

REPORT TO CITY COUNCIL

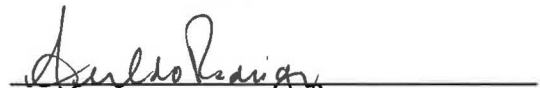
Approved by:

Council Meeting of: February 6, 2019

 FOR

John Scarborough, Interim Public Works Director

Agenda Number: ^{B-3} _____



Arnoldo Rodriguez, City Manager

SUBJECT:

Water Conservation Report for December 17th through January 20th

RECOMMENDATION:

Staff recommends that City Council review the attached report of water conservation activities and progress in reducing residential water consumption. This monthly report is for informational purposes only.

SUMMARY:

This report addresses four different areas of focus:

1. Water conservation and education
2. Water patrol activity
3. Water meter maintenance activity
4. Information on the overall capacity of the City's water wells, including the amount of production and reserve production capacity

DISCUSSION:

As illustrated in the following chart, the City's average monthly water conservation rate for the period of December 17th through January 20th increased from 17.5 percent in 2017 to 33.4 percent this year. Below is the most current water conservation data.

Monthly Conservation

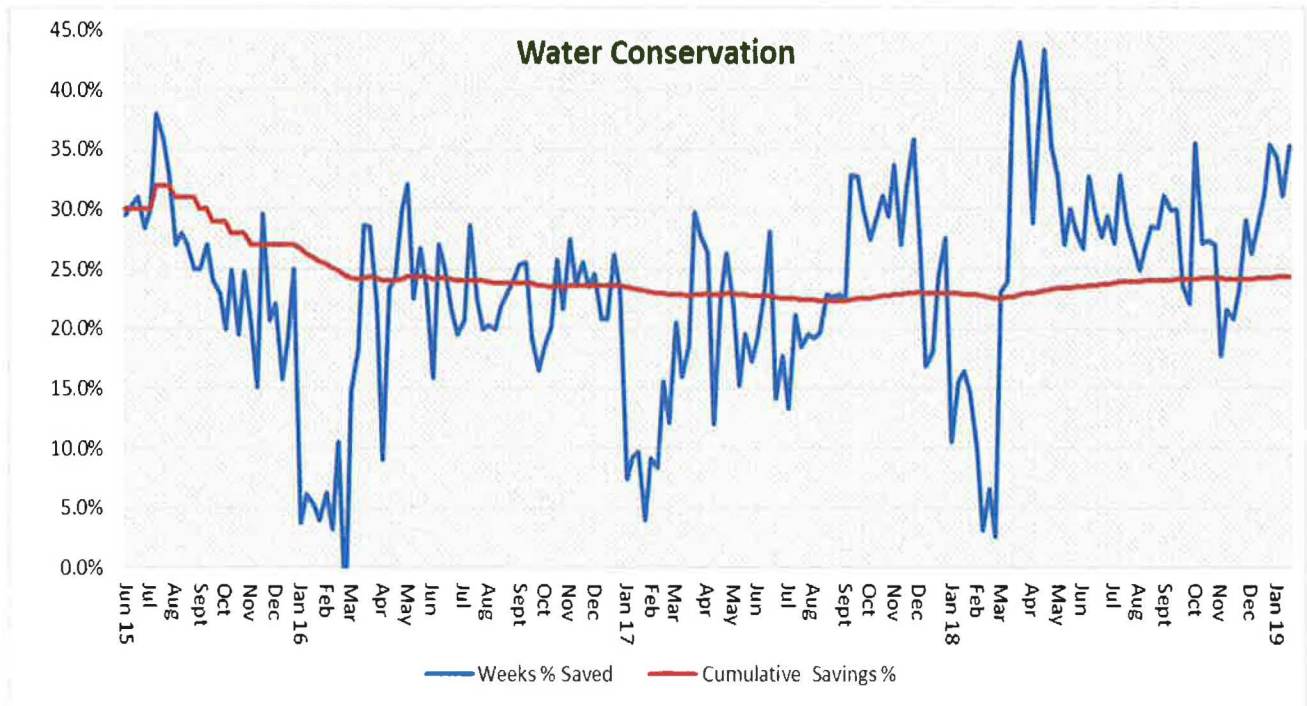
Dec. 17th
Through
Jan. 20th

33.4%

Cumulative Conservation

June 1st, 2015
Through
Jan. 20th, 2019

24.4%



Water Conservation Outreach: As part of the Division’s local outreach and education program, water conservation and rebate information presentations were made at the following events:

Conservation Outreach

Facebook and Twitter Postings
Water conservation tips and on rebate program info

January Utility Billing Newsletter
Watering schedule and article regarding rebate program

Water Conservation Activities: In an effort to encourage water conservation, staff conducts extensive outreach in an attempt to educate customers. While on occasion an infraction may be issued, the vast majority of contacts are in the form of warnings and notices informing customers of areas that may need to be addressed. The following table provides a summary of such contacts.

Enforcement			
Individual Contacts	139	1st offense (\$75)	2
Verbal Warnings	40	2nd offense (\$200)	0
Maintenance Notices	24	3rd or more offenses (\$500)	0

Water Meters: In addition to the monthly reading of the manual read meters and the service interruptions due to delinquency, the water meter staff performed various repairs and/or meter programming at 60 properties. Customer concern investigations were conducted at 20 properties and resulted in the discovery of leaks at 5 properties, notification of need for irrigation adjustments at 5 properties and provided requested usage or other information at 10 properties.

System Capacity: The system has continued to produce adequate flows to meet our peak demand and maintain reserve fire flow capacity. This information is summarized in the Status Report on the following page.

FINANCIAL IMPACT:

The expenses for implementing and administering water conservation activities occur within the Water Fund and have no impact the General Fund.

CONSISTENCY WITH THE VISION MADERA 2025 PLAN:

The report is consistent with the Madera Vision Plan, specifically Strategy 434: Water Quality and Usage – Ensure continued water supplies to meet the demands of all Maderans through innovative reclamation, conservation and education on water use.

ALTERNATIVES:

This is an informational report; no alternatives have been identified.

ATTACHMENTS:

1. Status Report December 17, 2018 - January 20, 2019 - Water Production and Reserve Fire Flow Capacity

STATUS REPORT DECEMBER 17th JANUARY 20TH, 2019
WATER PRODUCTION AND RESERVE FIRE FLOW CAPABILITY

Dates	Day	Peak Temp	MG Pumped	Peak Hour	Lowest Pressure*	Lowest Tank Storage **	Wells Available	Wells On During Peak Hours	Wells in Reserve During Peak Hours	Reserve GPM at Peak	Reserves Meets Fire flow for			
											Residential 1,500 GPM	Commercial 2,500 GPM	Industrial 3,500 GPM	Hospital 4,500 GPM
12/17/2018	Sat	62	4.389	1pm-2pm	45	780,000	16	5	11	12041	Yes	Yes	Yes	Yes
12/18/2018	Sun	64	4.626	5pm-6pm	44	780,000	16	6	10	12130	Yes	Yes	Yes	Yes
12/19/2018	Mon	61	4.829	3pm-4pm	45	780,000	16	5	11	12236	Yes	Yes	Yes	Yes
12/20/2018	Tue	62	4.707	6pm-7pm	44	780,000	16	7	9	10526	Yes	Yes	Yes	Yes
12/21/2018	Wed	65	4.558	12pm-1pm	45	780,000	16	6	10	12161	Yes	Yes	Yes	Yes
12/22/2018	Thu	60	4.708	3pm-4pm	45	780,000	16	5	11	12982	Yes	Yes	Yes	Yes
12/23/2018	Fri	62	4.864	4pm-5pm	45	780,000	16	6	10	12636	Yes	Yes	Yes	Yes
12/24/2018	Sat	61	4.467	12pm-1pm	43	780,000	16	8	8	9926	Yes	Yes	Yes	Yes
12/25/2018	Sun	60	4.474	12pm-1pm	45	780,000	16	5	11	13961	Yes	Yes	Yes	Yes
12/26/2018	Mon	60	4.782	5pm-6pm	43	780,000	16	7	9	11415	Yes	Yes	Yes	Yes
12/27/2018	Tue	57	4.444	10am-11am	44	780,000	16	6	10	11036	Yes	Yes	Yes	Yes
12/28/2018	Wed	56	4.353	2pm-3pm	38	780,000	16	6	10	11415	Yes	Yes	Yes	Yes
12/29/2018	Thu	57	4.347	4pm-5pm	43	780,000	16	6	10	11346	Yes	Yes	Yes	Yes
12/30/2018	Fri	57	4.413	4pm-5pm	44	780,000	16	5	11	13146	Yes	Yes	Yes	Yes
12/31/2018	Sat	54	4.390	3pm-4pm	44	780,000	16	7	9	10215	Yes	Yes	Yes	Yes
1/1/2019	Tue	52	4.758	1pm-2pm	45	780,000	16	4	12	14036	Yes	Yes	Yes	Yes
1/2/2019	Wed	58	4.725	2pm-3pm	44	780,000	16	5	11	13126	Yes	Yes	Yes	Yes
1/3/2019	Thu	60	4.661	3pm-4pm	44	780,000	16	5	11	13055	Yes	Yes	Yes	Yes
1/4/2019	Fri	65	4.438	12pm-1pm	44	780,000	16	5	11	12236	Yes	Yes	Yes	Yes
1/5/2019	Sat	58	4.401	3pm-4pm	45	820,000	16	5	11	12236	Yes	Yes	Yes	Yes
1/6/2019	Sun	57	4.705	1pm-2pm	45	780,000	16	5	11	12236	Yes	Yes	Yes	Yes
1/7/2019	Mon	66	4.404	12pm-1pm	46	780,000	16	5	11	12236	Yes	Yes	Yes	Yes
1/8/2019	Tue	67	4.341	2pm-3pm	46	780,000	16	4	12	14036	Yes	Yes	Yes	Yes
1/9/2019	Wed	62	3.547	2pm-3pm	45	780,000	16	4	12	13271	Yes	Yes	Yes	Yes
1/10/2019	Thu	57	3.631	12pm-1pm	45	780,000	16	4	12	13271	Yes	Yes	Yes	Yes
1/11/2019	Fri	63	3.617	2pm-3pm	46	780,000	16	4	12	13271	Yes	Yes	Yes	Yes
1/12/2019	Sat	65	3.458	6pm-7pm	45	780,000	16	4	12	13871	Yes	Yes	Yes	Yes
1/13/2019	Sun	65	3.783	11am-12pm	45	780,000	16	4	12	13271	Yes	Yes	Yes	Yes
1/14/2019	Mon	58	3.657	9pm-10pm	45	780,000	16	4	12	13871	Yes	Yes	Yes	Yes
1/15/2019	Tue	60	3.467	9pm-10pm	45	780,000	16	4	12	13871	Yes	Yes	Yes	Yes
1/16/2019	Wed	65	3.568	5pm-6pm	45	780,000	16	4	12	14250	Yes	Yes	Yes	Yes
1/17/2019	Thu	65	3.477	7pm-8pm	45	780,000	16	4	12	14250	Yes	Yes	Yes	Yes
1/18/2019	Fri	65	3.369	7pm-8pm	46	780,000	16	4	12	14250	Yes	Yes	Yes	Yes
1/19/2019	Sat	67	3.661	1pm-2pm	46	780,000	16	4	12	13271	Yes	Yes	Yes	Yes
1/20/2019	Sun	67	3.746	11am-12pm	45	780,000	16	5	11	12450	Yes	Yes	Yes	Yes

* Goal is to keep system above 30 psi., below 20 cause regulatory issue.

** Elevated tank has a 1,000,000 gallon maximum capacity.

19 **Total Wells**
 3 **Wells Not Available**
 #16 Being Retrofitted for Submersible Pump to Gain 500 gpm
 #20 Air intrusion
 #27 Redevelopment in process
 16 **Number of Wells Available**

