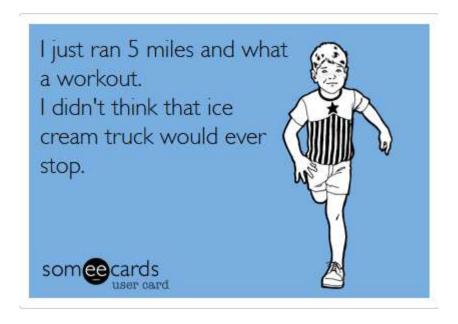




RWEPAC Meeting January 12, 2016

Welcome and Introductions

- Name
- Organization
- New Year's Resolution?







Agenda

- November 2015 Notes
- Budget and Grants Update
- Drought Continues...
- Mini Discussion: Customer Water Reports
- Urban Water Management Plans
- Informational Presentation
- Optional Lunch- El Tapatio





November 2015 Meeting Notes

- Motion for approval
- Post to RWA website





Grant Update

- Wrapping up Prop 84 Round 2
 - Direct Installs, Waterfluence, Rebates
- Starting Water Energy Grant (\$2.5 M)
 - Sharon to help
 - Direct Installs, CII reimbursement, showerhead distr.
- Prop 84 Round 3 (\$810,000)
 - Recommended for award
 - Advanced Customer Systems, Water Loss, Public Outreach





Budget Update

- Reserves used for floating grant programs
 - Future grants may need funding pot
- Official budget meeting is March
- Requesting a 6% increase in dues (\$25,000)
 - No increase last year
 - Powerhouse Science Center
 - Lay off reserve funding
 - Consulting budget
 - Partial salary costs into RWA budget





Regional Water School

- 10 classes since July 2015
- 73 students (63 for violations)
- Upcoming Classes
 - January 27th in Rocklin
 - February 17th in Lincoln
- More classes?







Main Winter Messages

- Sprinklers off till Spring
- Don't water during or 48 hours after rain
- Upgrade fixtures with WaterSense products





Extended Public Outreach Plan

- Continuing Cap Radio (Jan-Feb)
- Continuing Google and Facebook ads (Jan-Feb)
- Consistant with winter messages
- Using SOW visuals for online ads
- Saving remaining \$30,000 for later in 2016





State Water Board Emergency Regulations

- Current regs expire mid-February
- New Executive Order to extend regs until Oct.
- New draft regs released in mid-January
- Expected approval at February State Water Board meeting





New Draft Emergency Regulations Framework

- Adjustments for increased equity
 - YES-Climate, growth, drought resilient supplies
 - NO-Recycled water, groundwater, regional compliance
 - Climate adjustment –all RWA agencies get 4%
 - Cap at 4% per agency

Deviation from Average ET	Reduction in Conservation Standard
>20%	4%
10 to 20%	3%
5 to <10%	2%





Reference EvapoTranspiration (ETo) Zones DEL 1 COASTAL PLANS HEAVY FOG BELT Lovest 2 fo in California, Characterized by dumor fog SISKIYOU 2 COASTAL MIXED FOR AREA. 10 12 Lise writer and high buttoner Ells with slightly sealer Ells with slightly sealer Ells with slightly 7 3 COASTAL VALLEYS AND PLANS AND NORTH COAST MOUNTAINS When surroger than zone 2 13 SOUTH COAST BUANO PLANS AND MOUNTAINS NORTH OF SAN FRANCISCO More surright and higher summer \$10 then zone 3 3 5 NORTHERN INLAND VALLEYS TRINITY HUMBOLDT 16 A WEST OF AMERIA, VALLEY & MOURTAINS EAST 14 . .-- 13 GLENN 12 MENDOGINO SIERRA PLACER 8 EL DORADO YOLO ... BONOMA ALPINE 14 AMADOR: CALAVERAS 11 BOLANO. 38 2.48 3.30 5.27 8.90 8.68 9.60 9.01 8.68 8.90 4.90 3.00 2.17 CONTRA TUOLUMNE Variabity between stations within single zones is as high as 0.02 inches per day for zone 1 and during writer monitra in zone 13. The average standard deviation of the SAN COSTA ETo between estimation sites within a zone for all months is about 0.01 inches per day for all 200 sites. JOAQUIN MARIPOSA ALAMEDA STANISLAUS. 3 SANTA MADERA 14 MERCED CLARA 12 15 SAN BENITO 12 16 TULARE MONTEREY 16 14 SAN LUIS 15 14 OBISPO California Irrigation Management Information System (CIMIS) REFERENCE EVAPOTRANSPIRATION 3 17 SANTA BARBARA VENTURA 14 18 17 HIVERSIDE 16 Lamber Conformer Sono Projection 1007 North American Clasure IMPERIAL DIEGO 18 16

