Water Conservation Efforts, Penalty Surcharge, & Long-Term Water Use Efficiency Programs

August 11, 2016

Public Works Commission

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Water Conservation Efforts

July 2016

- Contacted 118 continuous flow customers
- Notified 76 residents watering on the wrong day
- Assisted 34 customers with appeals and conservation questions
- Performed 14 on-site audits

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Public Education

- July 13th & 16th : Water wise plants workshops
- August 6th - Water wise preparation and design
- August 9th – Composting
- Ads in paper and on Facebook
- Continuous Outreach

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Future Outreach

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Water Reduction

Compared to 2013

Month/Year	July 2016	July 2015
Beverly Hills	21.4%	21.6%

Month/Year	June 2016	June 2015
Beverly Hills	20.0%	21.9%
Statewide	21.5%	27.5%

Beverly Hills is holding steady

22% average

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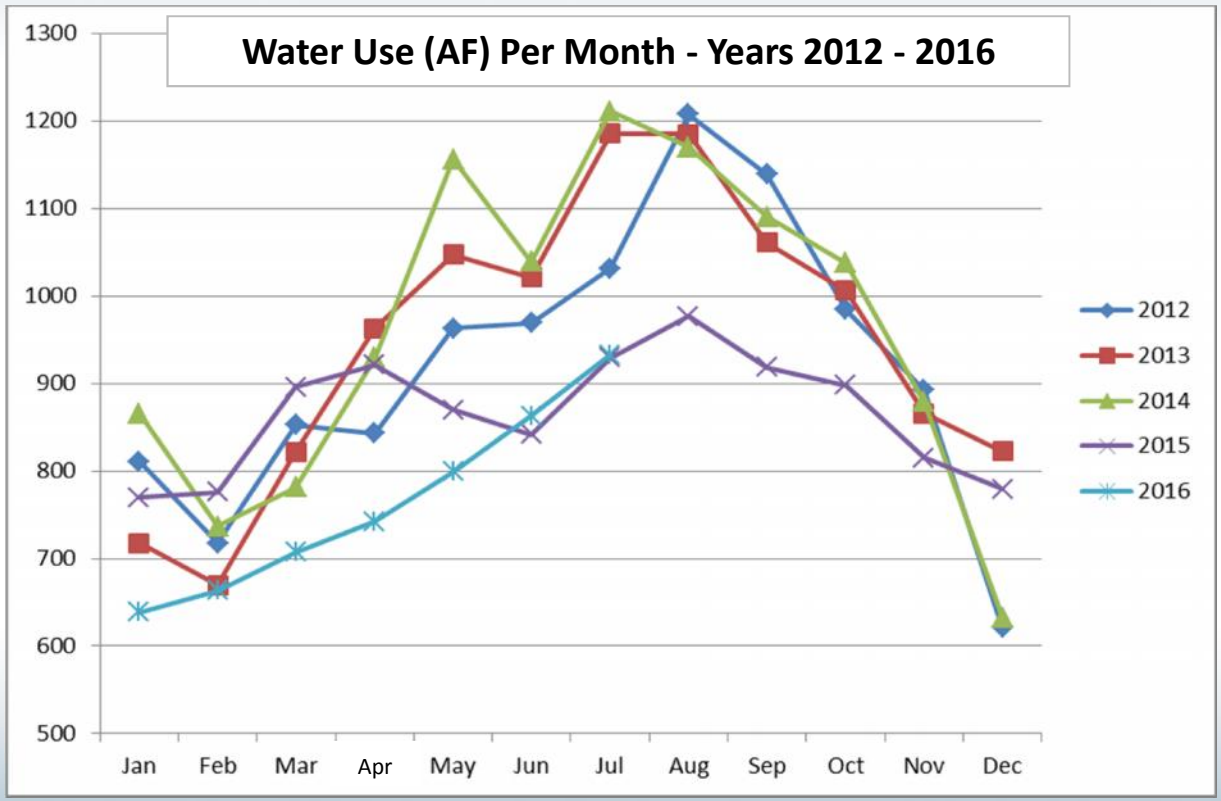
Water Reduction



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Penalty Surcharge

- June 22, 2016 – Penalty surcharge suspended
- Level 1 – 1,817 received; 42 pending review
- Level 2 – 712 received; 321 pending review

Long-Term Water Use Efficiency Policy

- Evaluated various approaches to target "Excessive Water Users"
- Looked at other agencies
- Considered a framework that was effective, feasible and sustainable

Long-Term Water Use Efficiency Policy

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Water Allowance Formula

Variables	Assumption
Average number of people per household:	4 people
Average number of gallons used per person per day indoor:	60 gallons
Property landscape area:	Estimated landscape based on GIS calculations
Evapotranspiration rate:	Sum of the evapotranspiration rate to correspond with the billing cycle period

