

Public Works Report

April 2023

Front Range (FRL) and Denver Regional Landfill (DRL) Updates

The RFP for landfill stakeholder's process is on hold temporarily due to staff capacity, we will revisit in summer 2023. In the meantime, staff is leading a tank siting study to determine where the existing water storage tanks and pump station currently at the landfill could be relocated to, we are currently waiting to get a geotechnical study at the proposed site completed. Waste Connection will reimburse the Town for this study.

Capital Improvement Projects

North Water Reclamation Facility (NWRf) Expansion

Construction of this \$30+ Million project will be wrapping up between now and July.

North Water Reclamation Facility Large Scale Solar

Discussion continues with Iconergy and United Power for preliminary solar data and initial feasibility study. Currently discussion includes an approximately 5.5-acre solar array east of the facility that could cover close to 100% of the building's current energy use. Grant funding is being explored to support this project. Iconergy, will be bringing an Energy Performance Contracting presentation to the Board on May 26, after which they will shift to place more focus on this project.

Sustainability and Water Conservation

Air Quality & Transportation

- A Level 2 EV charger will be installed at Coal Creek Park in the next few weeks with another charger earmarked for the Lagoon Project by the Recycling Center shortly thereafter. These were partially supported through a grant from the Regional Air Quality Council.
- Sustainability Department continues to participate in the Boulder County Regional Transportation Electrification effort.
- [Indoor air quality rebates](#) continue to trickle in including [Mow Down Pollution Program Residential Rebates](#).

Energy

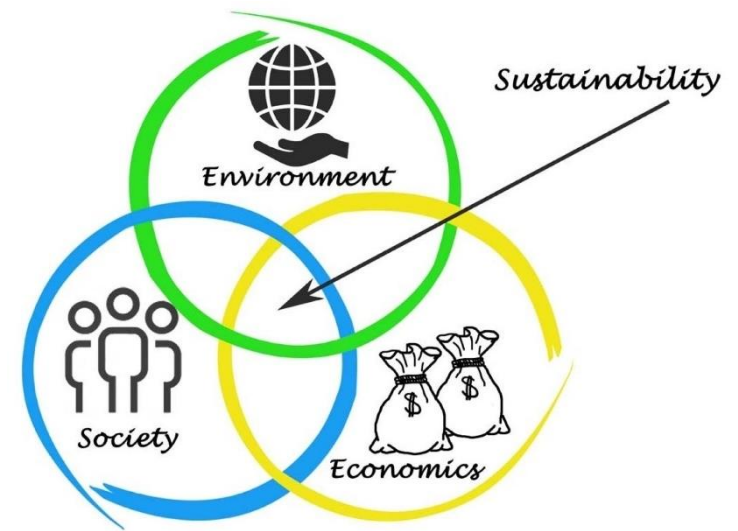
- Negotiations to purchase Town streetlights from Xcel Energy and United Power continue.
- Town of Erie Sustainability Department continues to work with Partners In Energy to support energy efficiency improvements and renewable energy adoption including most recently 100 free Home Energy Squad Assessments for Erie residents or home based businesses: <https://co.my.xcelenergy.com/s/residential/home-services/home-energy-squad>. Residents serviced by Xcel can sign up for a free \$50 basic assessment or use two \$50 vouchers for \$100 off the more extensive Home Energy Squad Plus visit.
- Partners In Energy (PIE) and the Brendle Group will be hosting a Network Summit Event at the Erie Community Center on May 22 from 1-3 p.m. This event is open to PIE communities and is focused on Celebrating Innovation & Creative Outreach through the program and celebrating program participation throughout the state. [Register here](#).

Waste, Recycling, & Composting

- Security cameras for the Recycling Center were purchased through Safety Program grant funds facilitated by the Safety Team and Risk Manager, Lori Wisner. These will be installed soon along with illegal dumping signs.
- Town [Clean-Up Day](#) was a success with a steady stream of participants throughout the event. Waste diversion numbers will be tallied shortly and shared.

Water Conservation & Efficiency

- [Turf Replacement Rebate Program](#):
 - Applications continue to trickle in.
- [Resource Central](#) contracts have all been signed for the 2023 watering season. These programs include:
 - [Garden In A Box](#)
 - 81 garden discounts out of 100 accounted for.
 - [Slow the Flow sprinkler assessments](#) (likely beginning early June)
 - [Lawn Removal Service](#) (likely start mid-May to beginning of June - weather dependent)
- CWCB Turf Replacement Grant was awarded to the Town of Erie (May 2, 2023)
 - This grant is a \$25,000 matching grant that can be used to pilot a larger property landscape conversion program for HOA's and/or other commercial properties.
 - The matching requirement for this grant has already been met by funds spent on other programs so there is no increase in budget required.
 - If successful, there will be another funding round that we will have access to for the same funding amount in early fall.

