

AGENDA

CITY OF FORT COLLINS • BOARDS AND COMMISSIONS



WATER COMMISSION

WORK SESSION AGENDA

October 6, 2022, 5:30 – 7:30 p.m.

[Online via Zoom and in person at 700 Wood St, Poudre Conference Room](#)

This hybrid **Water Commission** meeting will be available online via Zoom, by phone, or in person in the Poudre Conference Room of 700 Wood St. The meeting will be available to join beginning at 5:00 p.m. Participants should join at least 15 minutes prior to the 5:30 p.m. start time.

ONLINE PUBLIC PARTICIPATION:

You will need an internet connection on a laptop, computer, or smartphone, and may join the meeting through Zoom at <https://zoom.us/j/92868227991> Webinar ID: 928 6822 7991 (Using earphones with a microphone will greatly improve your audio). Keep yourself on muted status.

For public comments, the Chairperson will ask participants to click the “Raise Hand” button to indicate you would like to speak at that time. Staff will moderate the Zoom session to ensure all participants have an opportunity to comment.

PUBLIC PARTICIPATION BY PHONE:

Please dial +1 346 248 7799 and enter Webinar ID: 928 6822 7991. Keep yourself on muted status.

For public comments, when the Chairperson asks participants to click the “Raise Hand” button if they wish to speak, phone participants will need to press *9 to do this. Staff will be moderating the Zoom session to ensure all participants have an opportunity to address the Water Commission. When you are called, press *6 to unmute yourself.

PUBLIC PARTICIPATION IN PERSON:

To participate in person, individuals should come to the Poudre Conference Room of 700 Wood St and be prepared to follow strict social distancing guidelines. There may be needs to limit the number of individuals in the meeting room, and thus staging for individuals to speak may need to occur in the lobby or outside (weather permitting).

Individuals who wish to speak will line up along the northern wall, maintaining physical distancing. The chairperson will call upon each participant to speak.

(Continued on next page)

AGENDA

CITY OF FORT COLLINS • BOARDS AND COMMISSIONS



WATER COMMISSION

WORK SESSION AGENDA

October 6, 2022, 5:30 – 7:30 p.m.

[Online via Zoom and in person at 700 Wood St, Poudre Conference Room](#)

Documents to Share: Any document or presentation a member of the public wishes to provide to the Water Commission for its consideration must be emailed to JSong@fcgov.com at least 24 hours before the meeting.

Provide Comments via Email: Individuals who are uncomfortable or unable to access the Zoom platform or participate by phone are encouraged to participate by emailing comments to JSong@fcgov.com at least 24 hours prior to the meeting. If your comments are specific to any of the discussion items on the agenda, please indicate that in the subject line of your email. Staff will ensure your comments are provided to the Water Commission.

Documents to Share: If community members wish to share a document or presentation, Staff Liaison Jason Graham's administrative professional needs to receive those materials via the above email address at least 24 hours before the meeting.

Individuals uncomfortable or unable to access the Zoom platform or unable to participate by phone are encouraged to participate by emailing general public comments you may have to JSong@fcgov.com. The Staff Liaison's administrative professional will ensure the Water Commission receives your comments. If you have specific comments on any of the discussion items scheduled, please make that clear in the subject line of the email and send 24 hours prior to the meeting.

1. **CALL TO ORDER** (5:30)

2. **AGENDA REVIEW**

3. **COMMUNITY PARTICIPATION** (3 minutes per individual)

4. **NEW BUSINESS**

a. **Discussion Items**

- **Financial Monthly Report** (meeting packet only)
- **Water Resources Monthly Report** (meeting packet only)
- **Halligan Quarterly Report** (meeting packet only)
- **Memo: Testing of the FC Utilities Drinking Water for Per- and Poly-fluoroalkyl Substances (PFAS)** (meeting packet only)

AGENDA

CITY OF FORT COLLINS • BOARDS AND COMMISSIONS



WATER COMMISSION

WORK SESSION AGENDA

October 6, 2022, 5:30 – 7:30 p.m.

