

REPORT TO CITY COUNCIL

Approved by:

Council Meeting of: September 18, 2019

A handwritten signature in blue ink, appearing to be "John Scarborough".

John Scarborough, Interim Public Works Director

Agenda Number: B-3

A handwritten signature in blue ink, appearing to be "Arnaldo Rodriguez".

Arnaldo Rodriguez, City Manager

SUBJECT:

Water Conservation Report for July 22nd through August 18th

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.

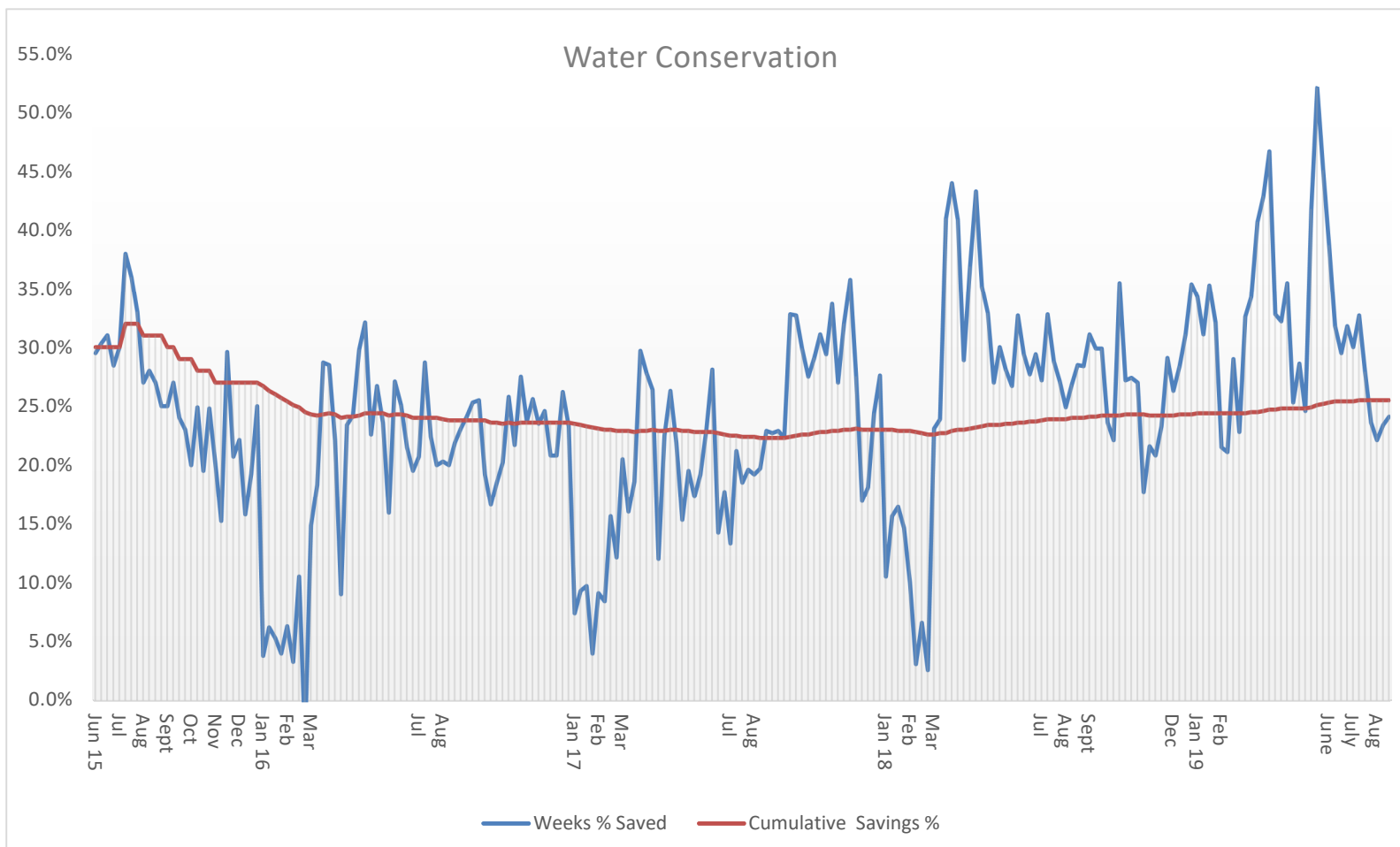
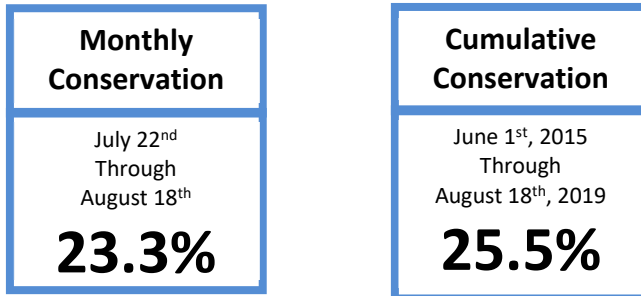
SUMMARY:

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 July 22nd through August 18th shows a slight decrease from 26.8 percent in 2018 to 23.3% this year. Below is the most current water conservation data.



