



2019 Upland's Water Supply

Public Works Department

May 2019



Upland's Sources of Water Supply

Local Ground Water

- Six Basins
- Chino Basin
- Cucamonga Basin

Local Surface Water

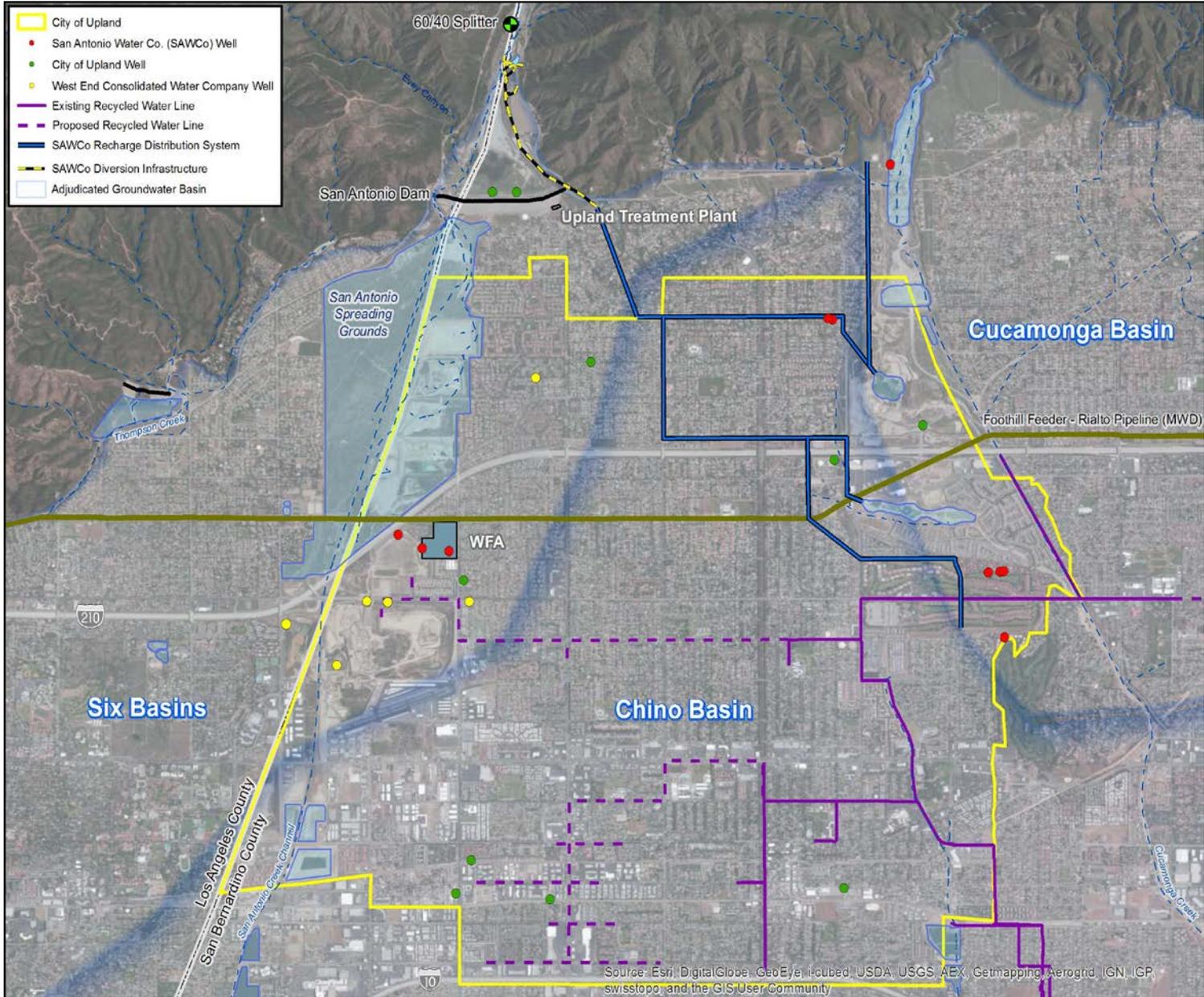
- San Antonio Canyon

Imported MWD Water (Northern California)