Online via Zoom and in person at 700 Wood St, Poudre Conference Room

5. **OTHER BUSINESS**
(Commissioner concerns, Announcements)
 - a. **2023 Work Plan Discussion**
6. **ANNOUNCEMENTS**
7. **ADJOURNMENT (7:30)**

SERVICE AREA -
FINANCIAL MONTHLY REPORT
(UTILITY SERVICES)
AS OF AUGUST 31, 2022
ISSUED SEPTEMBER 2022



Water

in thousands

Revenue

Percent of Year

66.7%

	August		Year to Date					
	Actual 2022	Over/ (Under) 2022 Bud	Budget 2022	Actual 2022	Over/ (Under) 2022 Bud	Inc/(Dec) 2021	% Bud Recvd 2022	% Act Recvd 2021
Residential Water Sales	\$ 2,079 *	\$ (0)	\$ 10,815	\$ 11,519	\$ 704 ^(A)	\$ 215	69%	65%
Com/Indl Water Sales	1,341 *	89	5,742	6,310	568 ^(B)	355	67%	64%
Raw Water Surcharge	119 *	113	40	180	139	63	36%	18%
District Water Sales	403 *	171	1,113	1,430	317 ^(C)	(288)	75%	52%
Other Water Sales	25 *	(41)	781	340	(442) ^(D)	(222)	37%	47%
PILOTs	230	15	1,074	1,158	84	68	68%	65%
Operating Revenue	4,197	347	19,566	20,936	1,370	191	67%	62%
Interest Revenue	98	37	424	499	75	102	84%	88%
Development Fees/PIFs/Contributions	14	(117)	1,036	663	(373) ^(E)	(852)	43%	13%
Financing Sources	0	0	0	3	3	2	2%	2%
Other Misc	15	(19)	119	138	19	(142)	54%	29%
Total Lapsing Revenue**	4,324	248	21,145	22,238	1,094	(698)	66%	56%
Non-lapsing Revenue	0			0		0		
TOTAL**	\$ 4,324			\$ 22,238		\$ (698)		

Variance Analysis:

Note: No Water rate increase for 2022.

(A) Residential Water Sales are 6.5% over budget and 1.9% more than YTD 2021.

(B) Commercial/Industrial Water sales are 9.9% over budget and 6.0% more than YTD 2021.

(C) District Water sales are 28.4% over budget and 16.8% less than YTD 2021.

(D) Irrigation Sales (\$462) (water supply didn't yield as much due to fire impacts, so rented out less water, under budget ~\$500 by YE) offset by Standpipe Sales \$20.

(E) Plant Investment Fees (\$310), Water Rights (\$67), Metering Program (\$5), offset by Development Review Charges \$8.

* August billed revenue is for July and early August.

** Excludes transfers and unrealized gain/loss on value.

Water Fund

In thousands

Excludes depreciation and transfers

2022 Department Expense

Percent of Year 66.7%

	August		Year to Date					Spent & Committed by PO's
	Actual 2022	(Over)/ Under 2022 Bud	YTD Bdgt 2022	Actual 2022	(Over)/ Under 2022 Bud	(Inc)/Dec 2021	Actual + PO's 2022	
Water Treatment	\$ 581	\$ (10)	\$ 6,028	\$ 4,262	\$ 1,766 ^(A)	\$ (836)	\$ 7,669	80%
Water Resources	43	48	1,910	1,428	482 ^(B)	135	\$ 1,618	46%
Water Quality Lab	97	(3)	723	715	9	(64)	\$ 778	66%
Subtotal WR&T	\$ 721	\$ 35	\$ 8,661	\$ 6,405	\$ 2,256	\$ (765)	\$ 10,064	70%
Transmission & Distribution	260	63	1,964	1,904	61	14	\$ 1,931	59%
Water Meters O&M	51	9	531	447	83	73	\$ 475	52%
Engineering	53	8	849	411	438 ^(C)	(122)	\$ 646	56%
Subtotal WEFS	364	80	3,344	2,762	582	(35)	\$ 3,052	57%
Water Conservation	100	8	887	593	294	(61)	\$ 792	55%
PILOTs	230	(15)	1,074	1,158	(84)	(68)	\$ 1,158	68%
Admin Services - CS&A	364	0	2,916	2,916	0	(87)	\$ 2,916	67%
Other Payments & Transfers	130	25	1,382	1,317	65	(280)	\$ 1,476	51%
Subtotal Operating Expenses	\$ 1,910	\$ 132	\$ 18,264	\$ 15,151	\$ 3,113	\$ (1,296)	\$ 19,458	65%
Debt Service	0	0	0	0	0	0	\$ 0	0%
Minor Capital	222	(108)	1,130	826	305 ^(D)	(185)	\$ 1,553	71%
Total Lapsing	\$ 2,132	\$ 24	\$ 19,394	\$ 15,977	\$ 3,418	\$ (1,481)	\$ 21,011	65%
Non-lapsing Expenses	788			3,133		1,226		
TOTAL	\$ 2,919			\$ 19,109		\$ (255)		

