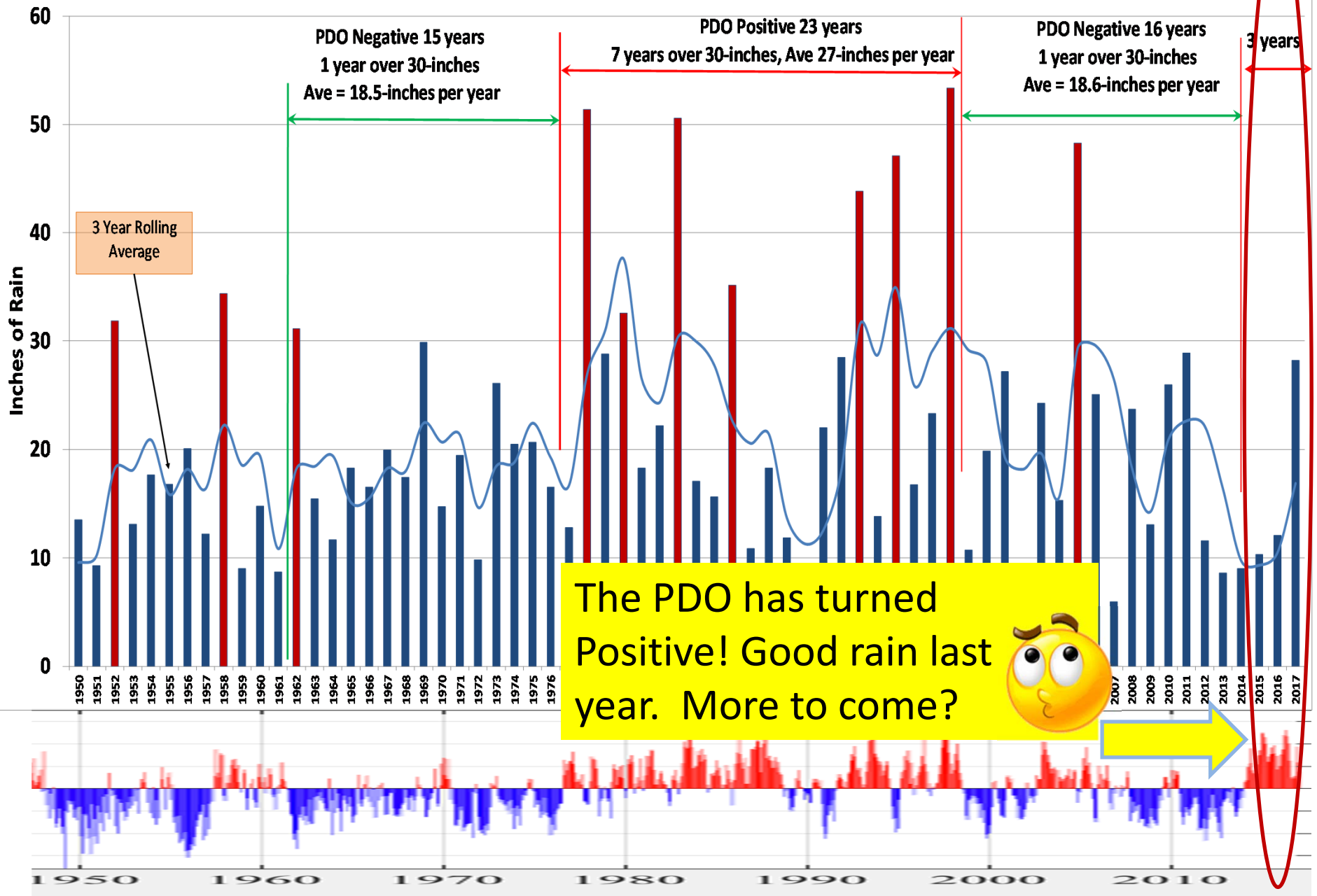
# Correlation: Annual Rainfall in Ojai and Pacific Decadal Oscillation Ventura River @ Hwy 150: 1950 to 2017



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# Why Water Budgets?