Zones 13 and 14



Water Savings

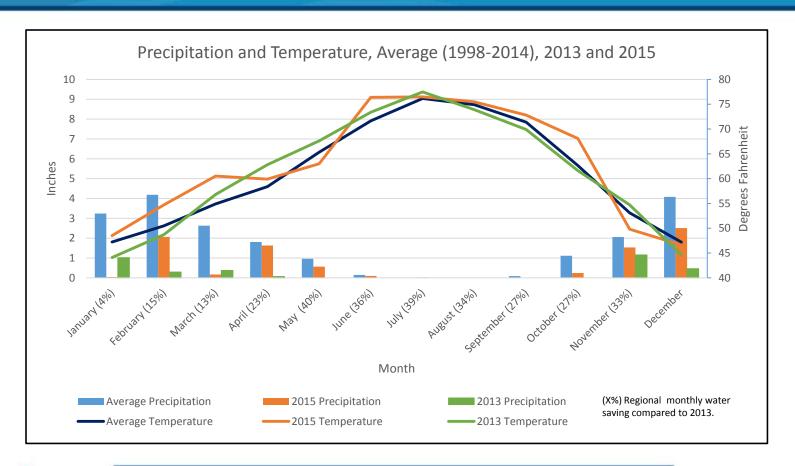
RED	UCTIO	N BY \	VOLUN	1E (Mill	ion Ga	llons)							
	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Total
2015	6,714	6,179	8,781	9,282	10,536	12,419	13,789	13,866	12,560	10,759	7,131		112,017
2013	6,958	7,228	10,087	12,100	17,433	19,488	22,418	20,859	17,316	14,836	10,649		159,374
%	3.5%	14.5%	13.0%	23.3%	39.6%	36.3%	38.5%	33.5%	27.5%	27.5%	33.0%		29.7%

STATE	WATER	BOARE	WATE	R SAVI	NGS TR	ACKING	(Millio	n Gallo	ns)	
	Jan.	Feb.	June	July	August	Sept.	Oct.	Nov.	Dec.	Total
2015/16			12,419	13,789	13,866	12,560	10,759	7,131		70,524
2013			19,488	22,418	20,859	17,316	14,836	10,649		105,567
%			36.3%	38.5%	33.5%	27.5%	27.5%	33.0%		33.2%

As of November, all agencies are within 5% of their cumulative targets. Saved 47 billion gallons or enough to serve 341,000 households for a year.





