

June 2021 Public Works Report

Front Range and Denver Regional Landfill Updates – Unchanged Since Last Month

Waste Connections has notified the Town of Erie that they have begun the Denver Regional Landfill's (DRL) final closure activities. The landfill is located south of County Road 6 and west of County Road 5. The last step in the closure is the re-grading and applying native grass seeding, the seeding is planned for fall.

Additionally, Waste Connections is wrapping up work to bring the southwest edge of the Front Range Landfill (FRL) to its permitted height. Upon completion, this location will also be seeded and should help in shielding view of ongoing operations directly behind that area and currently visible from the south, this is anticipated to occur in summer or fall, depending on weather conditions.



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 building is up and the turbine is being constructed in the Seattle area. We anticipate having it up and running in late July/early August.

North Water Reclamation Facility (NWRf) Expansion

Construction of this \$30+ Million project continues. The tanks for the Auto-thermal Thermophillic Aerobic Digestion (ATAD) process are close to complete and the project continues to move along on schedule. We anticipate an early 2022 completion.

Sustainability and Water Conservation

General

- Sustainability Division hired a Sustainability Data Analyst Intern for the summer to analyze water, energy, and waste-related usage and billing as well as to create visual dashboards for Sustainability Plan progress.

Energy

- Energy Action Plan updates underway. This will identify 2-3 specific goals the Town will work on to achieve over the next 2 years.
- Staff presented at the quarterly O.N.E. group on energy efficiency and renewable energy resources.
- Analysis for potential utility-scale locations is underway. A Study Session discussion for options to expand solar electric generation is scheduled for July 20.
- Benchmarking for the Police Department and Town Hall facilities have been completed. Technical assistance for United Power sites is being explored.

Transportation

- Two more electric vehicle charging stations have been installed in the church parking lot adjacent to Town Hall. The Town has seven total dual-port charging stations available in strategic locations for public use 24/7. Communications and website resources will accompany the electrification launch.

Waste, Recycling, & Composting

- Eco-Cycle was chosen for the contract to work on the communications, community engagement, and policy development work related to the Recycling Center and residential curbside options.
- Recycling Center upgrades design/build bid has been received and scope finalized to begin construction.
- Analysis is underway for opening and staffing the Recycling Center seven days/week.

Water Efficiency

- Water Drought and Conservation Plans were adopted on June 8. Drought preparedness meetings are being schedule and operating procedures ironed out should any drought stages be activated.

- Additional website resources and video tutorials on how to read your water bill and how to register and begin using your EyeOnWater smart meter app have been added to the website and included in monthly water bills.
- Certified Irrigation Manager Certifications underway for water conservation staff so to replicate throughout Parks and Public Works staff as appropriate.
- Website updates underway to include best management practices for DIY turf replacements, irrigation maintenance, direct installations, etc.
- High efficiency nozzle replacements are scheduled to begin retrofitting in Erie Village.

