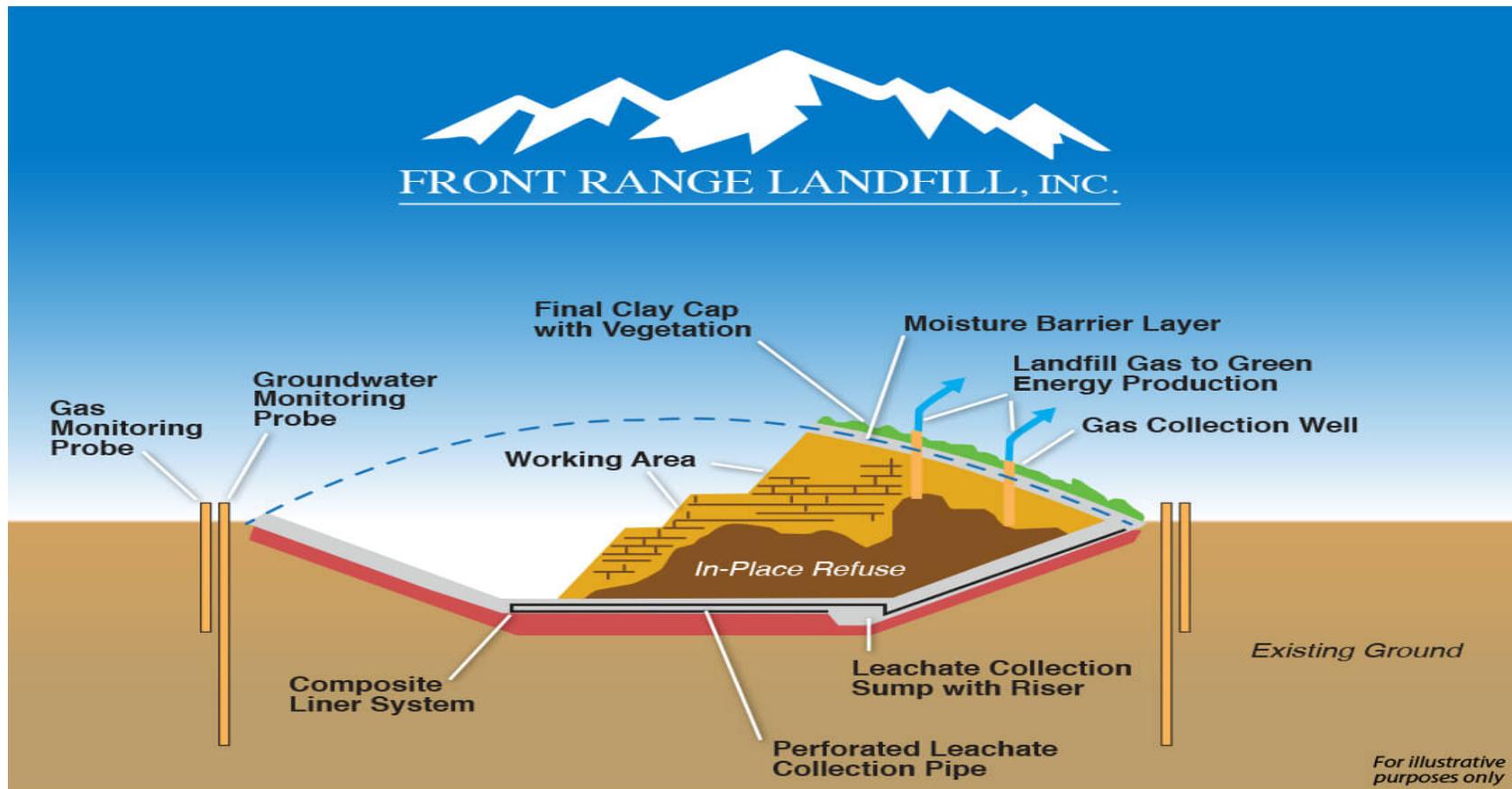


November 2020 Public Works Report

Front Range and Denver Regional Landfill Updates

Current status of the landfill operations is that the Denver Regional Landfill (**DRL**), west of County Road 5 and south of County Road 6, is being filled until December 30, 2020, however the majority of the large operations and filling is all but complete. After that capping (cover, seeding, etc) operations will continue for another 6 months. This will result in full closure of this landfill and begin a 30-year monitoring period, per the agreed upon 2018 Closure/post-Closure Plan.

Front Range Landfill (**FRL**), east of County Road 5 and south of County Road 6 will continue to fill the southern-end moving westward, this effort has been delayed due to heat and concerns over related odors and dust triggered by the drought. Current estimate at this time if for this effort to continue through the end of the year. This will result in seeding that southern face being pushed back to spring, which is an ideal time to seed. The goal is having the southern facing edge of the FRL being completed and trash operations moving north to the permitted elevation and out of visibility from the south from that point forward.