- State Project Water

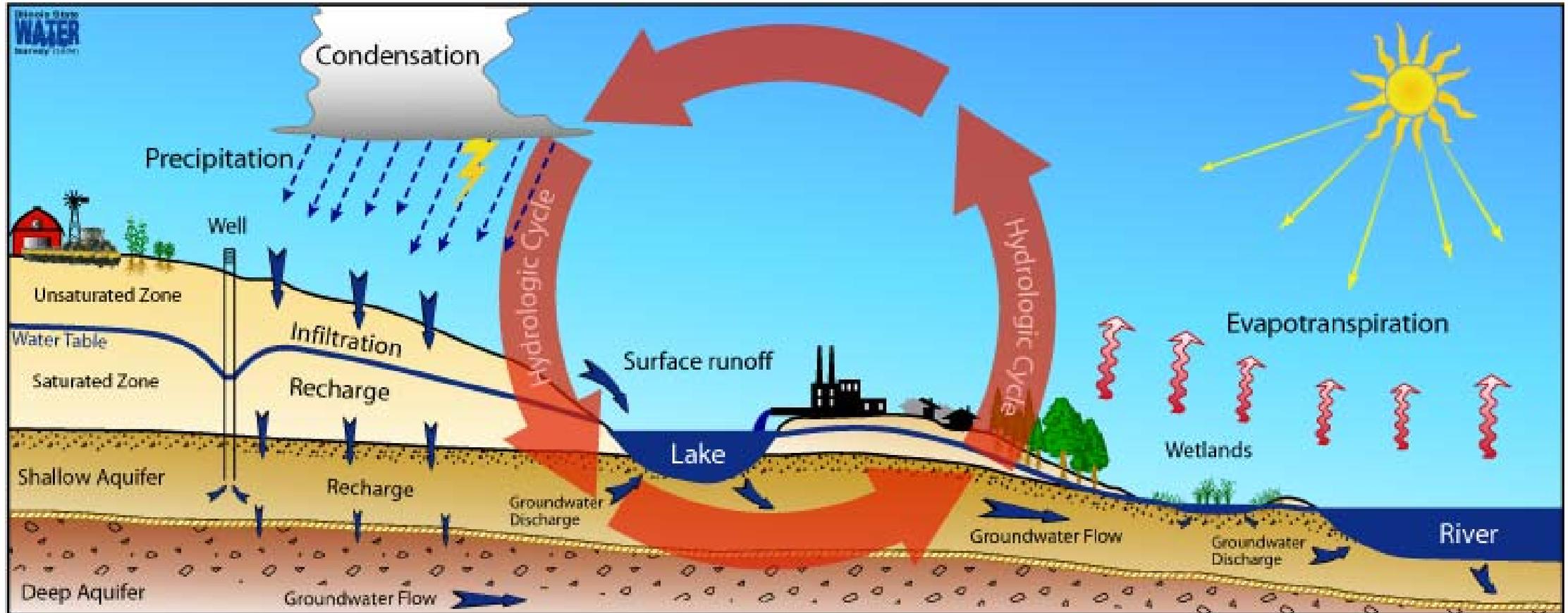
Recycled Water

- Inland Empire Utilities Agency





Hydrologic Cycle – Water Supply

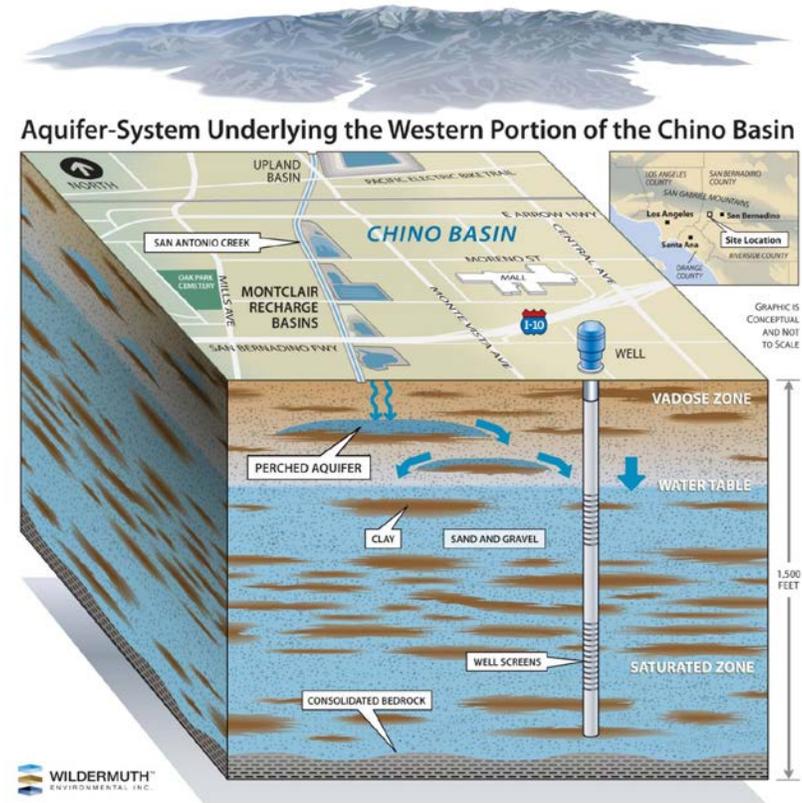




Local Groundwater

Well Capacity

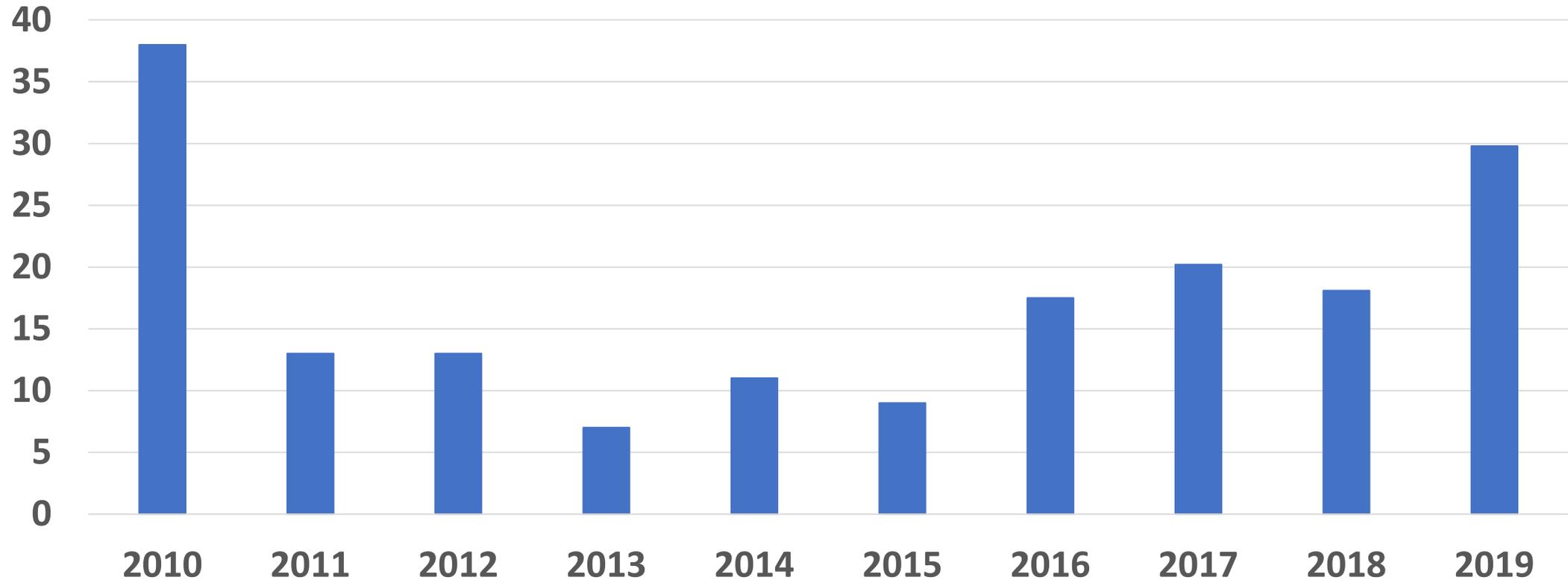
- Soil Conditions
(Sand & Gravel)
- Depth to Groundwater
- City/WECWCo.: 9 wells Six Basins
- City: 5 wells Chino Basin
- City/WECWCo.: 1 well Cucamonga





