

State Water Resources Control Board Emergency Water Conservation Regulations Reporting

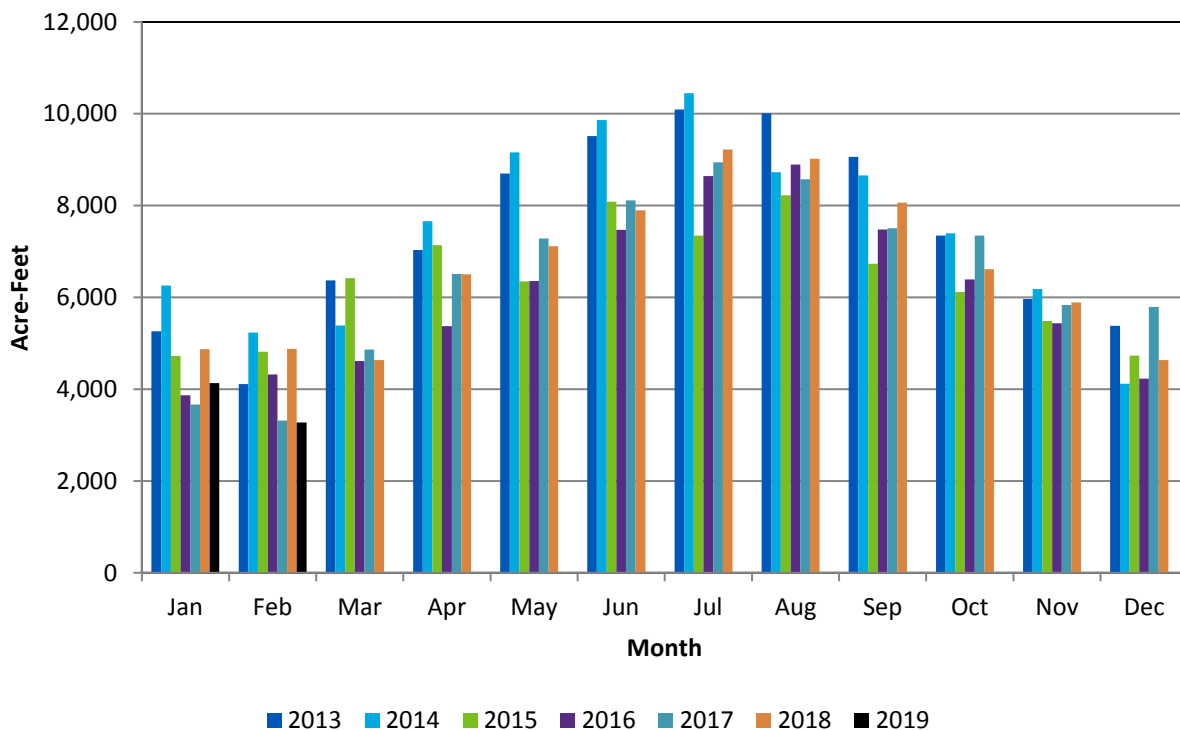
In 2014, the Governor of California declared a state of emergency in response to the statewide drought conditions, and subsequently issued several executive orders regarding conservation. To implement the governor's orders, the State Water Resources Control Board (SWRCB) passed Emergency Water Conservation Regulations, which were in place through April of 2017, when improving statewide water supply conditions allowed the Governor to declare the drought over for the majority of California. Portions of the drought regulation remain in place, including the prohibition of certain uses of water and the requirement for water suppliers to report monthly data.

EMWD staff has made monthly reports to the SWRCB in response to the emergency conservation regulations since August of 2014. These reports cover monthly water use in comparison to the corresponding month in 2013, the current stage of the Water Shortage Contingency Plan, water use efficiency in terms of residential gallons per capita per day (R-GPCD), and starting in March of 2015; monthly enforcement actions. Data reported to the SWRCB is not adjusted for climate or growth.

Water Demand

The figure below shows monthly water use compared to 2013. Monthly demand varies and months with little or no demand reduction can still reflect conservation when changing conditions such as weather, economic growth, and past conservation efforts are considered.