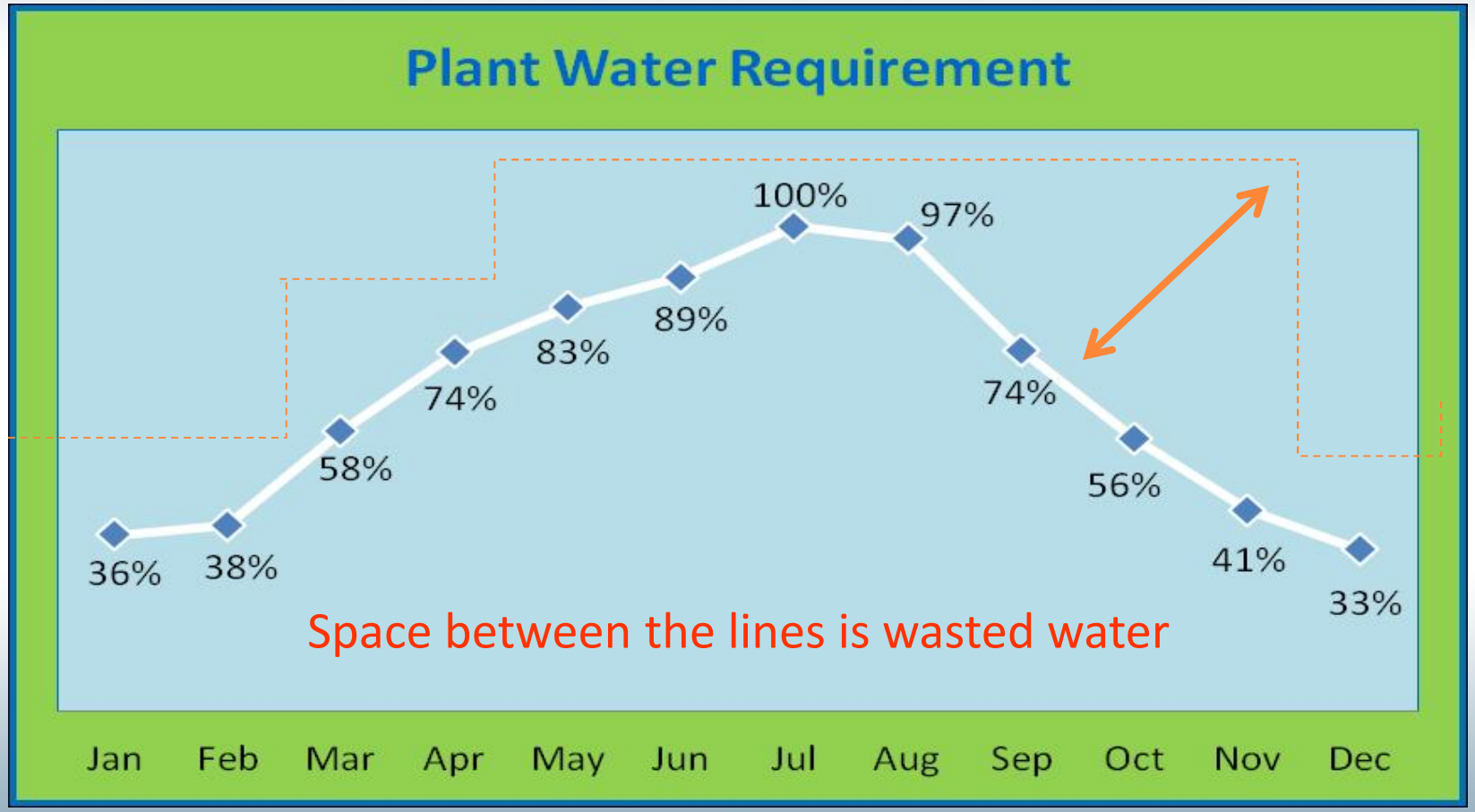
Outdoor Water Allowance

Maximum Applied Water Allowance" (MAWA)

MAWA = (ETo) (0.62) [(0.7 x LA)

Calculation Item	Description
LA	Landscaped area measured in square feet
ETo	Evapotranspiration rate factor is based on water loss from evaporation in the soil and plant transpiration; based on inches per year (Los Angeles' is 50.1")
0.7	ET Adjustment Factor = Based on the water needed for native plants and some turf
0.62	Conversion factor converting square feet to gallons

Watering vs. Plant Needs



Exceedance Percentage

Exceedance Factor Over MAWA	% of Accounts that Exceed the Factor within the Sample Size	Estimated Number of Accounts that Exceed the Factor within Beverly Hills
1.0	55%	3,225
1.25	49%	2,851
1.5	40%	2,360
1.75	33%	1,927
2.0	27%	1,573

January 2016 – June 2016
3 Billing Cycles

Recommendations

Based on customized needs, not historical water use

Drought Stages	Exceedance Factor
A	1.75
B	1.5
C	1.25
D	1.0
E	City Manager declaration
Ongoing, Non-Drought Conditions	**2.0**

Next Steps

- **August 11, 2016:** Approve Sub-Committee's recommendation regarding Excessive Water Use policy
- **September 8, 2016:** PW Commission meeting to discuss modifications to City's water regulations (BHMC)
- **September ?, 2016:** City Council Liaison meeting to discuss Commission recommendations on the City's water regulations and policy
- **September 20, 2016:** City Council presentation

Comments
&
Discussion

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And now it's time to play…

"What's the Problem?"

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