



Water Management Plan

CITY COUNCIL WORKSHOP

May 5, 2015
5:30 p.m.

Background – 2014

- January – Governor proclaims state of emergency due to drought
- July – Water Board approves Emergency Water Conservation Regulations
- August – City Council declared Stage 2 (Mandatory Compliance – Water Alert)

Background – 2015

- March – Water Board extends Emergency Water Conservation Regulation
- April – Governor issues an executive order requiring additional regulations and a 25% reduction in potable water use and Water Board provides regulatory framework to water agencies
- April – Metropolitan and MWDOC implement 15% allocation reduction effective July 1, 2015

2014 Regulations

- Urban Water Suppliers required to prohibit the following:
 - Watering of landscape that causes runoff
 - Use of a hose to wash a vehicle if it is not equipped with a shut-off nozzle
 - Application of water to any hard surface, except to abate a health and/or sanitation issue
 - Use of a fountain that is not part of a recirculating system

2014 Conservation

Total Customer Conservation

- Annual conservation resulted in 2% reduction
- Conservation efforts after City Council implements Stage 2 of Water Management Plan resulted in 7% reduction

City Conservation Efforts

- Reduced irrigation in parks, landscaped medians, parkways, and facilities
- Eliminated use of nonessential water use such as decorative fountains and splash pads

2015 Regulations

- Urban Water Suppliers required to limit the number of days irrigation can be used.
- In addition to the 2014 prohibitions, the following are now prohibited:
 - The irrigation with potable water of ornamental turf on public street medians; and
 - The irrigation with potable water of landscapes outside of newly constructed homes and buildings ~~that is not delivered by drip or microspray systems~~ in a manner inconsistent with regulations or other requirements established by the California Building Standards Commission.

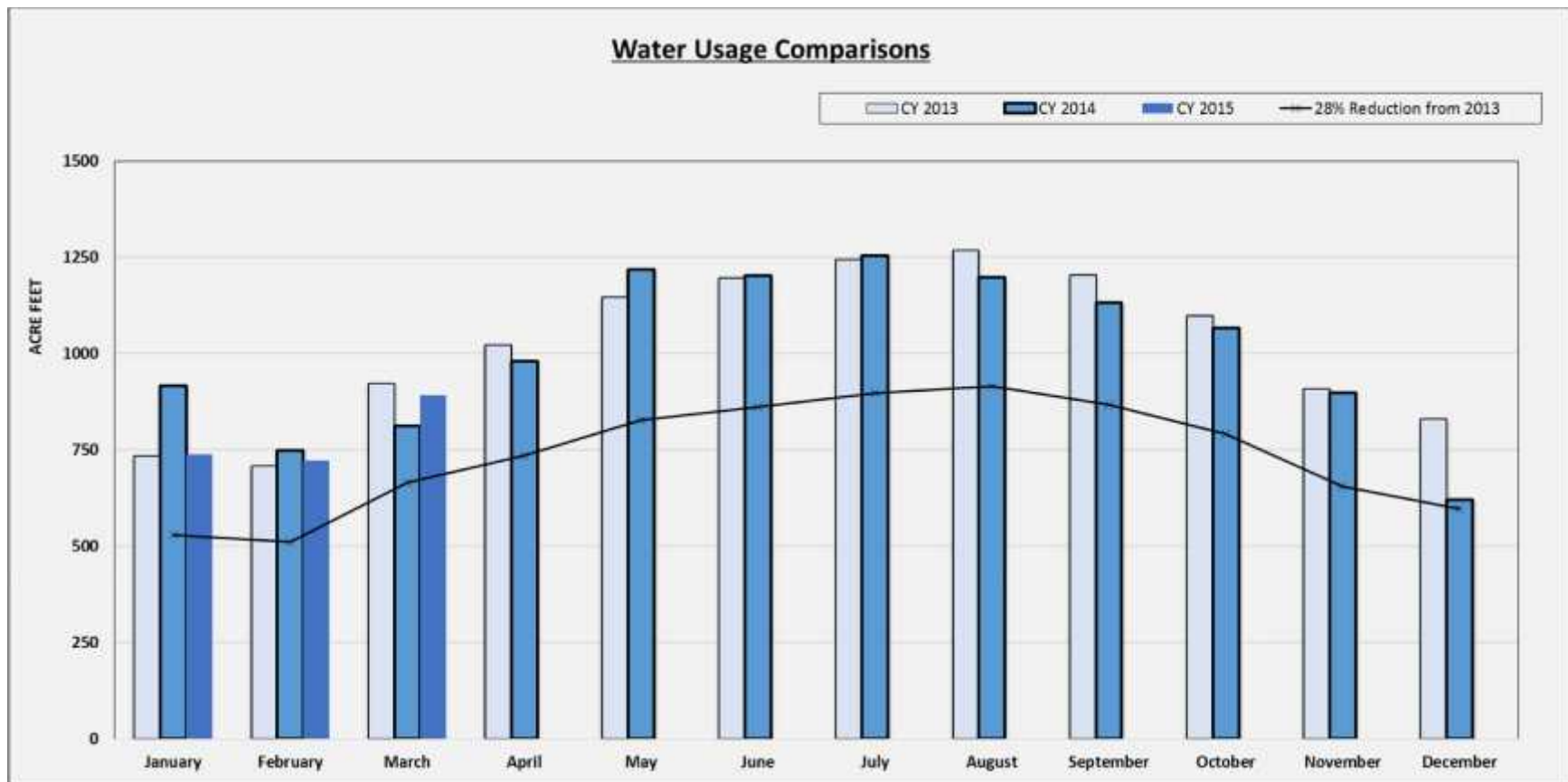
Urban Water Suppliers Conservation Standard

