

# June 2020 Public Works Report

## Capital Improvement Projects

### Erie Parkway Bridge

Punch-list work continues. We have de-scoped ongoing landscaping work from the contractor for this project. This is a general change the Town is seeking in having more control over landscaping after major capital projects to ensure they are successful and that aesthetics are maintained during the contractor's 2-year warranty period.

### Lynn R Morgan Water Treatment Facility (WTF) Expansion

Construction of the WTF expansion continues ahead of schedule and well under budget. We hear that our agreement with DOLA for the hydro-turbine should arrive very soon, which would allow us to kick off construction of this final aspect of the project.

### 4 Million Gallon (MG) Water Storage Tank

The lining repair was completed just in time for summer irrigation. We will be finalizing the final coat after summer.

## Sustainability and Water Conservation

- Water efficiency rebates and programs are in full swing with over 150 residents who have taken advantage or signed up! Slow the Flow Irrigation Assessments only have 65 spots remaining. Once an assessment is completed, or if a resident has had one in 2018 or 2019, they can sign up for a discounted Rain Sensor or Smart Irrigation Control Clock with installation. New Erie resident postcards have been created to advertise programs and rebates to be sent out with water bills.
- Erie Recycling Center reopened with 4 Parks & Recreation employees who now check IDs, survey, educate, and assist residents who use the facility. An average of 30 cars/day have used the facilities to date with uncontaminated containers delivered regularly to be recycled instead of going to the landfill.
- Organizing Neighborhoods of Erie (ONE) group was presented opportunities for getting involved in sustainability and water conservation. HOAs will be added as a qualified business in the Erie Green Business Certification Program soon on our website.
- We have been awarded Xcel Energy's Electric Vehicle Supply Infrastructure Program Grant to help pay for utility infrastructure needed at the Town Hall and Old Town locations.