Yearly Precipitation

(Inches)

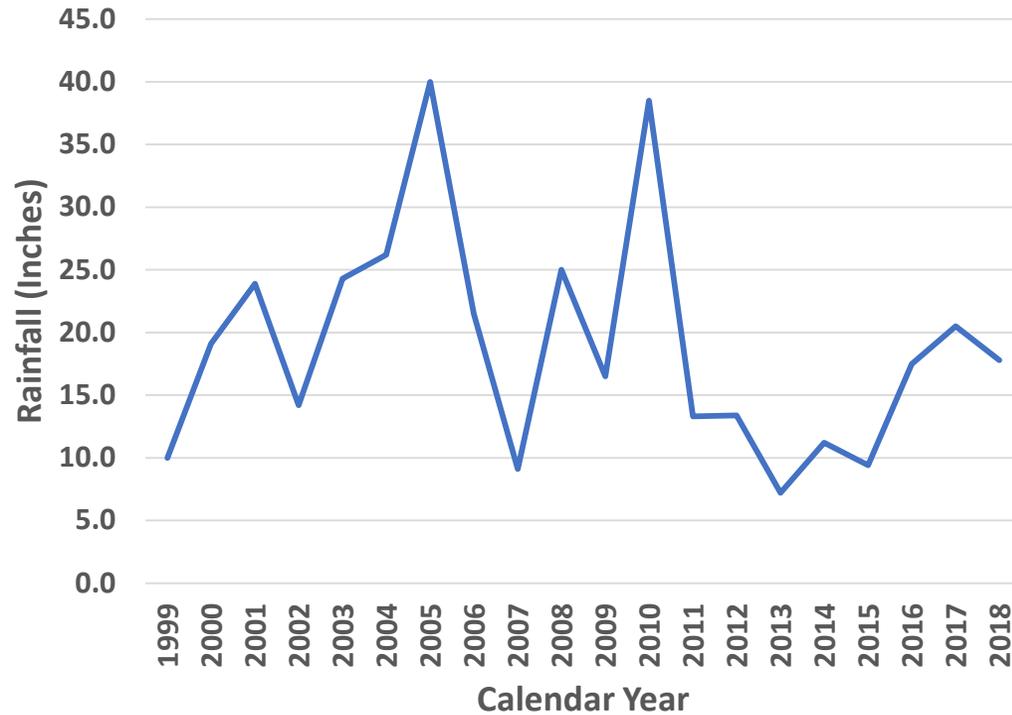




Six Basins (Groundwater)

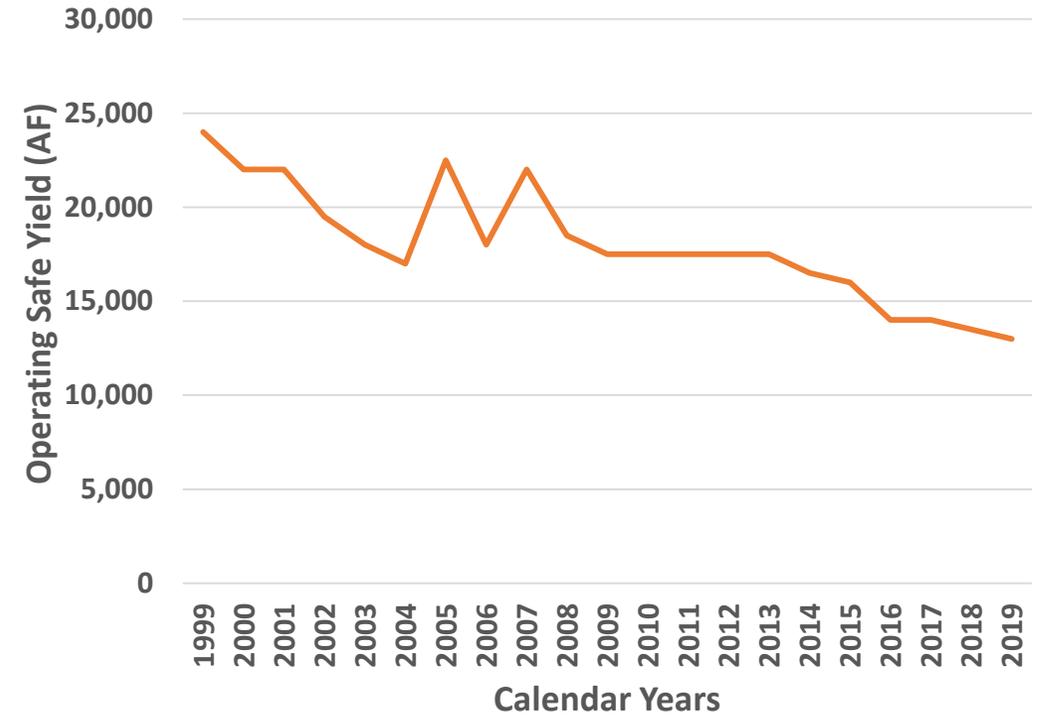
Annual Rainfall

Avg. Rainfall = 20"