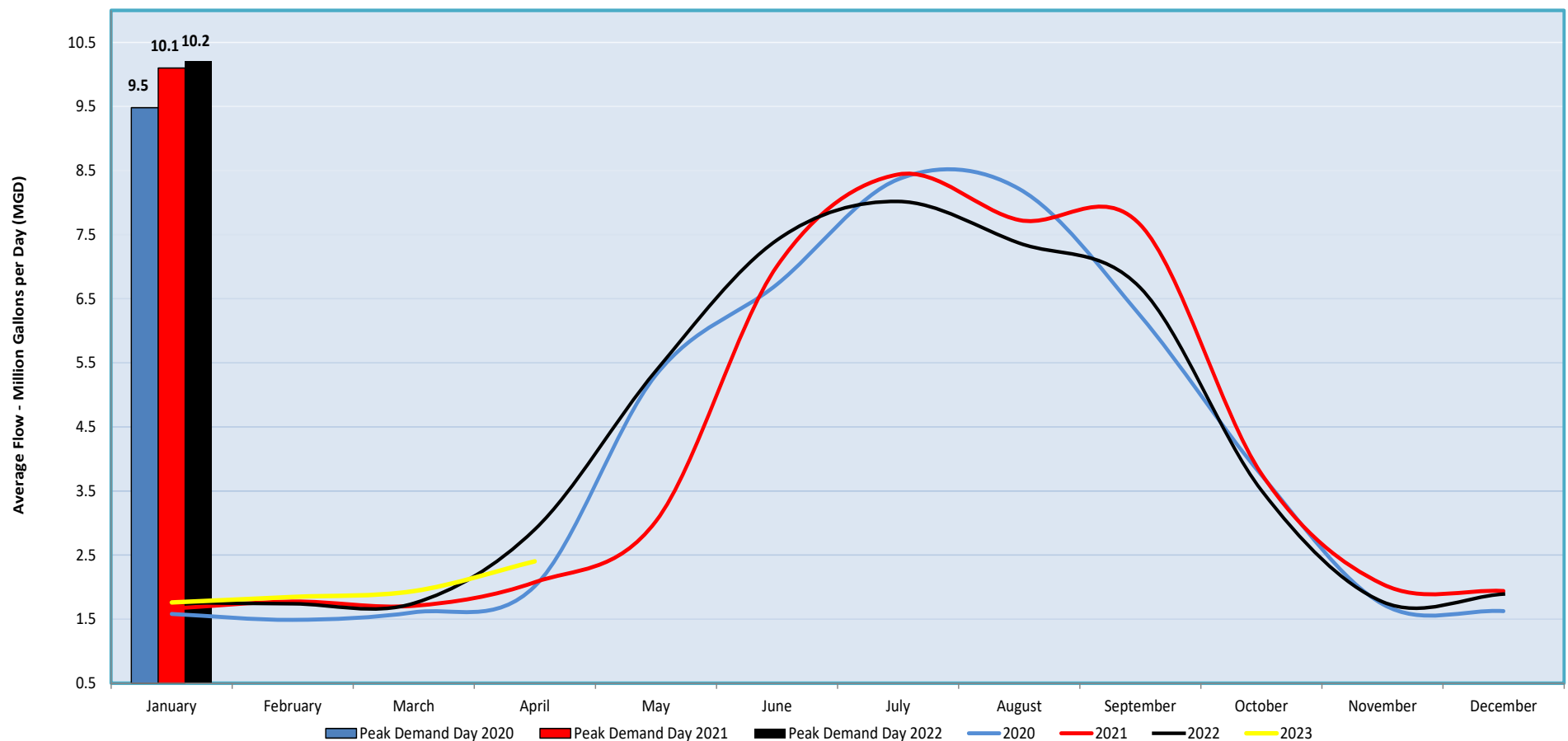


Lynn R. Morgan Water Treatment Facility (WTF)

Average Flow Million Gallons per Day (MGD): **2020** – 4.1 MGD **2021** – 4.3 MGD **2022** – 4.2 MGD

July 2022 set a new record for the peak **daily** production at 10.2 MG, however in whole summer demands in 2022 were lower overall. February 2020 had the lowest **monthly** demand at 1.49 MG. As new development comes online with water saving features and smaller landscaped areas, combined with the Town's strong tier pricing and conservation messaging we are seeing water demands reacting appropriately. This is shown in the graph below by the relatively flat demands year after year.

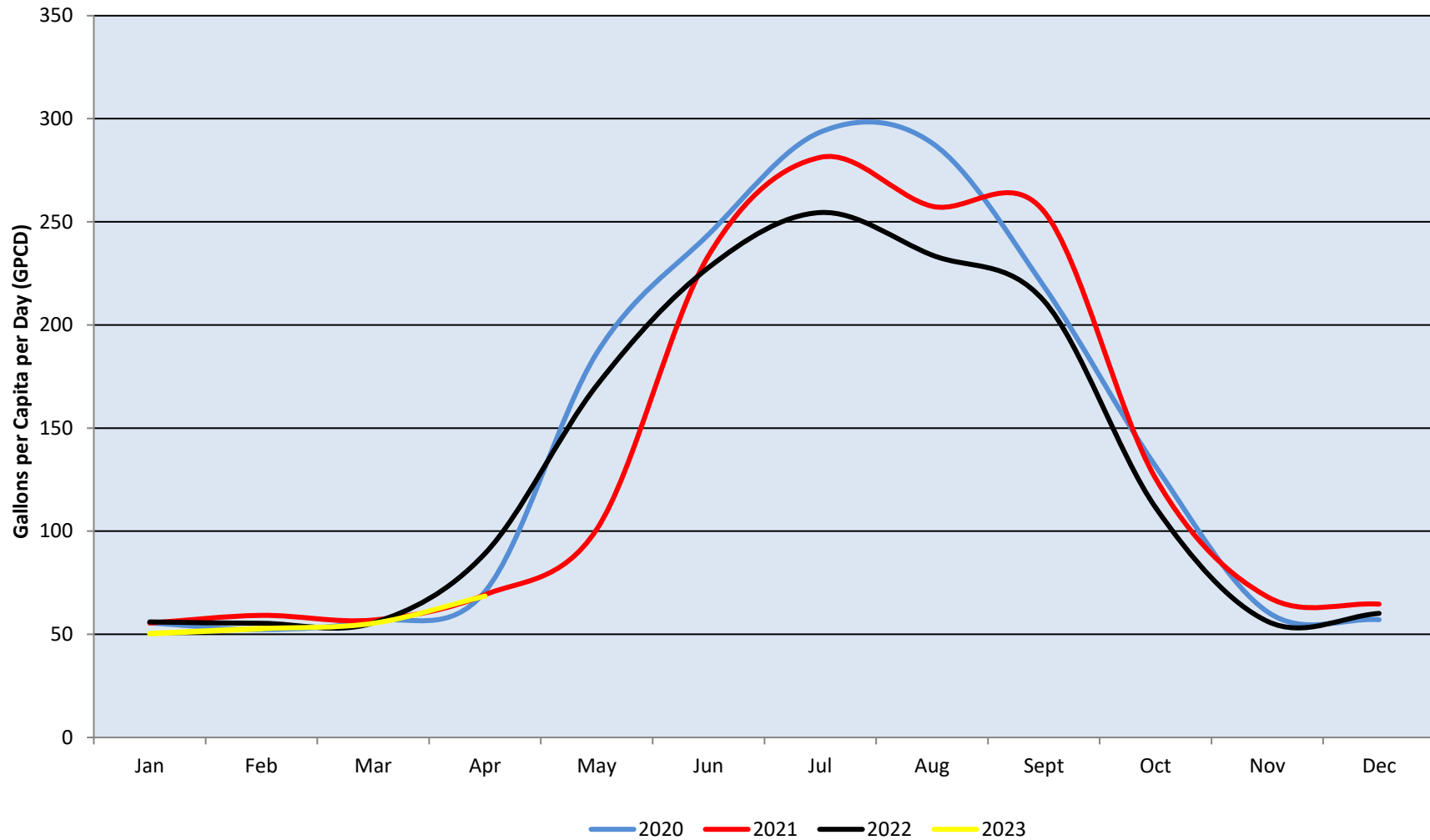
Average Monthly Production



Average Per Capita per Day (GPCD): **2020** – 143 GPCD **2021** – 136 GPCD **2022** – 132 GPCD

July 2020 had the highest average daily usage at 294 gallons GPCD. January 2023 had the lowest usage since 2019 at 50 GPCD. Indoor demands during winter remain relatively stable. Drought messaging, along with wetter conditions, seems to be helping curb excessive use. Reducing summer irrigation and increasing reuse water availability will reduce reliance on treated water supplies in the future.