# Lynn R. Morgan Water Treatment Facility (WTF)

**Annual Daily Average Flow:**

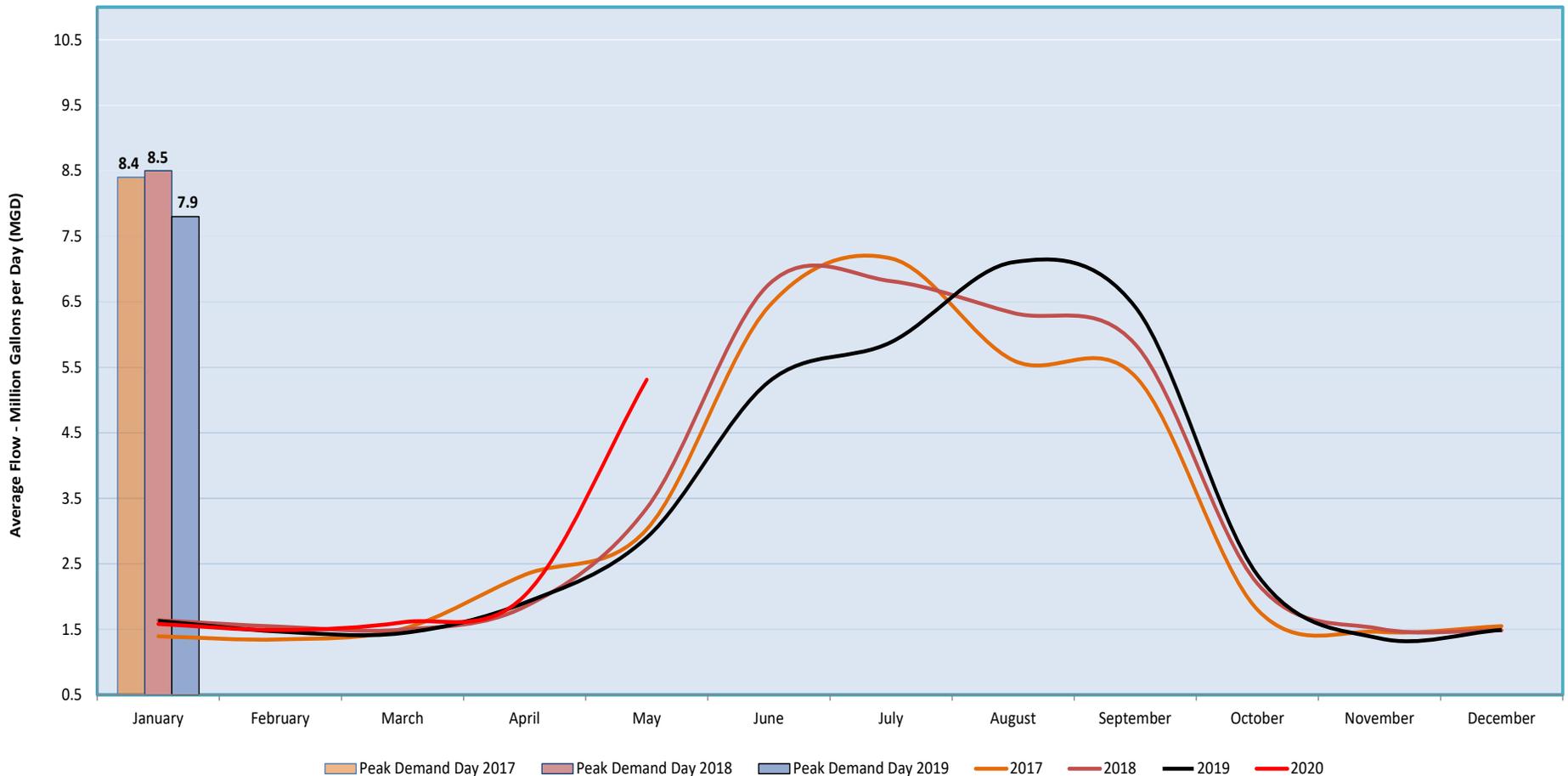
**2017 - 3.3 (Million Gallons) MG**

**2018 – 3.4 MG**

**2019 – 3.3 MG**

July 2017 maintains the record for the highest monthly average flows at 7.16 MG, while February 2017 had the lowest flows at 1.35 MG closely followed by November 2019 at 1.36 MG. Summer demands greatly affect the annual average due to outdoor irrigation. The daily peak demand (customer meter totals) of 8.45 MGD was in July of 2018. Water demands took a strong upward increase in May, this is likely due to late month high temperatures and residents being at home (gardening, etc) most of the month.

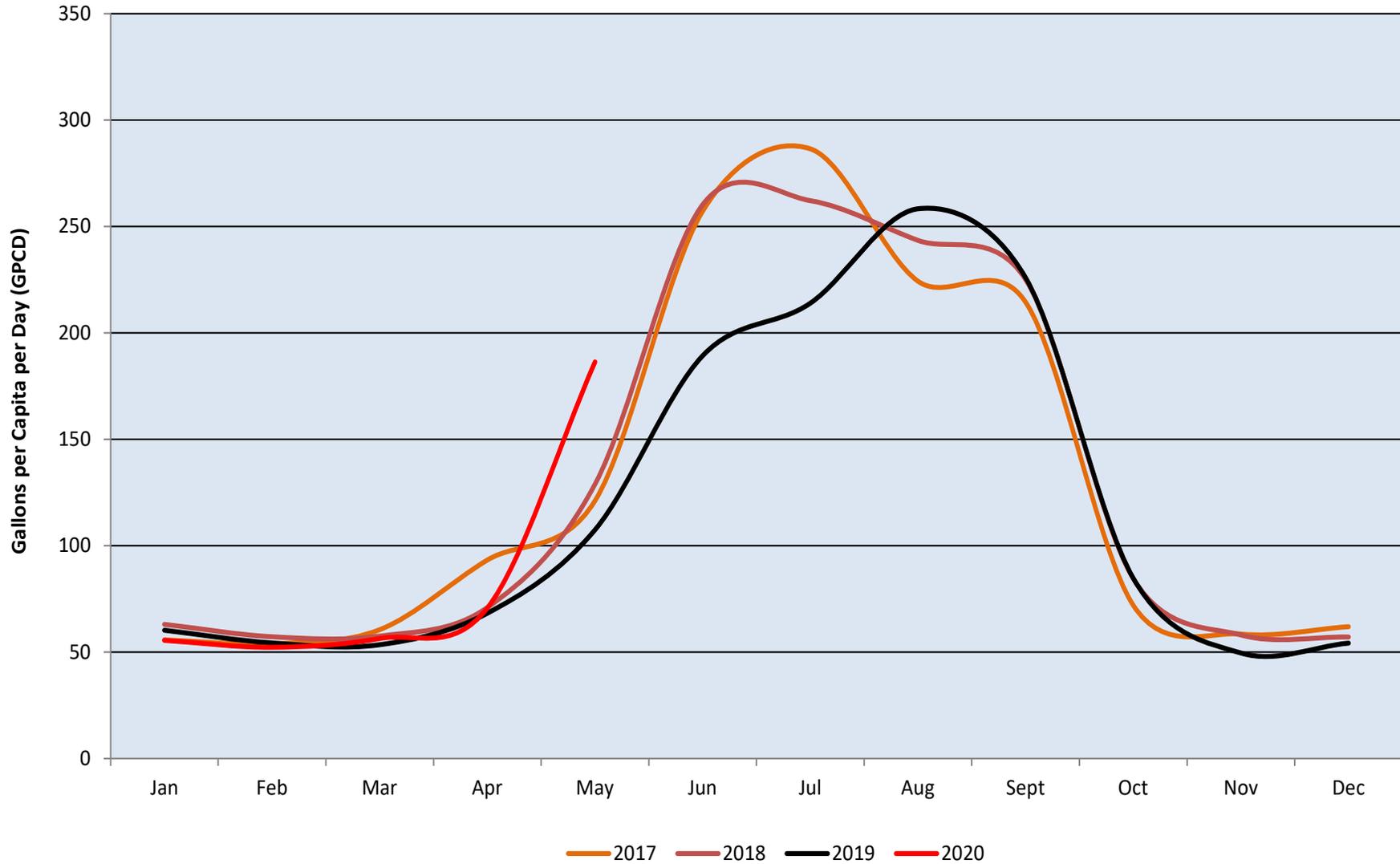
## Average Monthly Production



**Annual Daily Gallons Per Capita per Day (GPCD):**     2017 - 130 GPCD     2018 – 131 GPCD     2019 – 118 GPCD

July 2017 had the highest average daily usage at 287 gallons GPCD. February 2020 had the lowest usage at 52 GPCD. Reducing summer irrigation and increasing reuse water availability will reduce reliance on treated water supplies in the future.