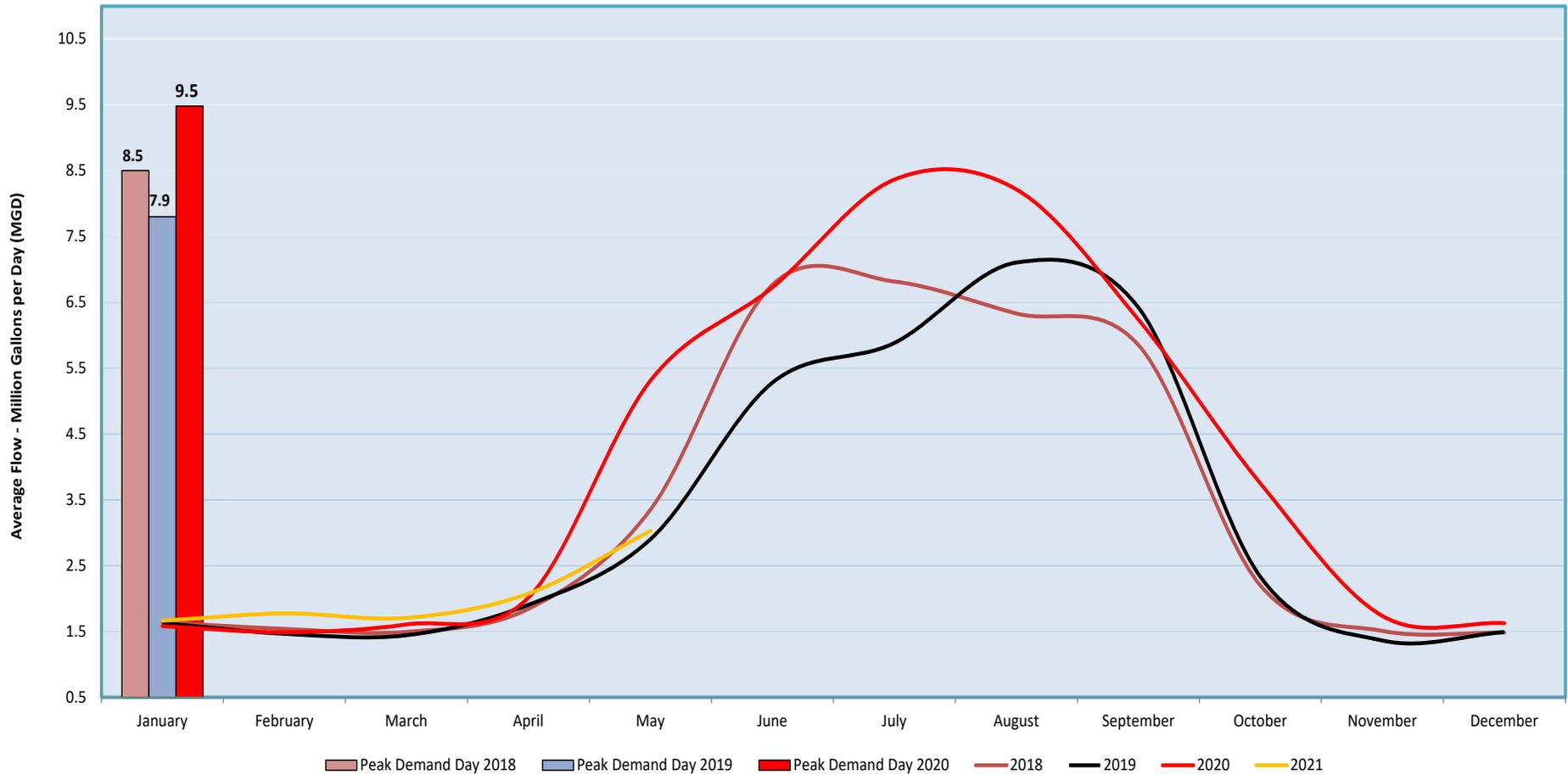


Lynn R. Morgan Water Treatment Facility (WTF)

Annual Daily Average Flow: 2018 – 3.4 MG 2019 – 3.3 MG 2020 – 4.1 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. Local municipalities and water providers are raising a red flag due to concerns regarding an apparent second year of drought, and wildfire impacts in the watershed.

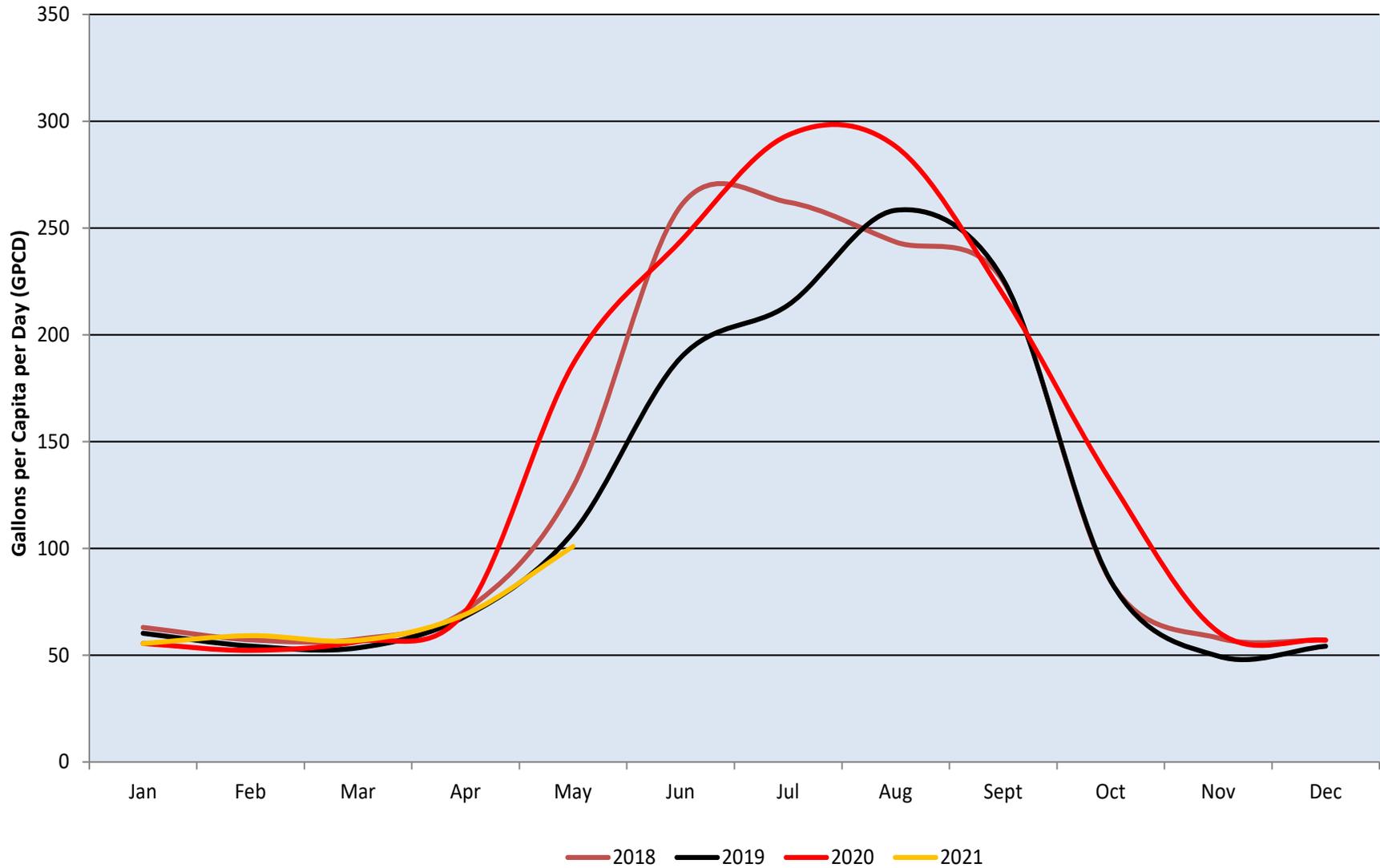
Average Monthly Production



Annual Daily Gallons Per Capita per Day (GPCD): **2018** – 131 GPCD **2019** – 118 GPCD **2020** – 143 GPCD

July 2020 had the highest average daily usage at 294 gallons GPCD. November 2019 had the lowest usage at 50 GPCD. Indoor demands during winter remain relatively stable. Average daily usage took a big jump in 2020 due to COVID and drought. 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:

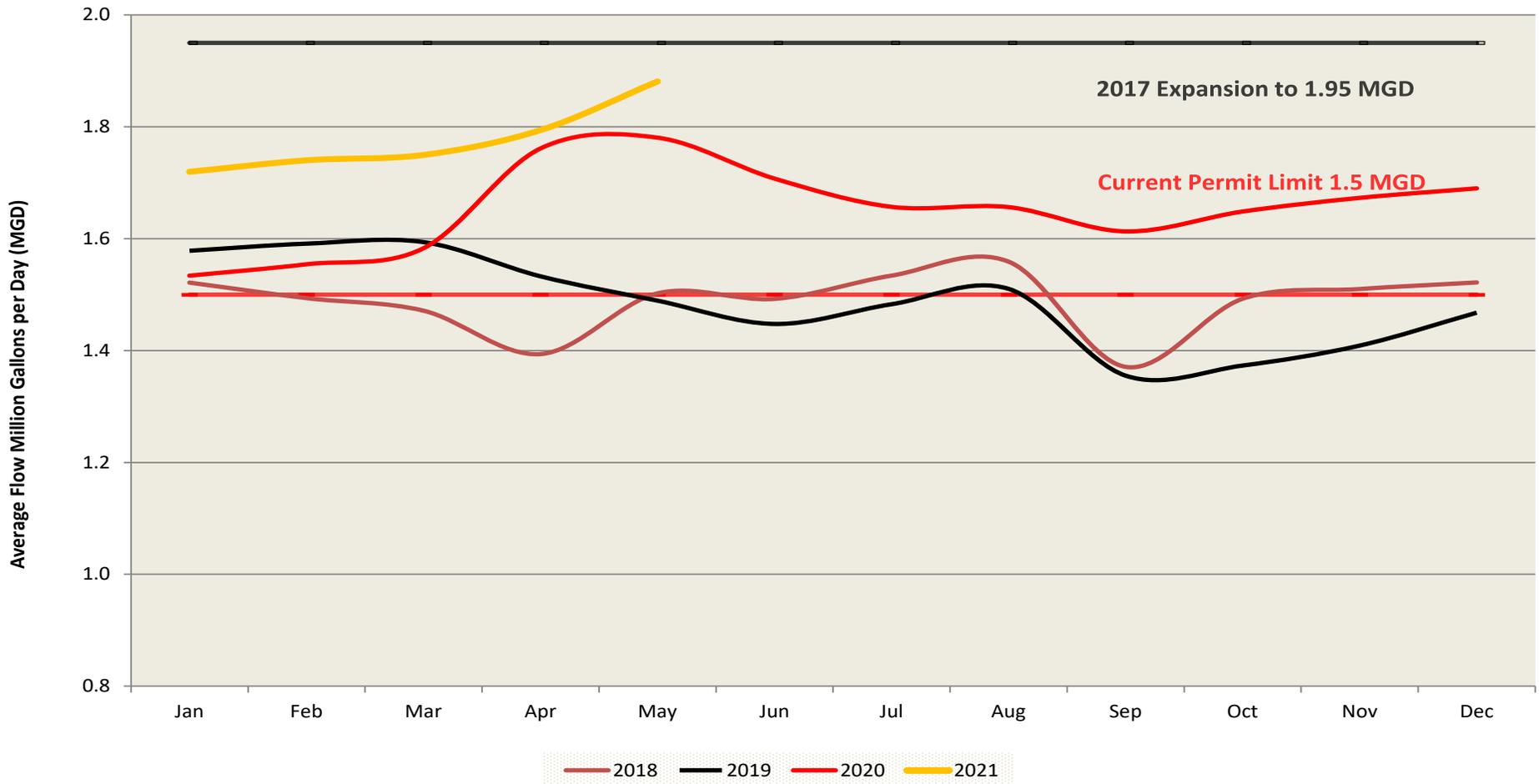
2018 – 1.49 MG

2019 - 1.49 MG

2020 - 1.66 MG

September 2019 had the lowest average flow of 1.36 million gallons per day (MGD). May 2020 set a high average monthly flow of 1.78 MGD. We continue to work through challenges with Colorado Department of Public Health and Environment (CDPHE) and their recent violation notice to the Town. 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 and staff and our consultants and legal team are working diligently on this. Flows are up significantly, presumably due to COVID and residents working from home, higher than usual spring precipitation (causing infiltration into manholes/pipes), along with new development coming on-line.

Average Monthly Flows



Annual Daily Gallons Per Capita per Day (GPCD):