Average Daily Usage Per Capita

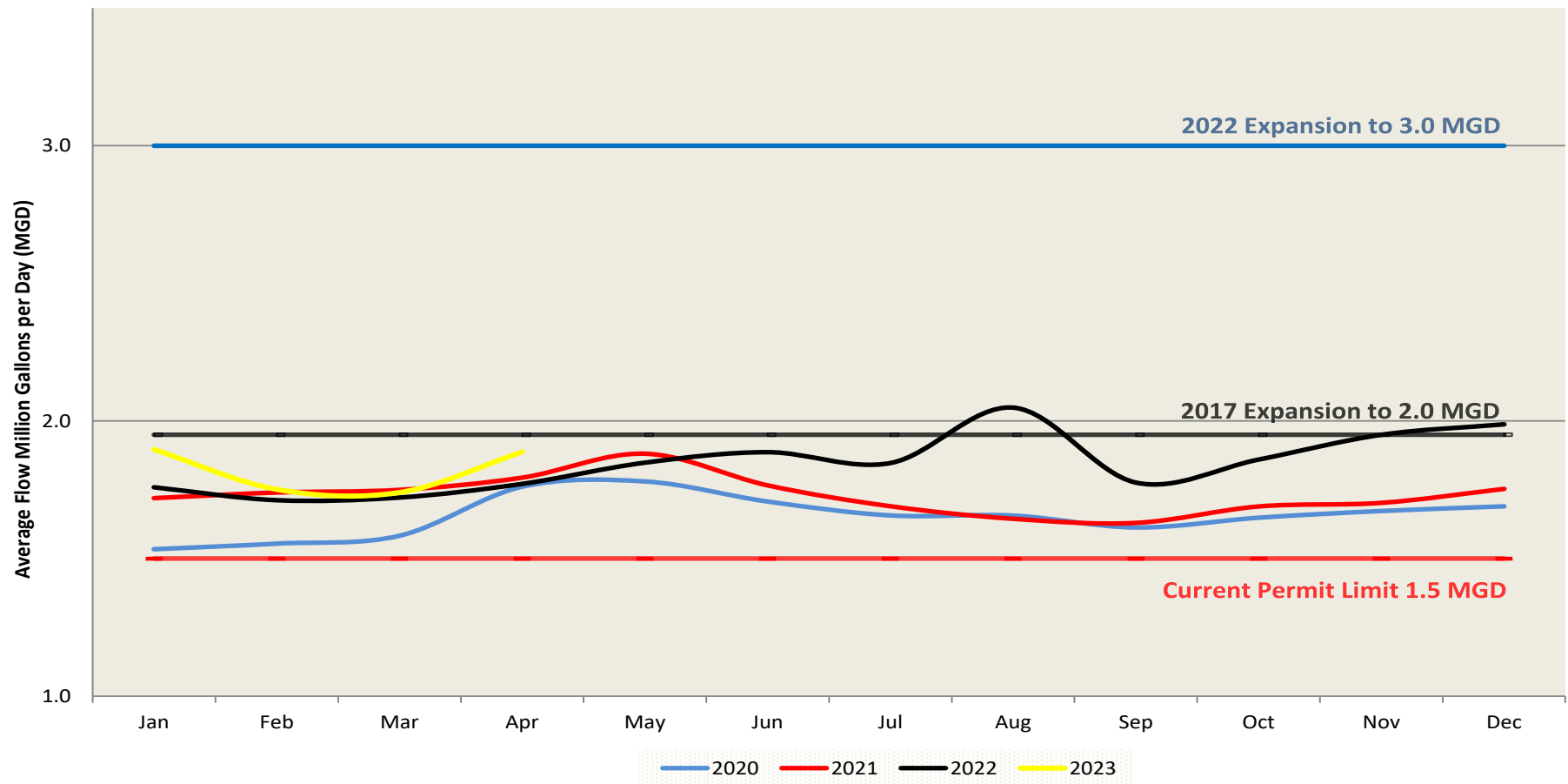


North Water Reclamation Facility

Average Flow MGD: **2020** - 1.66 MGD **2021** - 1.73 MGD **2022** - 1.85 MGD

January 2020 had the lowest average flow of 1.53 million gallons per day (MGD). August 2022 set a high average monthly flow of 2.05 MGD, likely due to microburst rainstorms that month. We thought we were very close to seeing a new permit for our North Water Reclamation Facility (NWRf) however CPDHE has informed us that they are now deferring the permit until 2026 or 2027. We are objecting. This permit is currently more than 7 years expired, and administratively extended, due to extreme inefficiencies at Colorado Department of Water Quality and Environment (CDPHE).