Water Demand: Comparison of Monthly Water Use



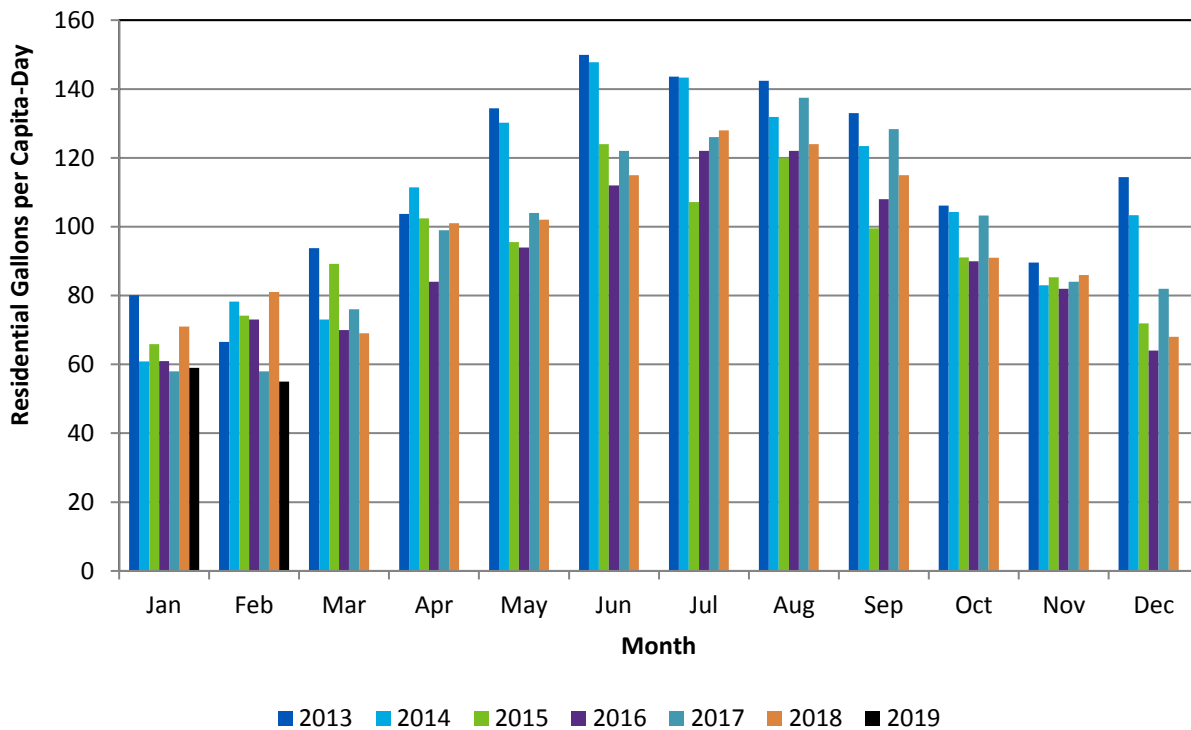
Monthly Change in Potable Water Use (Compared to 2013)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014	19%	27%	-15%	8.8%	5.3%	3.6%	3.5%	-13%	-4.4%	0.7%	3.5%	-23%
2015	-10%	17%	0.8%	1.5%	-27%	-15%	-27%	-18%	-26%	-17%	-8.1%	-12%
2016	-27%	5.2%	-28%	-24%	-27%	-21%	-14%	-11%	-17%	-13%	-8.9%	-21%
2017	-30%	-19%	-24%	-7.5%	-16%	-15%	-11%	-14%	-17%	0.0%	-2.3%	8%
2018	-7.4%	19%	-27%	-7.6%	-18%	-17%	-8.6%	-9.9%	-11%	-10%	-1.4%	-14%
2019	-21%	-20%										

Residential Gallons per Capita per Day (R-GPCD)

R-GPCD does account for some changes in population growth, but does not account for improved economic conditions or varied weather conditions.