Operating Safe Yield

(SY=19,300AF)





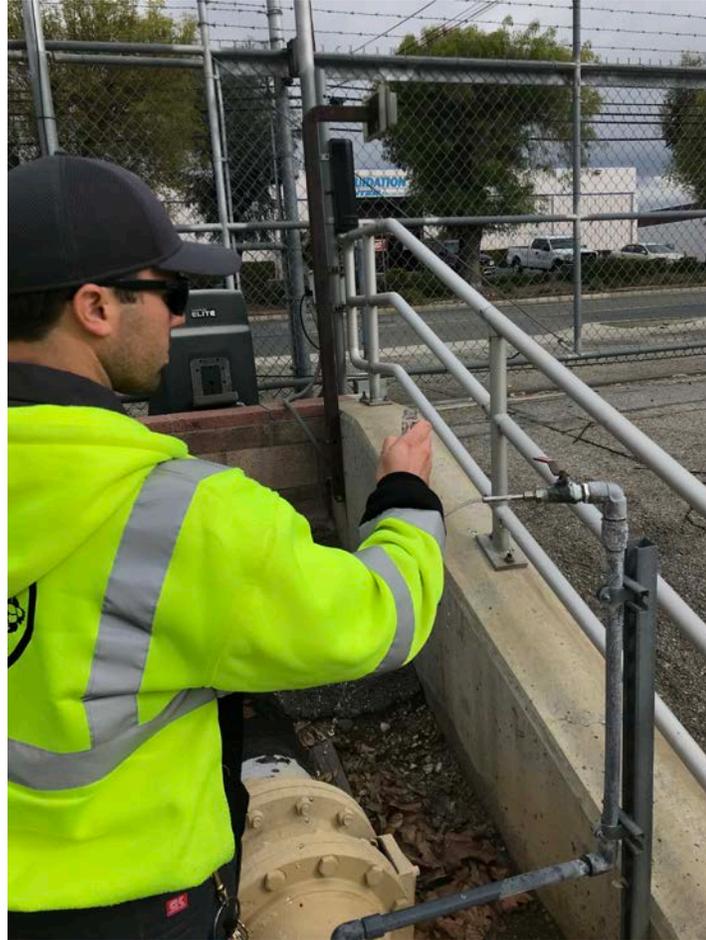
Water Well Facility





Water Supply Production & Testing

(Approximately 3,000 water quality tests per year)