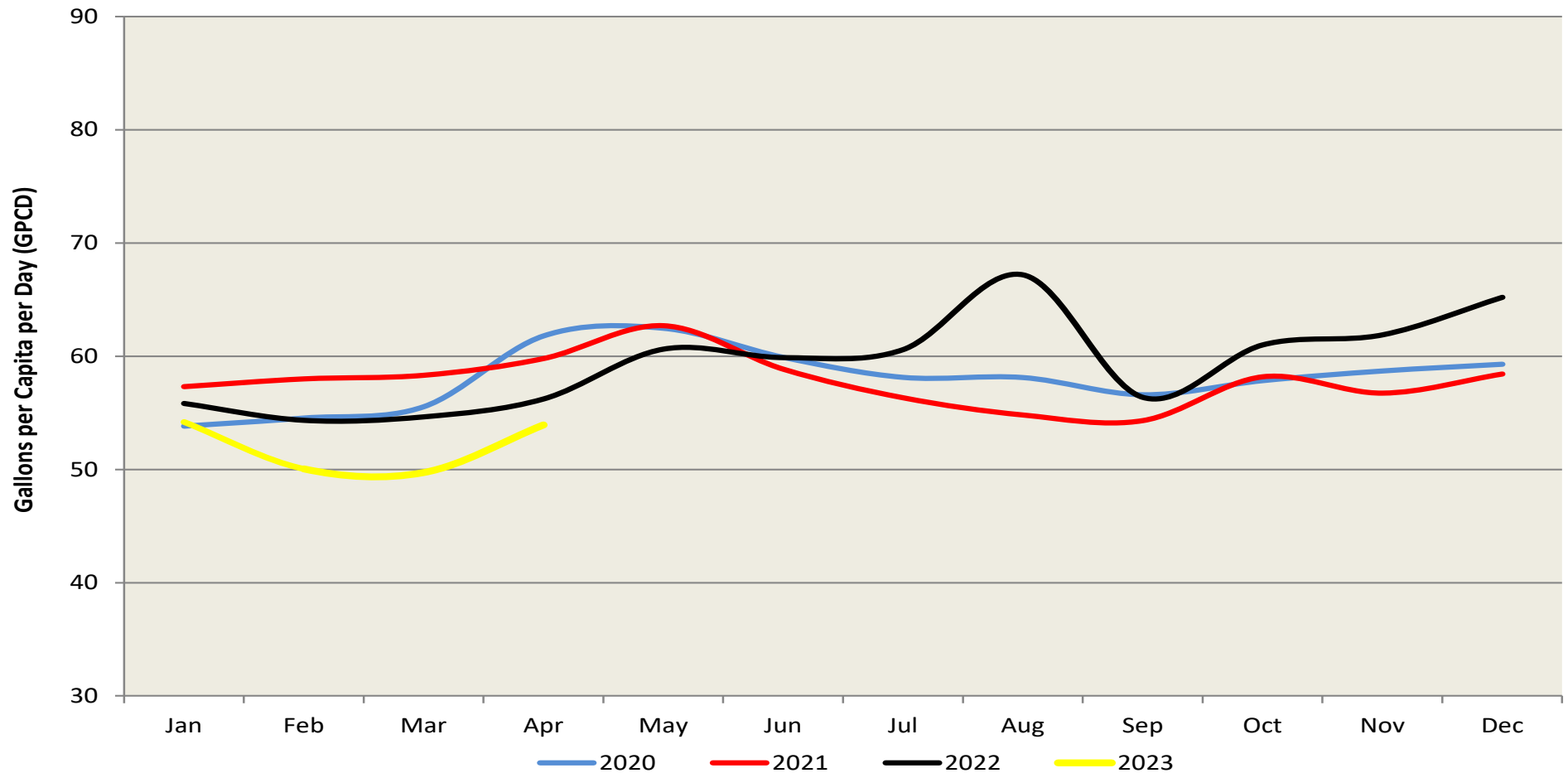
Average Monthly Flows



Annual Gallons Per Capita per Day (GPCD): **2020** - 58 GPCD **2021** - 58 GPCD **2022** - 59 GPCD

This graph depicts customer indoor water usage. August 2022 had the highest usage at 67 GPCD, again due to intense rain. February 2023 had the lowest usage at 50 GPCD. Fall, with relatively little precipitation and dropping groundwater levels, is typically a good indicator of true daily flows.

