



The 2016 Monterey Peninsula Water Conservation and Rationing Plan

Public Hearing Item 14
MPWMD Board of Directors
January 27, 2016

“Old” Conservation/Rationing Plan

- 7-Stage Plan
- First 4 Stages intended to achieve regulatory compliance with Cease & Desist Order (CDO)
- Stages 5-7 Water Rationing
 - Regulatory
 - Drought
 - Emergency

Problems with the “Old” Plan

- Plan must be updated as part of CDO extension request
- Difficult and expensive to administer
- Landscape water use is lower than Stage 2 water budgets
- Using Cal-Am survey data, at the minimum ration of 35 GPCD, there is insufficient water for non-residential uses
- Commercial factors don't account for different business practices
- Shuttering businesses impacts the community
 - Jobs (hospitality industry provides 22,000 jobs)
 - Local economy

New 2016 Conservation/Rationing Plan

Stage 1	Stage 2	Stage 3	Stage 4
Prohibition on Water Waste	Voluntary Conservation	Conservation Rates	Rationing
<ul style="list-style-type: none">• Always in effect• Contains definition of water waste, enforcement process, and water waste fees	<ul style="list-style-type: none">• Increased water waste enforcement	<ul style="list-style-type: none">• 25% level 1 surcharge• 40% level 2 surcharge	<ul style="list-style-type: none">• Residential rations first• Non-essential & outdoor water use restrictions• Moratorium

New 2016 Conservation/Rationing Plan

- Best Management Practice-compliant commercial use variance
- “Hardship” variances available (Large Households, Medical, etc.)
- No variances/exemptions for:
 - Short-term residential housing (household ration only)
 - Guests and short-term visitors
 - Irrigation
 - Filling spas, ponds, fountains, etc.
 - Leaks that are not repaired within 72 hours of notice

New 2016 Conservation/Rationing Plan

- Stage Implementation Triggers
 - Physical shortage (Water Resource System storage)
 - Regulatory (missed production targets)
 - Regulatory order
 - Emergency

New 2016 Conservation/Rationing Plan

- Stage Sunset Triggers
 - Physical storage normal for 2 months
 - Less than or equal to its then-current annual production target for two (2) consecutive months
 - Governmental or regulatory agency rescinds the request and physical storage is normal and production targets are being met
 - Emergency over

New 2016 Conservation/Rationing Plan

- Stage 3 Triggers (applicable to Cal-Am only)
 - Stage 2 deemed unsuccessful after 6 months
 - Physical storage trigger at May Board meeting: Total Storage Available in Table XV-4 is below 95% of Total Storage Required
 - Cal-Am production is greater than 105 percent of the then-current annual production target and Stage 2 has not been implemented
 - Directed by a governmental or regulatory agency
 - Emergency exists

New 2016 Conservation/Rationing Plan

- Stage 3 has 2 levels of “conservation rates” at residential tiers 2-5 and non-residential divisions
 - Level 1: 25% increase (Residential Tier 1 exempt)
 - Level 2: 40% increase (Residential Tier 1 exempt)
- Cal-Am customers notified 30 days before Level 1 or Level 2 rates
- Level 2 conservation rates are implemented after 3 months

