



REPORT TO CITY COUNCIL

Approved by:

John Scarborough, Interim Public Works Director

Arnoldo Rodriguez, City Manager

Council Meeting of: October 16, 2019

Agenda Number: B-4

SUBJECT:

Informational Water Conservation Report for August 19th through September 22nd

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 August 19th through September 22nd shows a slight decrease from 28.58 percent in 2018 to 23.4 percent this year. Below is the most current water conservation data.

Monthly Conservation

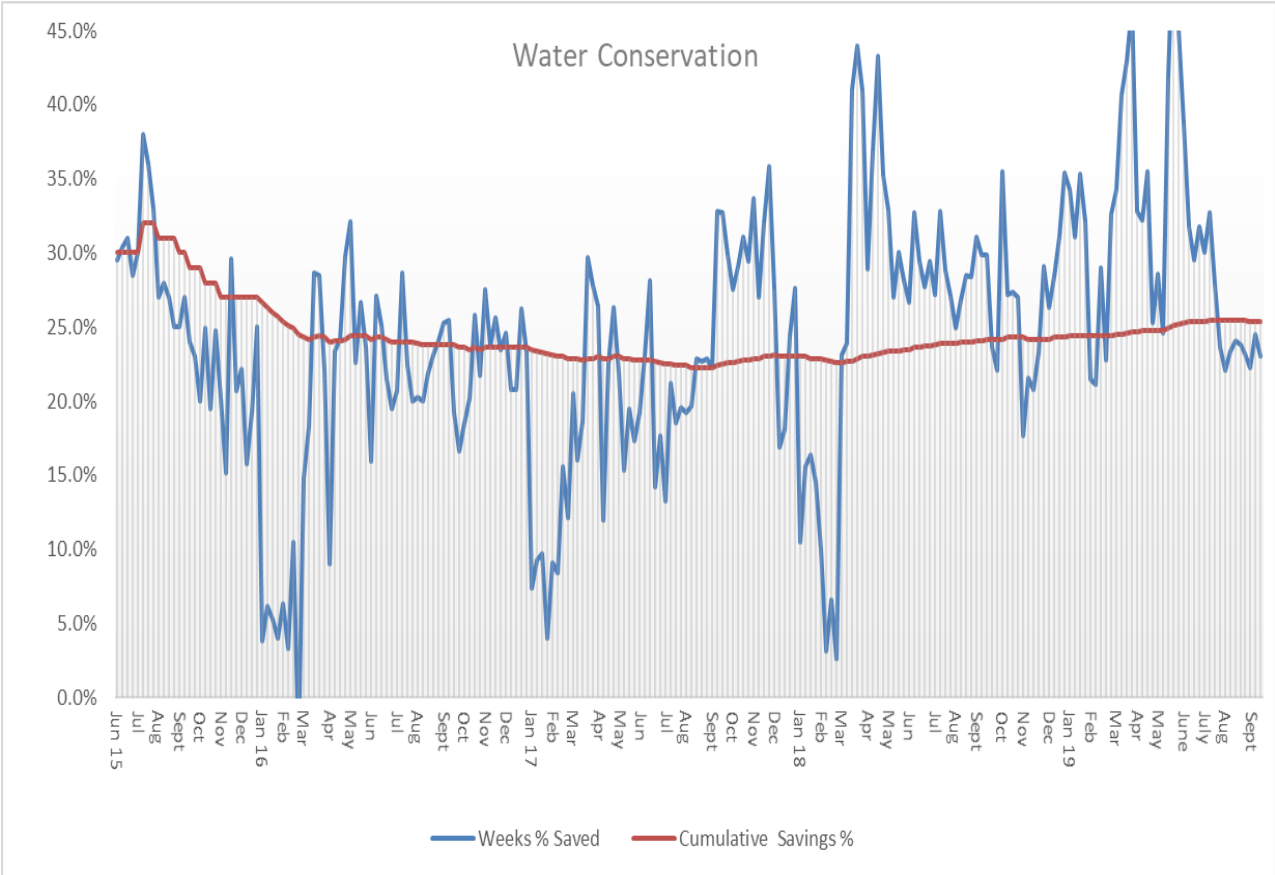
August 19th
Through
September 22nd

23.4%

Cumulative Conservation

June 1st, 2015
Through
September 22nd, 2019

25.4%



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
Sprinkler timer tips

September Utility Billing Newsletter
Watering schedule, rebate program and sprinkler timer tips articles

Events
Madera District Fair - September 5th-8th, 2019
Neighborhood Watch Events - August 27th – District 2

Water Conservation Activities:

To encourage water conservation, staff conducts extensive outreach 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	398	1st offense (\$75)	93
Verbal Warnings	38	2nd offense (\$200)	5
Maintenance Notices	60	3rd or more offenses (\$500)	3

Water Meters:

In addition to the monthly reading of the manual read meters and the service interruptions due to account payment delinquency, the water meter staff performed various repairs and/or meter programming at 40 properties. Customer concern investigations were conducted and resulted in the discovery of leaks at 13 properties and need for adjustments to irrigation systems at 15 properties. Courtesy leak notifications were sent to an additional 43 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 Madeirans through innovative reclamation, conservation and education on water use.