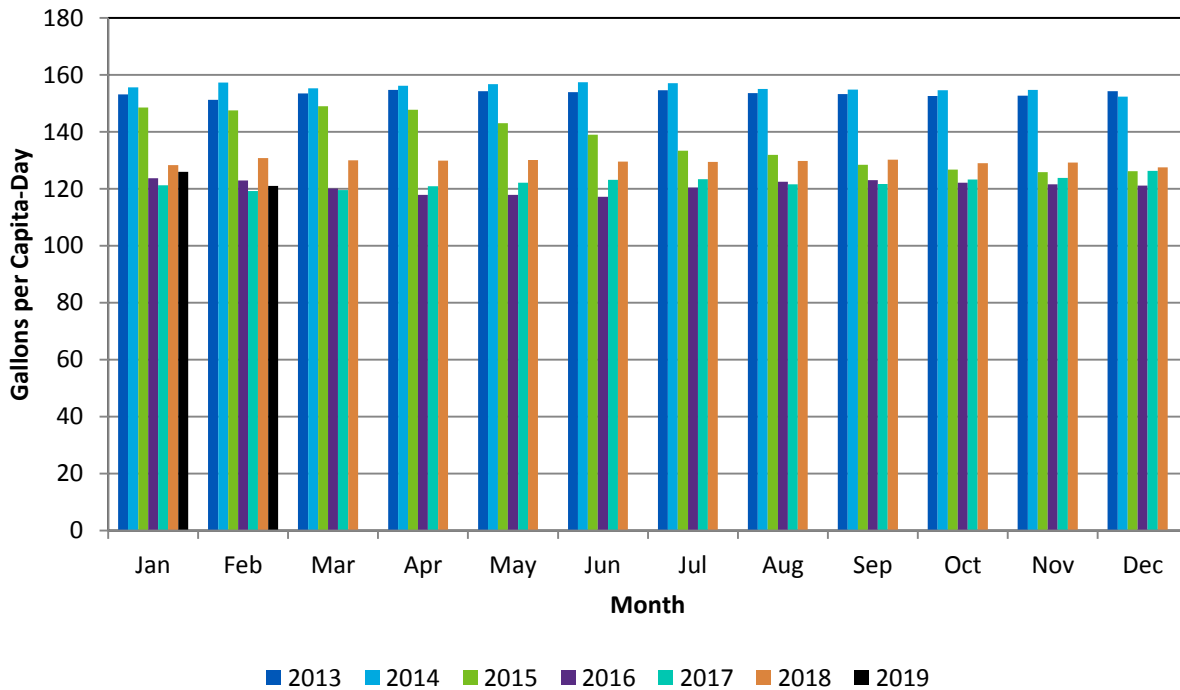
R-GPCD: Monthly Comparison



Rolling 12 Month GPCD

The highest rolling 12-Month GPCD calculated occurred through May 2014 to July 2014; the lowest 12-Month GPCD occurred in June 2016. Twelve Month GPCD values for January 2018 through December 2018, are higher than values calculated for all of 2016 and 2017.

<u>GPCD</u>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2013	153	151	154	155	154	154	155	154	153	153	153	154
2014	156	157	155	156	157	157	157	155	155	155	155	152
2015	149	148	149	148	143	139	133	132	128	127	126	126
2016	124	123	120	118	118	117	121	122	123	122	122	121
2017	121	119	120	121	122	123	123	122	122	123	124	126
2018	128	131	130	130	130	130	129	130	130	129	129	128
2019	126	121										