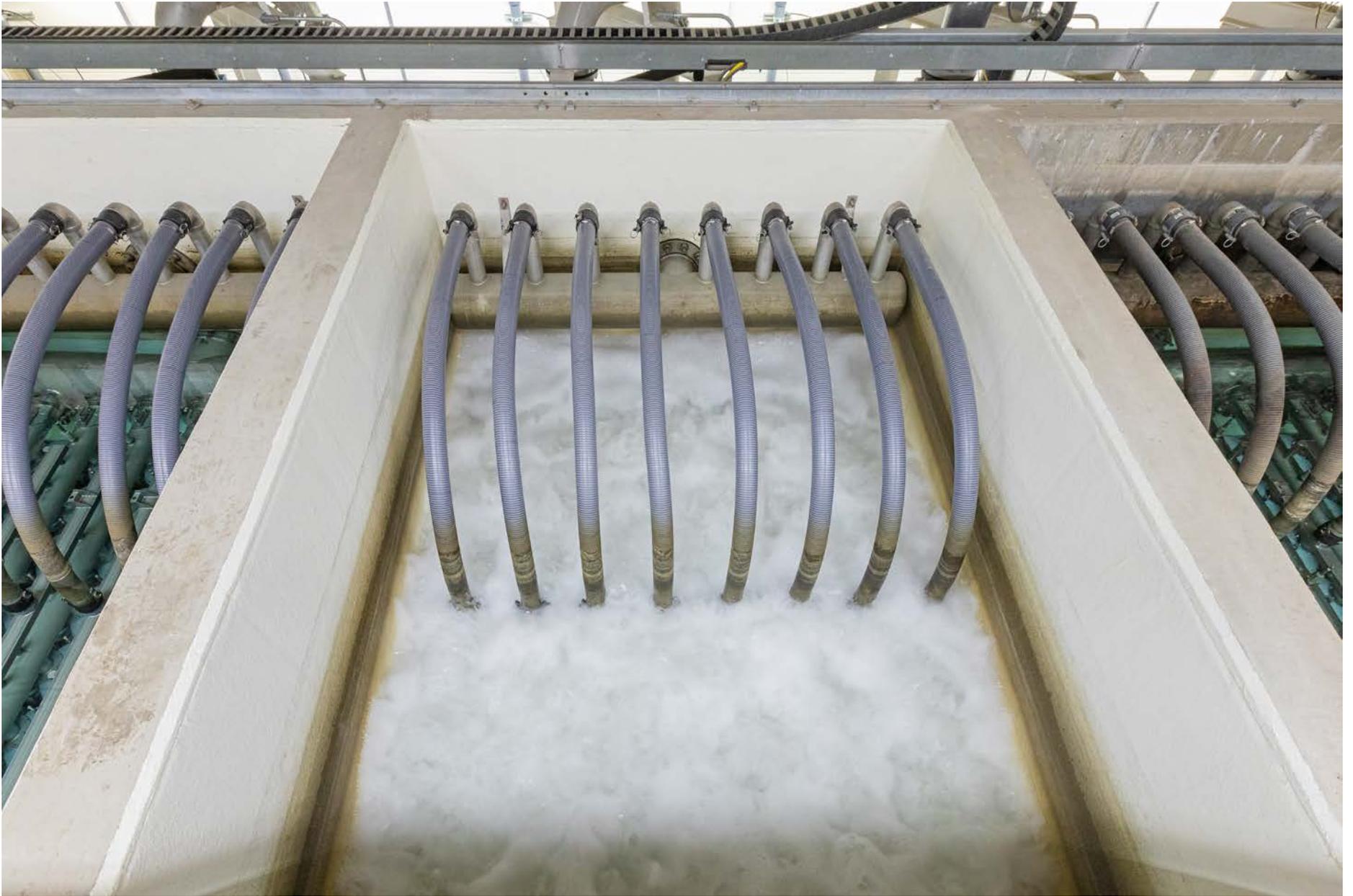
Capital Improvement Projects

Lynn R Morgan Water Treatment Facility (WTF) Expansion & Hydroturbine

Construction of the hydroturbine facility continues, with an anticipated start date of summer 2021. The turbine is a long-lead item of around six-months, construction will slow until the arrival of the turbine. Burns & McDonnell brought in a professional photographer to take photos of the plant expansion for marketing purposes. We agreed to allow such use if also provided copies of these photos. See an example below.



Sedimentation Basin (clarifier), Weir and Launder (a type of aqueduct!)



Submerged Membrane Filters Being Cleaned (backwashing)

North Water Reclamation Facility (NWRf) Expansion

With the recent grant of the expansion project to Archer Western, they are underway with mobilizing and doing prep work. We have received Site Application from CDPHE and are awaiting the design report so that we can begin construction in earnest.

Sustainability and Water Conservation

Energy

- Tanko streetlight audit is complete and repairs identified as part of the inventory to existing streetlights have been submitted to XE and United Power. GIS locates are being coordinated with the Town's GIS team.
- The first electric vehicle charging station was installed at 625 Pierce Street and an additional temporary one at Town Hall. These provide three plugs. Rates that the Town will charge are still to be determined.

Green Business & HOA Certification Program

- Green HOA Certification Scorecard Pilot was launched in August and Arapahoe Ridge HOA is the first to complete their Green Certification Scorecard.
- Tacos El Ray 2 has signed up for a Green Business Certification Assessment and the first assessment was completed. They have also applied for a Boulder County business assistance grant to upgrade their appliances to save thousands of dollars a year on electricity costs.

Waste

- Leaf composting had over 460 households drop off leaves on the November 7th drop-off and staff and volunteers are excited about the final November 15th event. All the leaves are being composted at a local farm.
- Waste Diversion Feasibility Study is scheduled for presentation and discussion for the December 1st Study Session.

Water Efficiency

- Final staff feedback on the Water Efficiency and Drought Mitigation Plans is due this month. Public engagement process will begin in Q1 of 2021.

Recycling and Composting

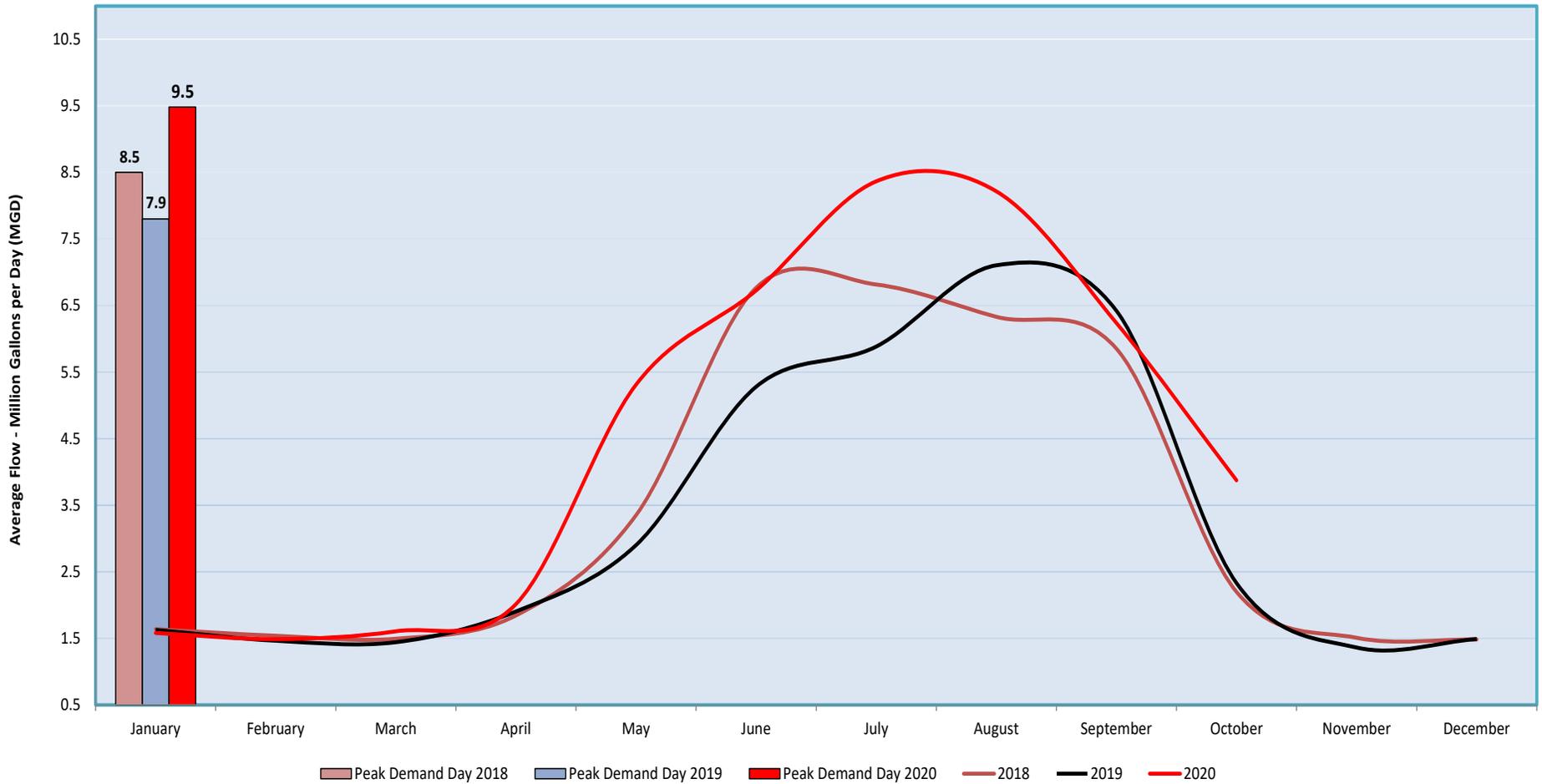
- The Town hosted our annual leaf composting event at the Recycling Center and saw 792 loads from what we estimate to be 500-600 residents (some came back twice).
- We saw 340 loads come to our Service Center for our Fall Clean Up event, which includes recycling of various items such as paper, electronics and metals. We have an enthusiastic community when it comes to sustainability, recycling and composting.
- Staff has been fielding questions regarding a proposed Compost Facility on Highway 287 between Lookout Road and Highway 52. This is a Boulder County project not in Erie, we will provide referral comments to Boulder County.

