

CC 7-22-2021

#1

Drought and Water
Conservation

Presentation

Drought Status and Municipal Water Conservation Measures

July 20, 2021



CUPERTINO

Agenda:

- Drought Status
- Drought Impacts to Valley Water
- Where Municipal Water is used
- How much Municipal Water is consumed
- Water Conservation Measures for Municipal Water Use
- Water Retailers Actions
- Next Steps
- Input / Questions

Drought Status

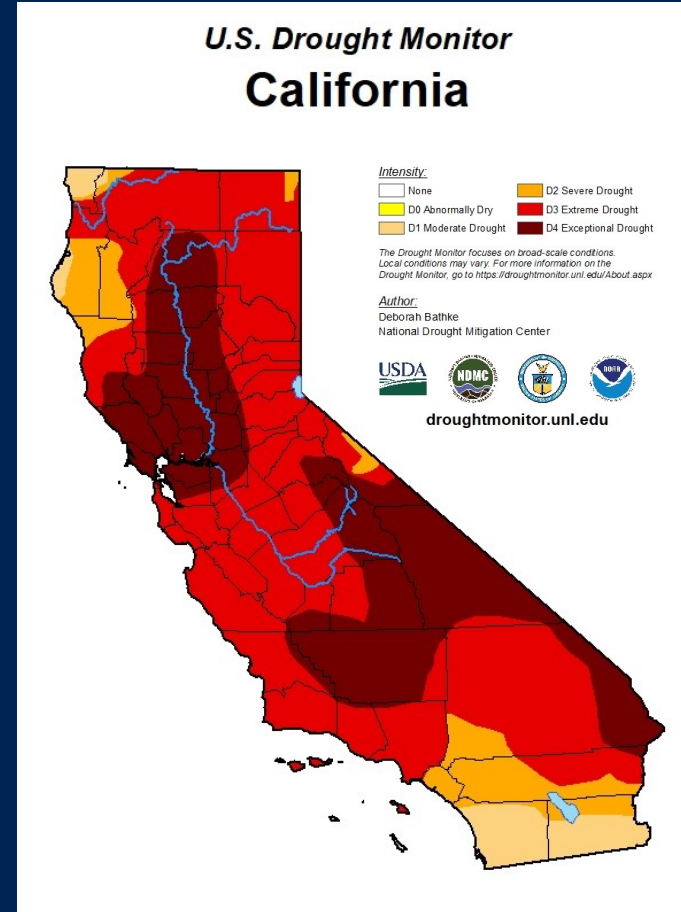
April 21 – Governor Newsom Drought Proclamation – Mendocino, Sonoma Counties

May 10 – Governor expanded Drought Proclamation to 41 Counties, including Alameda County. Santa Clara County not included.

May 25 – U.S. Drought Monitor: Santa Clara County in Extreme Drought

June 9 – Water use restrictions by Valley Water

July 8 – Governor issued Executive Order N-10-21

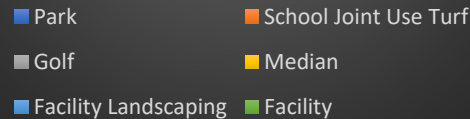
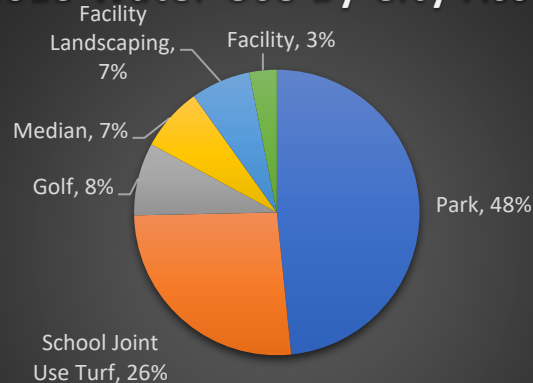