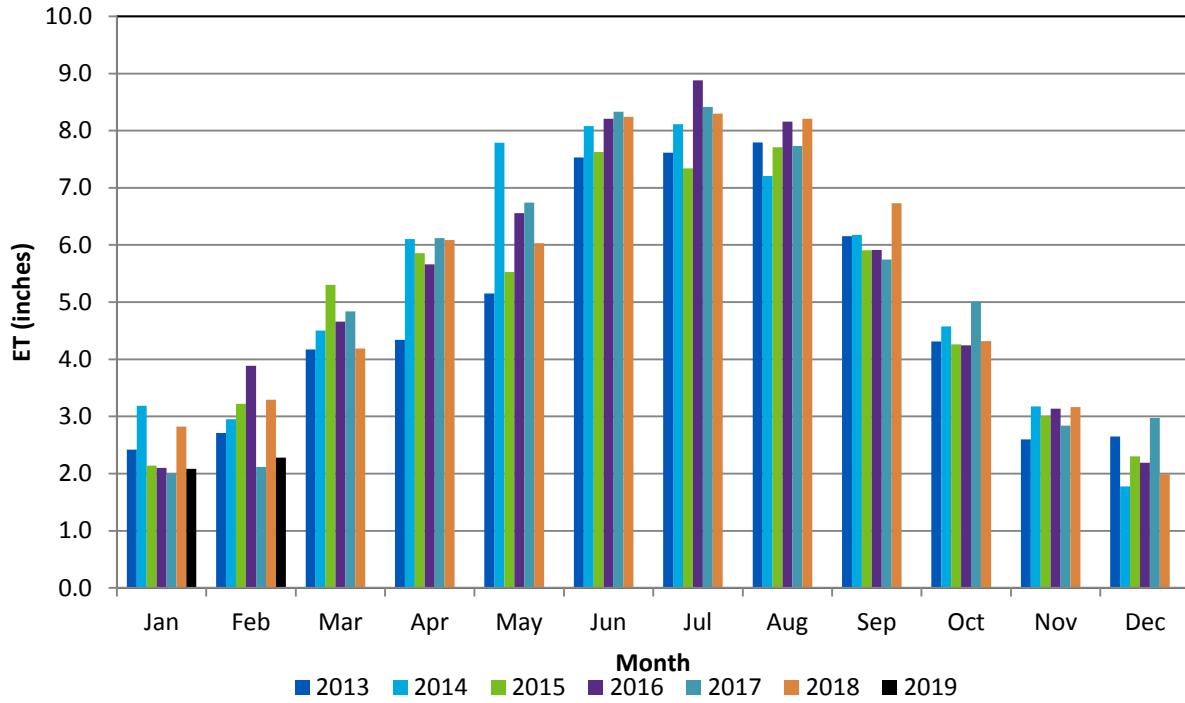


Weather Conditions

Monthly use comparisons do not take into account demand hardening, growth in the economy and development, and changes in weather. EMWD has seen a 30 percent decrease in outdoor water demand since the implementation of tiered rates. This means our customers have already made significant changes to reduce water demand. Foreclosures and unemployment have also decreased and we continue to add new connections.

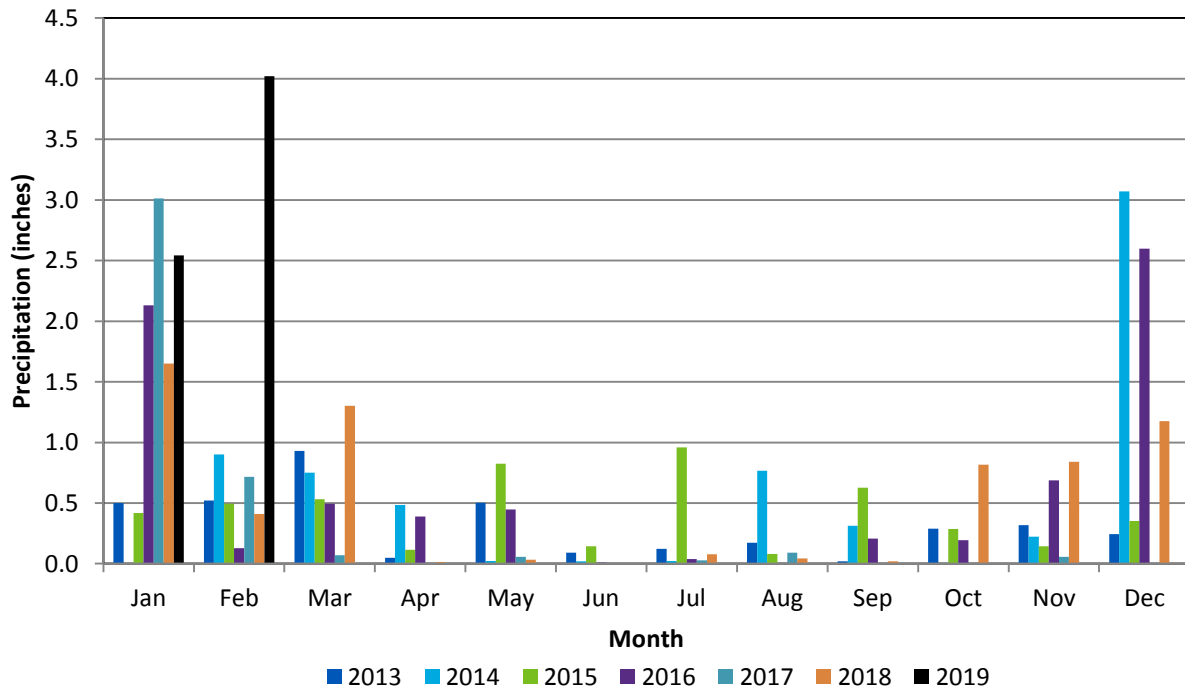
A comparison of evapotranspiration (ET) and precipitation also show how the weather may have impacted demand.