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 2020 maintains the record for the highest monthly average flows at 9.5 MG, while November 2019 had the lowest flows at 1.36 MG. Summer demands greatly affect the annual average due to outdoor irrigation. COVID and drought have exacerbated summer irrigation demands. This is a common theme throughout the Front Range.

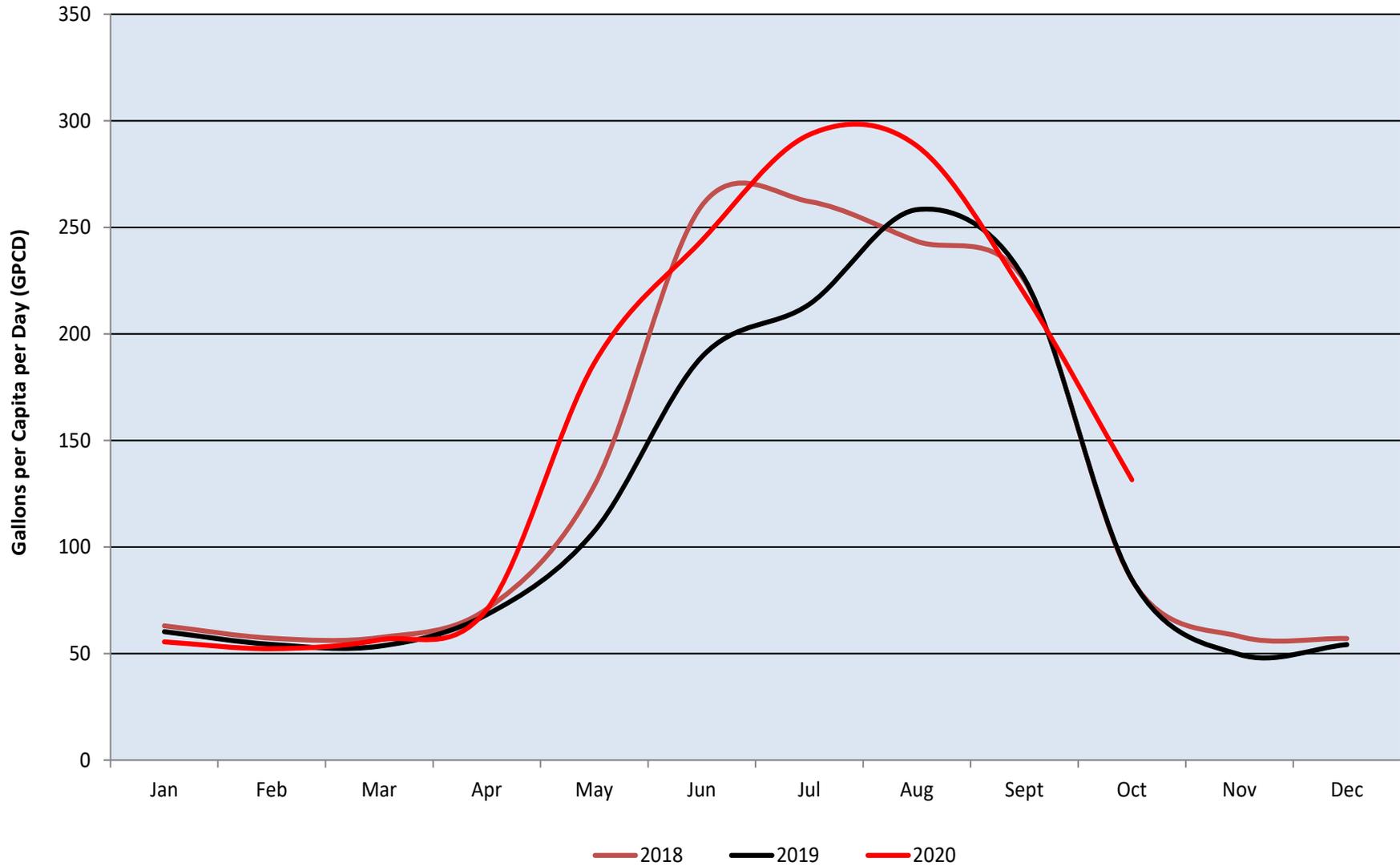
Average Monthly Production



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

July 2020 had the highest average daily usage at 294 gallons GPCD. November 2019 had the lowest usage at 50 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:

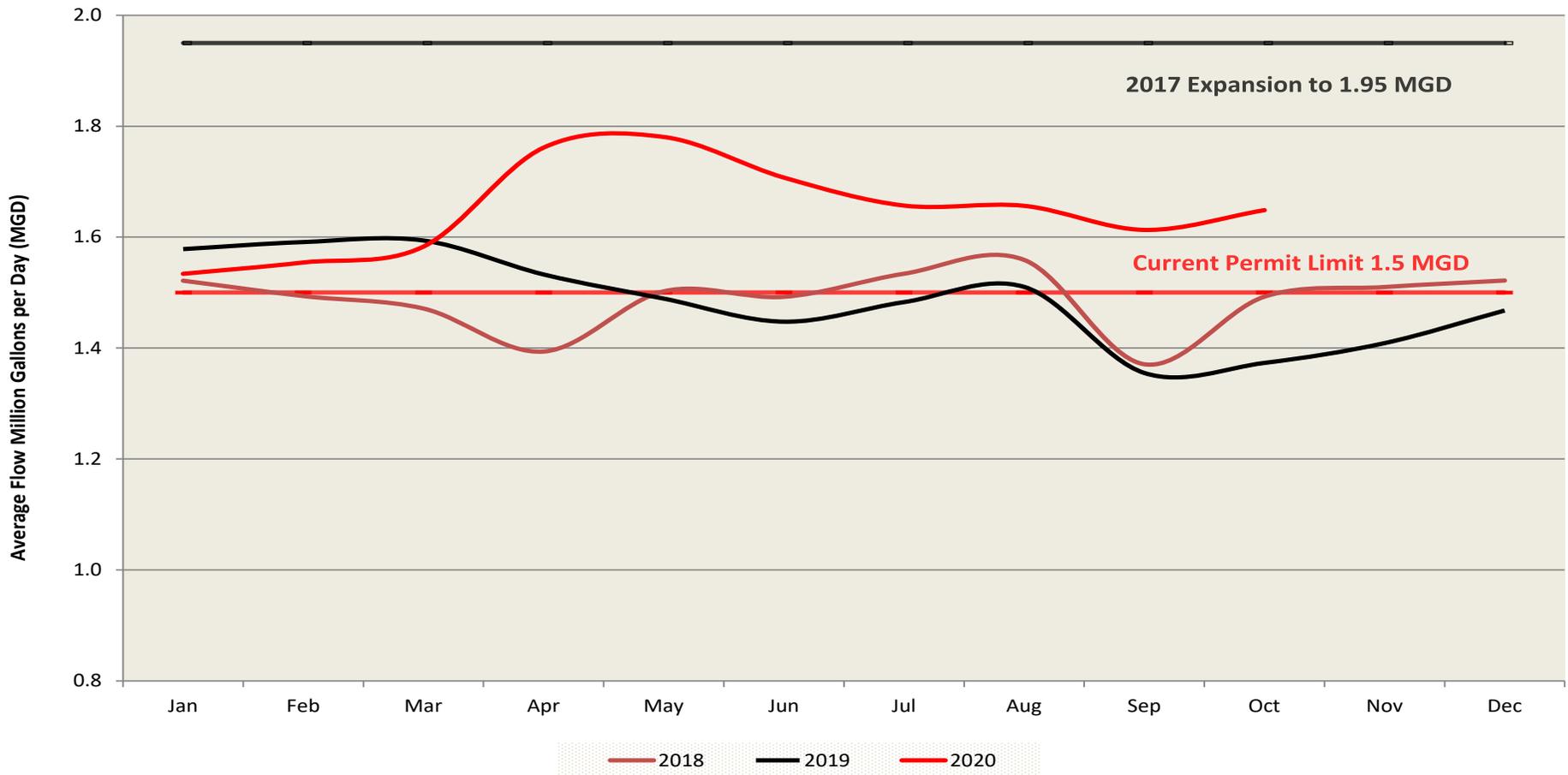
2017 - 1.42 MG

2018 - 1.49 MG

2019 - 1.49 MG

March 2017 had the lowest average flow of 1.29 million gallons per day (MGD). May 2020 set a high average monthly flow of 1.78 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. We continue to work through challenges with Colorado Department of Public Health and Environment (CDPHE) and their recent violation notice to the Town. Most notably the Town has been struggling with extremely low copper limits, and have been asking CDPHE to justify the number for years. We have had conversations with staff at CDPHE and are aware that they are finally working on our permit renewal (5 years overdue), this could be a chance to get some of these issues corrected.

Average Monthly Flows



Annual Daily Gallons Per Capita per Day (GPCD):