### Average Daily Usage Per Capita



# North Water Reclamation Facility

## Annual Daily Average Flow:

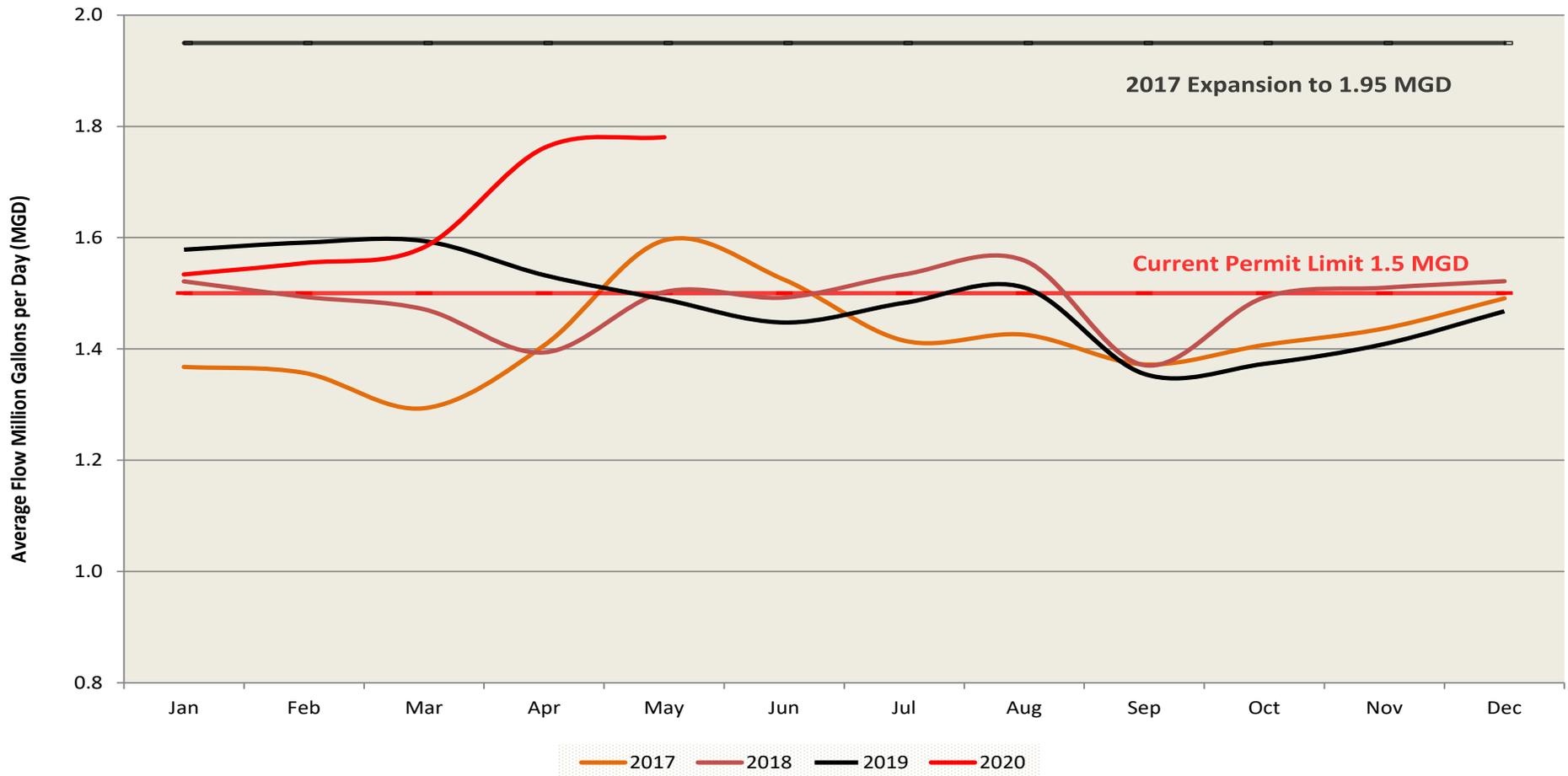
2017 - 1.42 MG

2018 - 1.49 MG

2019 - 1.49 MG

March 2017 had the lowest average flow of 1.29 million gallons per day (MGD). April 2020 set a high average monthly flow of 1.76 MGD. This stark increase is likely due to the Stay at Home and Safer at Home orders which have driven residents who work out of town to stay at home. Colorado Department of Public Health and Environment (CDPHE) is indicating that they will not be renewing our permit until as late as 2023 or 2024. We received Preliminary Effluent Limits (PELs) from CDPHE Permitting this month which seek to greatly, and unfairly, tighten our discharge limits. We are in discussions with CDPHE due to multiple concerns with have with their calculations. We have submitted an application for "site approval" to allow CDPHE Engineering to approve our design so that we may begin construction in late summer/fall.