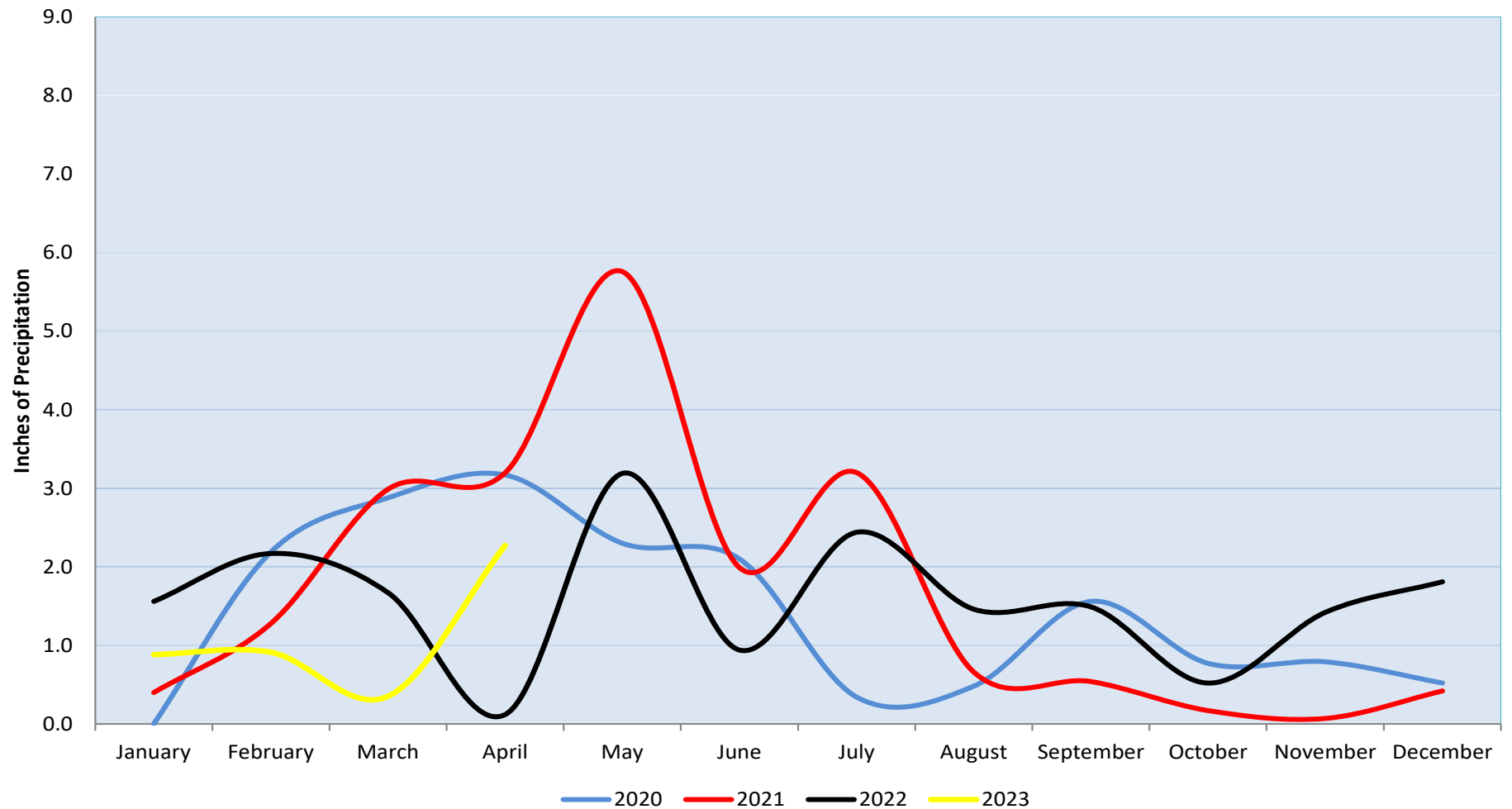
Average Daily Usage Per Capita



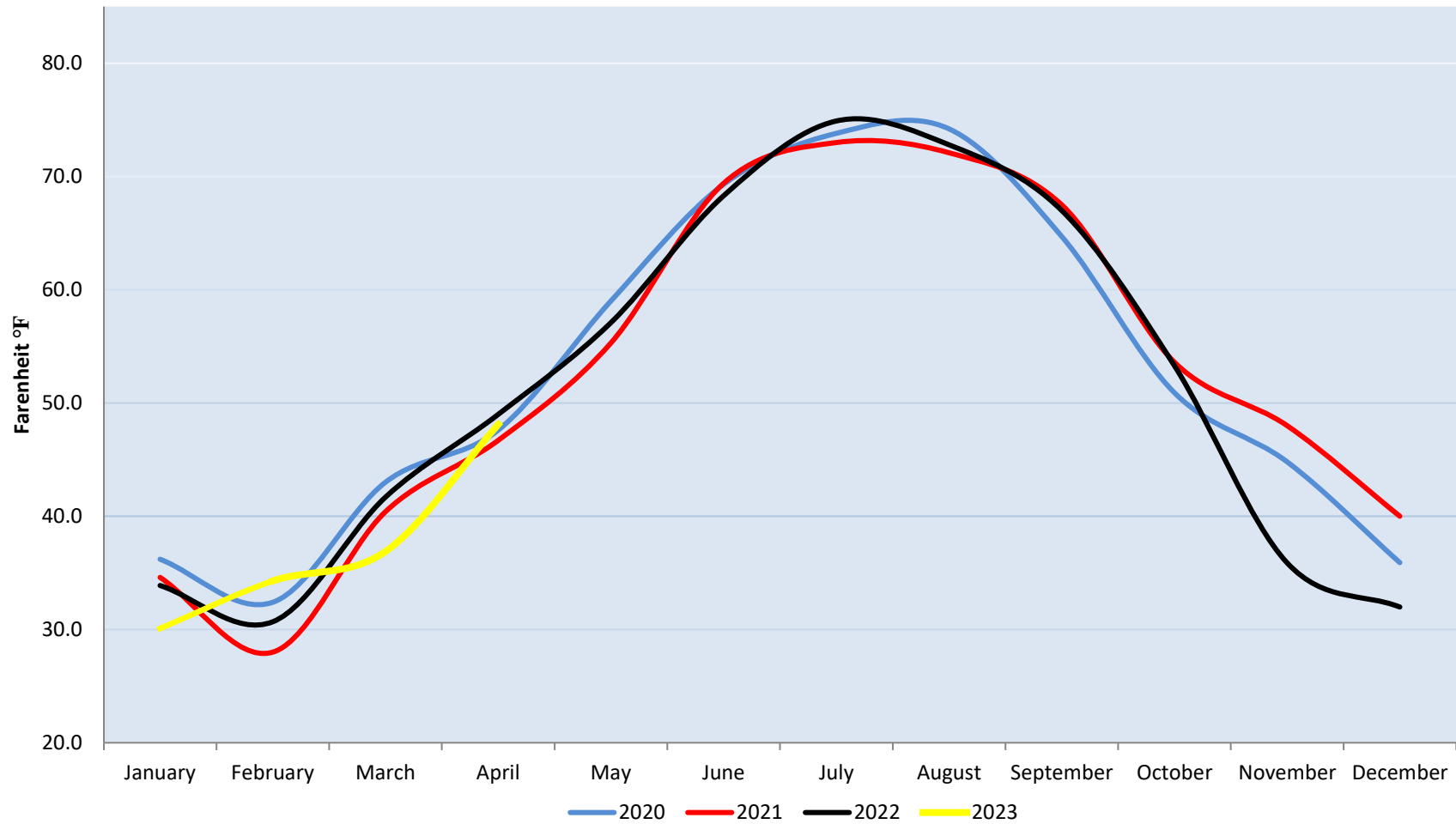
Monthly Data for Boulder – National Oceanic and Atmospheric Administration (NOAA) & Natural Resource Conservation Service (NRCS)

NOAA is predicting 40–50% above normal precipitation and 33-40% above normal temperatures again into late May. Run off has begun in the Front Range with recent warm temperatures, but snowpack remains very high in the west, particularly the south western portion of the state.