- To increase water conservation
- State encouraged
- State water budgets coming for water providers
- Helps customers understand how much water they need

# Water Budget Overview

- Purpose: educate on water needed verses used.
- Water budgets establish a monthly water budget for each residential customer.
- Your Water Budget includes:  
Health & Safety + livestock + landscaping:



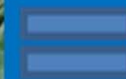
Health & Safety  
10 units/month



15 gal/livestock/day  
0.6 units/month



Varies per  
landscape

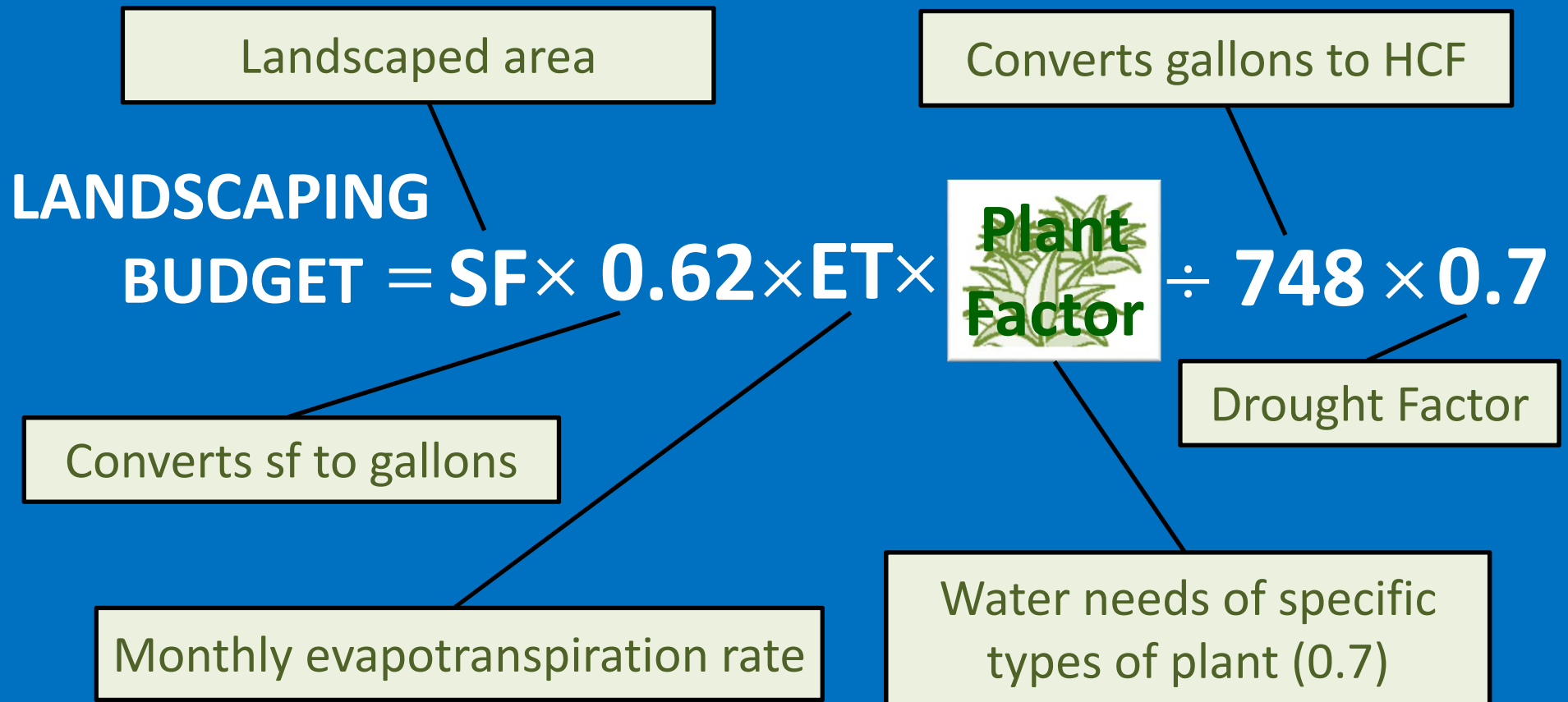




# Water Budget Overview

- Landscaping budget changes monthly.
- Water Budget Letter sent November 25, 2017 includes your Stage 3 drought usage and Stage 3 drought Water Budget.
- Customers can apply for revisions to water budgets.
- At this time water savings cannot be carried forward to future months.

# Water Budget for Landscaping



# Evapotranspiration per Month

Evapotranspiration Monthly Budget												
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
% of Annual Irrigation Need	0.02	0.02	0.02	0.10	0.10	0.12	0.17	0.17	0.12	0.05	0.05	0.05

- Average values developed by Casitas for the Ojai Valley
- FYE 2017 total ET = 54.64 inches  
(i.e. July ET =  $54.64 \times 0.17 = 9.29$  inches)
- Plant Factor 0.7 = mixed landscape with some grass and some native plants

# Eagle Aerial Landscape Classifications

## Legend

-  1 Impervious
-  2 Swimming Pools
-  3 Irrg. Non-Turf
-  4 Irrg Turf-Lawn
-  5 NL-NV
-  6A Non-Irrg Turf-Pasture
-  6B Non-Irrg. Bare
-  6C Non-Irrg. Vegetation
-  7 Artificial Turf
-  8 Horse Corrals-Arenas
-  9 Open Water
-  10 Agriculture