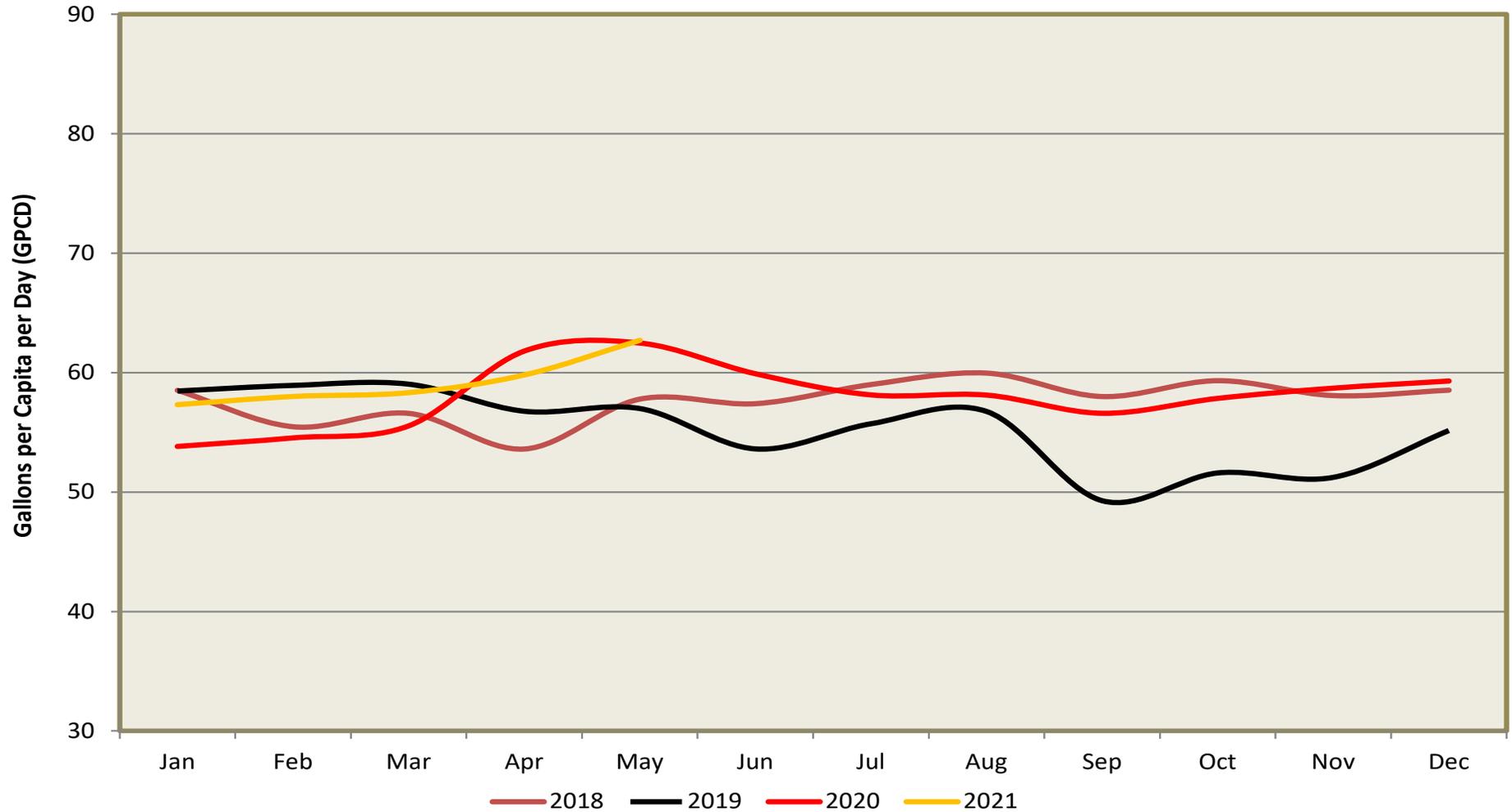
2018 - 58 GPCD

2019 - 55 GPCD

2020 - 58 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.

