



Modifications to Water Efficiency Incentives

June 7, 2022



Background

May 4, 2021: Board adopted enhanced incentives to support the water shortage emergency

- Limited term enhanced incentives to support customer response to achieve the 40% overall water conservation call to action

May 3, 2022: Board rescinded the water shortage emergency

- Incorporated some response actions into “normal” year
- Enhanced incentives need to be considered to align with the end of the water shortage emergency

Flume - Smart Home Monitoring Program

- Provides minute by minute water use to mobile device/ computer, assigns type of use (irrigation, shower, etc)
- Point of Purchase Discount with Flume
 - District portion: \$75/ device
 - Prop 1 Grant Reimbursement: 50% up to \$212,250 (~\$126,000 to date)
- End Use Study Provides District Specific Data
 - Leaks: 50% of households had a leak, average leak duration 9 hrs

Flume Program Water Savings

2020 avg residential use	94,255	gallons
Savings	10%	10-18% CCWD & SAWS
Savings per unit	9,426	gal per yr

Cost: \$401/acft

Recommendation: Retain Flume incentive until AMI is implemented

Peer Review of Turf Rebate Programs

Utility	(\$/sqft)	Tiered Rebate	Plant Coverage, Water Use Classification
City of Rohnert Park	\$1.00		Not required
City of Santa Rosa	\$1.50		50%, Very Low or Low
City of Healdsburg	\$1.00		No % specified, Very Low or Low
North Marin Water District	\$1.00	\$0.25-0.5, up to \$1.00 if replanting	No % specified, Very Low or Low
Town of Windsor	\$1.00		Not required, Very Low or Low
EBMUD	\$0.75	\$1.50 for sheet mulching AND mostly natives, OR medians	50%, Very Low or Low
Valley Water	\$2.00	Higher rebate if in cost sharing location	50%, Very Low or Low
City of Napa	\$1.00	\$2 for turf strips	50%, Very Low or Low

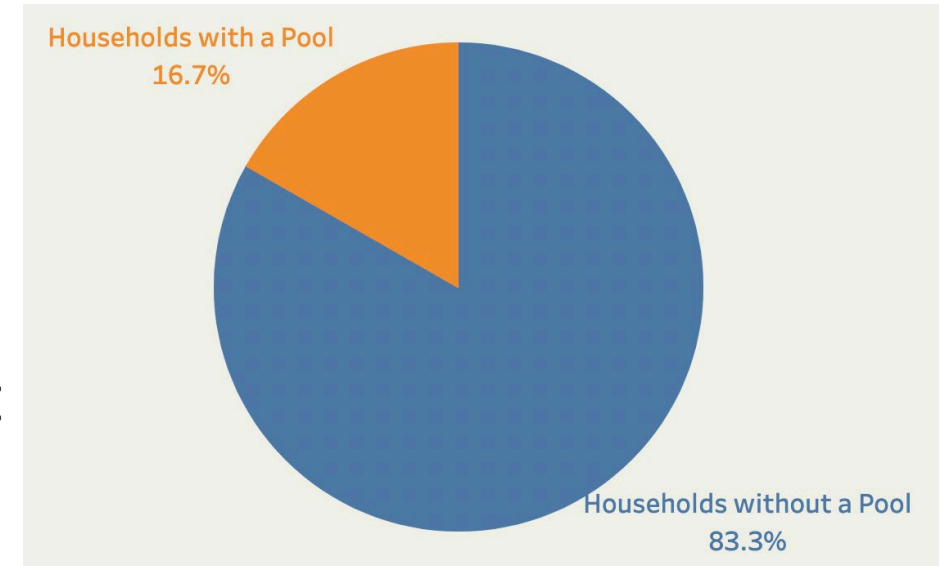
Turf Program Recommended Changes

	Original Rebate	Water Shortage Emergency Program		Proposed Base Rebate	Proposed Top Tier Rebate
(\$/sqft)	\$1.00	\$3.00		\$0.75	\$1.50
Plant Coverage, Water Use Classification	50% coverage, WUCOLS Very Low or Low	Replanting discouraged during drought		No requirement, WUCOLS Very Low or Low	50% coverage, WUCOLS Very Low or Low
Best Practices	Encouraged	Encouraged		Encouraged	<ul style="list-style-type: none"> • Sheet mulch vs. physical removal • Mostly native plants • Must include an alternative water source, e.g. (rain garden, greywater, rainwater harvesting)
Savings	28 gal/sqft assumed for all programs				
Rebate Cost/AF	\$775	\$1,759		\$582	\$1,164