Variance Analysis:

- ^(A) Contract Payment to Gov't/Other \$1,364 (PO carryforward for payments to Greeley: Cameron Peak Fire - Watershed; specifics and funding sources still being worked out (to maximize cost matching and have the most impact); potentially some underspend by YE (year-end)), Consulting \$67, Project Management Services \$54 (estimated Fort Collins' portion of PM to manage post-fire recovery efforts - is used as needed; potentially some underspend by YE), Electricity \$53 (weren't running all four treatment trains earlier this year, due to lower demand), Construction Services \$52 (\$20 underspend from PO carryforward related to the Poudre intake and channel realignment, likely under ~\$20+ by YE), Personnel \$50, Maintenance Contracts \$38, Other Professional & Technical \$30, Testing Services \$17 (Big Thompson Watershed Forum dissolved and trying to reforming an entity to provide those services; potential underspend by YE), Lab Supplies \$12, Water Assessment Services \$12, Paint Supplies \$11, and Software Maint. \$10, offset by Electrical Parts (\$22) (unexpected switchgear issue, YE spend TBD), and Natural Gas (\$26) (likely due to colder than expected weather this past winter, potentially over budget by YE), Other Supplies (\$14), and Tools & Related Supplies (\$10).
- ^(B) Consulting Services \$214 (project delays due to vacancies (e.g. modeling effort), some underway; underspend by YE, and some will be carried forward via PO carryforward), Personnel \$192 (vacancies), Other Professional & Technical \$33 (primarily for NISP outreach BFO offer #1.63 - on hold due to delay in Record of Decision for NISP), and Water Assessment Services \$25 (budget for Rigden distributed in Feb, while invoicing happens after YE, will book in Dec).
- ^(C) Consulting Services \$285 (primarily Large Valve Maintenance work - additional work anticipated this year), Personnel \$113 (vacancies and potentially more time being charged capital than budgeted in allocations out), and Other Professional & Technical \$15.
- ^(D) Consulting \$175, Construction Contracts \$97, Other Capital Outlay \$66, Other Equipment \$56, Security Equipment \$42, Mechanical & Heavy Equipment \$21, offset by Construction Services (\$72), Computer Hardware- Capital (\$66) (budget distributed 1/12 for Water Meter Test Bench, flat by YE), Building Improvements (\$31), Water Filter Material (\$23), Machinery & Equipment Parts (\$17).