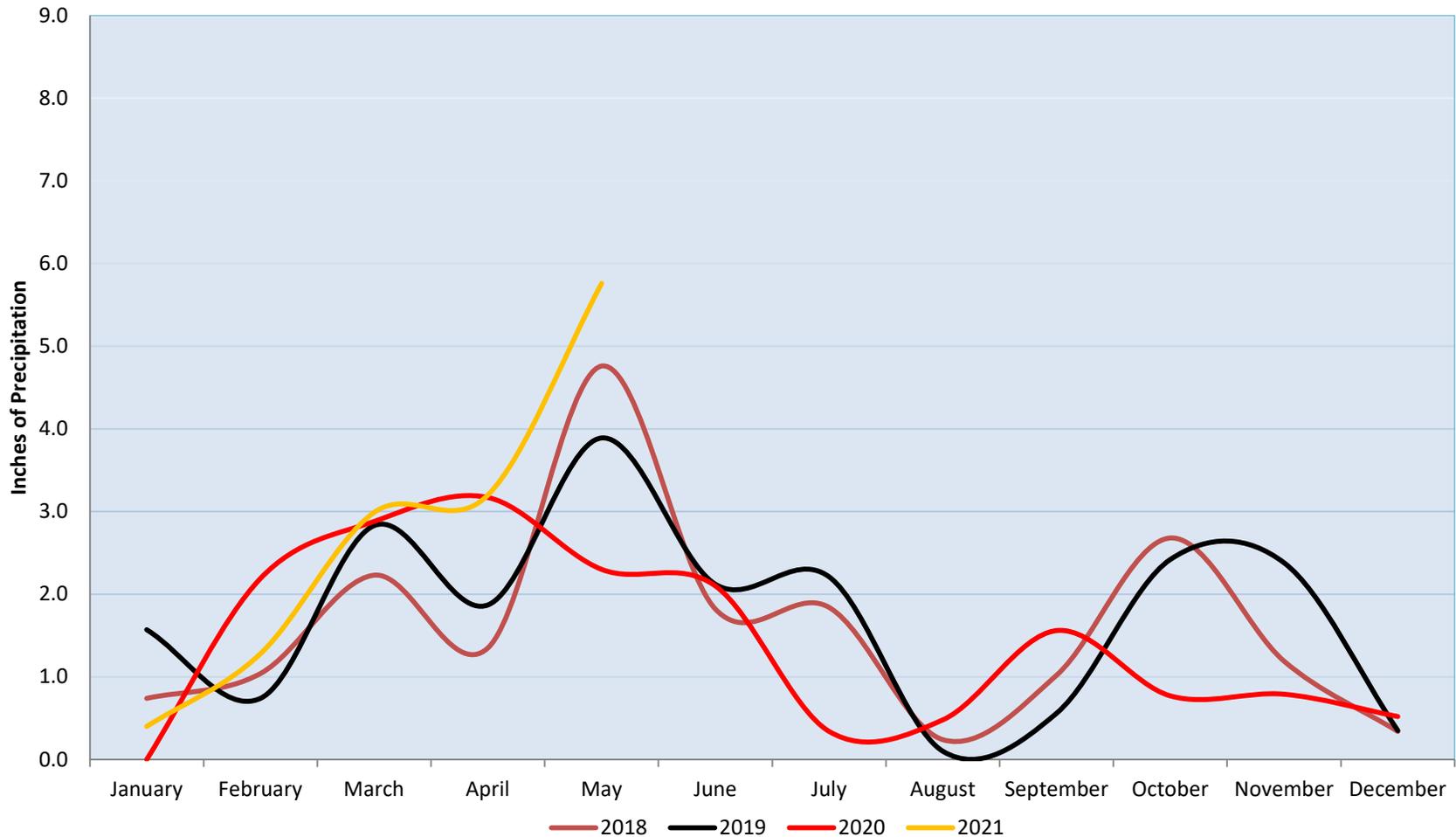
Average Daily Usage Per Capita



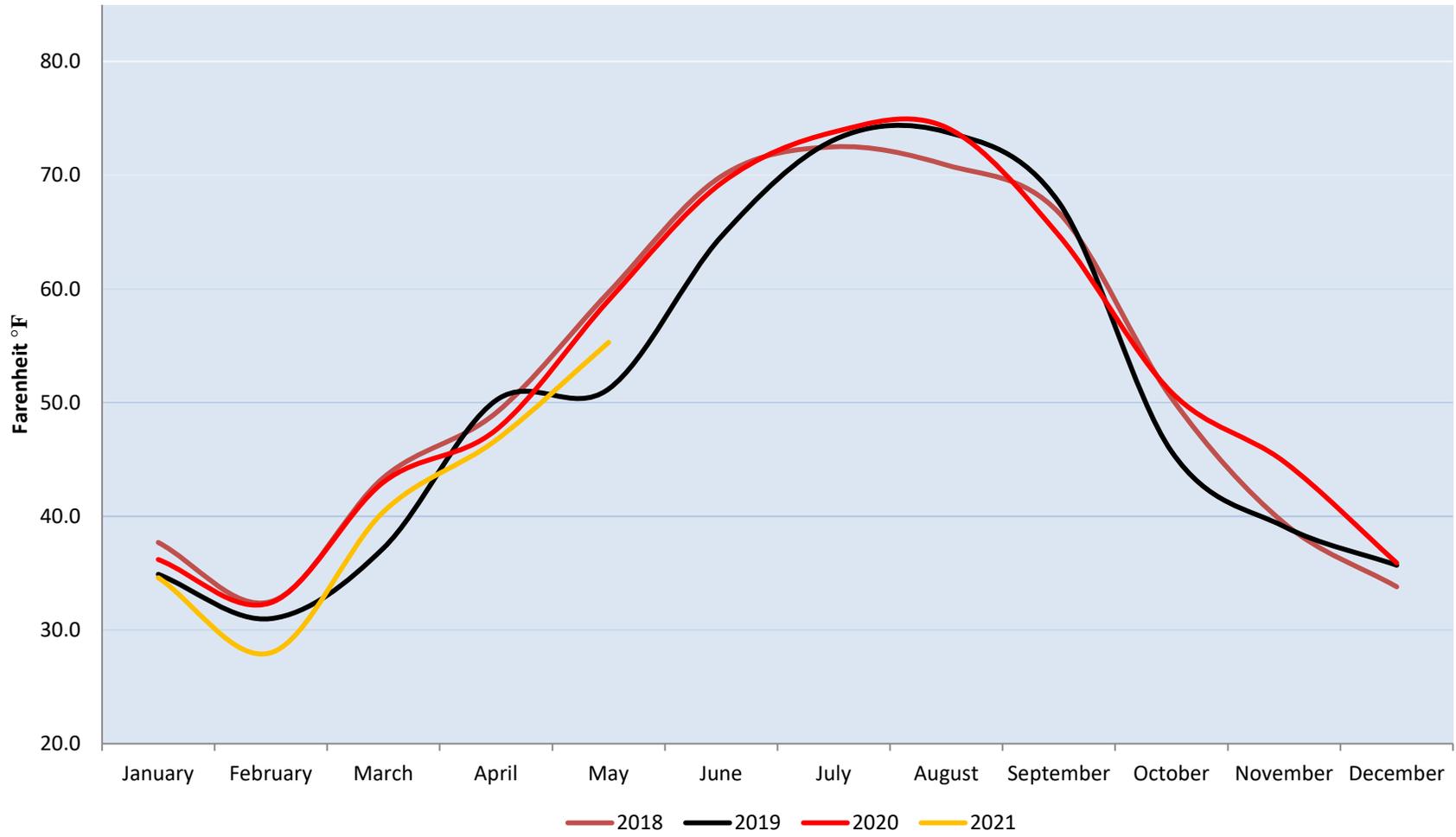
Monthly Data for Boulder – National Oceanic and Atmospheric Administration (NOAA) & Natural Resource Conservation Service (NRCS)