## Average Monthly Flows



**Annual Daily Gallons Per Capita per Day (GPCD):**

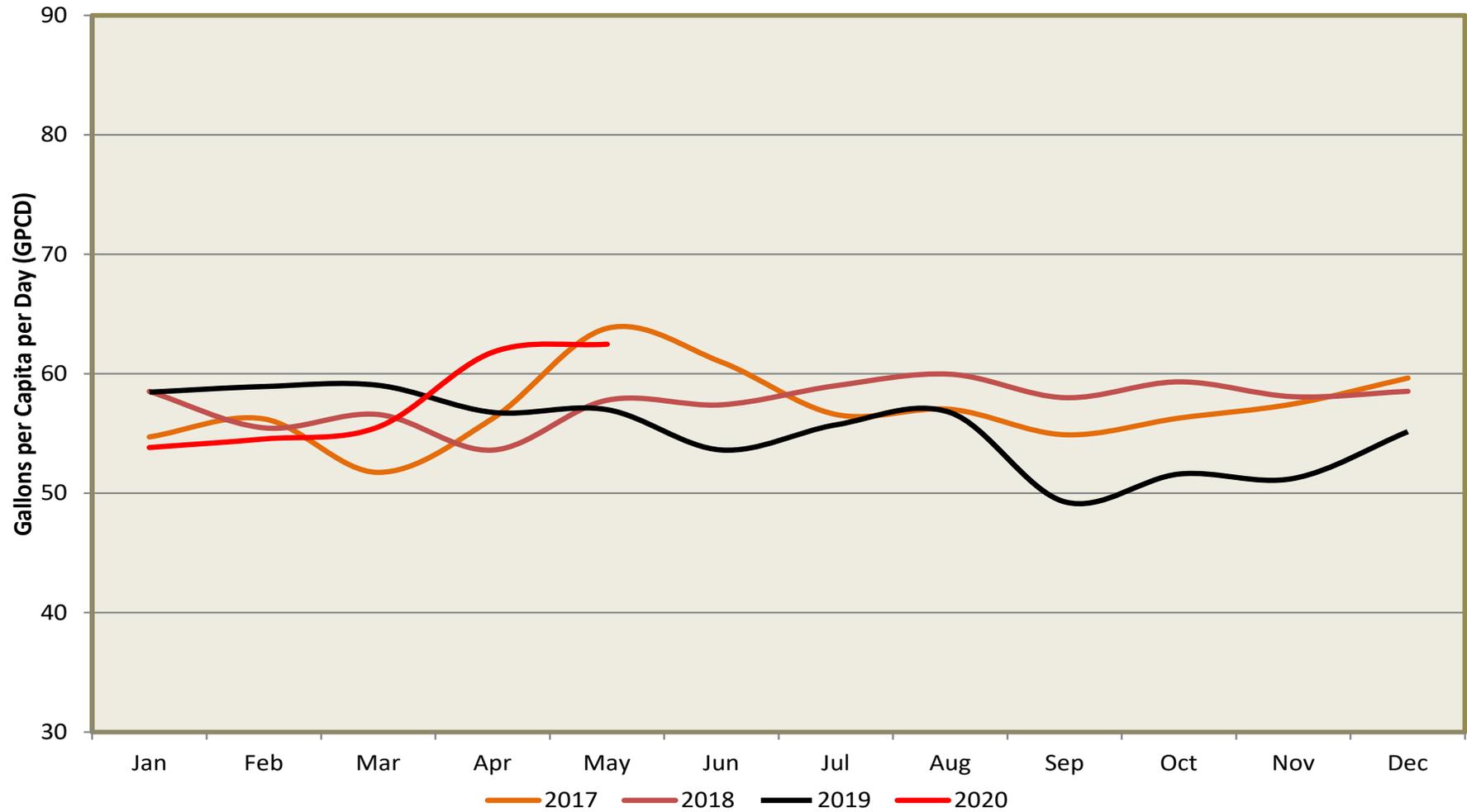
**2017 - 57 GPCD**

**2018 - 58 GPCD**

**2019 - 55 GPCD**

This graph depicts customer indoor water usage. May 2017 had the highest usage at 64 GPCD, primarily due to snow melt seeping into manholes after a particularly wet snow and subsequent warm weather which we believe are now primarily resolved. September 2019 had the lowest usage at 49 GPCD. Fall, with relatively little precipitation and dropping groundwater levels, is a good indicator of true daily flows.