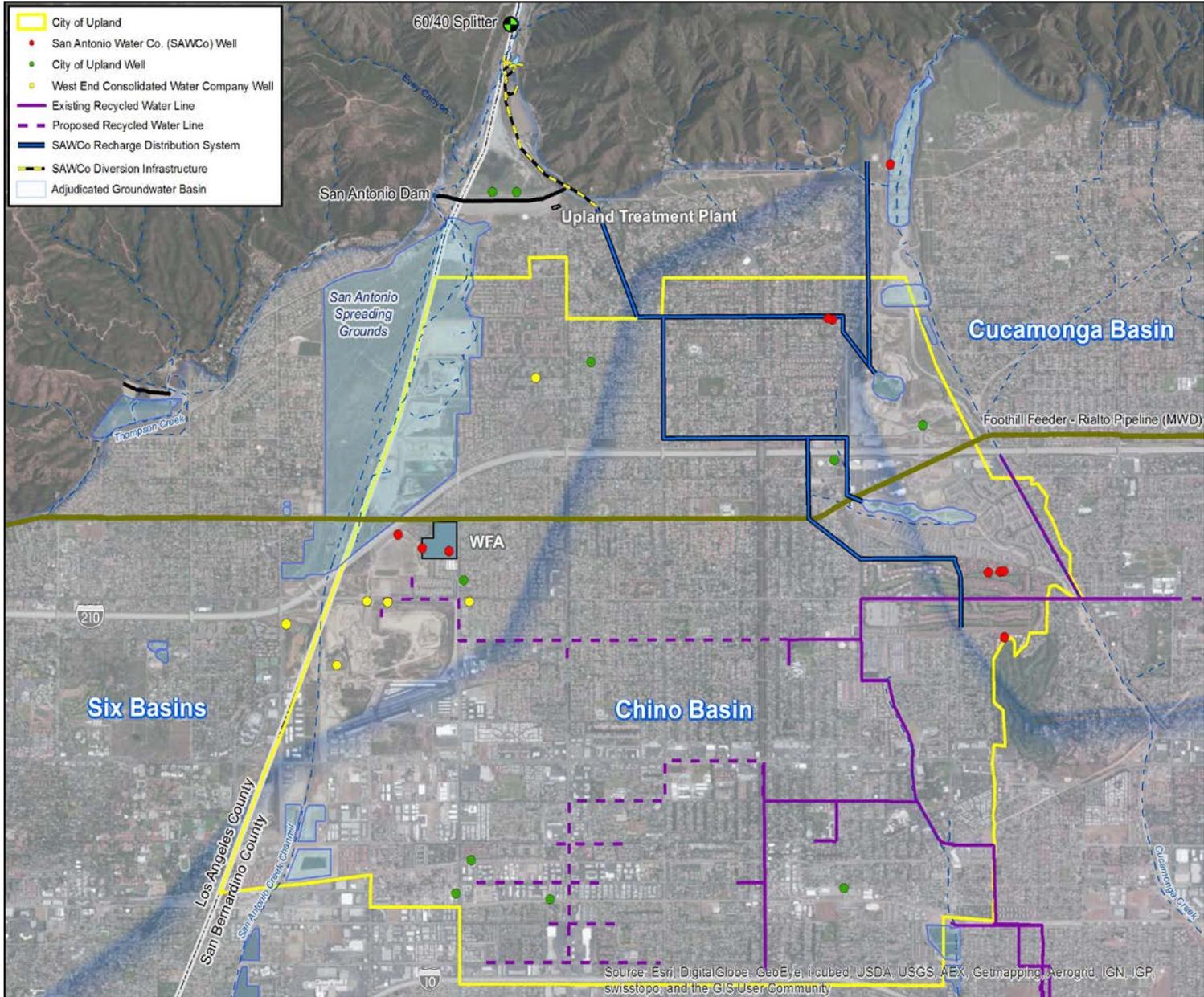




San Antonio Canyon Water Treatment Plant

(SAW - Local Surface Water)







2019 San Antonio Spreading Grounds

(Calendar Year to March 2019: 29" rain & 4,067AF recharge)