Pool Cover Rebate

- Ordinance 461 Requires all recreational pools and spas shall have covers, subject to the variance provisions as set forth in section 13.02.050.
- Evaporation reduced by 30-90%, ~11-37 gallons/sqft/yr, ~3,000-9,000 gal/pool
- ~7,000 pool in service area
- Recommendation: \$100 rebate for solid and liquid pool covers

Cost: \$663-\$1,989/acft



Type of Cover	Reduced Evaporation
Liquid	30% -50%
Solid	<90%

Pool Cover Savings		
Annual Evaporation	28	gallons/yr
Avg pool size	530	sq ft
Savings Potential	15,050	gal per yr

Hot Water Recirculating System Rebate

Reduces water waste while waiting for the water to get hot.

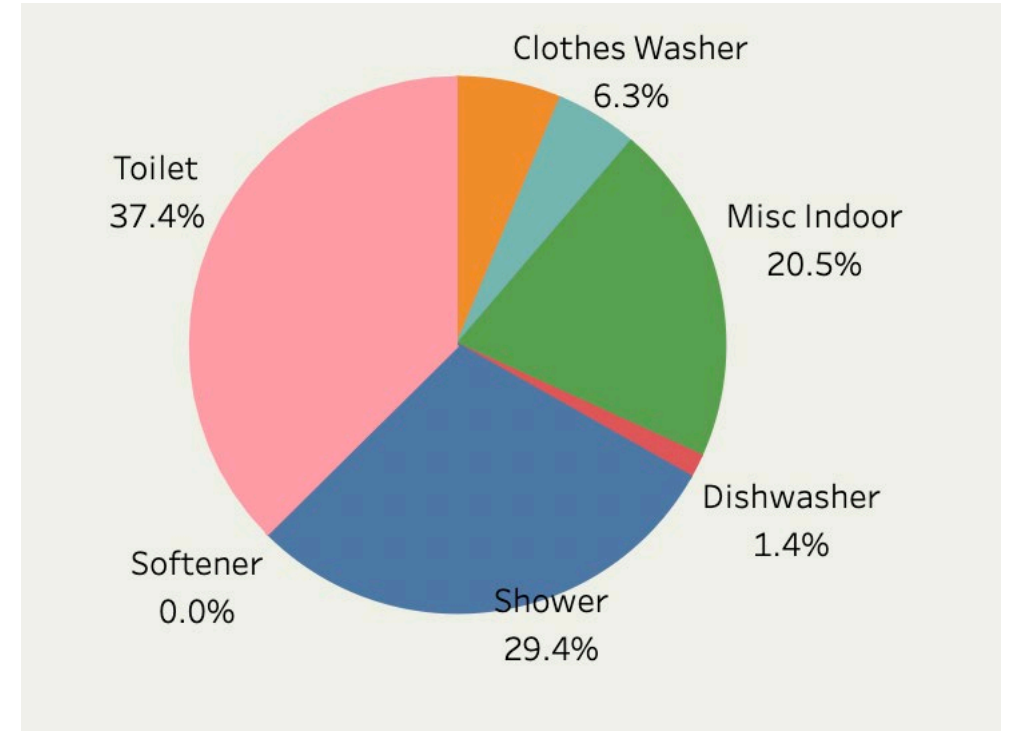
- Impacts use in showers, clothes washers, faucets

15 in 2019, 102 rebates in 2021, 40 2022

Savings vary greatly: 3,600 to 12,000 gal/yr (10-33 GHPD)

Cost: \$905/acft

Recommendation: Retain



	Avg. Flow Rate (GPM)	Median Flow Rate (GPM)	Avg. Volume (gals)
Clothes Washer	1.0	0.8	30.5
Shower	1.9	1.7	10.5