- VRWD Categories for Outdoor Water Budgets:
  - 2. Swimming Pools
  - 3. Irrigated Non-Turf
  - 4. Irrigated Turf-Lawn
  - 6A-C. Irrigable Areas but not Irrigated
  - 8. Horse Corrals/Arenas
  - 10. Agriculture

## SMALL LOT EXAMPLE – Water Budget

**Lot Size: 10,197 square feet (0.2 acres)**

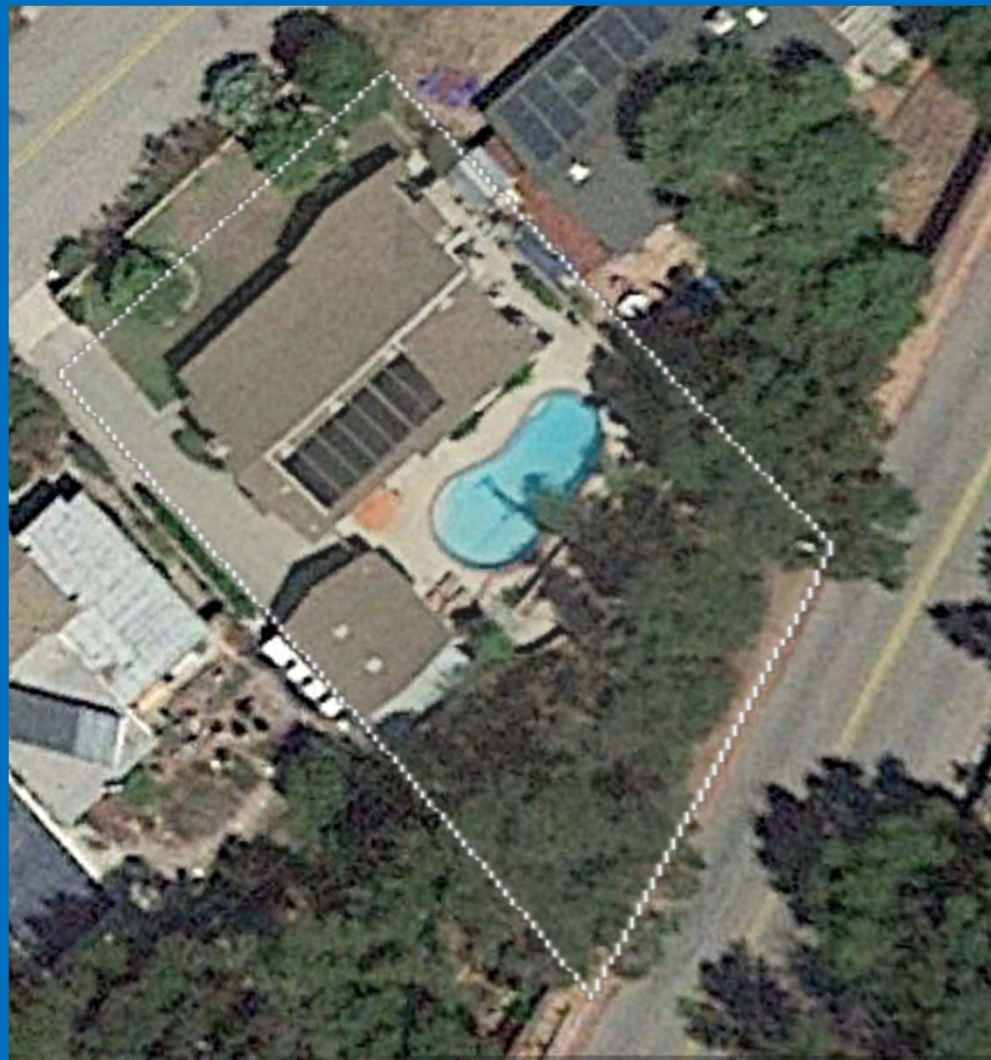
**July Budget:**

**$10 + 20 = 30$  HCF/Month**

**February Budget:**

**$10 + 3 = 13$  HCF/Month**

(Water budget reduced by drought factor of 30%)