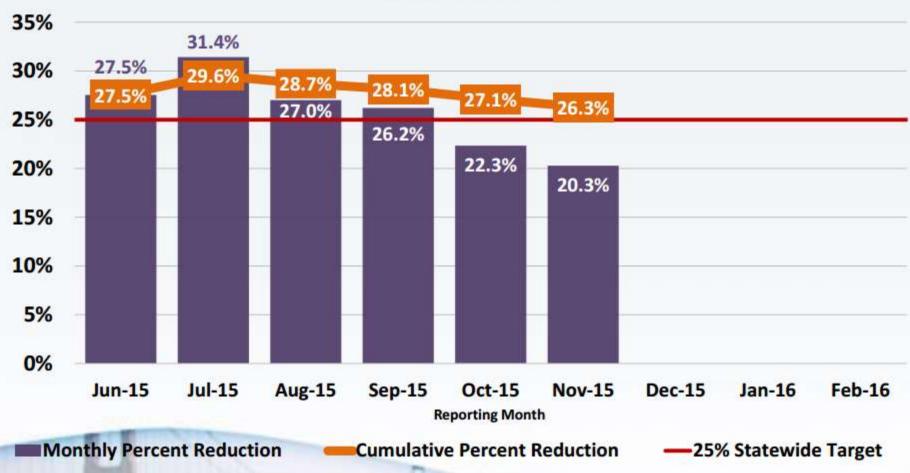






Statewide Water Conservation Results Water Production Percentage Reduction

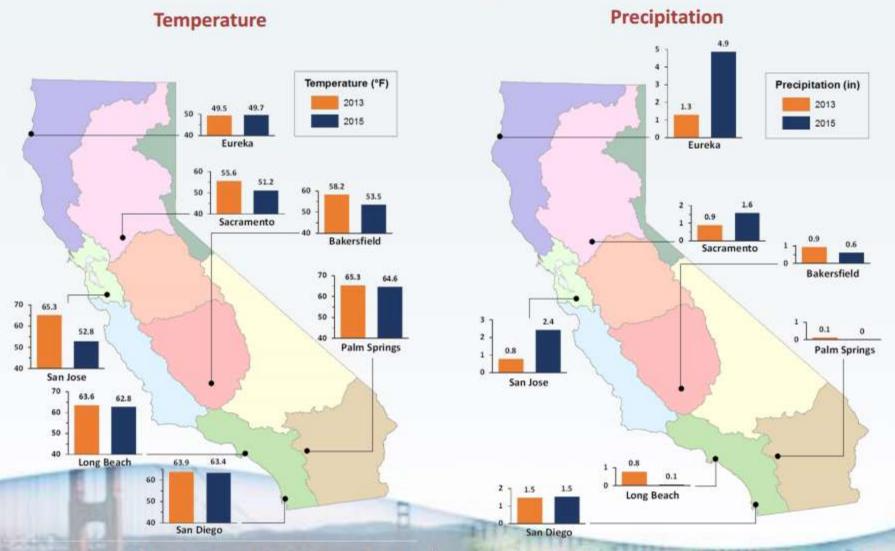
(Compared to 2013)



November 2015 savings (30.7 billion gallons) is two times greater than November 2014 savings (15.8 billion gallons)

November Weather Conditions

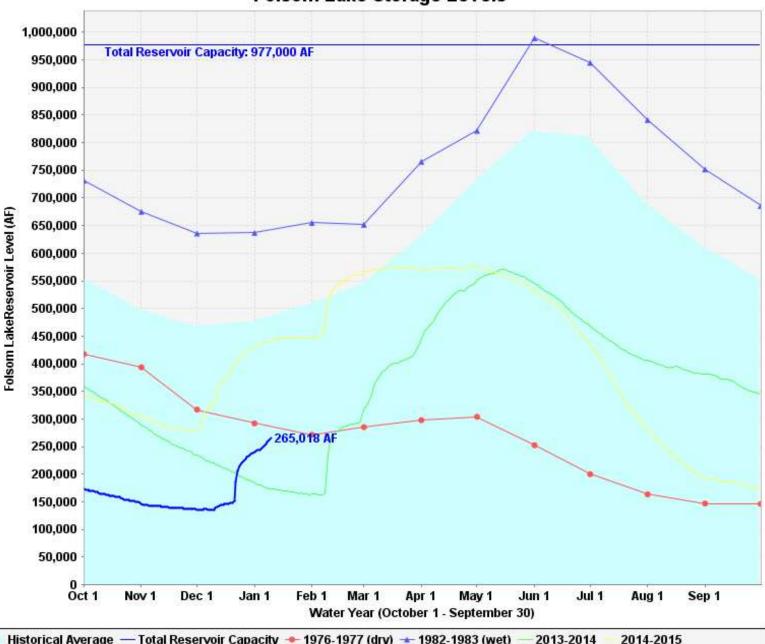
(Select Cities)



Statewide, November 2015 was cooler and wetter than November 2013.

Data Source: U.S. Climate Data http://www.usclimatedata.com/





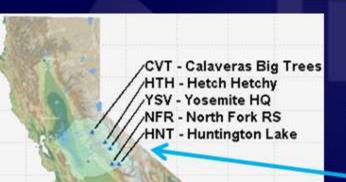
Historical Average — Total Reservoir Capacity → 1976-1977 (dry) → 1982-1983 (wet) — 2013-2014 — 2014-2015 — 2015-2016(current)

NWS Sacramento



The CA Precipitation Situation: 5 Station Index

How full is our 5 gallon bucket now? (As of January 1, 2016)



Every Water Year (Oct 1-Sept 30), the 5 Station Central Sierra Index averages 40.8" of water and is a good indicator of water supply in San Joaquin valley. Note: NorCal's "Wet Season" is Oct - April