Tier	R-GPCD Range From:	To:	# of Suppliers in Range	Conservation Standard
1	reserved		0	4%
2	0	64.99	23	8%
3	65	79.99	21	12%
4	80	94.99	42	16%
5	95	109.99	41	20%
6	110	129.99	51	24%
7	130	169.99	73	28%
8	170	214.99	66	32%
9	215	612	94	36%

Tustin Water Services Conservation Standard – Tier 7

- Baseline determined using July – September 2014 data
- Total water production / population / days (gallons per capita per day or GPCD)
 - Baseline = 156.5 GPCD
 - Target = 112.7 GPCD
- Going forward, each month is compared to 2013 water usage

What does 28% look like?



Commercial, Industrial, and Institutional

- Per the Governor's Executive Order, the Water Board is required to implement measures to ensure conservation by the commercial, industrial, and institutional (CII) sectors.
- Due to the vast differences in CII by community, the Water Board has left this to the discretion of individual agencies to curtail use.

Water Reduction Targets

- State Water Resources Control Board
 - 28% of total consumption
- Municipal Water District of Orange County
 - 15% of imported water

Why the distinction?

Tustin Water Services relies on both imported and ground water to meet customer demand. The Water Board is looking to reduce overall consumption while Metropolitan and MWDOC are looking specifically at imported water.

Proposed Changes to Water Management Plan

- Designated watering days for Stage 2
 - Tuesday & Saturday – even numbered addresses
 - Thursday & Sunday – odd numbered addresses
 - Watering one day per week between November 1 and March 31 in Stage 2
- Designated watering days for Stage 3
 - Wednesday – even numbered addresses
 - Thursday – odd numbered addresses
- Prohibition of outdoor irrigation during and 48 hours following measureable precipitation

Proposed Changes to Water Management Plan

- Hotels/motels shall provide guests with the option to have linens laundered daily.
- Fine structure for violations

Proposed Changes to Water Management Plan – Stage 2

Stage 2	
<u>Current</u>	<u>Proposed</u>
No designated irrigation days	<i>Irrigation only permitted 2 days per week, and 1 day per week Nov 1 - Mar 31 Watering limited to a maximum of 5 minutes per irrigation station</i>
Irrigation prohibited 10 a.m. to 6 p.m.	<i>Irrigation prohibited 6 a.m. to 6 p.m.</i>
Watering is permitted any time if a hand held hose equipped with a positive shut-off nozzle, hand held bucket, or drip irrigation is used.	<i>Prohibit any irrigation during and 48 hours following measureable rain</i>
No washing of paved areas except to alleviate immediate fire or sanitation hazards	<i>No Change</i>
No washing of vehicles unless using a hand held bucket and hose with a positive shut-off nozzle.	<i>No Change</i>
Irrigation of parks, school grounds, public facilities, and recreational fields prohibited 10 a.m. to 4 p.m.	<i>Irrigation of parks, school grounds, public facilities, and recreational fields prohibited 6 a.m. to 6 p.m.</i>

Proposed Changes to Water Management Plan – Stage 2

Stage 2	
<u>Current</u>	<u>Proposed</u>
Restaurants shall not serve water unless specifically requested	<i>No Change</i>
N/A	<i>Require hotels and motels to provide guests with the option of choosing not to have towels and linens laundered daily</i>
Operation of ornamental fountains or similar structures prohibited unless reclaimed water is used.	<i>No Change</i>
N/A	<i>Requirement to repair leaks immediately</i>
N/A	<i>The "dump and fill" practice of swimming pool maintenance is prohibited. Pools may be topped off to prevent damage to pump and filter equipment</i>
Agricultural users and commercial nurseries as defined in the Metropolitan Water District Code are exempt, but are required to curtail all non-essential water use.	<i>No Change</i>