Drought Impacts to Valley Water

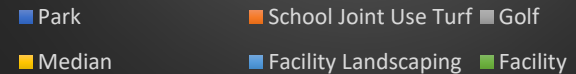
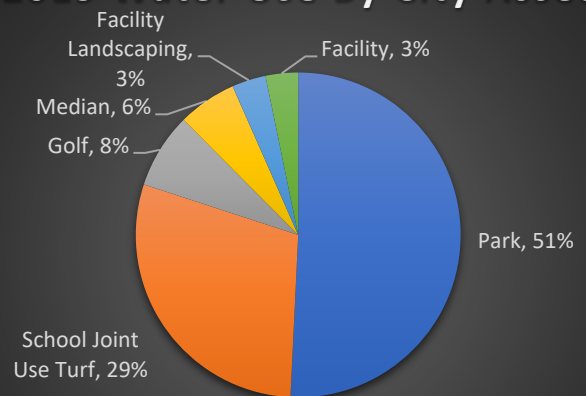
- Low local water supplies
- Low imported water allocations
- Anderson Reservoir
- Coyote Reservoir
- Groundwater
- Special Meeting on June 9, 2021
 - Imposed 15% of 2019 Water Use (33% of 2013 Water Use)

Where Municipal Water is used (2013 vs 2019)