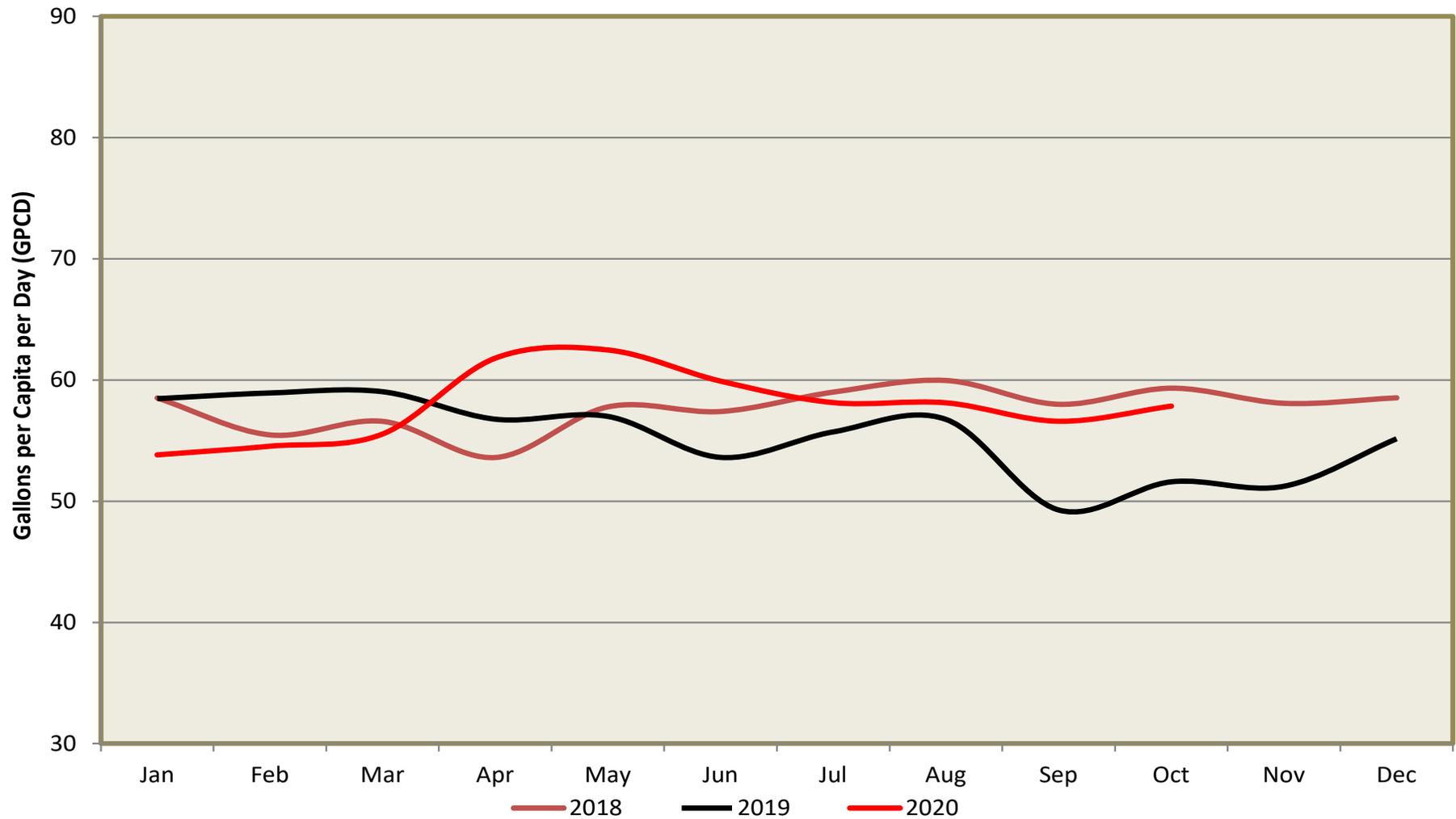
2017 - 57 GPCD

2018 - 58 GPCD

2019 - 55 GPCD

This graph depicts customer indoor water usage. May 2020 had the highest usage at 62 GPCD. 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.