Proposed Changes to Water Management Plan – Stage 3

Stage 3	
<u>Current</u>	<u>Proposed</u>
Designated irrigation days: Odd numbered addresses on odd numbered days, even numbered addresses on even numbered days	<i>Irrigation only permitted 1 day per week.</i>
N/A	<i>Prohibit any irrigation during and 48 hours following measureable rain</i>
Washing of vehicles only permitted at commercial car washes using recycled water	<i>No Change</i>
Commercial car washed not using reclaimed or recycled water required to reduce water use by 20%	<i>No Change</i>
Irrigation of parks, school grounds, public facilities, and recreational fields prohibited 6 a.m. to 6 p.m.	<i>No Change</i>
The operation of ornamental fountains or similar structures is prohibited	<i>No Change</i>
N/A	<i>Can only fill pools that are covered</i>
N/A	<i>The use of water for commercial, industrial, institutional, manufacturing or processing shall be essential use only, all outdoor irrigation is prohibited.</i>

Proposed Changes to Water Management Plan – Stage 4

Stage 4	
<u>Current</u>	<u>Proposed</u>
All outdoor irrigation is prohibited.	<i>No Change</i>
Washing of vehicles only permitted at commercial car washes using recycled water	<i>No Change</i>
Commercial car washed not using reclaimed or recycled water required to reduce water use by 50%	<i>No Change</i>
Filling, refilling, or adding water to swimming pools, spas, ponds and artificial lakes is prohibited	<i>No Change</i>
Watering of parks, school grounds, public facilities and recreation fields is prohibited with the exception of plant materials classified to be rare, exceptionally valuable, or essential to the wellbeing of rare animals	<i>No Change</i>

Proposed Changes to Water Management Plan – Stage 4

Stage 4	
<u>Current</u>	<u>Proposed</u>
Use of water for agricultural or commercial nursery purposes, except for livestock watering, is prohibited.	<i>No Change</i>
New construction meters or permits for unmetered service will not be issued. Construction water shall not be used for earth work or road construction purposes	<i>Except to maintain the health, safety and welfare of the public or as required by the AQMD Control Measure F-4</i>
The use of water for commercial, manufacturing or processing purposes shall be reduced in volume by 50%	<i>The use of water for commercial, industrial, institutional, manufacturing or processing purposes shall be reduced in volume by 50% or as mandated by the State Water Resources Control Board and limited to off-peak hours.</i>
No water shall be used for air conditioning purposes	<i>No Change</i>

Penalty Structure Options

Current Penalty Structure vs Recommendation

	Current Amount	Recommended Amount	Additional Action
Violation 1	\$25	\$100	Education
Violation 2	\$35	\$200	Education
Violation 3	\$45	\$300	Education
Violation 4	\$55	\$400	Education
Violation 5	\$65	\$500	Flow restricting device for 48 hours
Violation 6 +	\$70	\$500	Discontinuation of service for 24 hours

Administrative Citation Process

	Amount
Violation 1	\$100
Violation 2	\$200
Violation 3 +	\$500

Monthly Reporting to State

- What stage has the City Council adopted
- Whether there are mandatory restrictions
- How many days per week irrigation is permitted
- Service area population – 67,700
- Total water production, monthly
- 2013 water production, monthly
- Water loss/non-revenue water
- Percent residential use – 88% -90%
- Residential gallons per capita per day
- Number of complaints of water waste
- Number of violations
- How many customer contacts regarding water waste
- How many formal warnings were issued
- How many penalties were issued

Additional Considerations

- Adding \$1 to the \$2 rebate offered by MWD for turf replacement
- Additional rebate for water efficient appliances purchased from a Tustin business
- Exemption for beneficial public use with an allocation plan that meets 28% conservation
- No watering of front lawns

Additional Considerations

- Code modification regarding maintenance of landscape
 - Section 5502 - PROPERTY MAINTENANCE NUISANCES
 - (m) Property failing to meet minimum levels of maintenance and care as set forth as follows:
 - (1) Landscaping. All landscaping shall be maintained in a healthy condition free of dead, decayed, overgrown or discarded plant material and all synthetic turf material be maintained in accordance with the Synthetic Turf Standards and subject to the approval of the Community Development Director;
 - (2) Landscape irrigation. Landscape irrigation pipes and sprinkler heads shall be maintained in good working order so as to cover all landscaped areas
- Water Conservation Enforcement Officer

Possible Future Regulations

- To Achieve Conservation Standard 28%
 - Specific or Defined Allotments based on R- GPCD
Every residential customer to meet 112 R-GPCD
 - Tiered reduction targets
Tiered system that requires large consumers to reduce more than small consumers

Monthly City Council Updates

- Staff will supply the City Council with formal updates each month on the following:
 - Conservation progress
 - New State regulations
 - Changes to import allocations
 - Regional approach to meet conservation goal