Map showing the 5 Stations and area it impacts

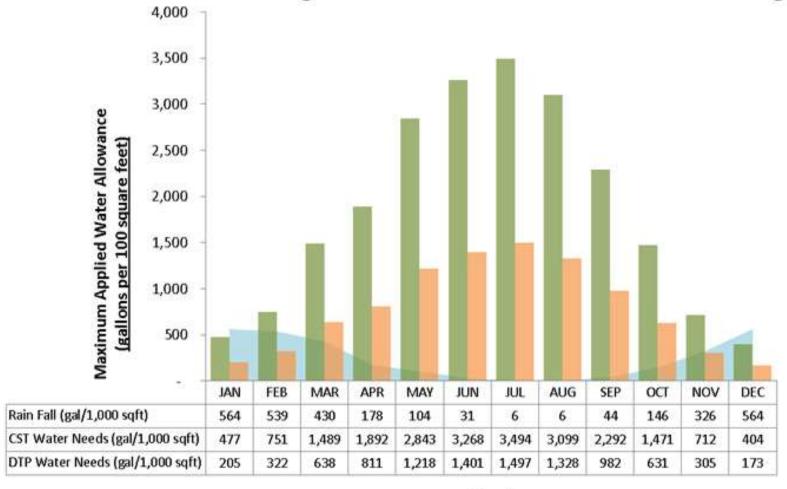


5 Gallon Bucket: represents the 40.8" we need this coming year plus the deficits from the past 4 water years 72.45" (113.25" total)

Red Arrow: What we need in the next year to reach normal precipitation in 2015-2016 WY AND make up the deficits since 2011-2012 WY

Blue shading: Where we are now ~14% full (15.8")

Cool Season Turf & Watershed Plants Water Needs vs. Avg. Annual Rainfall for the Sacramento Region





Rain Fall (gal/1,000 sqft)

CST Water Needs (gal/1,000 sqft)

DTP Water Needs (gal/1,000 sqft)





Regional HET/ULFT Saturation Study

- Several agencies are interested
- Potential opportunity for joint funding
- Pre 1992 single family homes, multi-family apartments and restaurants & gas stations
- Proposal for RWA be lead agency to select a consultant
- Completed by early/mid summer 2016





Regional Mulch Madness

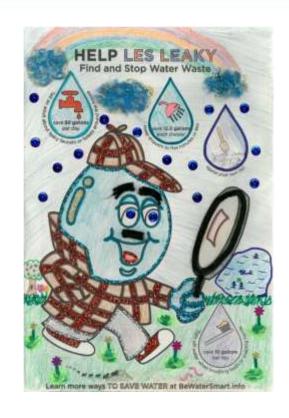
- Expand PCWA's mulch madness event
- Mulch Madness Day in May
- RWA to coordinate media and promotion
- Local partnerships to get mulch
- Who is interested?
- Form a committee?





Coming soon...

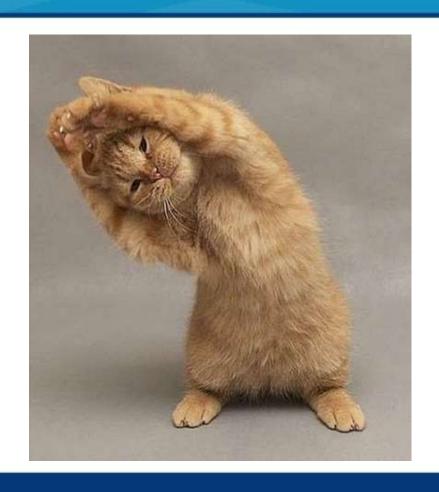
- Potential sponsor for decorating contest in partnership with SacBee
- Public Information
 Officer meeting
- 2016 tool kits for public outreach







Stretch Break







Mini Discussion: Customer Reports

- Are these working?
- Customer feedback?
- Lots of companies-WaterSmart,
 Dropcountr, Aiqueous, Smart Utility
 Systems, etc. Is there confusion?
- Regional contracts?

Urban Water Management Plans

- DUE: July 1, 2016
- Draft Guidebook posted on DWR website
 - Final to be posted this month
- Metering, water shortage contingency plans and public education and outreach
- Update opportunities
 - Population
 - Target/target method