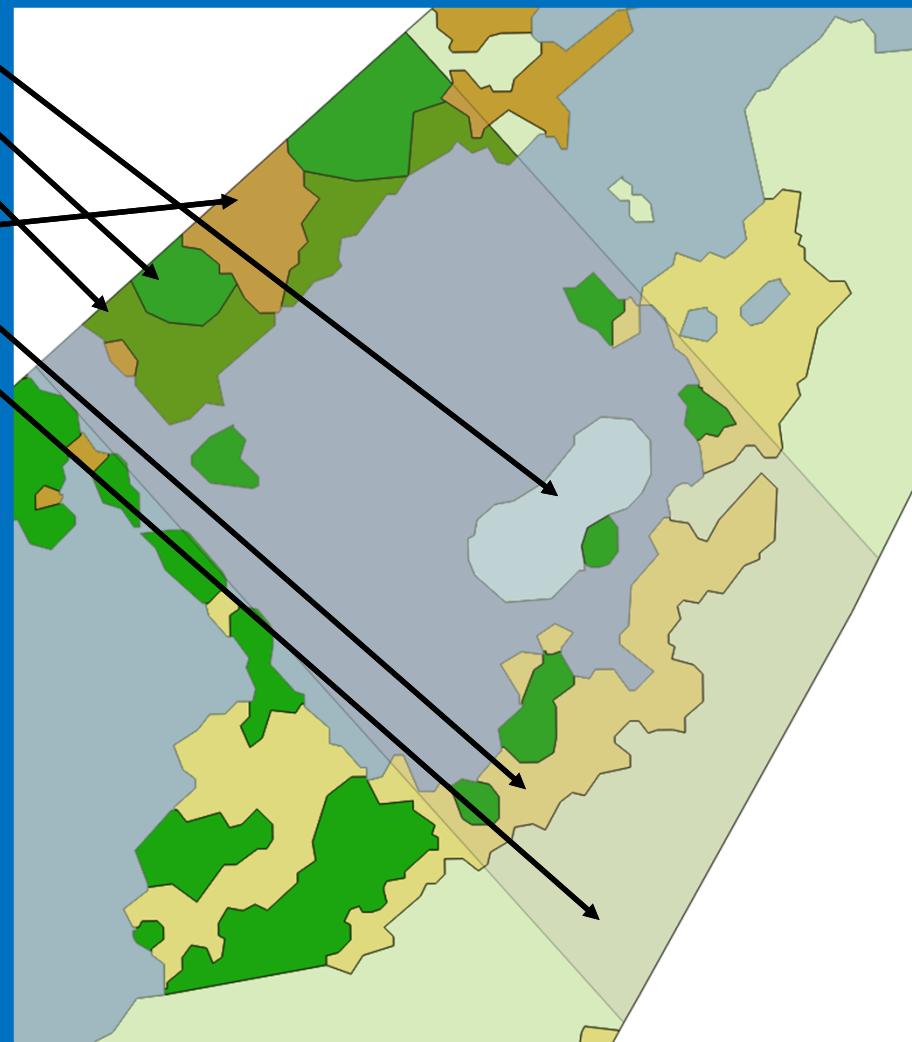


# SMALL LOT EXAMPLE – Water Budget

	sf
2. Swimming Pools	457
3. Irrigated NonTurf	860
4. Irrigated Turf/Lawn	585
6A. Non-Irrigated Turf/Lawn	347
6B. Non-Irrigated Bare Earth	966
6C. Non-Irrigated Vegetation	1,969
Total:	5,184

## Legend

- 1 Impervious
- 2 Swimming Pools
- 3 Irrg. Non-Turf
- 4 Irrg Turf-Lawn
- 5 NL-NV
- 6A Non-Irrg Turf-Pasture
- 6B Non-Irrg. Bare
- 6C Non-Irrg. Vegetation
- 7 Artificial Turf
- 8 Horse Corrals-Arenas
- 9 Open Water
- 10 Agriculture



**Water Budget (July): 20 HCF =**

$$\frac{5,184 \times 0.62 \times (0.17 \times 54.64) \times 0.7}{748} \times 0.7$$