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.

<p style="text-align: center;">Conservation Outreach</p> <p style="text-align: center;">Facebook and Twitter Postings Outdoor watering tips</p> <p style="text-align: center;">August Utility Billing Newsletter Watering schedule, rebate program and outdoor watering tips articles</p> <p style="text-align: center;">Events Please come by and visit the Water Conservation Department at their informational outreach booth at the Madera District Fair September 5th through 8th!</p>

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	334	1st offense (\$75)	86
Verbal Warnings	24	2nd offense (\$200)	4
Maintenance Notices	38	3rd or more offenses (\$500)	1

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 56 properties. Customer concern investigations were conducted and resulted in the discovery of leaks at 21 properties and need for adjustments to irrigation systems at 15 properties.

System Capacity:

While the system routinely produces adequate flows to meet our peak demand and maintain reserve fire flow capacity, on July 28th of this reporting period minimum fire flows for the highest criteria were not met. Staff anticipates this issue will improve with the expected cooler weather and the expected addition of well #38 to our system. 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 July 22, 2019 through August 18, 2019 - Water Production and Reserve Fire Flow Capacity

**STATUS REPORT July 22nd to AUGUST 18TH, 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
7/22/2019	Mon	104	7.641	6pm-7pm	44	820,000	16	6	10	11689	Yes	Yes	Yes	Yes
7/23/2019	Tue	102	12.570	8pm-9pm	34	780,000	16	14	2	2563	Yes	Yes	Yes	Yes
7/24/2019	Wed	106	12.728	10pm-11pm	38	680,000	16	15	1	954	Yes	Yes	Yes	Yes
7/25/2019	Thu	104	12.298	9pm-10pm	35	680,000	16	13	3	3599	Yes	Yes	Yes	Yes
7/26/2019	Fri	106	11.670	9pm-10pm	40	780,000	16	13	3	3599	Yes	Yes	Yes	Yes
7/27/2019	Sat	105	12.842	9pm-10pm	37	680,000	16	14	2	2645	Yes	Yes	Yes	Yes
7/28/2019	Sun	107	13.417	9pm-10pm	33	680,000	16	16	0	0	Yes	Yes	Yes	No
7/29/2019	Mon	104	7.031	6pm-7pm	44	820,000	16	7	9	10439	Yes	Yes	Yes	Yes
7/30/2019	Tue	99	13.021	9pm-10pm	33	600,000	16	15	1	902	Yes	Yes	Yes	Yes
7/31/2019	Wed	100	12.683	9pm-10pm	35	600,000	16	15	1	902	Yes	Yes	Yes	Yes
8/1/2019	Thu	100	11.964	10pm-11pm	38	780,000	16	14	2	2645	Yes	Yes	Yes	Yes
8/2/2019	Fri	98	11.247	10pm-11pm	40	780,000	16	13	3	2645	Yes	Yes	Yes	Yes
8/3/2019	Sat	102	12.411	9pm-10pm	38	680,000	16	13	3	3599	Yes	Yes	Yes	Yes
8/4/2019	Sun	105	13.026	9pm-10pm	36	680,000	16	15	1	902	Yes	Yes	Yes	Yes
8/5/2019	Mon	100	7.452	11am-12pm	44	520,000	16	7	9	10880	Yes	Yes	Yes	Yes
8/6/2019	Tue	104	12.366	9pm-10pm	33	600,000	16	15	1	1743	Yes	Yes	Yes	Yes
8/7/2019	Wed	101	12.627	10pm-11pm	37	680,000	16	14	2	2645	Yes	Yes	Yes	Yes
8/8/2019	Thu	95	11.785	10pm-11pm	38	680,000	16	13	3	3599	Yes	Yes	Yes	Yes
8/9/2019	Fri	92	10.992	9pm-10pm	39	780,000	16	11	5	6268	Yes	Yes	Yes	Yes
8/10/2019	Sat	91	12.086	9pm-10pm	40	780,000	16	13	3	3981	Yes	Yes	Yes	Yes
8/11/2019	Sun	91	12.649	10pm-11pm	35	780,000	16	14	2	2645	Yes	Yes	Yes	Yes
8/12/2019	Mon	96	7.179	9pm-10pm	44	820,000	16	7	9	10439	Yes	Yes	Yes	Yes
8/13/2019	Tue	101	12.069	9pm-10pm	32	600,000	16	15	1	1743	Yes	Yes	Yes	Yes
8/14/2019	Wed	105	12.218	9pm-10pm	34	680,000	16	15	1	1743	Yes	Yes	Yes	Yes
8/15/2019	Thu	107	11.817	9pm-10pm	36	680,000	16	15	1	1743	Yes	Yes	Yes	Yes
8/16/2019	Fri	108	11.088	9pm-10pm	37	600,000	16	12	4	4750	Yes	Yes	Yes	Yes
8/17/2019	Sat	101	12.499	9pm-10pm	38	680,000	16	13	3	3796	Yes	Yes	Yes	Yes
8/18/2019	Sun	95	12.757	9pm-10pm	34	520,000	16	13	3	3796	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**

Daily Production