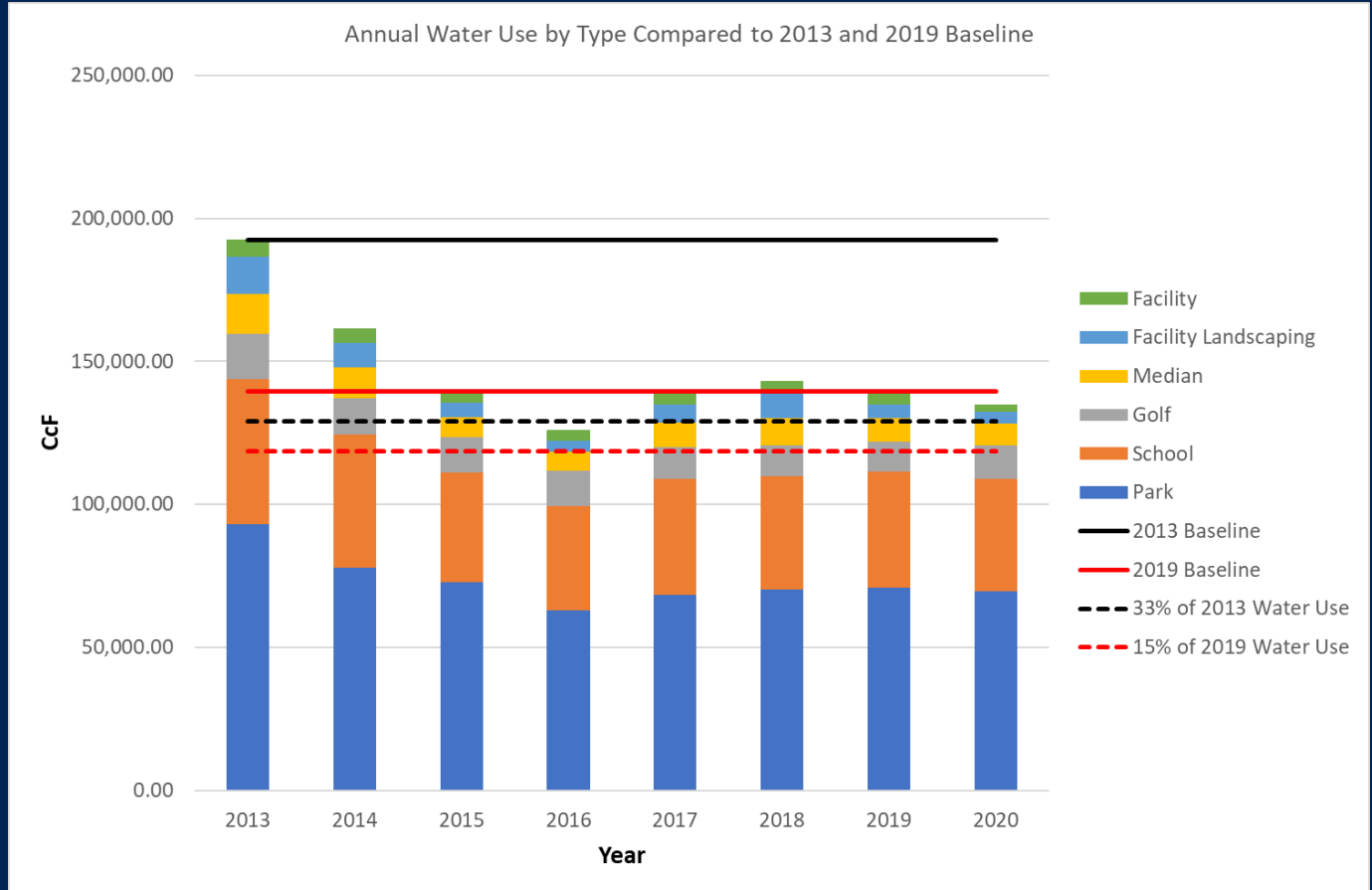
2013 Water Use By City Asset



2019 Water Use By City Asset



How much Municipal Water is consumed (2013 vs 2019)



Water Conservation Measures for Municipal Water Use

- City Ordinance 15.32 – Water Conservation
- 2015 Water Conservation Measures
- Partnered with Valley Water and water retailers to offer rebates (Graywater - Laundry to Landscape, Landscape Conversion and Rainwater Capture)
- Achieved 31% below 2013 consumption baseline during 2015 drought event

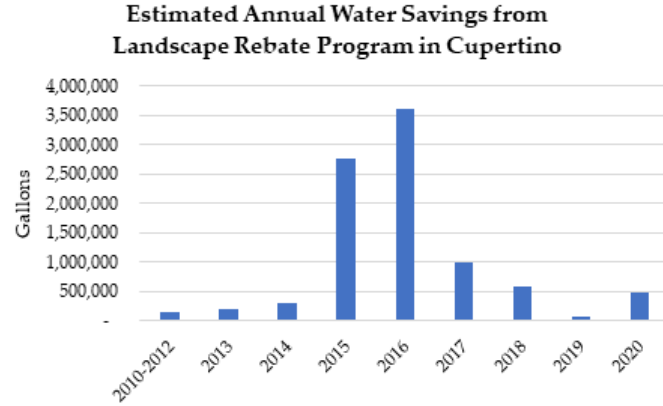
Water Conservation Measures for City Operations

Stage #	Condition	Action
1	No drought conservation measures required	None
2	Reduction < 10%	Reduce water programming of all outside irrigation by a minimum of the conservation amount
3	10% < Reduction < 20%	<ul style="list-style-type: none"> • Reduce water programming of all outside irrigation by a minimum of the conservation amount • No filling of pond at Memorial Park • Reduce operational hours of interactive fountain at Community Hall from 10am-8pm to Noon-6pm • Water used to clean asphalt areas/sidewalks/plaza areas to be minimized and follow stormwater requirements
4	20% < Reduction < 40%	<ul style="list-style-type: none"> • Reduce water programming of all outside irrigation for trees/shrubs by a minimum of the conservation amount • Large and/or desirable species to have priority over less desirable species • No watering of turf used passively • Limited watering (consistent with 2 days/week watering or similar) of turf areas used intermittently by City permitted events • A minimum of 20% reduced watering of turf areas programmed by City or school recreation events • Each facility will be managed in accordance with the area defined in Attachment A. <ul style="list-style-type: none"> • No filling of ponds at Memorial Park • No operation of the interactive fountain at Community Hall • No water used to clean asphalt areas/sidewalks/plaza areas • Water used for street sweeping to be minimized while complying with Santa Clara Valley Air Board requirements
5	Reduction > 40%	<ul style="list-style-type: none"> • Reduce water programming of all outside irrigation for trees/shrubs by a minimum of the conservation amount • Large and/or desirable species to have priority over less desirable species • No watering of turf unless required to maintain safe conditions • No filling of ponds at Memorial Park • No operation of the interactive fountain at Community Hall • No water used to clean asphalt areas/streets/sidewalks/plaza areas • Water used for street sweeping to be minimized while complying with Santa Clara Valley Air Board requirements