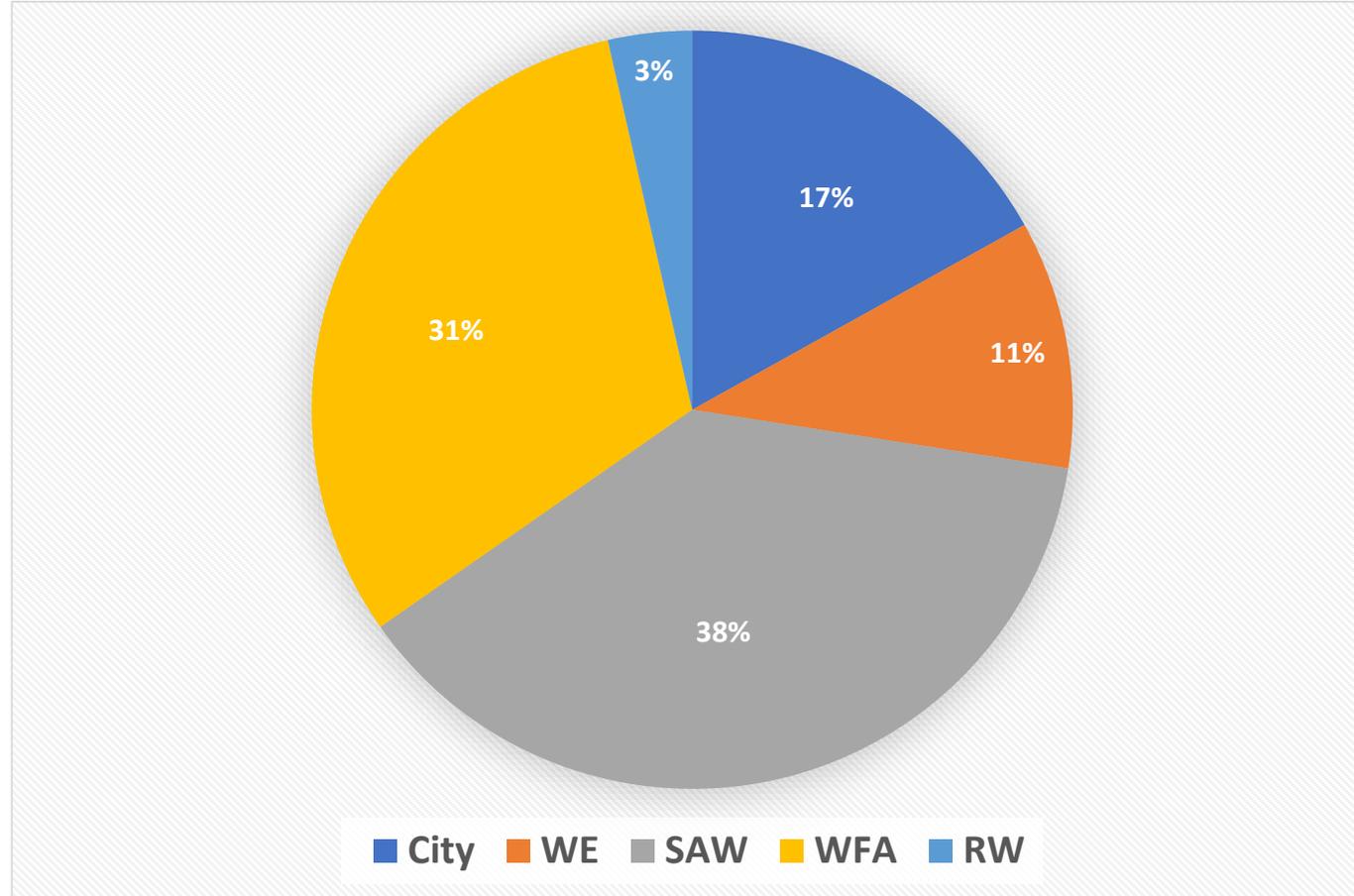
2019 Cucamonga Basin & Crosswalls





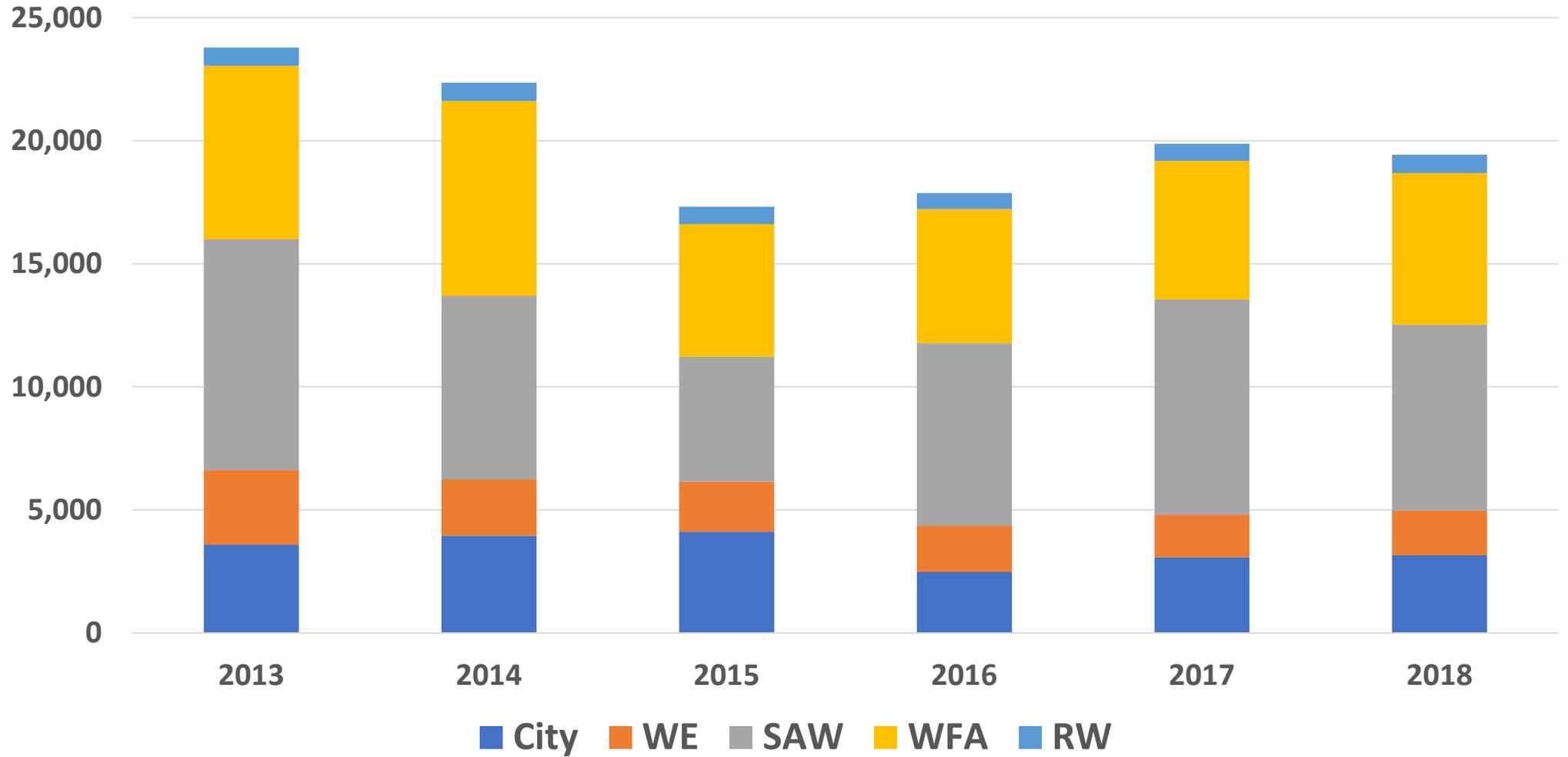
Upland Water Supply by Source

(Average 2013-2018)





Yearly Water Use by Source (AF)





WFA – Imported Water Treatment Plant





WFA- Imported Water Treatment Plant





2018 Community Daily Water Demands

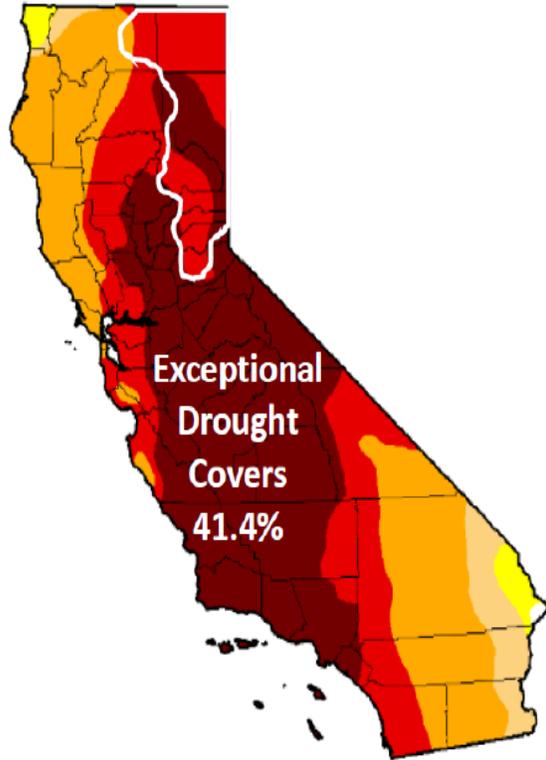
- **Maximum Day** **25,720,400 gallons per day**
- **Average Day** **15,689,685 gallons per day**
- **Minimum Day** **7,251,000 gallons per day**