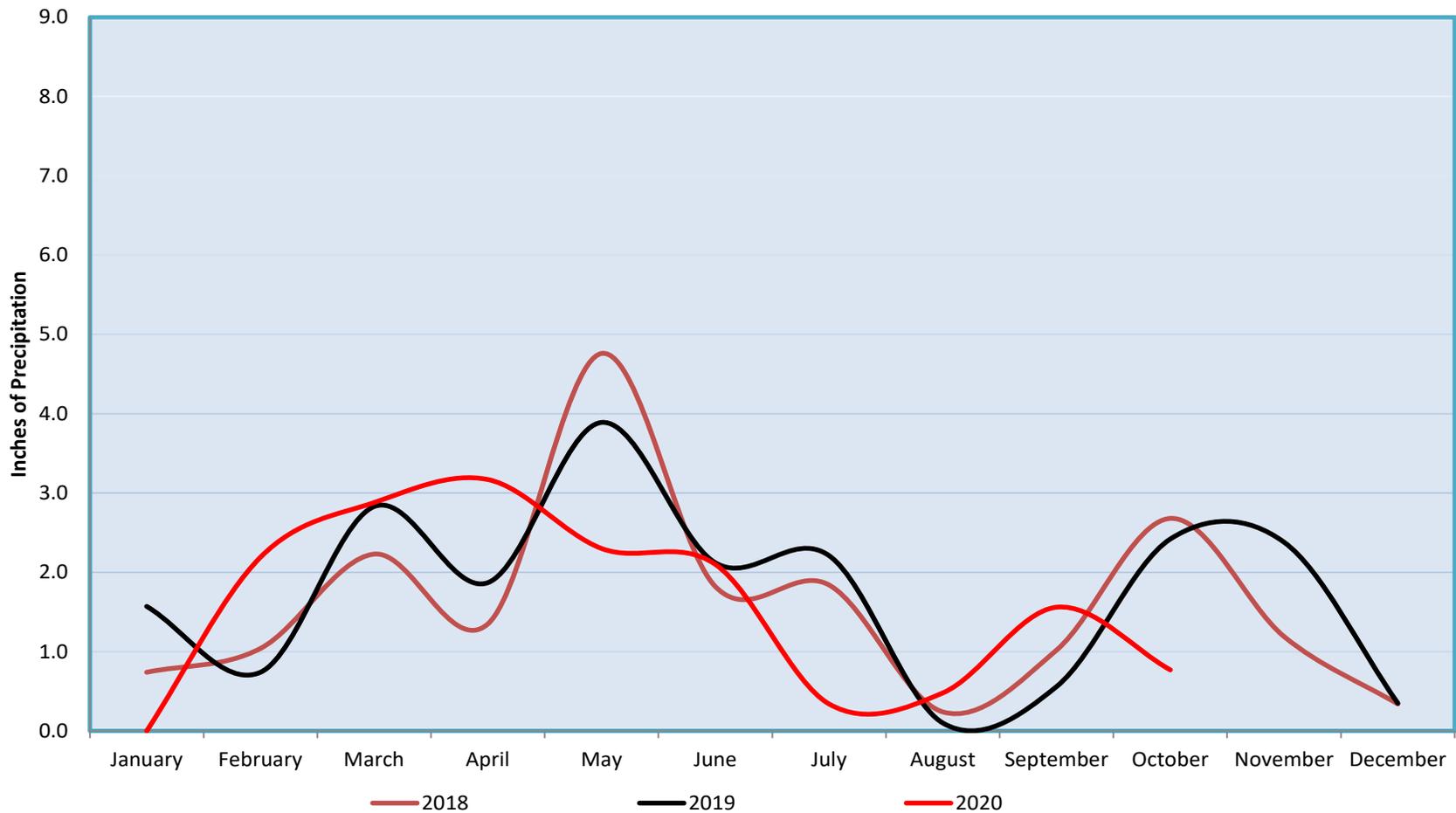
Average Daily Usage Per Capita



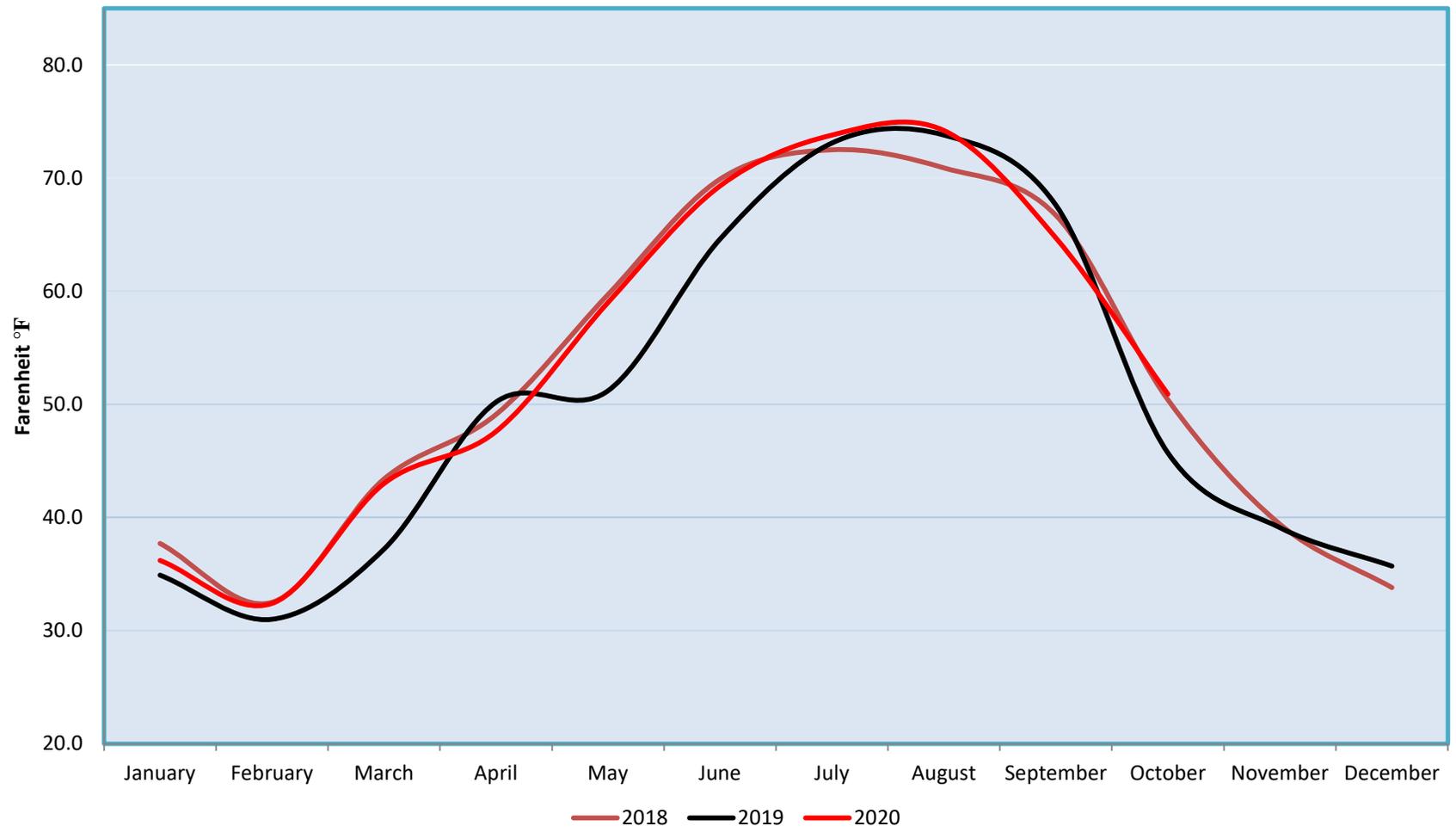
Monthly Data for Boulder – National Oceanic and Atmospheric Administration (NOAA) & Natural Resource Conservation Service (NRCS)