Monthly Average ET*



*Average of four CIMIS stations in EMWD's service area

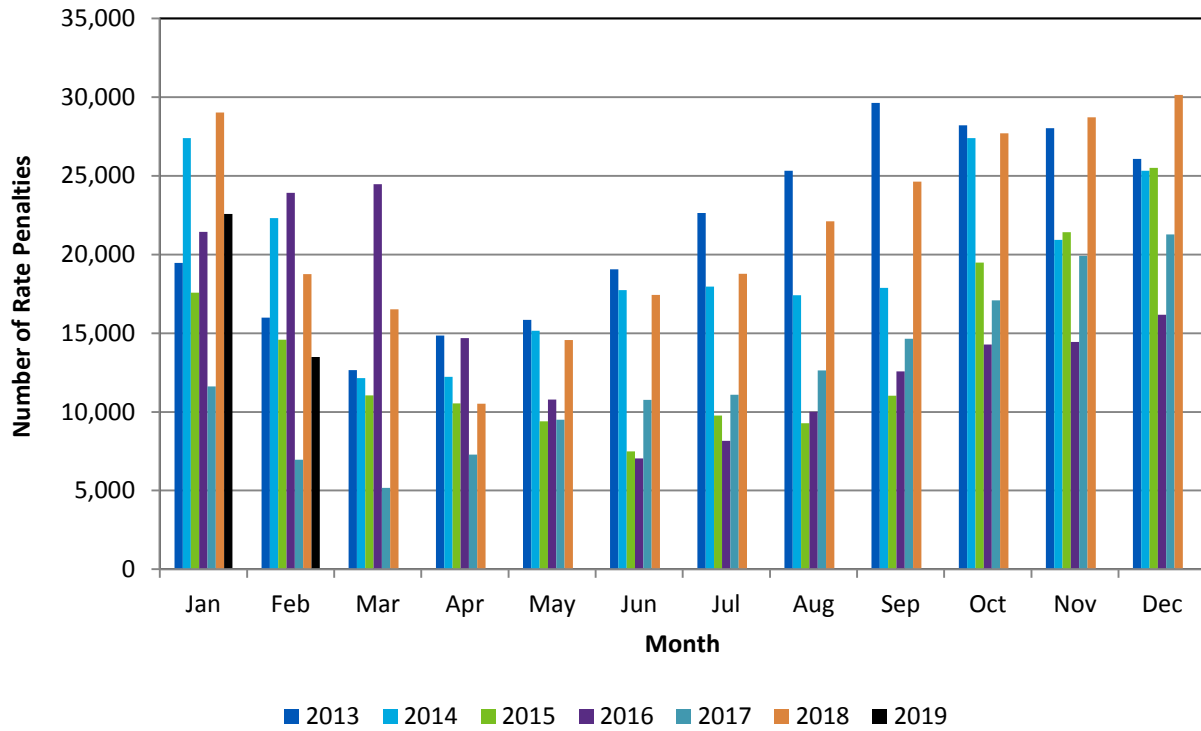
Monthly Total Precipitation*



*Average of four CIMIS stations in EMWD's service area

Enforcement Actions

Starting in March of 2015, urban water suppliers are required to report on enforcements, specifically on reports of water waste received, warnings issued, and penalties assessed.



Month	Mandatory Restrictions	Water Days Allowed/Week	Complaints Received	Follow-up Actions	Warnings Issued	Penalties Assessed	Rate Penalties
February 2019	Yes	7					13,490