Precipitation



Mean Temperature



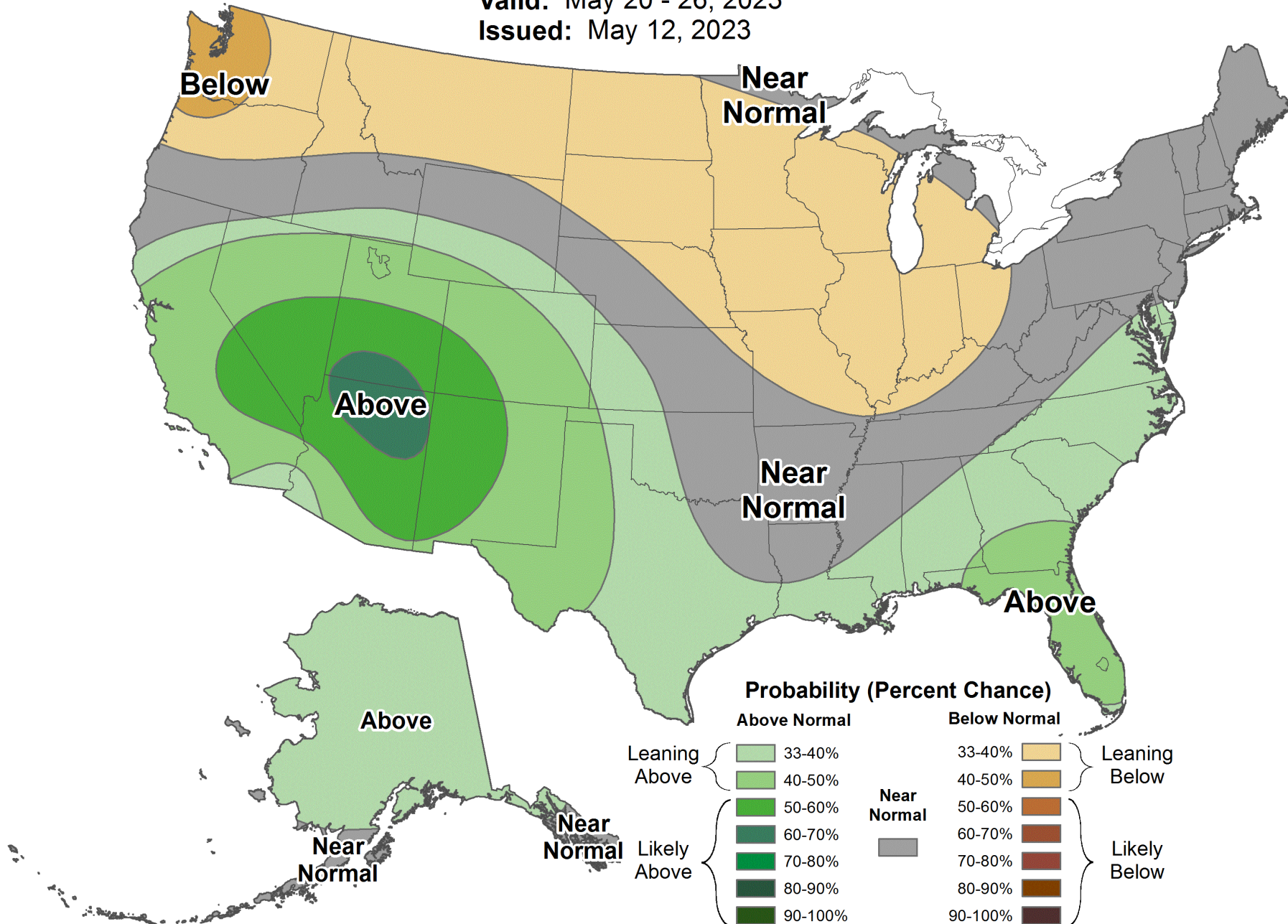


8-14 Day Precipitation Outlook



Valid: May 20 - 26, 2023

Issued: May 12, 2023



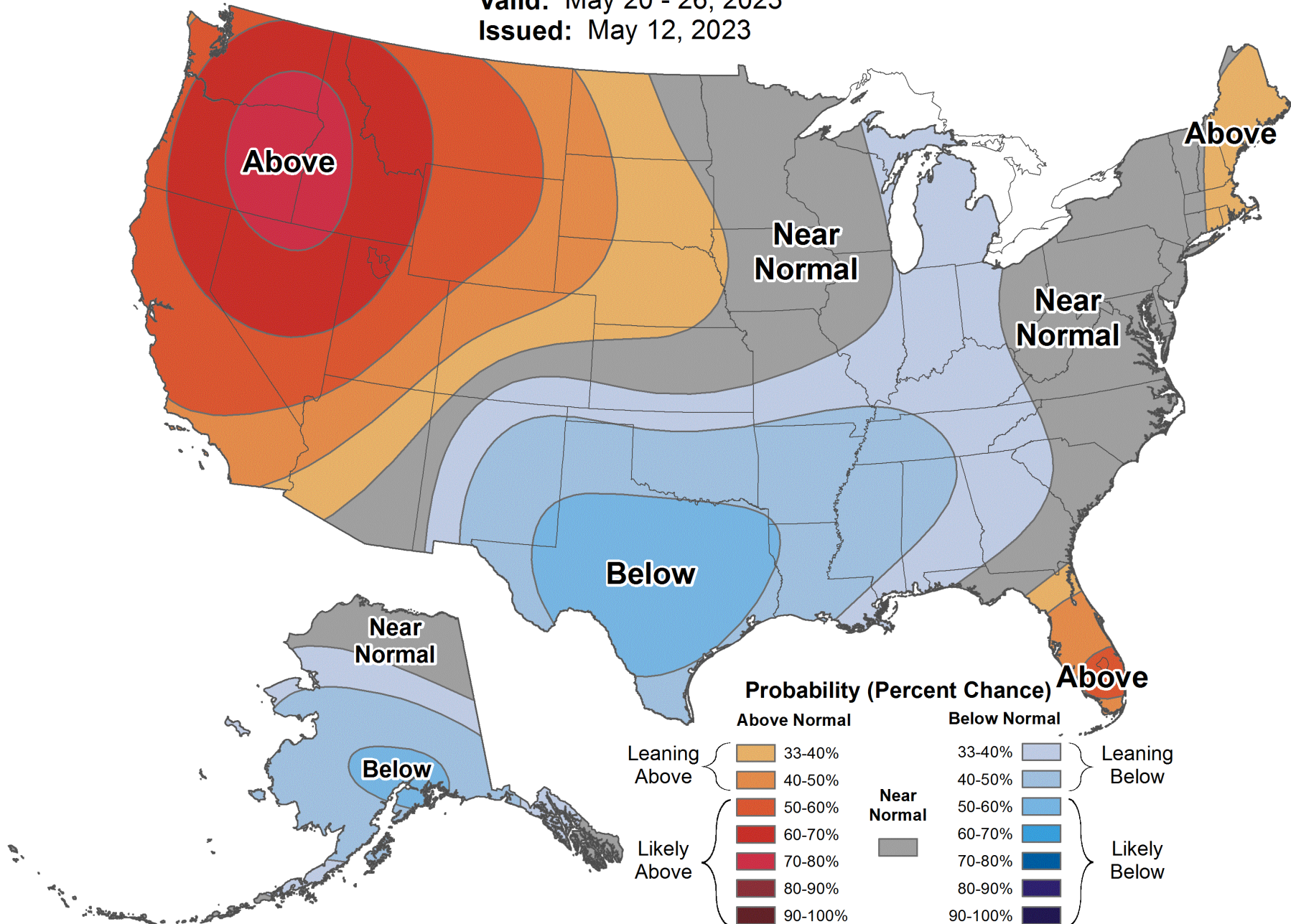


8-14 Day Temperature Outlook



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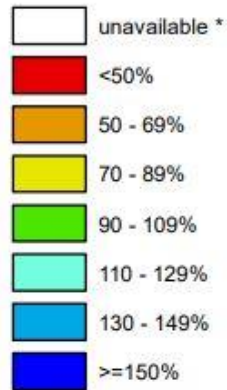
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Colorado SNOTEL Current Snow Water Equivalent (SWE) % of Normal

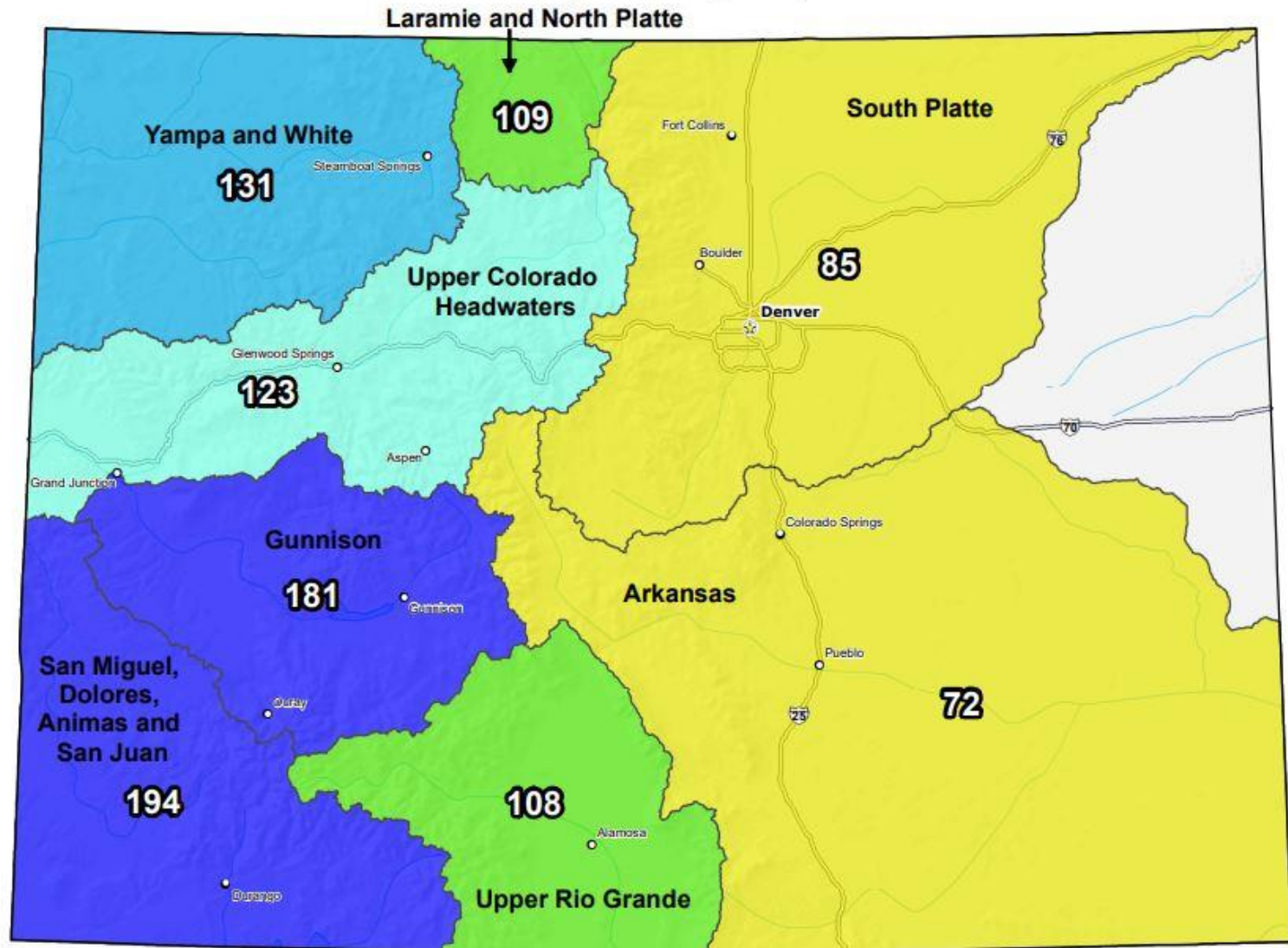
May 12, 2023

Current Snow Water
Equivalent (SWE)
Basin-wide Percent
of 1991-2020 Median



* Data unavailable at time
of posting or measurement
is not representative at this
time of year