## LARGE LOT EXAMPLE – Water Budget

**Lot Size: 95,507 square feet (2.2 acres)**

**July Budget:  $10 + 84 = 94$  HCF/Month**

**February Budget:  $10 + 10 = 20$  HCF/Month**

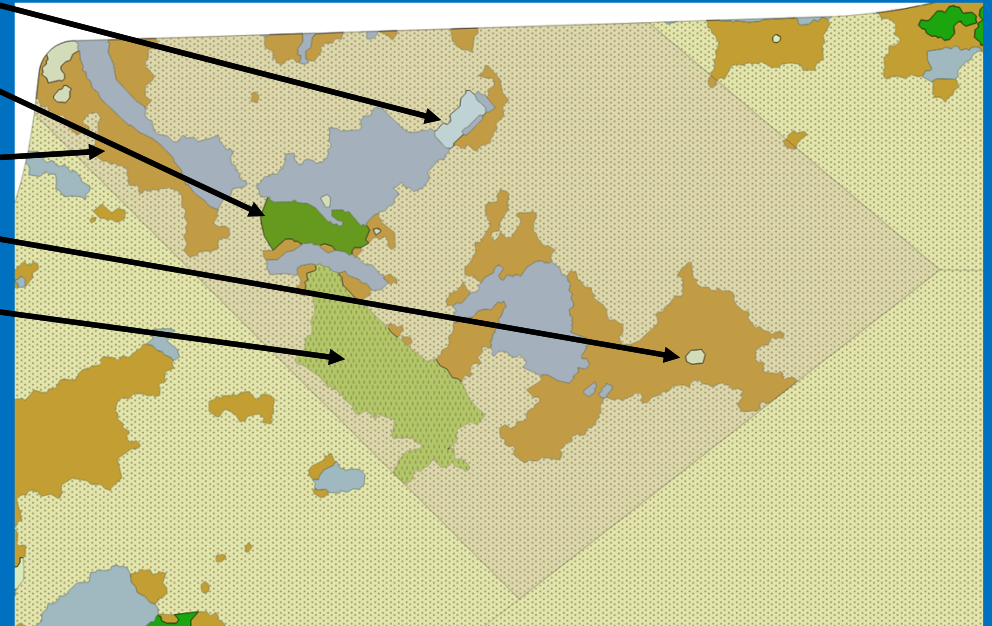
(Water budget reduced by drought factor of 30%)



# LARGE LOT EXAMPLE – Water Budget

2. Swimming Pools	407
3. Irrigated Turf	1,230
6A. Non-Irrigated Turf/Lawn	14,719
6C. Non-Irrigated Vegetation	455
10. Agriculture	5,478
Total:	22,289

sf



## Legend

- 1 Impervious
- 2 Swimming Pools
- 3 Irrg. Non-Turf
- 4 Irrg Turf-Lawn
- 5 NL-NV
- 6A Non-Irrg Turf-Pasture
- 6B Non-Irrg. Bare
- 6C Non-Irrg. Vegetation
- 7 Artificial Turf
- 8 Horse Corrals-Arenas
- 9 Open Water
- 10 Agriculture

$$\text{Water Budget (July): } 84 \text{ HCF} = \frac{22,289 \times 0.62 \times (0.17 \times 54.64) \times 0.7}{748} \times 0.7$$



# If your Budget is too large or too small:

- Apply for a modification
  - Complete modification form: Office or Website:  
[www.VenturaRiverWD.com](http://www.VenturaRiverWD.com)
  - Indicate number of livestock
  - Indicate if there are additional dwelling units on the property
  - Indicate the square footage of normal water year landscaping, ie. lawn-irrigated & lawn-not irrigated
- Draining your pool? We will adjust your budget.

# If you exceed your budget

- The penalty for usage up to 25% over budget will be \$0.50 per unit.
- Usage greater than 25% over budget will have a penalty of \$1.00 per unit.
- If you are under budget you cannot roll over the water savings to future months.

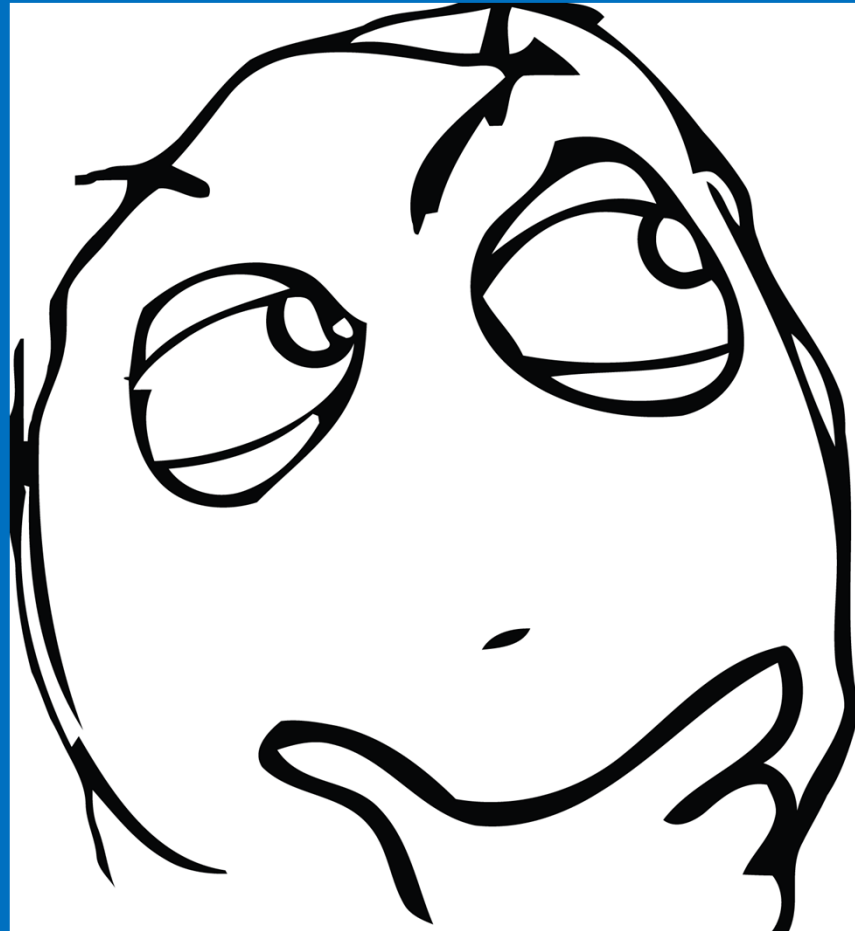


# GET CONNECTED

Log onto our website and:

- Review your water usage, payments and water budget (April 2018)
- Sign up for FREE Auto-Pay
- Sign up for paperless billing
- Change your mailing address or contact info
- E-mails on drought and water updates

# Questions on Water Budgets



# Water Rate Increase planned for 2018 through 2022

- A rate increase of about 6.2% per year is planned for the next 5 years.
- Plan to attend the protest hearing Thursday February 15, 2018 at 7:00 at the Oak View Resource Center Auditorium

# Implementation Schedule

ITEM

DATE

Protest Hearing

Feb 15, 2018

New rates in water bills

April 1, 2018

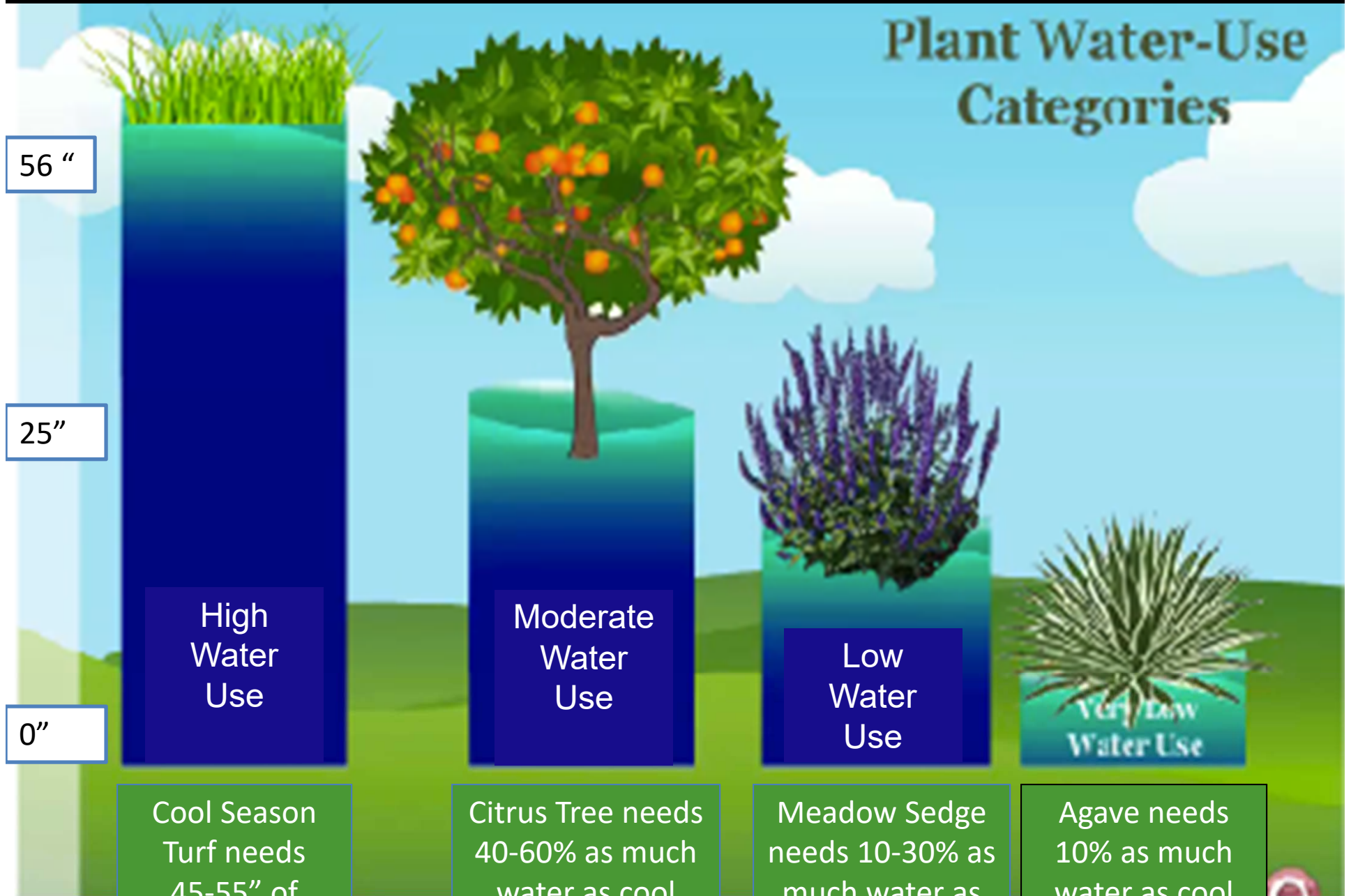
# Help to Conserve

- 6 Coupons for free Water Wise Site Evaluation  
Grey Water – Rain Water Capture – Low Water Landscape
- Casitas rebates:
  - Intelligent Irrigation Controllers \$250
  - High-Efficiency Washer \$150
  - High-Efficiency Toilet \$100
  - Free toilet flappers
  - Low water showerheads

How you landscape matters

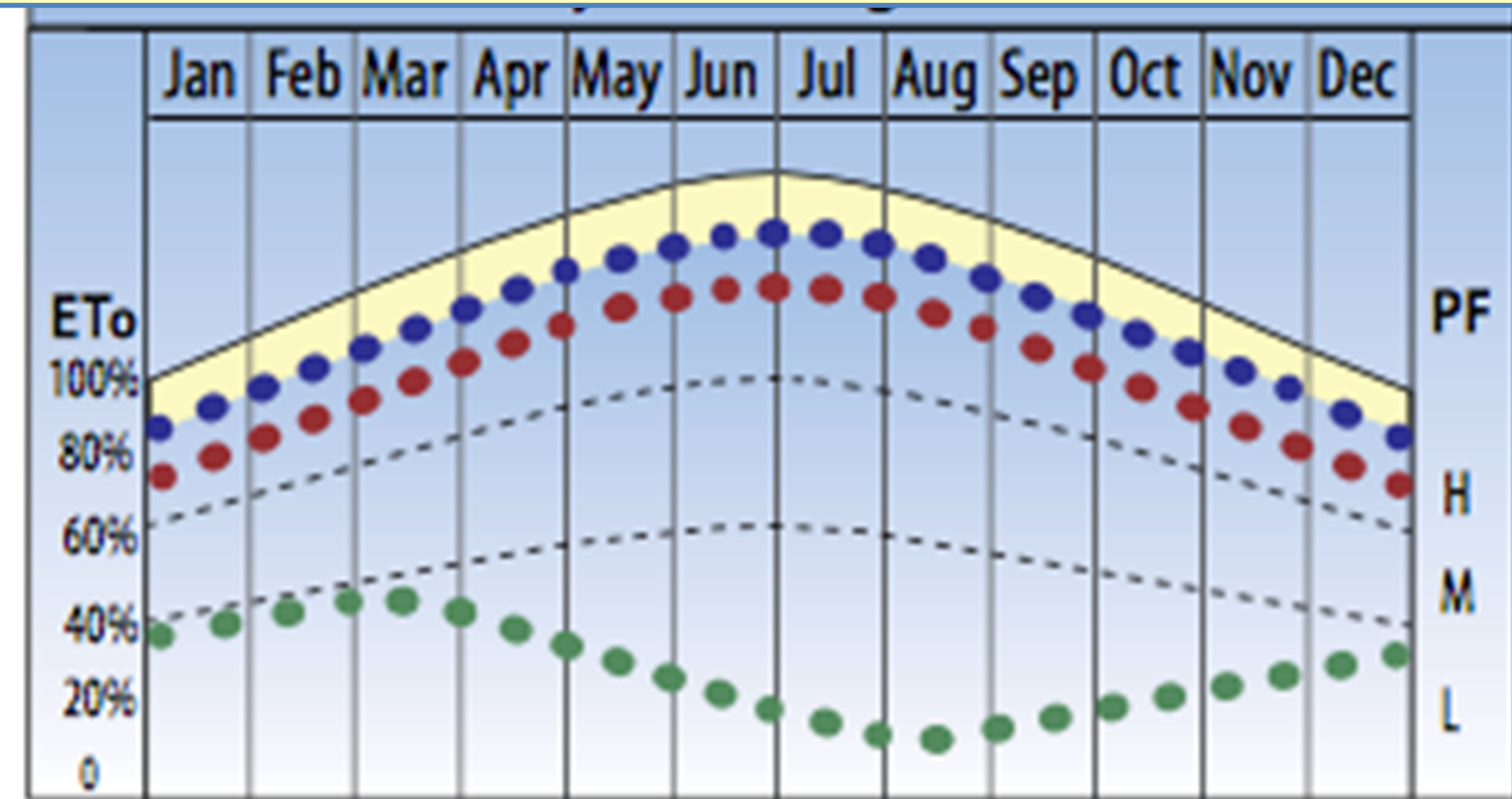
We were on vacation for two weeks. Why is my water bill so high?