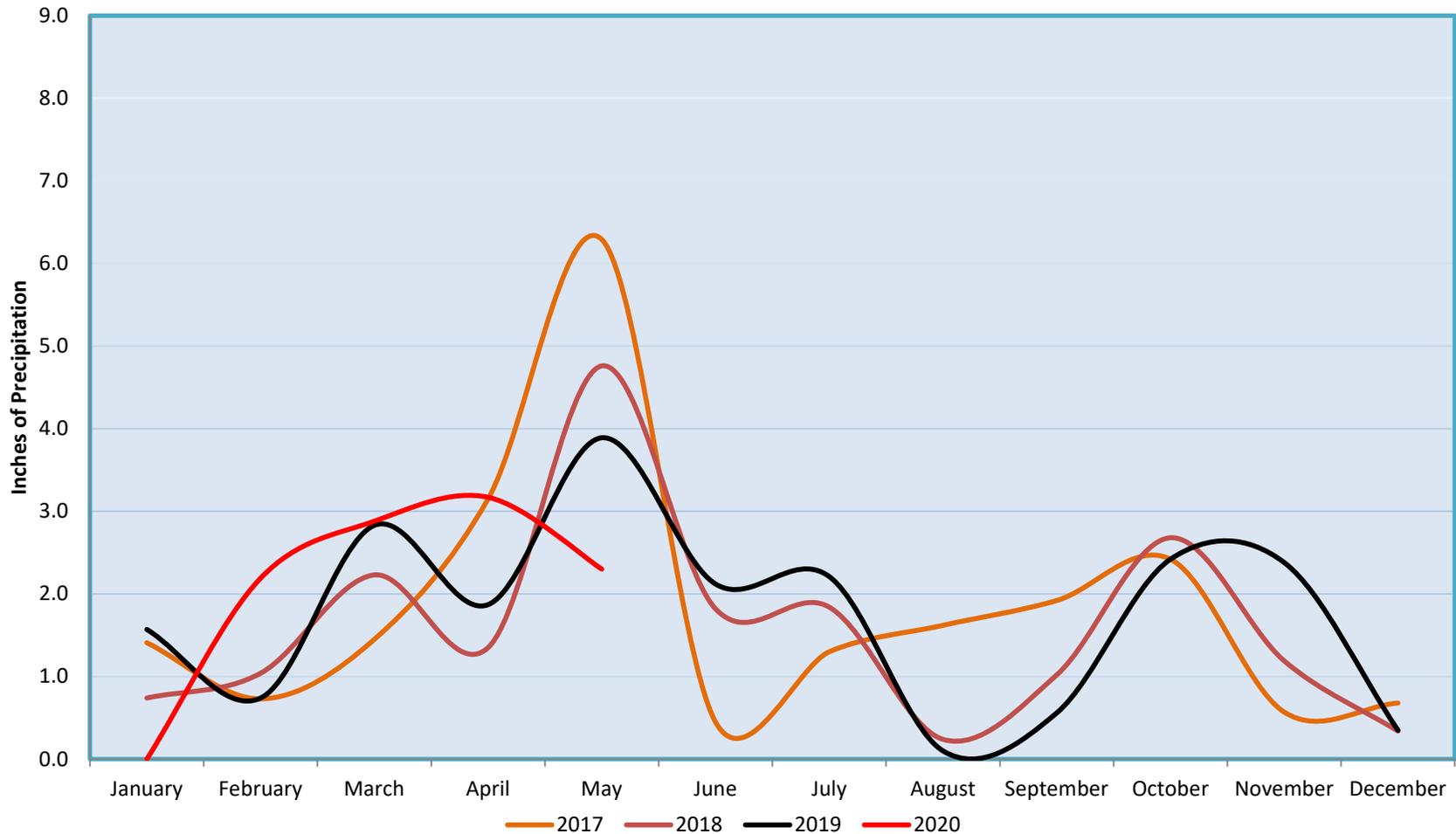
### Average Daily Usage Per Capita



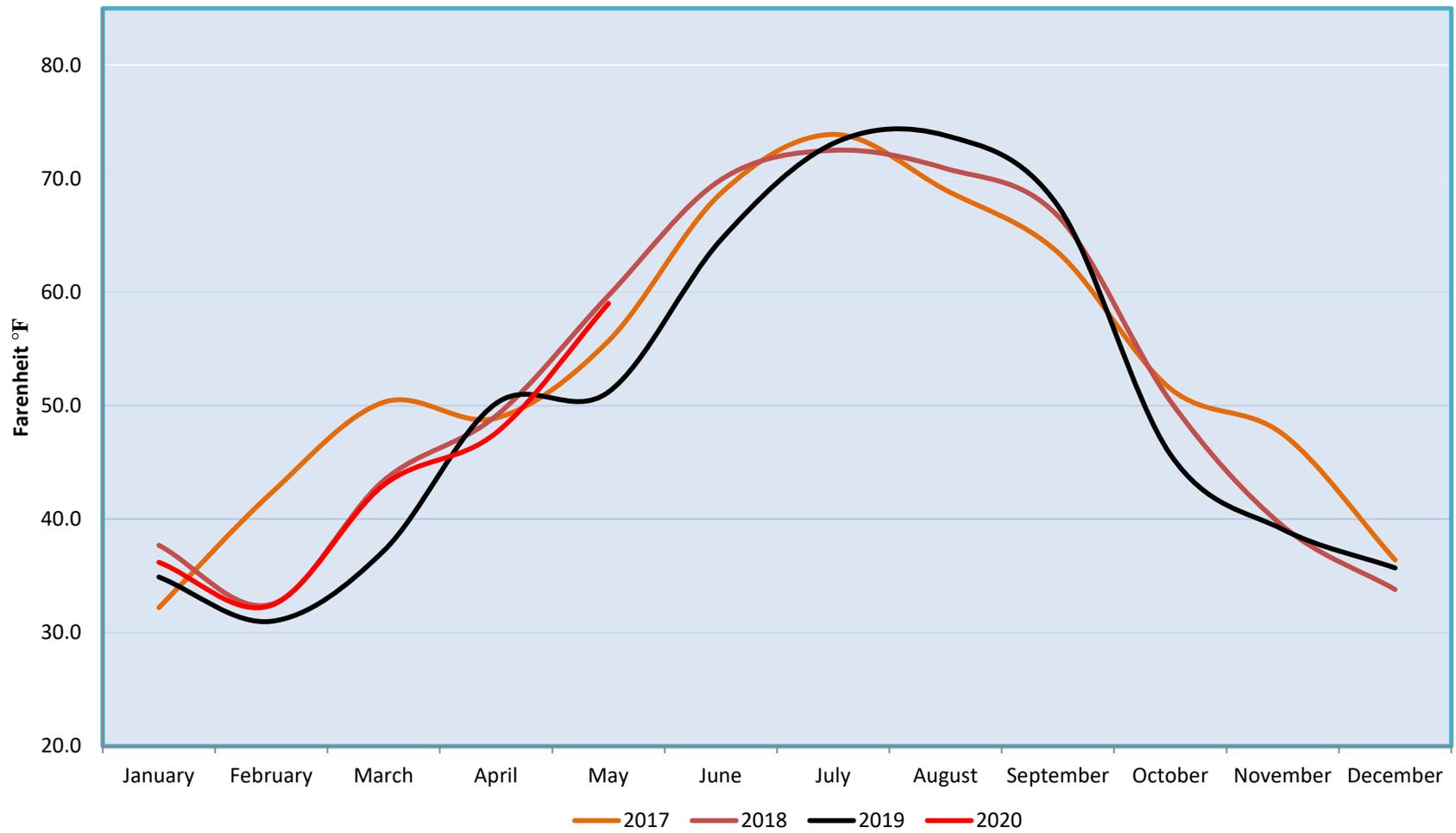
## Monthly Data for Boulder – National Oceanic and Atmospheric Administration (NOAA) & Natural Resource Conservation Service (NRCS)

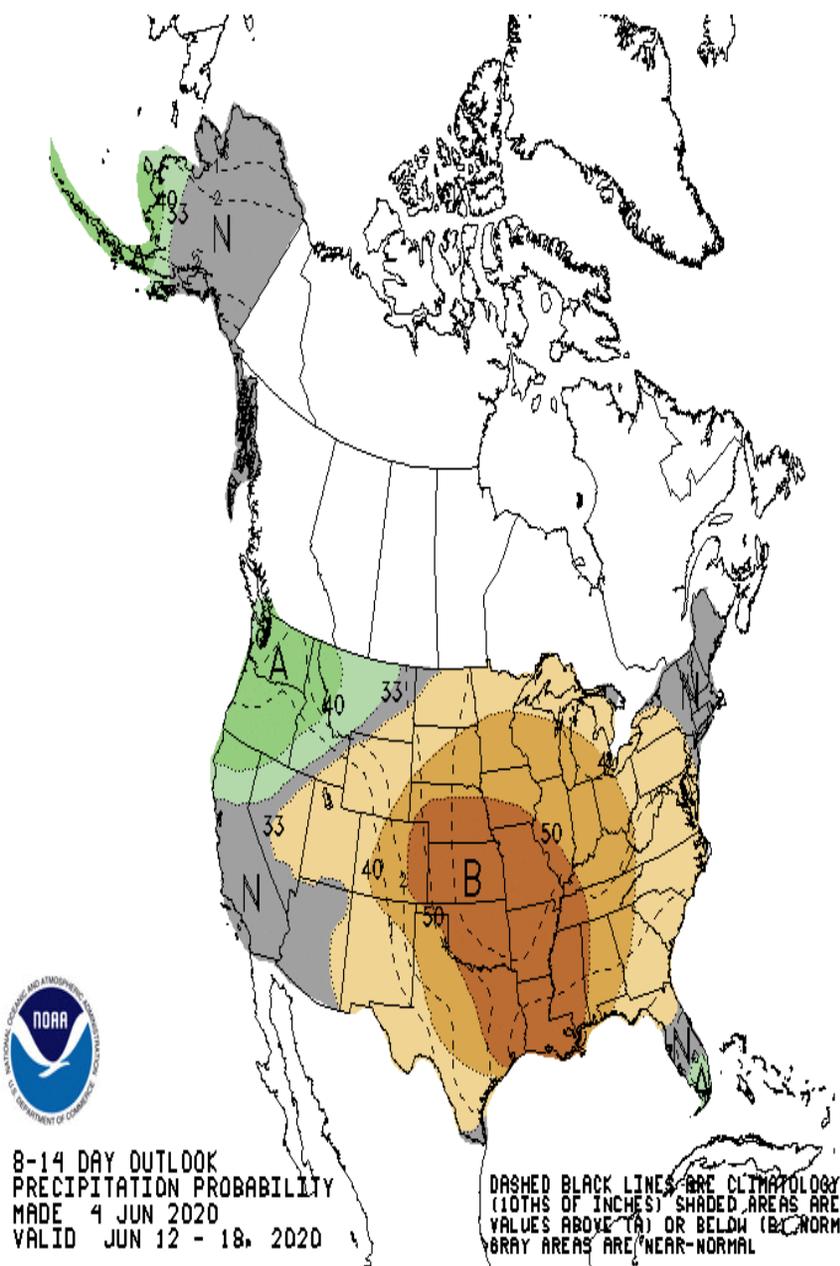
NOAA is predicting a 40% chance of below normal precipitation and 60% chance of above normal temperatures through mid June, essentially a complete reversal from last month's prediction. This year's graph looks unusual due to a complete lack of precipitation early in the year followed by less than normal spring precipitation. Run off in the Colorado Basin, where the majority of our supplies originate from, is all but done due to recent warm temperatures. Overall snowpack for the year was strong, and reservoirs are filled.