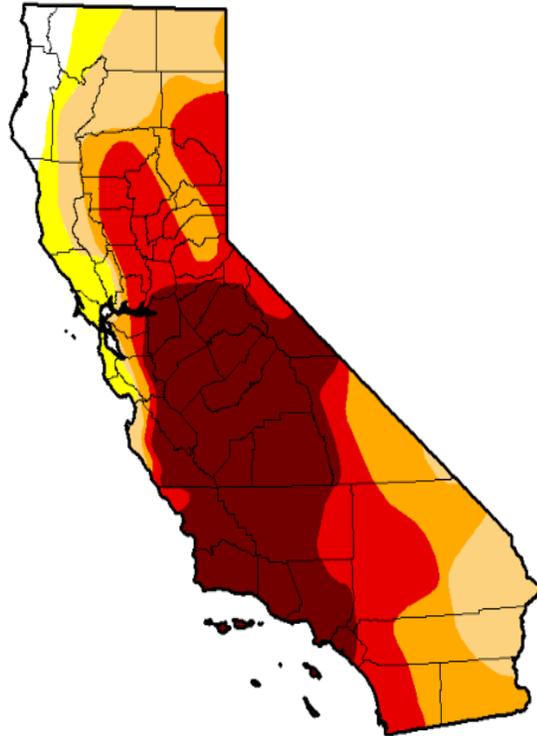
Southern California Climate

Extended Droughts (Broad State Overview)