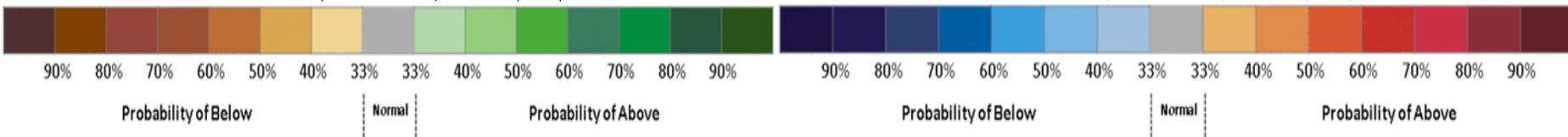
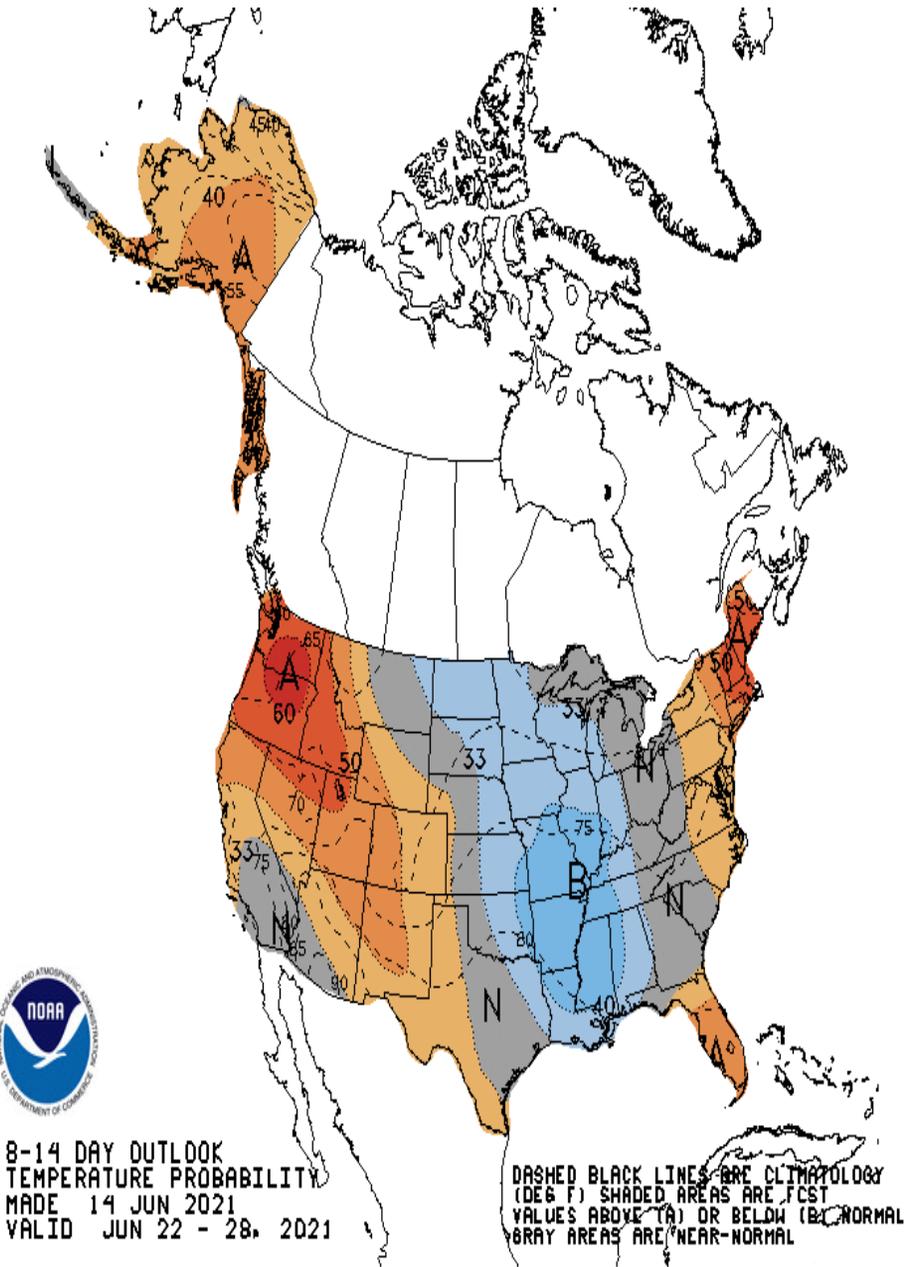
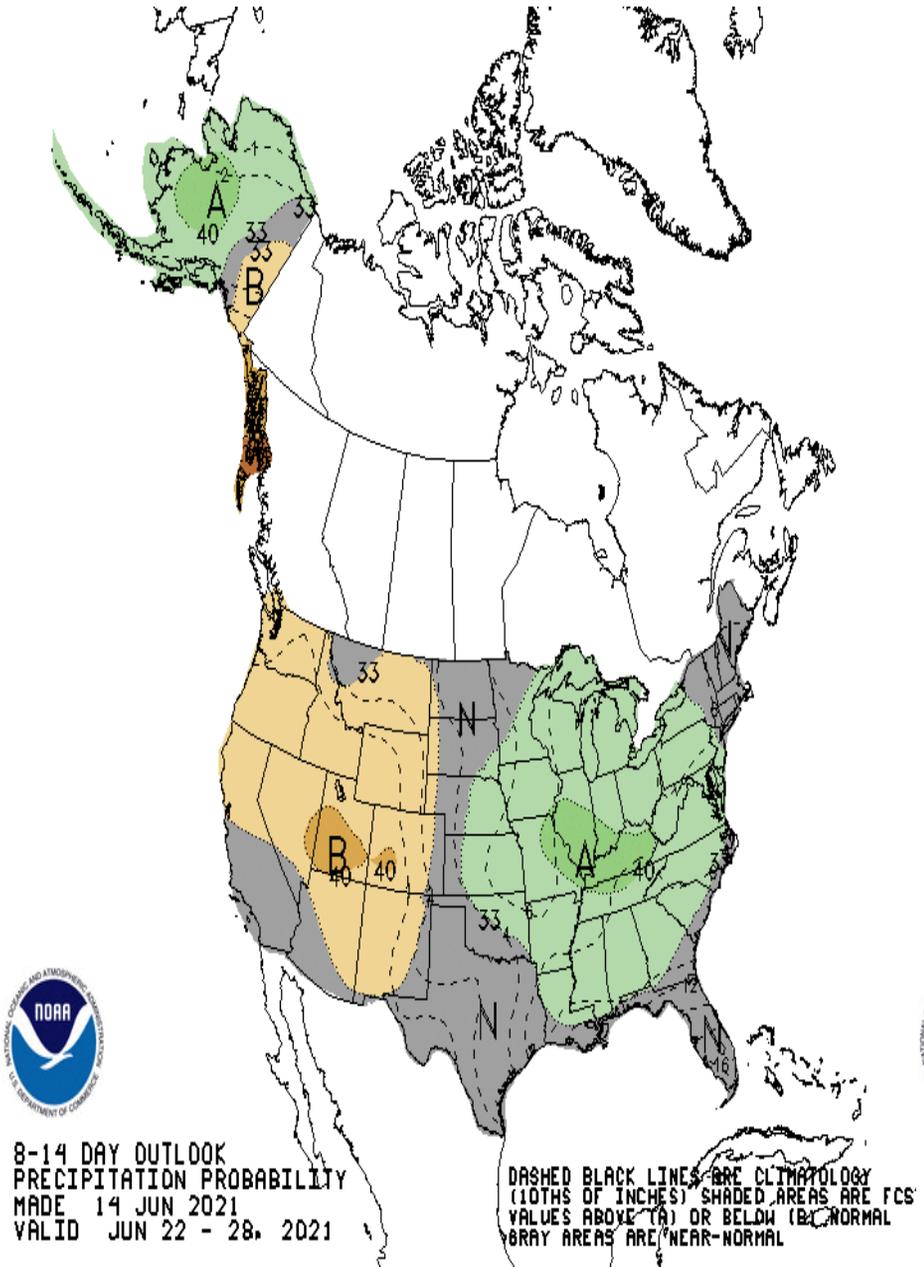
NOAA is predicting 33% below normal precipitation and 40% above normal temperatures through the end of the month. Drought conditions have improved markedly in the state due to recent precipitation, however the western half of the state is still seeing significant drought. Given the Town and much of the Front Range relies on Western Slope water supplies, this is still a concern and becoming a much larger issue across the western half of the US. Stay tuned.