Stage 4 (20%<Reduction<40%)

- Reduce water programming of all outside irrigation for trees/shrubs by a minimum of the conservation amount
- No watering of turf used passively
- Limited watering (consistent with 2 days/week watering or similar) of turf areas used intermittently by City permitted events
- A minimum of 20% reduced watering of turf areas programmed by City or school recreation events
- No filling of ponds at Memorial Park
- No operation of the interactive fountain at Community Hall
- No water used to clean asphalt areas/sidewalks/plaza areas
- Water used for street sweeping to be minimized while complying with Santa Clara Valley Air Board requirements

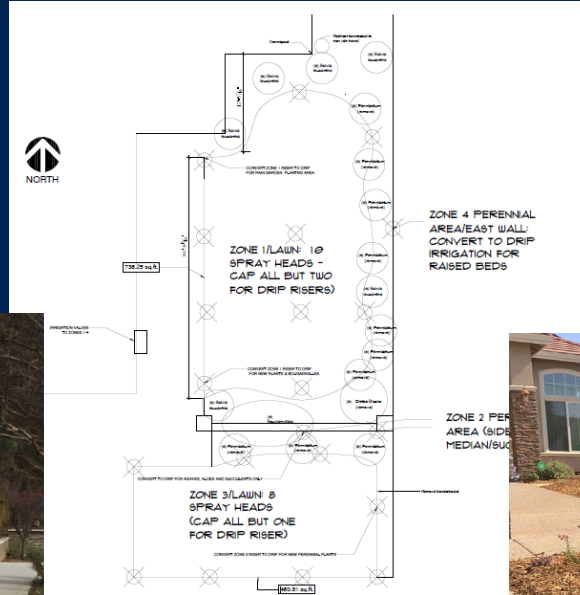
Landscape Conversion Water Savings



Cupertino Participation in SCVWD Landscape Rebate Program			
Year	# Rebates	Sq. Feet Converted	Est. Annual Savings (gallons)*
2010-2012	5	7,196	143,920
2013	8	9,933	198,660
2014	16	15,585	311,700
2015	106	138,121	2,762,420
2016	114	180,400	3,608,000
2017	37	49,525	990,500
2018	27	28,834	576,680
2019	6	3,800	76,000
2020	20	24,075	481,500

*Based on an estimate of 20 gallons per square foot of lawn conversion

Program Highlights: Climate Victory Gardens



Water Conservation Efforts for Current Drought

- Implement current water conservation measures
- Communicate to community about the importance of water conservation
 - www.cupertino.org/drought
- Partner with Valley Water and water retailers to offer rebates (Graywater - Laundry to Landscape, Landscape Conversion and Rainwater Capture)



Civic Center



Monta Vista Rec Center

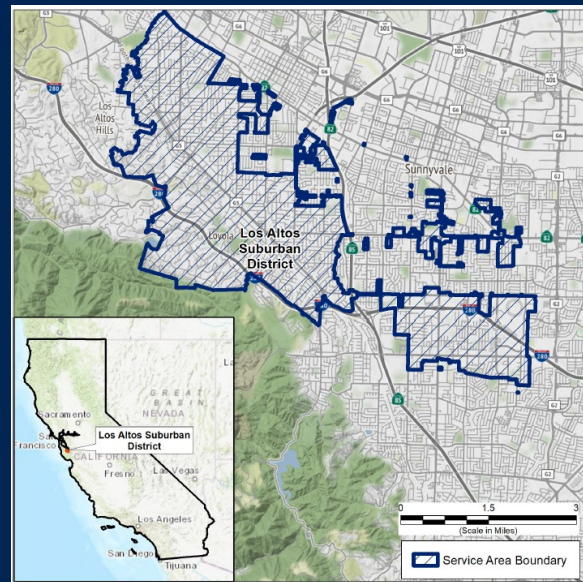
Water Retailers Actions

- June 14, 2021, California Water Service Company filed Rule 14.1 with California Public Utilities Commission (CPUC)
 - Effective July 14, 2021
 - Implementing Stage 1 of their Water Shortage Contingency Plan
- June 18, 2021, San Jose Water Company filed Advice Letters 563 and 564 with CPUC to activate Rule 14.1
 - Stage 3 of their Water Shortage Contingency Plan