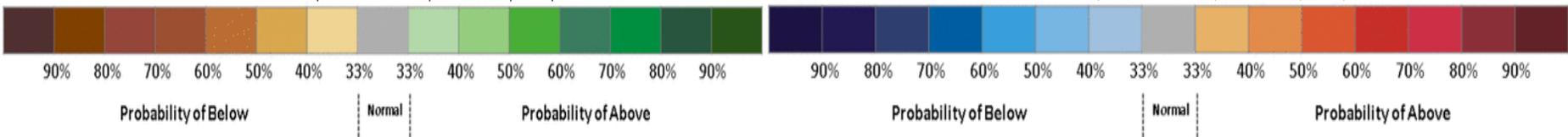
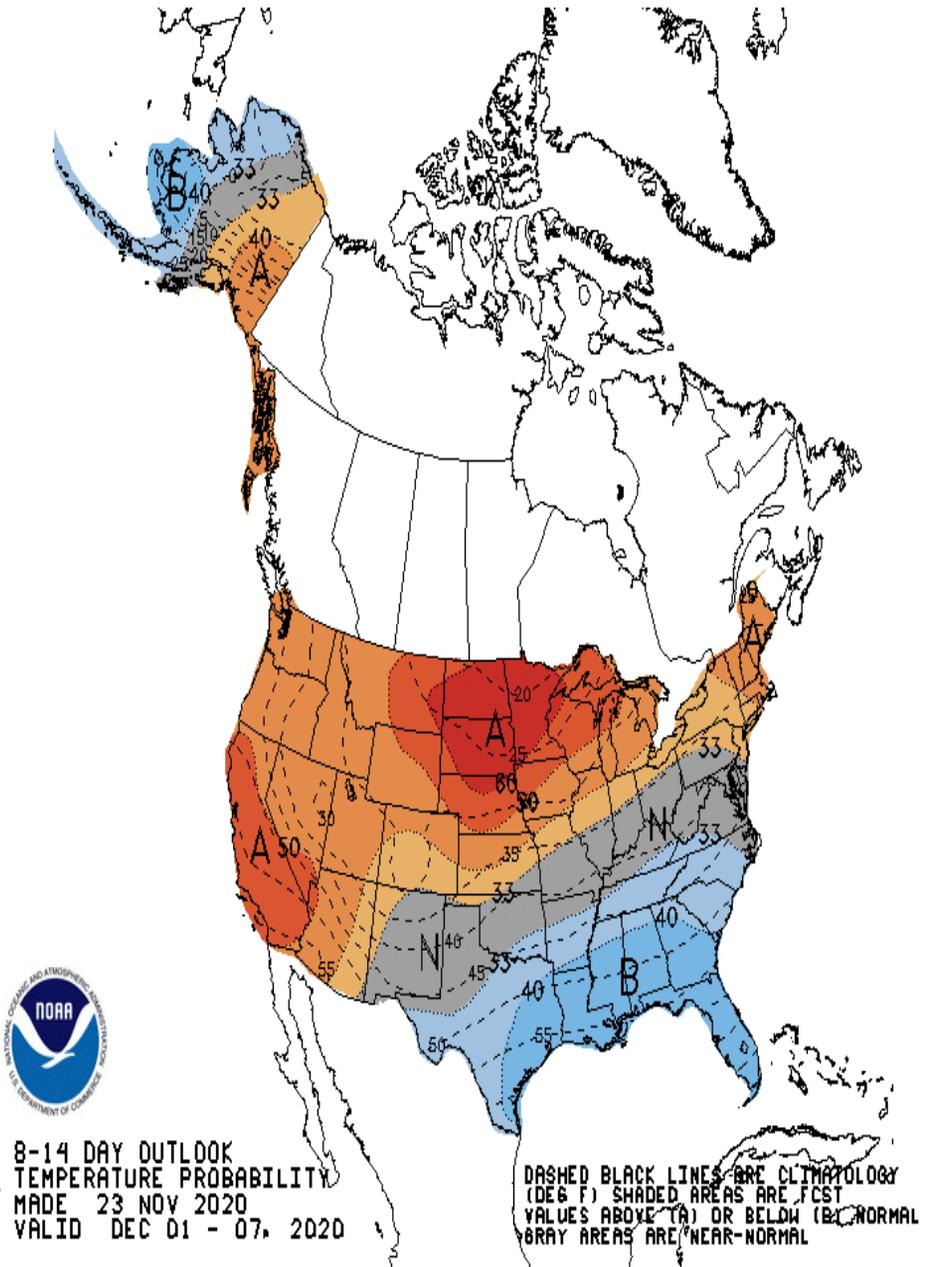
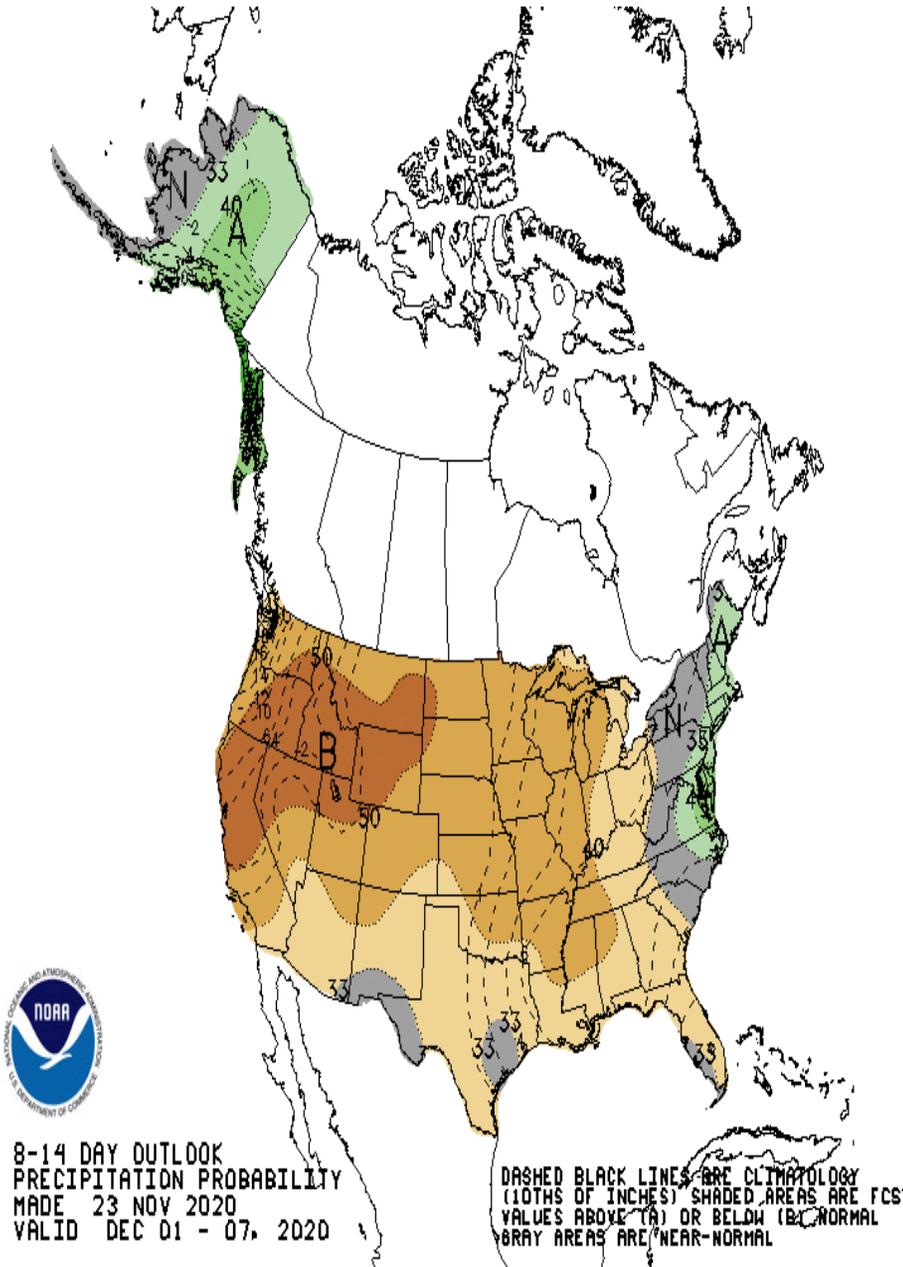
NOAA's [winter forecast for the U.S.](#) favors warmer, drier conditions across the southern tier of the U.S., and cooler, wetter conditions in the North, thanks in part to an ongoing La Nina. NOAA is predicting a 40% chance of below normal precipitation and 40% chance of above normal temperatures through early December. Drought conditions continue to affect the entire state, with our area in severe drought, however Erie is in good shape in terms of water supply as our reservoirs are relatively full. We are closely monitoring potential water quality impacts from recent fires.