Wastewater

in thousands

Revenue

Percent of Year

66.7%

	August		Year to Date					
	Actual 2022	Over/ (Under) 2022 Bud	Budget 2022	Actual 2022	Over/ (Under) 2022 Bud	Inc/(Dec) 2021	% Bud Recvd 2022	% Act Recvd 2021
Residential WW Sales	\$ 1,319 *	\$ 15	\$ 10,510	\$ 10,595	\$ 85 ^(A)	\$ (55)	67%	66%
Com/Indl WW Sales	601 *	(31)	4,011	3,861	(150) ^(B)	328	62%	69%
District WW Sales	34 *	(1)	283	273	(9)	(1)	64%	67%
Other WW Sales	30 *	8	126	191	65 ^(C)	20	96%	68%
PILOTs	117	(2)	893	884	(9)	16	65%	67%
Operating Revenue	2,102	(11)	15,823	15,805	(18)	308	66%	67%
Interest Revenue	52	19	236	267	30	59	82%	92%
Development Fees/PIFs/Contributions	36	(2)	274	358	84 ^(D)	(445)	48%	24%
Financing Sources	0	0	0	0	0	(25)		
Other Misc	3	(24)	75	119	44 ^(E)	29	95%	79%
Total Lapsing Revenue**	2,193	(17)	16,409	16,549	140	(73)	66%	65%
Non-lapsing Revenue	0			0		0		
TOTAL**	\$ 2,193			\$ 16,549		\$ (73)		

Variance Analysis:

Note: No Wastewater rate increase for 2022.

- (A) Residential sales are 0.8% over budget and 0.5% less than YTD 2021.
- (B) Commercial/Industrial sales are 3.7% under budget and 9.3% more than YTD 2021.
- (C) Septage Treatment Charge \$65.
- (D) Plant Investment Fees \$77.
- (E) Lab Services \$32, and Bad Debt Recovery \$16, offset by Ranch Income (\$10).

* August billed revenue is for July and early August.

** Excludes transfers and unrealized gain/loss on value.

Wastewater Fund

In thousands
Excludes depreciation and transfers

2022 Department Expense

Percent of Year 66.7%

	August		Year to Date					% Bud Spent & Committed by PO's
	Actual 2022	(Over)/ Under 2022 Bud	YTD Bdgt 2022	Actual 2022	(Over)/ Under YTD 2022 Bud	(Inc)/Dec 2021	Actual + PO's 2022	
Water Reclamation & Biosolids	\$ 441	\$ 86	\$ 3,940	\$ 3,684	\$ 255 ^(A)	\$ (180)	\$ 3,986	63%
Pollution Control Lab	99	(6)	773	725	48	4	788	63%
<i>Subtotal WR&T</i>	540	80	4,713	4,409	304	(176)	4,775	63%
Trunk & Collection	130	9	1,124	1,055	69 ^(B)	(113)	1,055	60%
Engineering	44	11	700	482	217 ^(C)	(195)	611	62%
<i>Subtotal WEFS</i>	174	21	1,824	1,537	286	(307)	1,666	61%
PILOTs	117	2	893	884	9	(16)	884	65%
Admin Services - CS&A	214	(0)	1,712	1,712	(0)	(28)	1,712	67%
Other Payments & Transfers	104	0	970	968	2	(130)	968	44%
<i>Subtotal Operating Expenses</i>	\$ 1,148	\$ 102	\$ 10,112	\$ 9,510	\$ 601	\$ (658)	\$ 10,004	61%
Debt Service	0	0	259	259	0	\$ 33	259	12%
Minor Capital	0	65	602	708	(106) ^(D)	\$ (253)	1,150	89%
Total Lapsing	\$ 1,149	\$ 167	\$ 10,973	\$ 10,478	\$ 495	\$ (878)	\$ 11,413	38%
Non-lapsing Expenses	427			2,715		(891)		
TOTAL	\$ 1,576			\$ 13,192		\$ (1,768)		

Variance Analysis:

- (A) Consulting \$95, Machinery & Equipment Parts \$66, Personnel \$57, Other Professional & Technical \$48, Electrical Parts \$27, Conference & Travel \$19, Contractual Labor \$15, Water \$15, Land Maintenance Services \$10, offset by Electricity (\$56), Chemicals (\$39) (use depends on treatment levels and processes), and Natural Gas (\$23).
- (B) Personnel \$76, Solid Waste Services \$40, offset by Health and Safety Supplies (\$21), Other Supplies (\$16), Construction Services (\$13), Sewer Pipe & Accessories (\$11), Tools & Related Supplies (\$10), and other smaller variances.
- (C) Consulting \$153 and Construction Services \$19 (primarily DWRf Utility Mapping and work still planned for this year; not sure on YE (year-end) spend, yet), Other Professional & Technical \$14, and Personnel \$13.
- (D) Trunk & Collection (\$347) (budget for dump truck purchase from PO carryforward distributed in Dec, will correct then, except for ~\$8 due to purchasing a larger excavator than usual for safety reasons, over \$8 by YE), Water Reclamation & Biosolids \$211 (Vehicles/Equipment \$231, Building Improvements \$27, offset by Other Capital Outlay (\$47)).

Stormwater

in thousands

Revenue

Percent of Year

66.7%

	August		Year to Date					
	Actual 2022	Over/ (Under) 2022 Bud	Budget 2022	Actual 2022	Over/ (Under) 2022 Bud	Inc/(Dec) 2021	% Bud Recvd 2022	% Act Recvd 2021
Single Family Residential SW Services	\$ 681 *	\$ (1)	\$ 5,451	\$ 5,439	\$ (12) ^(A)	\$ 51	66%	67%
Non-single Family SW Services	834 *	(3)	6,721	6,659	(62) ^(B)	66	66%	67%
Operating Revenue	1,515	(4)	12,172	12,098	(74)	117	66%	67%
Interest Revenue	37	18	131	184	53	54	100%	97%
Development Fees/PIFs/Contributions	48	(3)	360	444	84 ^(C)	(592)	78%	31%
Financing Sources	0	0	0	0	0	(27)		
Other Misc	7	7	0	30	30	6		90%
Total Lapsing Revenue**	1,606	17	12,663	12,756	94	(443)	67%	65%
Non-lapsing Revenue	0			0		0		
TOTAL**	\$ 1,606			\$ 12,756		\$ (443)		

Variance Analysis:

Note: No Stormwater rate increase for 2022.

(A) Single Family Residential fees are 0.2% under budget and 1.0% greater than 2021.

(B) Non-Single Family fees are 0.9% under budget and 1.0% greater than 2021.

(C) Erosion Control Development Inspection \$39, Development Review Charges \$20, Stormwater Development Fee \$13, and Infrastructure Development Inspection \$12.

* August billed revenue is for July and early August.

** Excludes transfers and unrealized gain/loss on value.

Stormwater Fund

In thousands

Excludes depreciation and transfers

2022 Department Expense

Percent of Year 66.7%

	August		Year to Date				% Bud Spent & Committed by PO's	
	Actual 2022	(Over)/ Under 2022 Bud	Budget 2022	Actual 2022	(Over)/ Under 2022 Bud	(Inc)/Dec 2021		Actual + PO's 2022
Drainage and Detention	\$ 278	\$ (83)	\$ 1,372	\$ 1,365	\$ 7 ^(A)	\$ (109)	\$ 1,539	71%
Engineering	117	64	1,435	908	528 ^(B)	(38)	1,117	54%
Stormwater Quality Programs	32	3	280	261	19	(15)	392	63%
Admin Services - CS&A	255	(0)	2,038	2,038	(0)	(26)	2,038	67%
Other Payments & Transfers	66	3	588	569	19	(74)	569	28%
Subtotal Operating Expenses	\$ 748	\$ (13)	\$ 5,713	\$ 5,140	\$ 573	\$ (262)	\$ 5,655	57%
Debt Service	0	0	11	11	0	407	11	1%
Minor Capital	0	0	993	770	223 ^(C)	(656)	1,203	98%
Total Lapsing	\$ 748	\$ (13)	\$ 6,718	\$ 5,922	\$ 796	\$ (510)	\$ 6,869	57%
Non-lapsing Expenses	617			1,985		978		
TOTAL	\$ 1,365			\$ 7,907		\$ 468		

Variance Analysis:

- (A) Mowing Services \$88 (mowing season still underway - BFO enhancement offer, too, expecting to be flat by year-end (YE)), Personnel \$74, Vehicle Repair \$30 (reactionary - newer equipment holding up well), Consulting \$17 (BFO Offer 1.65 Dirt Recycling & Management Study, working with Streets leadership transition on this, not sure of YE spend), Solid Waste Services \$14, offset by Street & Bridge Maintenance (\$75) (~\$60 for CMO directive for Glenmoor pond work, remaining due to higher than expected concrete costs, over budget ~\$60+ by YE), Land Maintenance Services (\$34) (potentially over budget by YE), Leased Equipment Rental Services (\$33) (potentially over budget by YE), Health & Safety Supplies (\$28) (were told to buy AED and OSHA 10 Hour within existing budgets, over budget ~\$30+ by YE), and Sewer Pipe & Accessories (\$18) (potentially over budget by YE).
- (B) Consulting \$278 (primarily BFO offer 4.16 Poudre River Flow Consolidation Study, est project completion in Oct, expecting to use most of the budget by YE (year-end)), Personnel \$199 (primarily vacancies, under budget by YE), and Other Professional & Technical \$16.
- (C) Vehicles/Equipment (all but \$24K of 2022 budget encumbered and awaiting delivery).



Utilities

electric · stormwater · wastewater · water
700 Wood Street
PO Box 580
Fort Collins, CO 80522

970.212.2900

V/TDD: 711

utilities@fcgov.com

fcgov.com/utilities

M E M O R A N D U M

DATE: September 20, 2022
TO: Water Commission
FROM: Michael Neale, MSc, Water Resources Engineer
RE: **August 2022 Water Resources Division Staff Report**

Purpose

This memorandum is intended to update the Water Commission on water resource conditions for the City of Fort Collins Water Utility (Water Utility) over the month of August and provide updated future outlook information. For additional information, please refer to the City's website:

<https://www.fcgov.com/utilities/water-status>

Water Resources Summary

Supply and Demand Projections for the remainder of WY2022

- Water Supply – During the month of August, water supply consisted of 72% from Horsetooth, and 28% from the Poudre River, including 9% of total supply diverted via the Pleasant Valley Pipeline. See supply and demand outlook attached.
- Water Demand – Demands within the Water Utility service area for the month of August were slightly below projected. Please refer to the attached graphs and tables.
 - Water demand for August was 95% of the projected demand.
 - Water demand for calendar year is 97% of the projected demand.

Weather: <https://climate.colostate.edu/>

Measured at the Fort Collins weather station 053005 along with average normals from 1991-2020:

- Mean daily high temperature recorded for the month: 88.0 °F.
 - 30-year average daily high temperature for the month is: 85.0 °F.
- Total recorded monthly precipitation: 0.51 inches.
 - 30-year average precipitation for the month: 1.45 inches.

Reservoir Storage: As of September 1st, and presented in the Northern District Storage and Delivery Report:

- Colorado-Big Thompson project reservoirs (Granby, Carter, and Horsetooth): 85% full.
- Horsetooth Reservoir: 67% full.
- Joe Wright Reservoir: 98% full (110% of average for the month based on 14 years of data).

Cache la Poudre River flow: Graphical data for the Poudre River is available on-line at:

- Cache La Poudre River at the Canyon Mouth

<https://dwr.state.co.us/Tools/Stations/CLAFTCCO?params=DISCHRG>

- Cache La Poudre River at Fort Collins

<https://dwr.state.co.us/Tools/Stations/CLAFORCO?params=DISCHRG>

Drought Monitors:

- Larimer County and Colorado https://climate.colostate.edu/drought_info.html
Most of Larimer County is under no drought conditions. Western end of the County and the rest of the state is experiencing abnormally dry conditions.
- Colorado and the USA <https://droughtmonitor.unl.edu/>
The Colorado River basin remains in a drought.

Climate Outlook: <https://www.cpc.ncep.noaa.gov/>

National Oceanic and Atmospheric Administration (NOAA) climate outlooks for the northern Front Range and northern mountains, over the next three months:

- Leaning below normal precipitation
- Likely above normal temperature.