## Plant Selection - Identify Your Landscape Target





# ETo Rates for Different Plant Factors



- ● ● ● Tall Fescue Turf Grass Lawn
- ● ● ● Citrus, Avocados, Fruit Trees
- ● ● ● California Native Plants



# Plant and Shade Alternatives to Turf









## Beautiful Gardens on Half the Water



Photo by Gardensoft









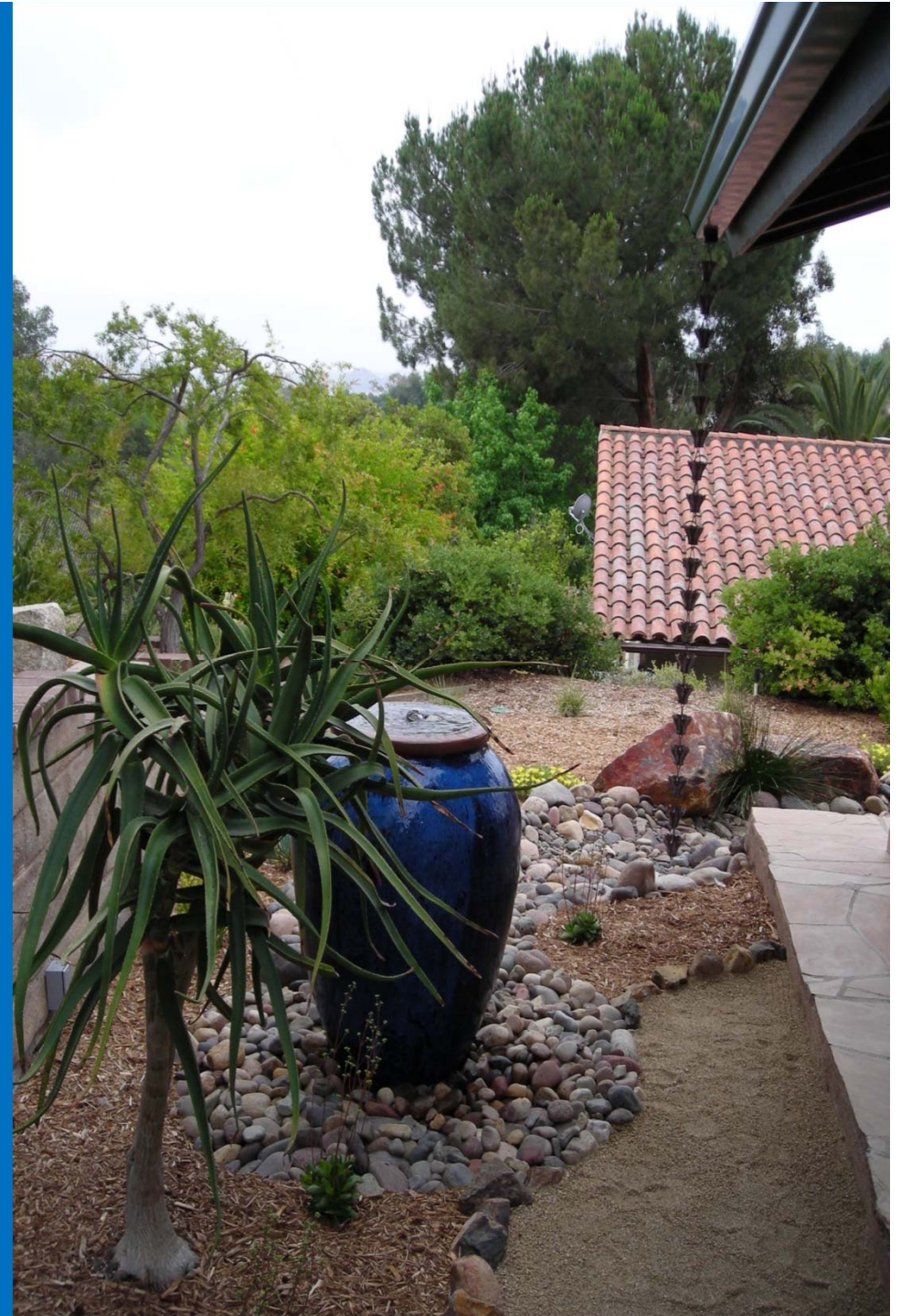














# Caution!

Some native plants will die if irrigated in the summer. Continuously moist soil allows a fungus to grow that kills some native plants that are used to dry soil in the summer.

After the two years of reducing establishment irrigation do not irrigate native plants more than once a month if ever.



Visit our website and get  
connected:

[www.VenturaRiverWD.com](http://www.VenturaRiverWD.com)