**Provisional Data
Subject to Revision**



The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<https://www.nrcs.usda.gov/wps/portal/wcc/home/>

Engineering Division Updates

Land Use Projects

Project Name	Project Description	Project Status
Erie Air Park Replat D	5 Light Industrial/Hangar Bldgs - 10.340 acres	Referral Review
Erie Highlands Filing 18 FP	Residential - 124 townhome units	Referral Review
Old Town - Main Street Subdivision - FP	Residential Lots	Referral Review
Lafferty Farm FP	127 Residential Lots	Referral Review
Ranchwood Town Center MS/SP	Residential Mix of Townhomes and Apartments – 288 Units	Referral Review
Colliers Hill Filing 6 – FP	Residential - 452 Single Family Units	Referral Review
Old Town - Erie Junction - FP	Residential - 10 duplex buildings/1 tri-plex building	Referral Review
Redtail Ranch PP	Residential - 546 lots	Referral Review
Erie Village Filing 5 – MS/SP	Mixed use development, 38 Townhomes, 32 Single Family Residential, 30,000 sq. ft office/retail	Referral Review
Spring Hill PP	Residential Development	Referral Review
Erie Indoor Sports – Preliminary Plat	SE Corner of CLR and Bonnell	Referral Review
Westerly PP 3	Residential - 276 units - Single Family/Paired Homes/Townhomes	Referral Review
Westerly Filing 3 FP	Residential 228 Lots	Referral Review
Canyon Creek Filing 7 FP	106 Single Family Units	Referral Review
Canyon Creek Filing 8 FP	88 Paired Homes	Referral Review
Erie Highlands Commercial	Commercial Plat	On Hold
Vista Ridge Filing 14, Lot 9	Children's Eye Physician	Referral Review

Four Corners – Pinnacle Apartments	Apartments – 202 Units	Referral Review
Nine Mile Corner – Chase Bank – Lot 9	Site Plan	Referral Review
Summerfield FP 1	446 Residential Lots	Referral Review
North Westerly	Annexation/Initial Zoning	Referral Review
Summerfield PP 2	Residential	Referral Review
Parkdale Filing 5 FP	Residential	Referral Review
Vista Ridge – Little Sunshine Playhouse Preschool – SP		Referral Review
Vista Ridge – Bellco Credit Union – SP		Referral Review
Four Corners Commercial Corner – SP/FP	Commercial Corner Development	Referral Review
Vista Ridge F14 – Valvoline	Site Plan	Referral Review

Construction Inspector Projects and Status

Project	Status
BV PK-8 School	In Acceptance Process
Compass Filing 3	In Warranty
Compass Filing 4	In Warranty
Flatiron Meadows Filing 11	In Final Acceptance Process
Flatiron Meadows Filing 12	In Final Acceptance Process
Flatiron Meadows Filing 13	In Warranty
111th Waterline Extension	In Warranty
Four Corners	Under Construction
Nine Mile MS	In Warranty
Nine Mile MF	In Warranty
Nine Mile Lowe's	In Warranty
Nine Mile Taco Bell	In Warranty
Nine Mile UC Health	In Warranty
Nine Mile Lot 3 Shops	In Warranty
Parkdale Fil 1&2	Under Construction
Parkdale Fil 3	Under Construction
Wild Rose	In Warranty
Erie Highlands Filing 14 & 15	In Warranty

Erie Highlands Filing 16	In Warranty
Colliers Hill Filing 4D	In Warranty
Colliers Hill Filing 4E	In Warranty
Colliers Hill Filing 4F	In Warranty
Colliers Hill 4G	Under Construction
Colliers Hill 4I	Under Construction
Colliers Hill 5	In Warranty
Erie Commons Filing 4 - 3rd Amend. Townhomes	In Warranty
Erie Commons Filing 4 - 4th Amend. Commercial Plat	In Warranty
Erie Commons Filing 4 - 5th Amend. Wee Cottages	Under Construction
Erie Commons Filing 4 - Circle K	In Initial Acceptance Process
Erie Commons Filing 4 - Ziggy's Coffee	Pre-Con held
Erie Commons Filing 4 - Premier Members Credit Union	In Warranty
Sunset	Under Construction
Westerly Filing 1	Under Construction; Phase 1 complete
Westerly Filing 2	Under Construction
Morgan Hill Filing 2	In Warranty
Morgan Hill Metro District 2 Improvements	In Warranty
Morgan Hill Clubhouse / Pool	In Warranty
Right Move Storage	In Warranty
Erie Self Storage	In Initial Acceptance Process
Vista Ridge Filing 1A	Under Construction
Vista Ridge Filing 6, 2nd Amendment	In Warranty
Vista Ridge Filing 14, Lot 12B	In Warranty
Vista Ridge Filing 14, Lot 12 A&D	In Warranty
Vista Ridge - Popeye's	In Warranty
Vista Ridge - Autowash	In Warranty
Rex Ranch Filing 1	In Final Acceptance Process
Rex Ranch Filing 2	In Warranty
Rex Ranch Filing 3	In Warranty
Old Town - 730 Briggs	In Warranty
Coal Creek Properties	In Warranty
Creekside	In Initial Acceptance Process