The District

Los Altos District

- Since 1931
- One Public Water System
- Uses groundwater, recycled water and purchased water from Santa Clara Valley Water District (Valley Water)
- Distribution system includes 22 wells and 46 surface storage structures



Quality. Service. Value.™

California Water Service Drought Response

Residential Water-Efficiency Programs

- Rebates
 - www.calwater.com/rebate
 - High-efficiency toilets
 - High-efficiency clothes washers
 - Smart irrigation controllers
 - High-efficiency sprinkler nozzles
- Conservation Kits
 - www.calwater.com/kit
- Smart Landscape Tune-Up Program
- Turf Replacement Rebate (July Launch)
- Drip-line Conversion Rebate (July Launch)



California Water Service Drought Response

Commercial Water-Efficiency Programs

- Rebates
 - www.calwater.com/rebate
 - High-efficiency toilets
 - High-efficiency urinals
 - Smart irrigation controllers
 - Spray bodies w/ pressure regulation
 - Large rotary nozzles
 - High-efficiency sprinkler nozzles
- Customized Incentives
- Smart Landscape Tune-Up Program
- Turf Replacement Rebate (July Launch)
- Drip-line Conversion Rebate (July Launch)



Conservation Programs That Work

Los Altos

- Conservation programs in 2019 = savings of 10 million gallons (MG)
- Conservation programs implemented in 2019 will save 166 MG over their lifetime
- Conservation programs implemented since 2011 = 750 MG lifetime cumulative savings

Rule 14.1

Prohibited Uses of Water

- Use of water on landscaping that causes runoff onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures
- Use of a hose without a shut-off nozzle to wash vehicles
- Use of water for washing driveways and sidewalks
- Use of water for decorative fountains that do not utilize a recirculation system
- Use of water on landscaping during or within 48 hours after rainfall
- Use of excessive water due to unrepaired leaks or defective irrigation systems
- Providing water in restaurants (except upon request)
- Outdoor irrigation between the hours of 8:00 am and 6:00 pm