Water Shortage Contingency Plan Regional Tool

Stage	Public Announcement Stage Name	Recommended Conservation (Water Use Reduction)		ge Stage Template Suggested Actions	
Normal	Normal Conditions	Use Water Efficiently	Fix leaks or faulty sprinklers pro	mptly/within X day(s).	
			All landscapes shall be watered	r fountains, etc.) must recirculate water and shall be leak proof. during cooler morning and evening hours to reduce evaporation and minimize landscape runoff, fined to a user's property and shall not runoff onto adjacent properties, roadsides or gutters. ur while it is raining or snowing.	
		1	Use a shutoff nozzle on hoses.		
			Unauthorized use of hydrants is	ces such as driveways and sidewalks is prohibited uniess for public health and safety purposes. prohibited. Authorization for use must be obtained from water supplier.	
	1			onal equipment must be properly maintained and in full working order.	
		1	Laine in the second in the sec	nly full loads when washing dishes or clothes.	
-	1	Mater Alert			I.
1	1	Water Alert	Up to 20%	Fix leaks or faulty sprinklers within X day(s).	
-				Require restaurants to only serve water to customers on request.	
				No restrictions on landscape watering with non-potable water.	
	-			}	
				Up to 3 days per week turf watering when using potable water. Plan	t containers, trees, shrubs and vegetable garde
2				additional days using only drip irrigation or hand watering.	
	1		*************	ise potable water must be drained and kept dry.	
	1			ing a commercial carwash that recirculates water or by high pressure/low volume wash systems.	
		1		e plan be submitted to the water supplier that addresses how impacts to existing water users will be	
		1	mitigated (such as dust control).		
	1			s watered with non-potable water, limit the installation of new landscaping to drought tolerant trees,	
	1			oit installation of new turf or hydroseed. Customers may apply for a waiver to irrigate during an stallation of new turf or hydroseed.	
	1		Warm/Dry Season	tanation of new turr of nydroseed.	
	1		Un to two days nor week turf w	tering when using notable water	
		1	Plant containers, trees, shrubs a	nd vegetable gardens may be watered additional days using only drip irrigation or hand watering.	
		1	Cool/Wet Season		
	1		Turf shall not be watered unless	utilizing non-potable water during extended dry spells.	
			Plant containers, trees, shrubs a	nd vegetable gardens shall be watered only by drip irrigation or hand watering.	
3	Water Crisis	Up to 40%	Fix leaks or faulty sprinklers wit	hin X day(s).	
		1	Existing pools shall not be empt	led and refilled using potable water unless required for public health and safety purposes.	
		1	No new permits for pools will be		
	1			or renovations will be permitted.	
	1	1	CONTROL OF THE PARTY OF THE PAR	uring an establishment period will be revoked.	
	1	1	Warm/Dry Season	ering when using potable water.	
	1	1		ering when using potable water. nd vegetable gardens may be watered additional days using only drip irrigation or hand watering.	
	1	1	Cool/Wet Season	The same of the sa	
		1	/ 2000 000 000 000 000 000 000 000 000 0	utilizing non-potable water during extended dry spells.	
	1	4		nd vegetable gardens shall be watered only by drip irrigation or hand watering.	





ens may be watered

DWR Population Tool

- Especially useful for non-municipal systems
- Registration required
- Need help, call us

DWR Population Tool

A free, online tool for water suppliers to calculate their historical population using GIS and US Census data.



PowerPoint Demonstration of Population Tool http://www.water.ca.gov/calendar/ Index.cfm?meeting=25150





Reporting Energy Intensity (EI)

- Voluntary reporting
- SMUD study established El for most agencies
- Need help, call us

able O-18: Voluntary Energy Intensity -	Total Utility Appr	oach		
Enter Start Date for Reporting Perio End Date	d 10/1/2014 e 9/30/2015	Urban Water Suppl	ier Operational C	ontrol
		Sum of All Water Management Processes	90,500,000,000	sequential power
		Total Utility	Hydropower	NetUtility
Volume of Water Enteri	ing Process (AF)	Ů.	0	.0
Energy Consumed (kWh)			0	0
Energy Co	onsumed (kWh)	0	9	- 4
The state of the s	ensity (kWh/AF)	0.0	0.0	0.0
Energy Inte	ensity (kwh/AF)	.00		
Energy Integrated Renewable E guantity of Self-Generated Renewable E ata Quality (Estimate, Metered Data, Co	ensity (kwh/AF)	.00		
Energy Inte wantity of Self-Generated Renewable E ata Quality (Estimate, Metered Data, Co ropdown menu	ensity (kwh/AF)	.00		
Energy Integrated Renewable E guantity of Self-Generated Renewable E ata Quality (Estimate, Metered Data, Co	ensity (kwh/AF)	.00		





Informational Presentation

Speaker: Bob Siebenhaar

Company: Siebe Innovations

Product: Shower Bootie

Website: myshowerbootie.com

Time: 10 minutes







Northern CA Home & Garden Expo

January 29th-31st 2016 Cal Expo, Sacramento

RWA will have a booth.

We need volunteers!!!
Free admission and parking
Sign up today!







Announcements and Events

California Irrigation Institute Conference January 25-26th 2016

Hilton Sacramento Arden West

\$125 1 day, \$200 full conference

CEUs available

www.caii.org/







Celebrating 15 years







Next RWEPAC Meetings

January 12, 2016

March 8, 2016

May 10, 2016

July 12, 2016

September 13, 2016

November 8, 2016

December 13, 2016

January 10, 2017





Time for Lunch