Toilet Replacement Programs

1993-2019: Over 48,000 toilets incentivized, additional 14,000 replaced through policy

Policy

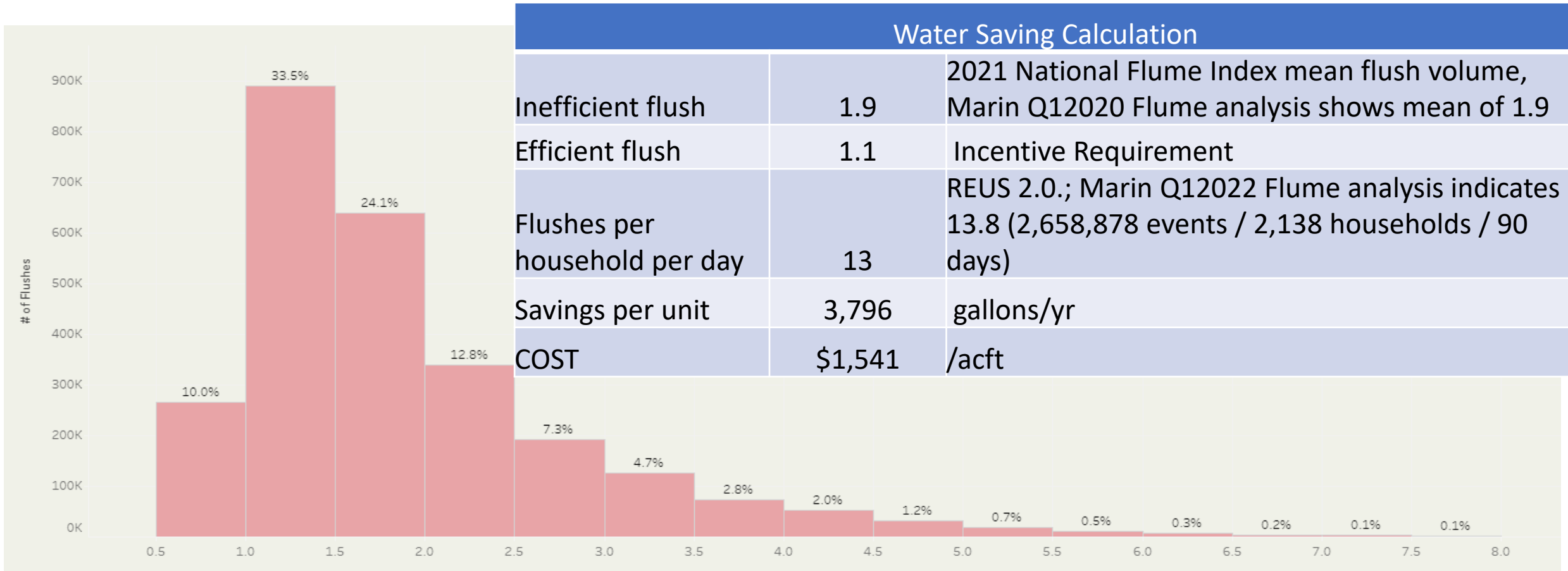
- As of 2014, only HET's can be sold in CA (AB715)
- Residential Time-of-Sale Ordinance (2002-2004)
- Residential Time-of-Service Ordinance (2004-2007)

Incentives

- No-interest loan programs (1993-1998)
- ULFT toilet rebate programs (1994-2002)
- Free Toilet Giveaways (1995-2000)
- Multi-Family Direct Install Program (2004-2005)
- School Retrofit Program (1996-2003)
- HET Rebate Program (2007-2009, 2012-2019)
- HET Water Shortage Emergency Reinstatement (2021)



Toilet Flush Volumes and Water Savings



Recommendation: Do not retain a high efficiency toilet rebate.

Summary and Next Steps

- Incentives Recommended to Retain:
 - Flume
 - Hot Water Recirculation
 - Pool Cover
 - Turf Conversion (with modifications)
- Incentives Recommended to Suspend:
 - High Efficiency Toilet Rebate
- Bring board item for adoption of incentive program modifications