ALTERNATIVES:

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

ATTACHMENTS:

1. Status Report August 19 through September 22, 2019 - Water Production and Reserve Fire Flow Capacity

**STATUS REPORT AUGUST 19TH to SEPTEMBER
22ND, 2019
WATER PRODUCTION AND RESERVE FIRE FLOW CAPABILITY**

ATTACHMENT #1

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
8/19/2019	Mon	95	7.508	8pm-9pm	43	680,000	16	14	2	10688	Yes	Yes	Yes	Yes
8/20/2019	Tue	94	11.904	10pm-11pm	34	600,000	16	13	3	2645	Yes	Yes	Yes	Yes
8/21/2019	Wed	96	11.705	9pm-10pm	36	600,000	16	13	3	4593	Yes	Yes	Yes	Yes
8/22/2019	Thu	97	11.274	10pm-11pm	32	680,000	16	14	2	3257	Yes	Yes	Yes	Yes
8/23/2019	Fri	101	10.932	10pm-11pm	40	820,000	16	13	3	3599	Yes	Yes	Yes	Yes
8/24/2019	Sat	101	12.260	10pm-11pm	38	780,000	16	14	2	2645	Yes	Yes	Yes	Yes
8/25/2019	Sun	103	12.885	9pm-10pm	34	680,000	16	14	2	2645	Yes	Yes	Yes	Yes
8/26/2019	Mon	102	7.539	7pm-8pm	43	880,000	16	7	9	10439	Yes	Yes	Yes	Yes
8/27/2019	Tue	105	12.131	9pm-10pm	31	680,000	16	15	1	1743	Yes	Yes	Yes	Yes
8/28/2019	Wed	104	12.231	9pm-10pm	37	680,000	16	15	1	1743	Yes	Yes	Yes	Yes
8/29/2019	Thu	97	11.255	10pm-11pm	37	680,000	16	12	4	4935	Yes	Yes	Yes	Yes
8/30/2019	Fri	96	10.866	9pm-10pm	41	820,000	16	10	6	7088	Yes	Yes	Yes	Yes
8/31/2019	Sat	100	12.067	8pm-9pm	38	780,000	16	14	2	2645	Yes	Yes	Yes	Yes
9/1/2019	Sun	102	12.326	10pm-11pm	39	780,000	16	14	2	2645	Yes	Yes	Yes	Yes
9/2/2019	Mon	104	7.754	8pm-9pm	43	820,000	16	9	7	8338	Yes	Yes	Yes	Yes
9/3/2019	Tue	100	11.904	9pm-10pm	35	600,000	16	15	1	1743	Yes	Yes	Yes	Yes
9/4/2019	Wed	102	12.152	10pm-11pm	34	680,000	16	15	1	1743	Yes	Yes	Yes	Yes
9/5/2019	Thu	101	11.309	9pm-10pm	37	680,000	16	13	3	3981	Yes	Yes	Yes	Yes
9/6/2019	Fri	100	10.659	10pm-11pm	39	820,000	16	13	3	3599	Yes	Yes	Yes	Yes
9/7/2019	Sat	93	11.847	10pm-11pm	42	820,000	16	12	4	4935	Yes	Yes	Yes	Yes
9/8/2019	Sun	84	12.208	9pm-10pm	39	780,000	16	12	4	5314	Yes	Yes	Yes	Yes
9/9/2019	Mon	87	6.742	9pm-10pm	45	520,000	16	6	10	11689	Yes	Yes	Yes	Yes
9/10/2019	Tue	83	10.971	10pm-11pm	38	680,000	16	13	3	3978	Yes	Yes	Yes	Yes
9/11/2019	Wed	87	11.240	9pm-10pm	37	680,000	16	12	4	5314	Yes	Yes	Yes	Yes
9/12/2019	Thu	96	10.555	10pm-11pm	37	820,000	16	13	3	3978	Yes	Yes	Yes	Yes
9/13/2019	Fri	99	10.360	9pm-10pm	38	820,000	16	10	6	7384	Yes	Yes	Yes	Yes
9/14/2019	Sat	103	11.442	9pm-10pm	37	780,000	16	11	5	6182	Yes	Yes	Yes	Yes
9/15/2019	Sun	96	11.664	9pm-10pm	36	780,000	16	13	3	3978	Yes	Yes	Yes	Yes
9/16/2019	Mon	83	6.533	4pm-5pm	45	820,000	16	5	11	12619	Yes	Yes	Yes	Yes
9/17/2019	Tue	83	10.695	9pm-10pm	36	780,000	16	11	5	6134	Yes	Yes	Yes	Yes
9/18/2019	Wed	85	10.003	8pm-9pm	40	820,000	16	11	5	5755	Yes	Yes	Yes	Yes
9/19/2019	Thu	79	9.462	9pm-10pm	44	780,000	16	9	7	8588	Yes	Yes	Yes	Yes
9/20/2019	Fri	84	8.897	8pm-9pm	42	820,000	16	9	7	8588	Yes	Yes	Yes	Yes
9/21/2019	Sat	87	10.305	9pm-10pm	41	780,000	16	9	7	8588	Yes	Yes	Yes	Yes
9/22/2019	Sun	92	10.937	9pm-10pm	38	780,000	16	13	3	3981	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**
- 2 **Wells Not Available**
- #16 Being Retrofitted for Submersible Pump to Gain 500 gpm
- #27 Redevelopment in process

- 17 **Number of Wells Available**

0.000