Other Water Supply Considerations:

- Poudre River turbidity levels have improved through the end of August into September and have allowed the plant to take water from the river to the extent needed.
- In addition, Horsetooth supplies are more than sufficient to fulfill demands through the water year and beyond, including a maximum CBT carryover for use in 2023.
- Water Resources Division is attentive of Colorado River drought management policy and maintains communication with Northern Water on potential implications for the CBT system in 2023 and beyond.

City of Fort Collins Utilities

ASSUMPTIONS

- Values look at remaining demands and supplies through the end of the Water Year (Oct 31st)

DEMANDS

- Projected demand based on GPCD and population estimates
- Low demand is projected demand reduced by 10%
- High demand applies a monthly worse case factor to projected demand

SUPPLIES

Poudre

- Poudre Supply is a fire impacted Poudre that is approximately 60% of the annual average. Monthly percentages of average are Nov-Jan 95%, Feb 0%, Mar 95%, Apr 85%, May-Jun 40%, Jul 30%, Aug 25%, Sep 70%, Oct 80%.

Horsetooth Reservoir

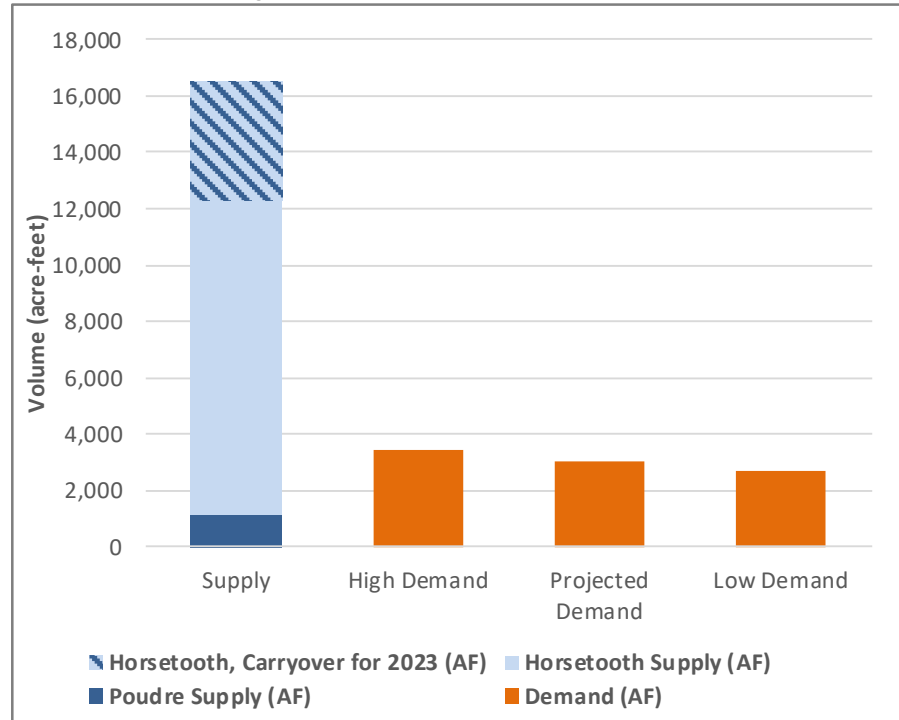
- Horsetooth Supplies include CBT, NPIC MU, Windy Gap
- CBT supply: 80% quota, 2.75 AF NPIC MU allocation/share
- A 1,500 AF Joe Wright-CBT exchange with NPIC
- Windy Gap supply: 2,750 AF expected from PRPA

All remaining Horsetooth raw water CBT obligations have been deducted.