Precipitation



Mean Temperature



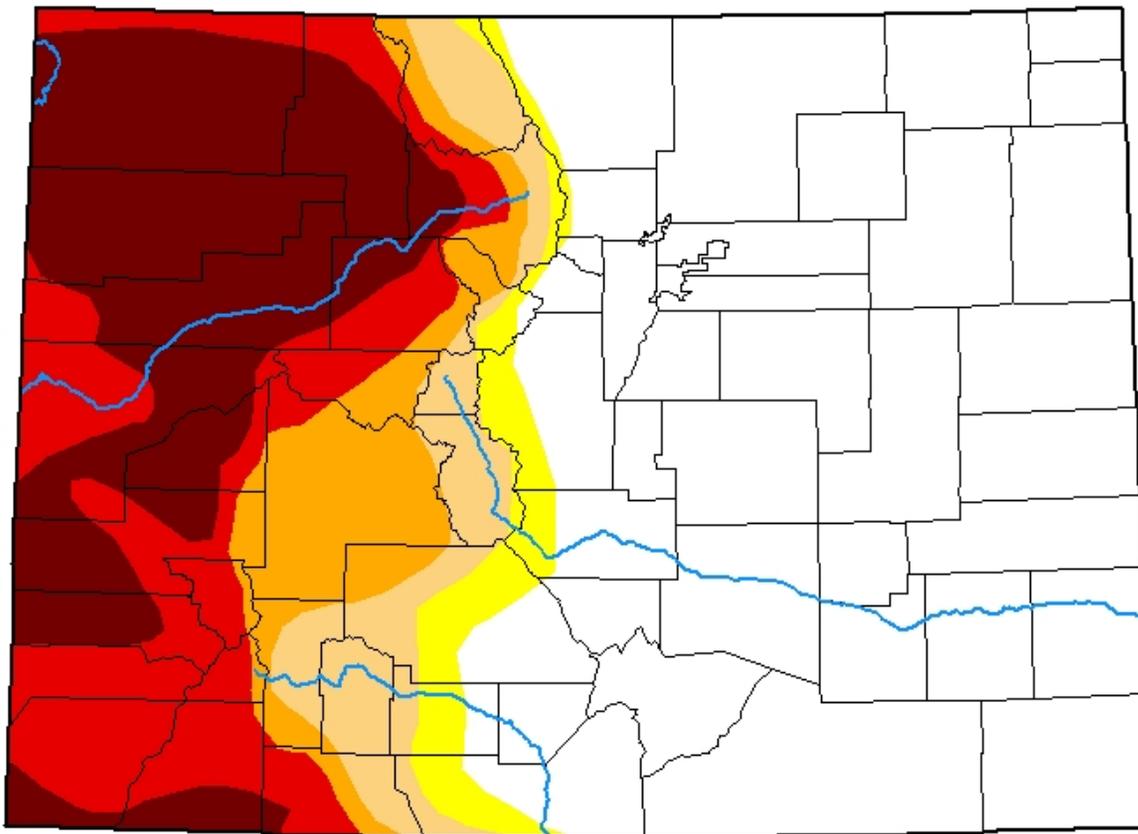


U.S. Drought Monitor Colorado

June 8, 2021

(Released Thursday, Jun. 10, 2021)