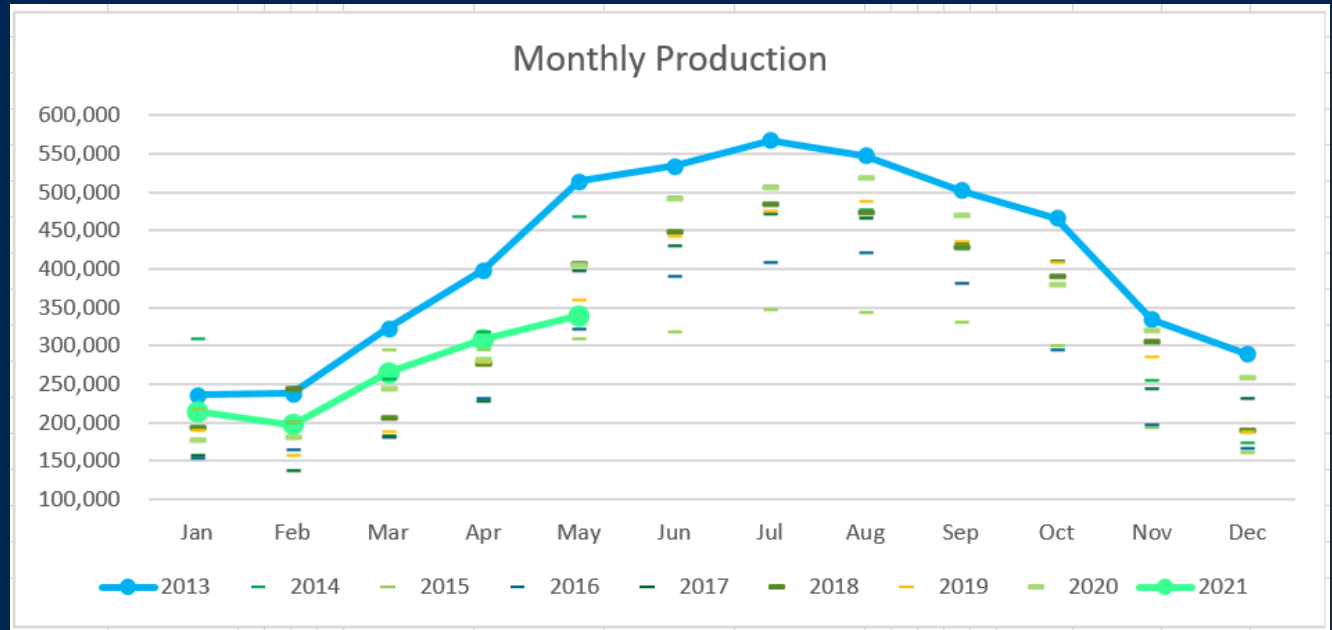
<https://www.calwater.com/conservation/resources/>

<https://www.calwater.com/conservation/report/>



Proven Track Record for Success

Everyone is a Water Manager



Smart Landscape Tune Up

Smart Landscape Tune-Up Program

- Irrigation system efficiency evaluation by Cal Water contractor
- Cal Water conservation team member follows up, providing recommendations for irrigation system improvements based on the onsite evaluation
- Schedule follow-up visit with Cal Water contractor, selected improvements made at **no charge**



San Jose Water Drought Response

- Current restrictions focus on outdoor water use (typically 50% of residential consumption)
- No penalties (surcharges) at this time
- SJW has actively promoted water conservation since the early 1990s and continues to encourage our customers to conserve and use water wisely at all times

San Jose Water Drought Response

- Conservation program includes complimentary water efficiency visits, water-wise gardening info and conservation tips, rebates and other incentives
- Strongly committed to doing everything we can to reduce water loss on our side through deployment of technology and timely response to leak repairs

San Jose Water Drought Response

- Established a one-stop drought information page on our website at <http://www.sjwater.com/drought> which includes the following:
 - Current drought update plus older updates
 - Drought FAQ – Learn more about the extreme drought
 - Free water-saving devices – to help our customers fight the drought

San Jose Water Drought Response

- Conservation is a California Way of Life
– One page with a focus on conservation, tips, water-wise gardening tips, water loss prevention, CATCH program, etc.
- CATCH – our free water-efficiency program to have a water check-up at residential customer's homes. Focus is on outdoor water savings.
- Valley Water's statement on the 2021 drought.

San Jose Water Drought Response

- Rebates options for customers to save water on landscaping, irrigation, etc.
- Online form and phone number to report water waste and leaks
- SJW's best practices and water-savings efforts – Leak repairs, What Goes into a Water Leak Repair, Advanced Leak Detection, Flushing Truck, Infrastructure Investment and 2020 Draft Urban Water Management Plan.

San Jose Water Drought Response

- US Drought Monitor – Weekly updates on California drought conditions.
- Further dissemination through bills, social media, and other channels to keep customers informed
- Committed to helping customers with their conservation efforts to meet the challenge facing our community

A stylized sunburst or starburst graphic in shades of blue, located on the left side of the slide. It features several rays emanating from a central point, with some rays having small circles at their ends.

Next Steps

- Implement current water conservation measures
- Outreach to park and field user groups and community
- Continue coordination with Valley Water, San Jose Water Company and California Water Services



Input and Questions

END SLIDE

Report on Drought Status & City's Water Conservation Measures



CUPERTINO

July 20, 2021