Precipitation



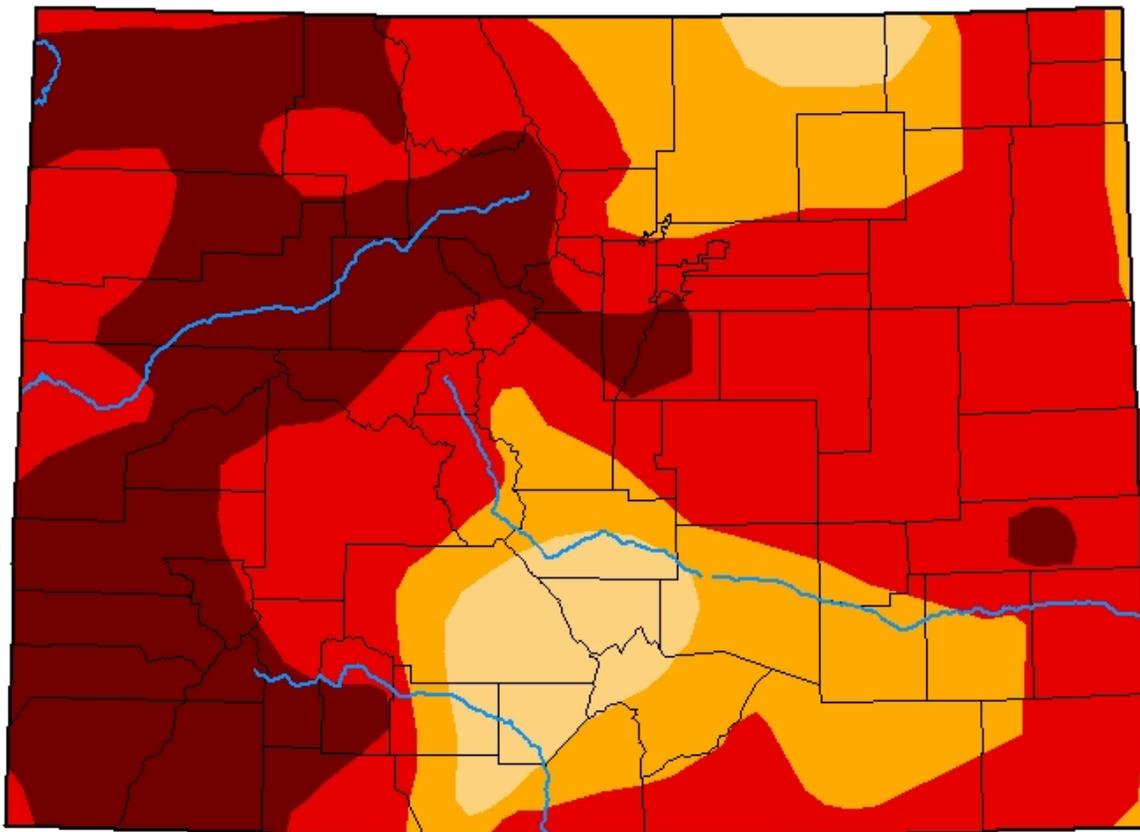
Mean Temperature





U.S. Drought Monitor Colorado

November 17, 2020
(Released Thursday, Nov. 19, 2020)
Valid 7 a.m. EST



Intensity:

-  None
-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Richard Tinker
CPC/NOAA/NWS/NCEP



droughtmonitor.unl.edu

Transportation Updates

Local transportation planning updates follow below:

- Notes 11/12/20 JBC briefing on 2021-22 Department of Transportation budget, provided by Northwest MCC

Tuesday Discussion with Transportation Chairs on 2021 Legislative Agenda:

- Potential bill(s) to raise substantial new transportation funds
- Governor Polis proposed transportation stimulus funding

The following stimulus funding proposed by Governor Polis will not be discussed during the upcoming special session. Rather, it will be considered in the 2021 session by the newly elected General Assembly.

Members participating: Chair Sen. Dominick Moreno, Vice Chair Rep. Julie McCluskie, Reps. Leslie Herod and Kim Ransom, Sens. Chris Hansen and Bob Rankin. Others participating: Analyst Andrea Uhl

Agency budget stats:

- 2020-21 appropriation - \$1.98 billion all funds, \$1 million General Fund
- 2021-22 request – \$1.9 billion all funds, \$0 General Fund

Briefing paper - http://leg.colorado.gov/sites/default/files/fy2021-22_trabrf.pdf

This briefing generally is more informational than substantive, because CDOT receives little or no General Fund support through the long bill. (However, in recent years the department has received substantial GF transfers through separate legislation, as well as revenue from certificates of participation that have been repaid partly with GF.) The main CDOT construction and maintenance budget is funded by fuel tax and other dedicated revenues, along with federal funds; is allocated by the Transportation Commission and generally isn't finalized until March.

Discussion Notes:

- Hansen, noting the chart at the bottom of page 10, noted how revenues are shrinking relative to inflation. Uhl noted that in recent years several states have increased and/or inflation indexed their fuel taxes. She said additional support and creative financing will be needed in the future if the Colorado fuel tax isn't updated.
- Perhaps the most interesting thing Uhl said wasn't in the briefing paper.
- She said that CDOT staff have examined the impact of the pandemic on transportation revenues and estimate a \$117 million drop in revenue down over three years, because people are buying less gas, etc. CDOT was \$33.7 million under budget in 2019-20 and expects an \$83 million gap in 2021-22, "primarily because of less gas being sold."
- There has been a 6.89 percent decline in fuel sales, and FASTER has lost 13 percent of its revenue, which has to be backfilled by other funds.
- CDOT had dealt with this by delaying the issuance of COPs last spring, which pushed back the payment schedule; \$16 million in savings; \$21 million saved by COP refinancing, by the receipt of \$77 million in redistributed federal funds and through other COP savings.

More information on this issue is available in these two CDOT staff memos:

- CDOT FY 2021 budget workshop memo - <https://www.codot.gov/about/transportation-commission/documents/2020-supporting-documents/october-2020/1-fy-21-budget-workshop.pdf>
- CDOT FY 2022 budget workshop memo – <https://www.codot.gov/about/transportation-commission/documents/2020-supporting-documents/october-2020/2-fy-22-budget-workshop.pdf>
- Hansen asked if state is doing the best it can from a financial structuring point of view. For instance, would it be better to be issuing bonds rather than COPs, and should CDOT be looking at a broad refinancing of its debt?
- Uhl said the first two of the four COP issues were made in low-interest environments. Also, she said the state can't really refinance COPs for 10 years. And Uhl reminded Hansen that the state can't issue general obligation bonds, and that voter approval of trans bonds now has been pushed back to fall 2021. "I don't think there's anything we can do differently in the short term."
- Hansen said this is the "TABOR tax" of additional costs imposed by TABOR's ban on bonds. "We are essentially paying an extra tax here." Uhl said "I would tend to agree." The best rates are offered on general obligation bonds.
- Starting on page 18, Uhl detailed the governor's transportation stimulus programs. This includes \$130 million in cash funds to accelerate high priority, shovel ready projects, detailed at the bottom on page 18. The second piece is \$70 million in GF for "Main Street" projects, defined as things adapting streets for non-traffic use.
- Moreno asked for a list of the Main Street grants that already have been made.
- While she was going through 2020-21 cuts, Moreno commented that Polis' request is "actually a replacement for the cuts made last year. ... It would offset all the balancing actions."
- On page B-1 she noted CDOT hasn't yet turned in its report on bidding procedures, something which some legislators have questioned.
- Rankin said "This was a pretty serious issue in the last session" and noted small and medium contractors feel disadvantaged by current procedures. So he wants some extensive discussion at the department hearing.
- McCluskie noted the closure of I-70 highlighted accessibility issues on the Western Slope and would like to hear from CDOT on planning for alternative routes.
- Moreno noted shovel ready projects for Polis stimulus package are in rural areas, and he would like to hear is COT is doing any work with RTD on budget problems and if there are any discussions about helping RTD.
- Moreno also said he's heard Central 70 Project may well be over budget, so he'd like to hear about that.
- Finally, he'd like CDOT to comment on outsourcing of such work as design. "There's a concerning trend there." Rankin wants this combined with the answers on other contracting issues.