New 2016 Conservation/Rationing Plan

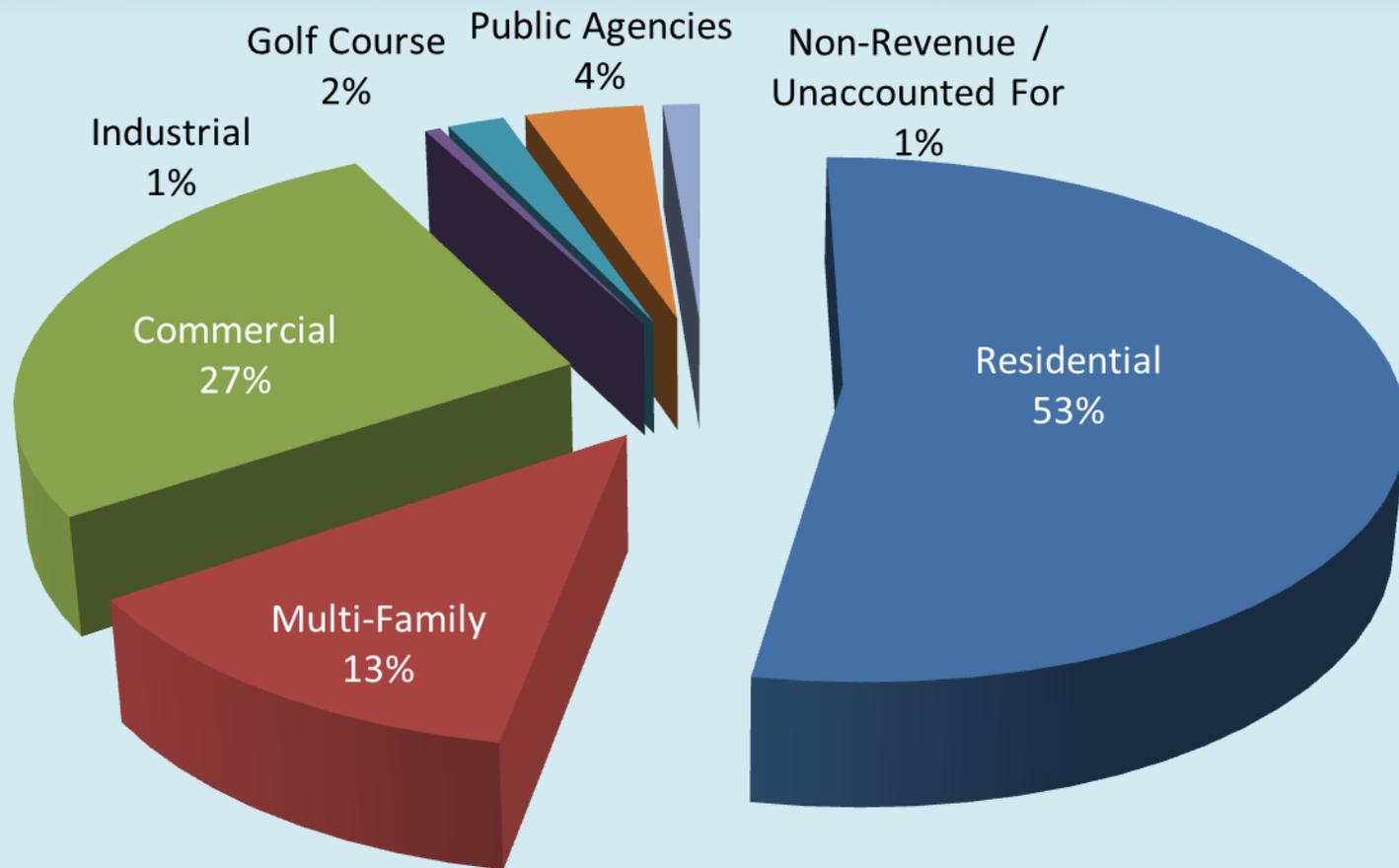
- Stage 4 Triggers
 - Regulatory: Stage 3 (Cal-Am) Stage 3 deemed unsuccessful after 8 months
 - Physical: Stage 3 (Cal-Am) and Stage 2 (non-Cal-Am) deemed unsuccessful after 8 months
 - Directed by a governmental or regulatory agency
 - Emergency exists
- Delay: General Manager determines that production targets (CDO) are likely to be met by a lower Stage
- May delay up to 60 days to ensure adequate operation of the program

New 2016 Conservation/Rationing Plan

- Stage 4 Sunset
 - Regulatory: 12 month total production has been less than or equal to its then-current annual production target for two (2) consecutive months
 - Physical: remaining Total Storage Available computed consistent with Table XV-4 is greater than remaining Total Storage Required for two (2) consecutive months
 - Governmental or regulatory agency rescinds the request
 - Emergency ceases

Example of Stage 4 Water Rationing

Water Use on the Monterey Peninsula



Rationing Example: Loss of 1,000 AF

	Acre-Feet	Gallons
Water Available:		
From Carmel River (per CDO Modification Application)	8,310	2,707,821,810
From Seaside Basin (after 2018 ramp-down)	<u>1,820</u>	<u>593,048,820</u>
Total	<u>10,130</u>	<u>3,300,870,630</u>
Adjust for Unaccounted for Water (2014 ratio 91.07%)	9,225	3,006,102,883

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Prior year customer demand (2014)	10,158	3,309,994,458

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Reduction Required:		
Prior year minus water available	933	303,891,575

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Reduction Required:		
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Less amount to come from Commercial Irrigation	12	4,000,000
Less amount to come from Commercial Verification	<u>1</u>	<u>350,000</u>
Net Reduction Required	919	299,541,575

Rationing Example: Loss of 1,000 AF

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Determine Ratio:		
Prior year residential demand		2,216,394,600
Reduction required		299,541,575
Percent reduction required		13.5%

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Determine Ration:

Prior year residential demand		2,216,394,600
Reduction required		299,541,575
Percent reduction required		13.5%
Prior year single-family demand		1,683,080,866
Prior year single-family per household (33,309)		50,529
Prior year per household per day consumption		138
Revised per household with percent reduction		43,700
Revised per household per day ration		120

Rationing in the Commercial Sector

- Non-customer driven (only bathrooms) = small capacity for savings
- Customer driven (restaurants/hotels): TOT and sales tax feed the local budgets (if we ask these businesses to reduce service to customers, do we also ask DLI, NPS, MPC and MIIS to reduce enrollment?)
- Water driven businesses (nurseries, laundromats, and coffee shops)
- Water dependent businesses for health and safety purposes (hospitals, assisted living, dialysis, etc.)
- School sports fields, the two potable golf courses
- Previous investments in BMPs

Public and Committee Review

- Recommended by Water Demand Committee
- Two Public Workshops
- Cal-Am Public Workshop
 - Part of the current rate proceeding (A.15-07-019)

Recommendation

- Receive public comment
- Approve first reading of Ordinance No. 169

Staff reports, ordinances and presentation materials can be found on the District's website at:

www.mpwmd.net

PowerPoint presentations will be posted on the website the day after the meeting