Valid 8 a.m. EDT



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>

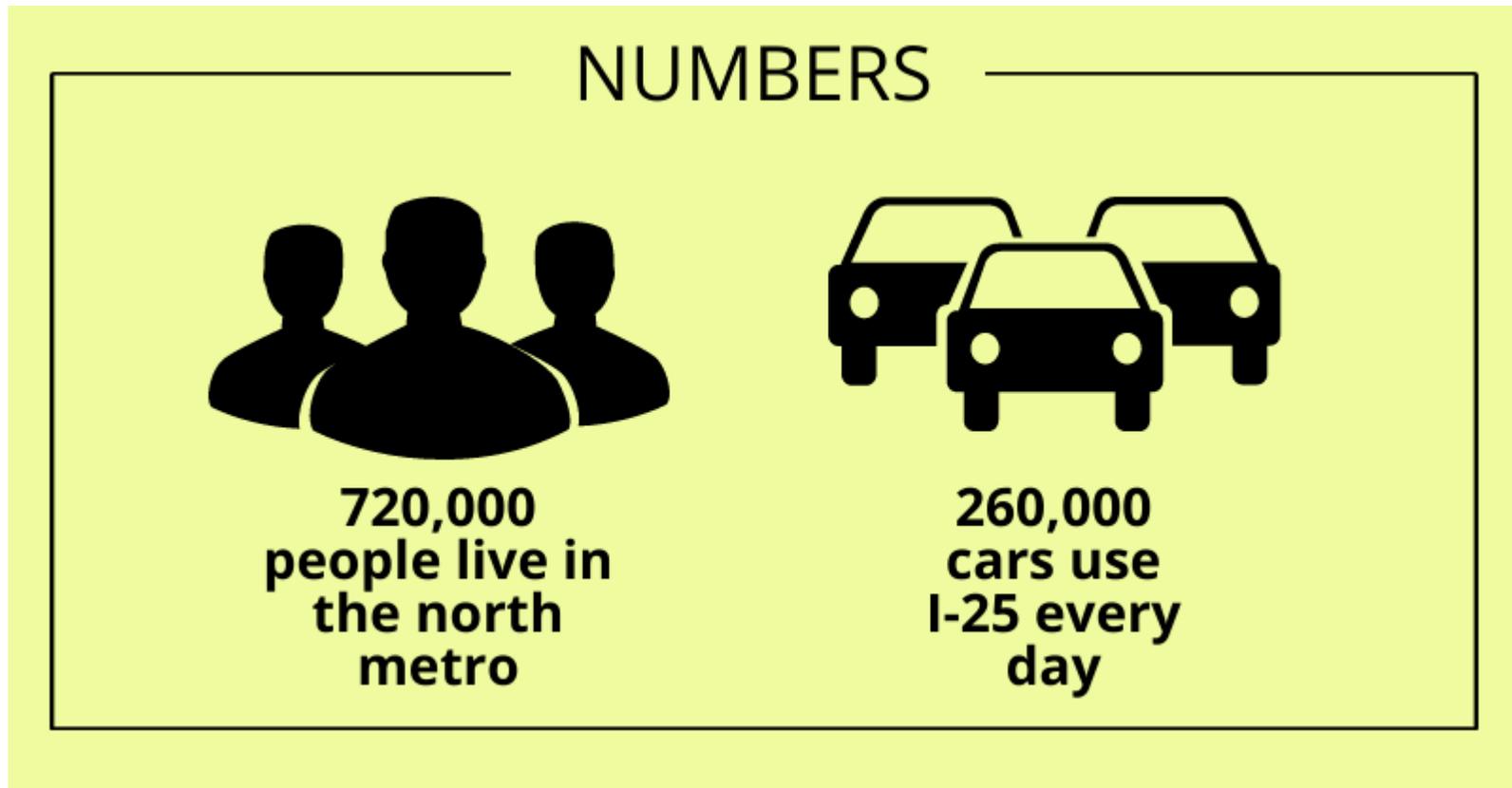
Author:

Brian Fuchs
National Drought Mitigation Center



droughtmonitor.unl.edu

Transportation & General Updates



Transportation and Transit

- Local Transportation Updates (attached)
- There are many efforts underway given the indication that the new Federal Administration is pro-transportation and looking to invest significantly in infrastructure including recent bills passed at the state level.

Some key areas:

- Momentum on support for the Front Range Passenger Rail Project (FRPR)
- Erie and other local stakeholders are making a push for progress on 287 Bus Rapid Transit (BRT)
- Erie will be working closely with local stakeholders to push forward a SH7 and I-25 Mobility Hub
- SH 119 improvements

General Information:

- Public Works, Engineering, Planning and Communications and Outreach are working together to coordinate a number of projects throughout summer that will impact travel through Erie.
- Various approved developments are moving forward including Parkdale, Nine Mile and others.
- The Town's annual pavement maintenance projects.
- A \$5 million request for the SH 119/SH 52 intersection has been added the House T&I Committee Invest Act Request and is also attached.
- A planned intersection project between Lafayette, Boulder County and Erie is gaining some attention from nearby residents (along SH7 and the south end of 119th). Town staff along with Lafayette staff and Boulder Staff will meet with these residents.
- A letter from Senator Hickenlooper is attached regarding a recent grant award for our Airport Pavement Management Project (photo below)



Our website has the most up-to-date information on **streets projects** impacts and can be found here:

<https://www.erieco.gov/1604/Cone-Zones>

No.	Project Name	City	State/Territory	Amount
266	Eisenhower Johnson Memorial Tunnel (EJMT) Repairs and Upgrades	Dillon	CO	4,000,000
267	Expansion of Gun Club Road	Aurora	CO	1,500,000
268	Federal Parkway Multimodal Transportation Improvements	Westminster	CO	4,107,114
269	Frisco Transit Center	Frisco	CO	6,650,000
270	I-25 Valley Highway: Phases 3 and 4 ROW Acquisition	Denver	CO	5,530,000
271	I-25/Bellevue Avenue Interchange Improvements	Greenwood Village	CO	10,000,000
272	I-70 and 32nd Ave. Bridge Replacement	Wheat Ridge	CO	2,000,000
273	SH-72 (Indiana St) Widening at UPRR	Arvada	CO	1,095,872
274	State Highway 119 and State Highway 52 Multimodal Intersection Improvements	Boulder County	CO	5,000,000
275	US 36 and Community Drive Roundabout	Estes Park	CO	850,000
276	Wadsworth Widening: 35th Avenue to I-70	Wheat Ridge	CO	10,000,000

United States Senate

April 30, 2021

Town of Erie
645 Holbrook Street
P.O. Box 750
Erie, CO 80516

Dear Town of Erie,

I would like to offer you and everyone in the Town of Erie my warmest congratulations for being awarded such a significant grant for your Airport Improvement Program from the Department of Transportation. Please know that I share your commitment to investing in our nation's infrastructure. Thank you for your work to improve the Town of Erie and the State of Colorado. I wish you continued luck in all your endeavors.

Sincerely,



John Hickenlooper
United States Senator