### Precipitation



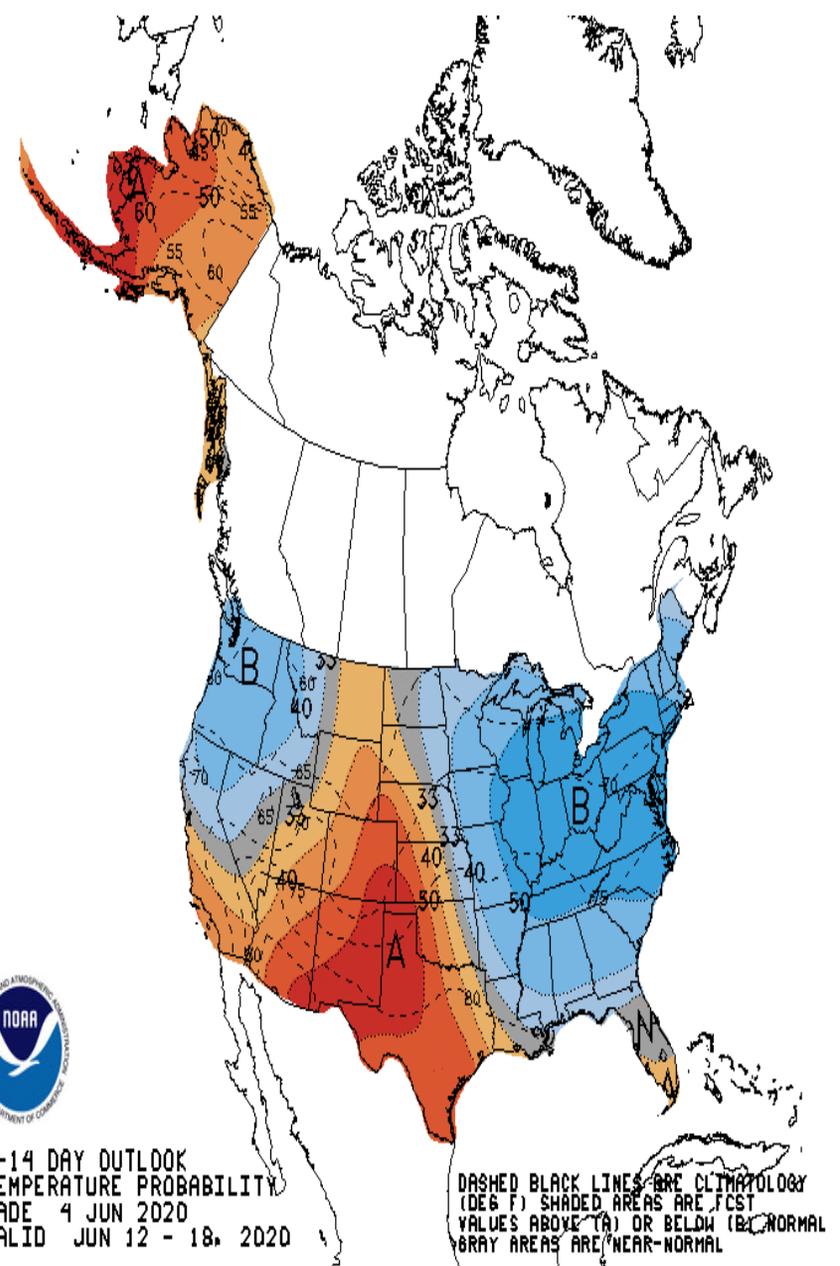
# Mean Temperature





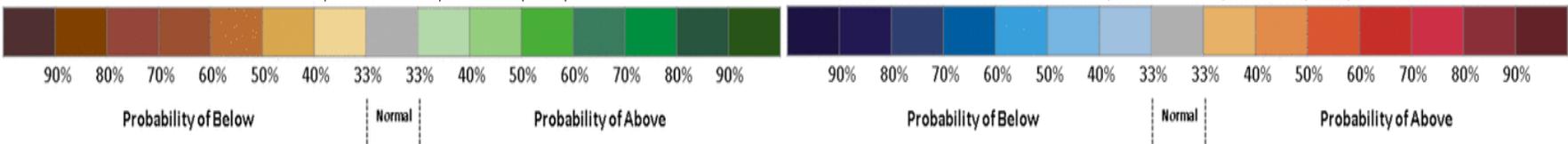
8-14 DAY OUTLOOK  
 PRECIPITATION PROBABILITY  
 MADE 4 JUN 2020  
 VALID JUN 12 - 18, 2020