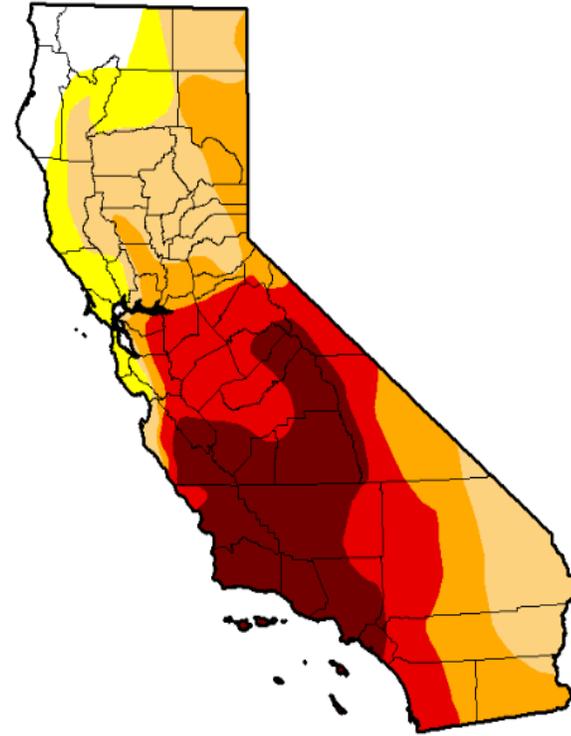
May 2015



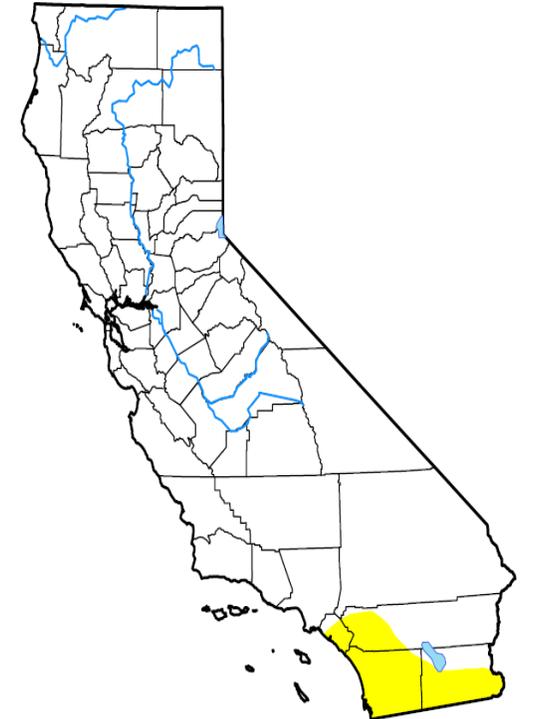
April 2016



April 2017



April 2019





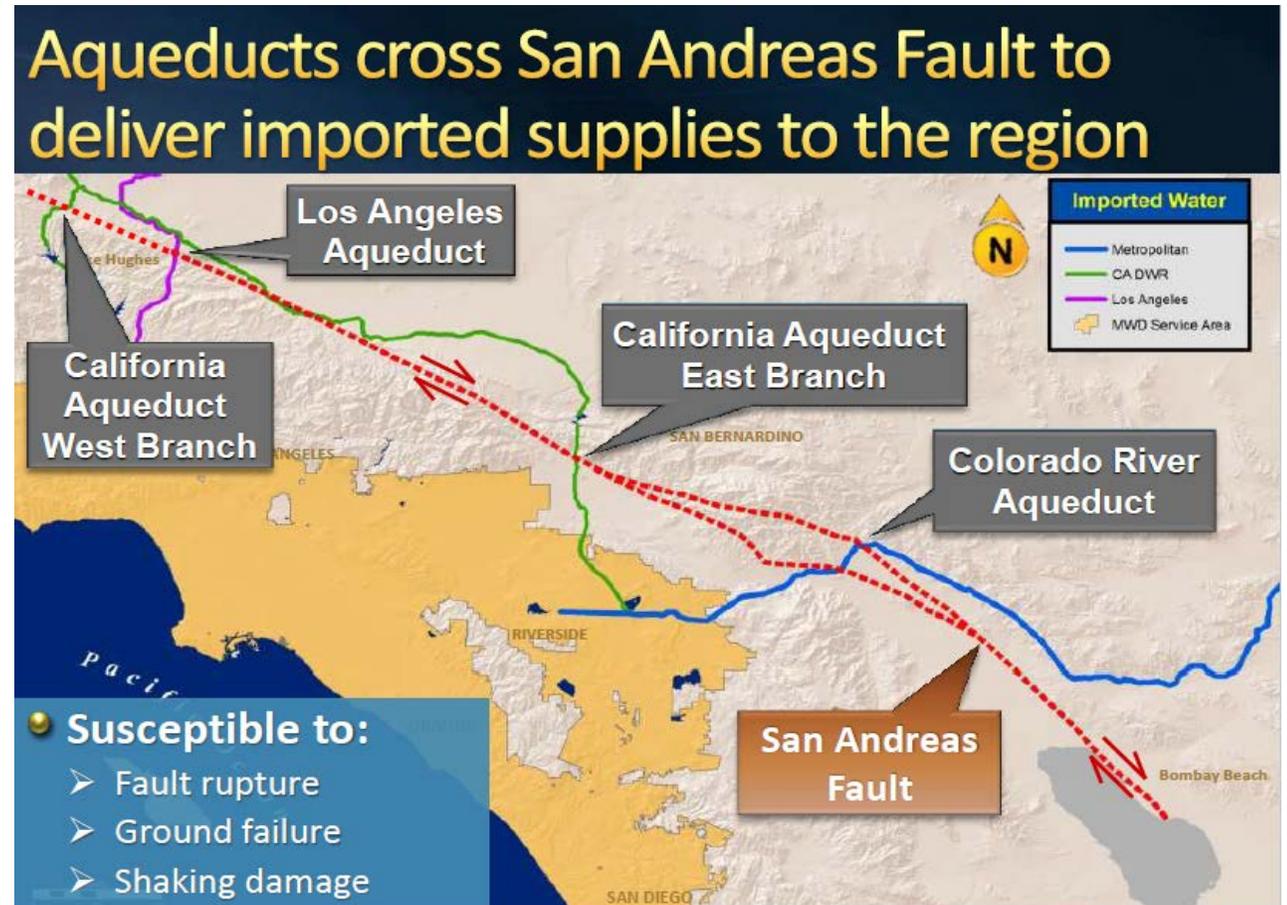
Understanding Water Supply Needs & Vulnerabilities - Emergency Planning

MWD's Emergency Storage

- 630,000 AF – is this still the right amount?

Draft Criteria Recommendations

- Outage periods: 6 – 18 months
 - Depending on location within MWD Service area
- Retail Demand Cutback: 25% - 35%





Working On Water Supply & Delivery Threats

➤ **Water Availability**

- **MWD Water availability**
 - **Emergency**
 - **Allocation**
- **Local Water, Limited (Drought Conditions Persist)**
- **Water Quality**

➤ **Water System Investment**

- **Water Supply Reliability**
 - **New Local Water Supply**
 - **Water Treatment**
- **Water Supply Storage Rehabilitation**
- **Water Pipeline Replacements**



PUBLIC WORKS DAY

In honor of National Public Works week, the City of Upland's Public Works Department will be opening its doors to the community!

*Saturday, May 18, 2019
9:00 a.m. – 1:00 p.m.
1370 N. Benson Ave, Upland*



Upcoming Upland Water Smart Workshops

Our workshops are all free and open to all. All workshops will take place from 9am-12pm at Upland Historical Carnegie Library: 123 E. D Street Upland, CA.

- **June 15, 2019: Turf Removal Workshop**
- **July 20, 2019: Smart Irrigation Timer Workshop**
- **Aug. 24, 2019: Turn Spoil into Soil Compost Workshop**
- **Oct. 12, 2019: Water Smart Native & Edibles Garden Workshop**

To reserve your space please call (909) 291-2935 or email: MMadriz@ci.upland.ca.us.

For more information on our workshops, rebates, and programs please visit

https://www.ci.upland.ca.us/#Water_Conservation.



SAN ANTONIO CANYON WATERSHED'S JOIN US FOR THE 15TH ANNUAL CLEAN-UP DAY

SATURDAY, JULY 13, 2019 9:00A.M.-11:00A.M.

All clean up & safety materials will be provided.

For additional info. call (909) 257-1061

FREE lunch, snacks, & refreshments

Calling all Volunteers!

Fun opportunity for students & scouts to earn community service hours.

**MEET AT:
SHINN ROAD - MT. BALDY
ACROSS FROM
FIRE STATION 25
AT 3000 N. MOUNTAIN
UPLAND, CA**





Water Saving Rebates & Programs

Rebates*

- **High-Efficiency Toilets:** \$100 on premium WaterSense 1.1 gallons per flush on qualifying models
- **High-Efficiency Clothes Washers:** \$160 on must meet or exceed the CEE Tier 1 standard
- **Turf Replacement Rebate:** Receive a \$2.50 per square foot, up to \$12,500 rebate
- **Rotating Sprinkler Nozzle:** \$5 each minimum quantity 30 nozzles on qualifying models
- **Rain Barrels:** \$35 on 50-199 gallons (max. 2 per household)
- **Rain Cisterns:** \$250-\$350 on 200-1000+ gallons (max. 1 per household)

Programs*

- **Landscape Efficiency House Call:** Landscape evaluation/audit of your outdoor irrigation system and accurate profile of your water consumption Call for appointment (909) 626-2711
- **Small Site Controller Upgrade Program (Properties less than 10,500 sq. ft.)**
- **Larger Landscape Retrofit Program (Properties 10,500 sq. ft. +)**
- **Landscape Design Services:** Assistance creating a custom low water use landscape design for your front & back yard. For appointment please call (909) 626-2711
- **Pressure Regulator Valve (PRV) Install Program:** Assists customers with high water pressure in the home.

For water conservation questions please call Michelle Madriz (909) 291-2935 or email: Mmadriz@ca.upland.ca.us.

** Rules, requirements, and restrictions apply. For detailed information, please contact the City of Upland Public Works Department at (909) 291-2935. Please note: Rebate levels are subject to change at any time.*



Questions?