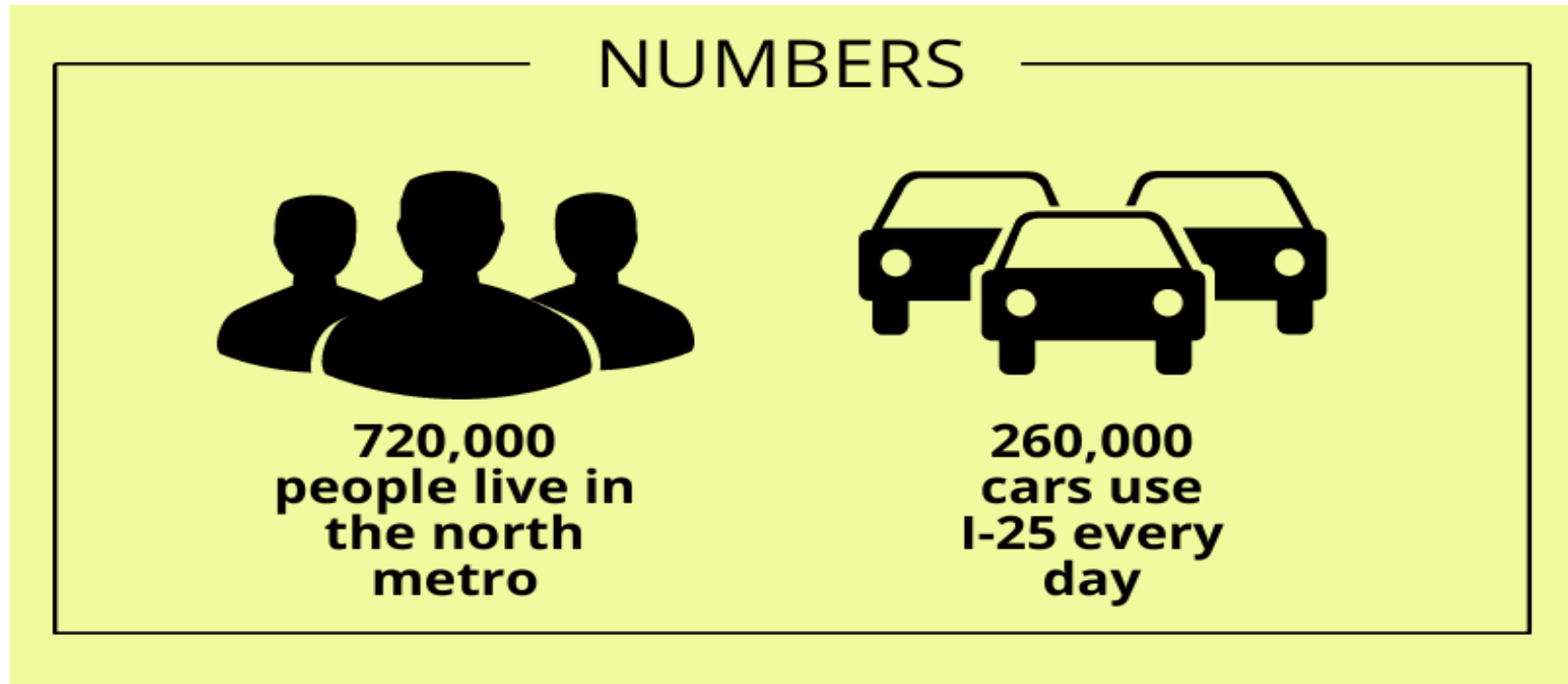
Capital Improvement Projects

Project	Status
Traffic Signal Communication Project	Software Implementation, testing, and training underway. Setting up connection with WCR 7 and Erie Parkway.
Weld County Road 7 and Erie Parkway Signal	Final project wrap up being coordinated.
Coal Creek Reach 1 - 3 Improvements	Awaiting CLOMR Approval. Tentatively plan to start construction this fall. Excess dirt to be used at future NWTF site.
Zone 2 Waterline Improvements	Concept Complete - On Hold Due to Tank Site Acquisition
Zone 2 Tank Site and Tank Design	Concept Complete - Coordinating with Southern Land on Locating a tank.
Horizontal Directional Drilling Well Project	In discussions with Contractor on yield evaluations
North Water Reclamation Facility Expansion	Under Construction
Austin Ave, Zone 2 Waterline	In Warranty
Zone 3 - Phase 2B and Zone 4 Waterline Extension	Under Construction; WCR 4 Closure upcoming
County Line Road Improvements - Telleen to Evans	Finalizing Design to acquire easements; the Town has been granted an extension on construction due to delays from CDOT; Xcel undergrounding approved by BOT and will start this summer
County Line Road Improvements - Telleen to Austin	Concept Design Phase; coordination underway on underpass concept
Old Town Connection to Colliers Hill	Concept design underway; additional concepts being considered upon further coordination with Administration
IGA with Colliers Hill - WCR 5 Widening/Re-Use Line Ext.	Improvements Undergoing Punch List identification and corrections;
Town Center Roundabouts - Design and Construction	North Roundabout in Land Coordination / South Roundabout re-design is being scoped
Re-Use Waterline Extension to Erie Community Park	In Warranty
Water Quality Pond - Lagoon Conversion	Demo at SWRF underway; Biosolids removal underway; looking at bringing admin building online with utilities for recycle center staff
Mobile Bypass Pumping Station	Acquisition Underway

119th and Erie Parkway Roundabout Improvement	Coordinating with Xcel; Further traffic studies underway to evaluate potential design change considerations
111th and Arapahoe Intersection Improvements	IGA Approved with Lafayette; Design underway
Boulder Creek Streambed Stabilization	Under Construction
Pipe South Boulder Canyon Ditch along 119th	In Design; In Easement Negotiation
Re-Use High Zone Pump Station	Pumps installed
Vista Ridge Detention Pond Modifications	In Design; Water Rights evaluation underway
Meadowlark School Improvements	Signage and striping complete; awaiting delivery of school zone flashers and RRFBs to install
Neighborhood Speed Mitigation Program	Revising scope for additional public engagement
Red Hawk Elementary School Traffic Study	Initial scope complete; additional scope underway to better look at improvements to Meller and Jasper
Filly Lake Well Pump Station and Pipeline Project	Kickoff Design Scheduled
North Water Treatment Plant	Consultant selected; in contract negotiations
Linear Park Detention Pond	Preliminary Design Underway
Sheridan Restriping / Storage Access Redesign	Finalizing Design
Sheridan and Ridgeview Signal Warrant Analysis	Signal warranted; coordinating with Broomfield on an IGA; installed a 4-way stop as an interim measure
Zone 3 Water Tank	Tank siting and coordination underway

Projects in Support of other Departments

- On-Call Traffic Consultations and Evaluations
- Neighborhood Speed Mitigation Program (NSMP)
- Central Square Software Implementation – Under Development
- Comprehensive Plan, Plan Map, and Zoning Map Amendments and Transportation Master Plan
- 2023 Town of Erie Standards and Specifications for Design and Construction Updates
- I-25 Gateway Planning



Snapshot of Upcoming Major Streets Projects 2023

- Sheridan Reconstruction from Ridgeview to CR4 – Full Closures
- Mill and overlays on 119th
- Closures of CR4 between CR5 and Bonanza for Water Pipeline
- County Line Road between Telleen and Cheeseman for Safer Mainstreets Project
- CR5 Partial Closures related to Sunset Development and Widening

Other Significant Projects

- SH7 & 119th Intersection Improvements – Lafayette/CDOT
- SH7 Preliminary Corridor Design – CDOT
- US287 Bus Rapid Transit – Phase 2 – Mobility and Safety
- SW Weld County and Boulder County Subregional DRCOG Forums
- SH 52 & I-25 Mobility Hubs
- Safety Improvements at Red Hawk and Meadowlark Schools
- SH7 Bike Treatment Plan
- 111th and Arapahoe Improvements (w/Lafayette)