DASHED BLACK LINES ARE CLIMATOLOGY  
 (10THS OF INCHES) SHADED AREAS ARE FCST  
 VALUES ABOVE (A) OR BELOW (B) NORMAL  
 GRAY AREAS ARE NEAR-NORMAL



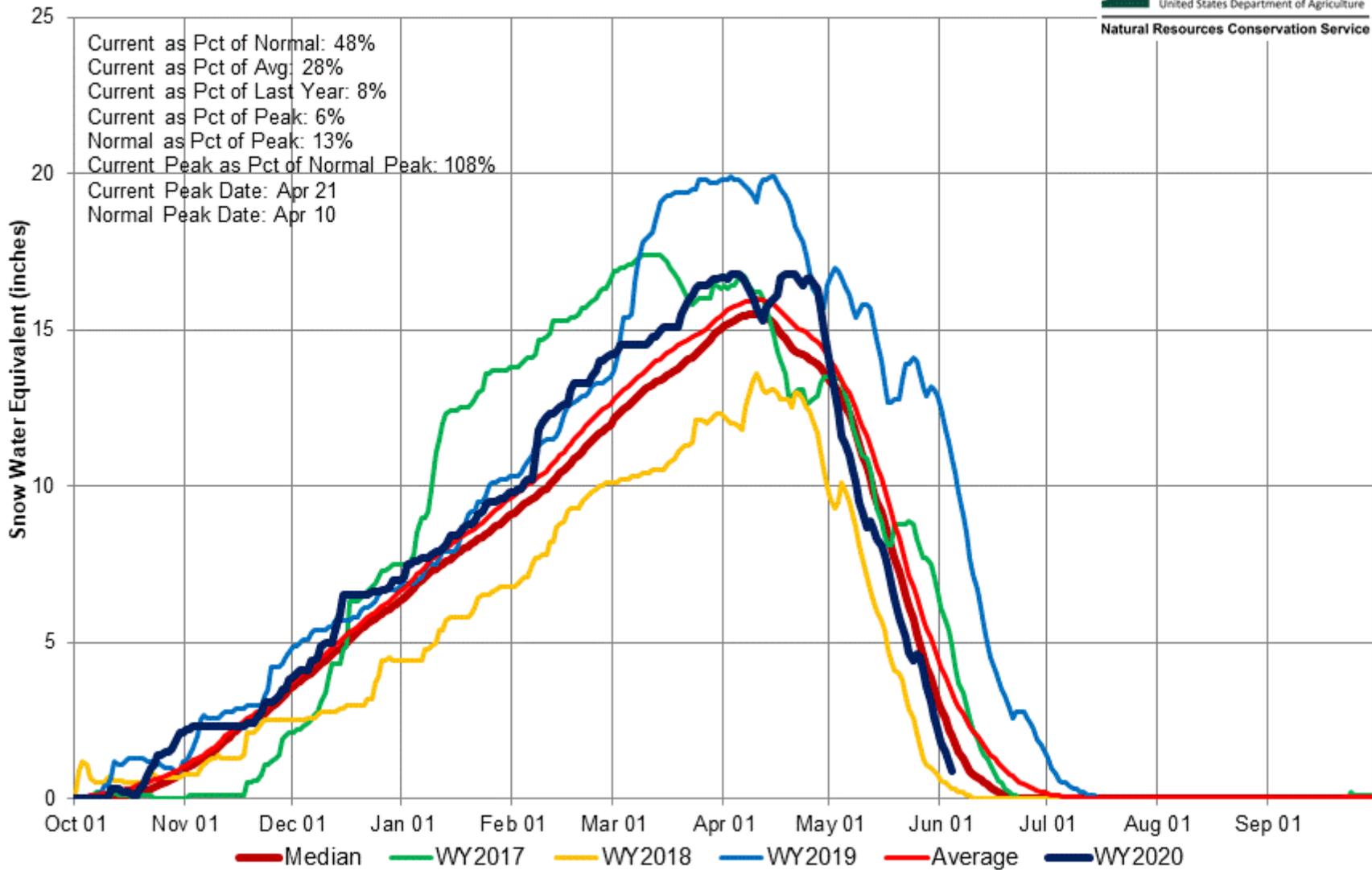
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# Colorado River Basin Time Series Snowpack Summary

Based on Provisional SNOTEL data as of Jun 04, 2020



## Transportation Updates

There are few updates this month due to COVID-19, and the general lack of transportation related meetings. Attached is a summary of the North Area Transit Alliance (NATA) meeting, which both Malcolm and I attend.