Horsetooth Carryover Objective

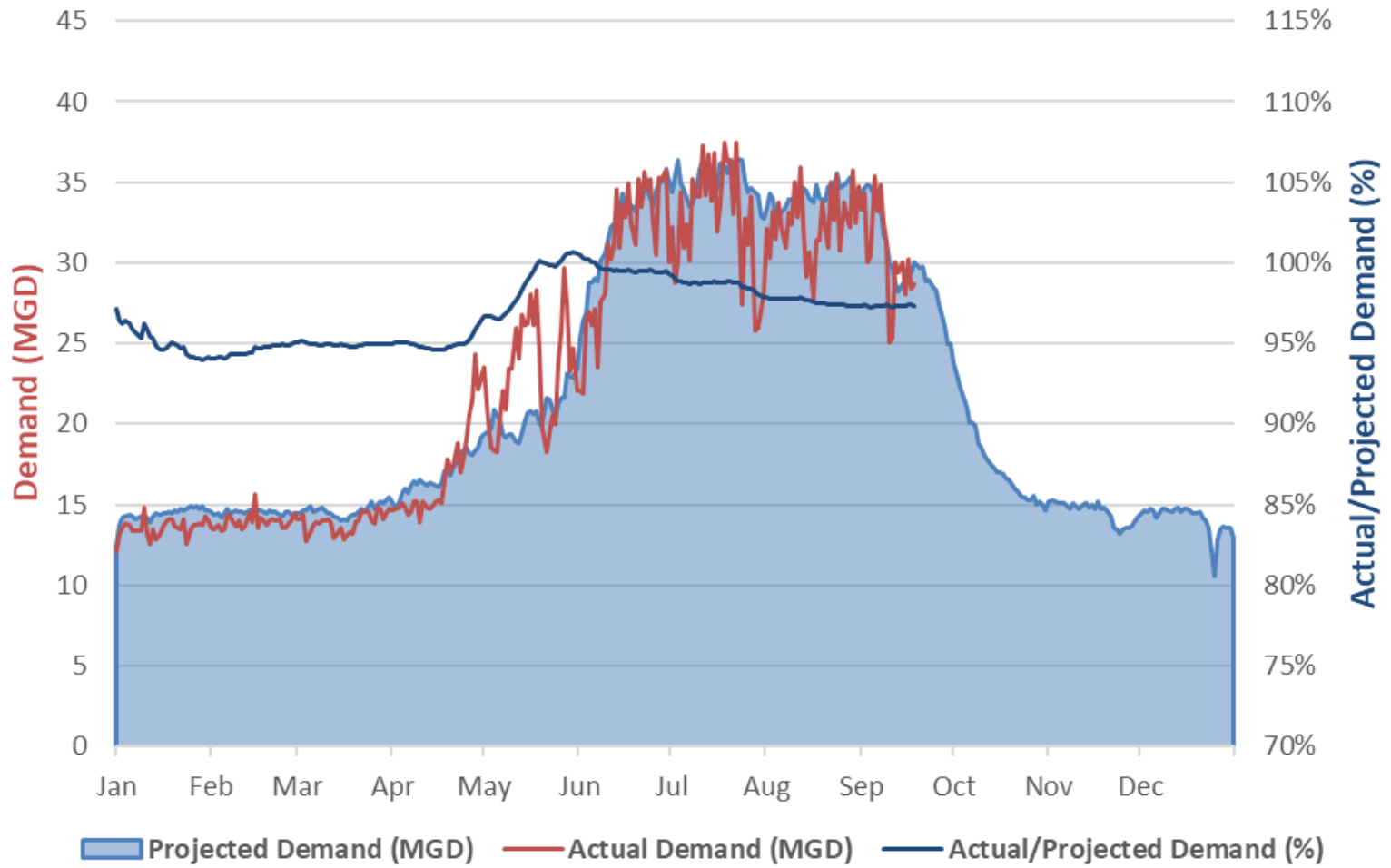
- Max amount allowable is 4,190 AF before 10% shrink

Remaining Water Demand and Supply from September 20 - October 31, 2022



Scenario	Demand (AF)	Poudre Supply (AF)	Horsetooth Supply (AF)	Horsetooth, Carryover for 2023 (AF)
Supply	--	1,156	11,159	4,190
High Demand	3,426	--	--	--
Projected Demand	2,996	--	--	--
Low Demand	2,713	--	--	--

2022 Fort Collins Utilities Treated Water Demands



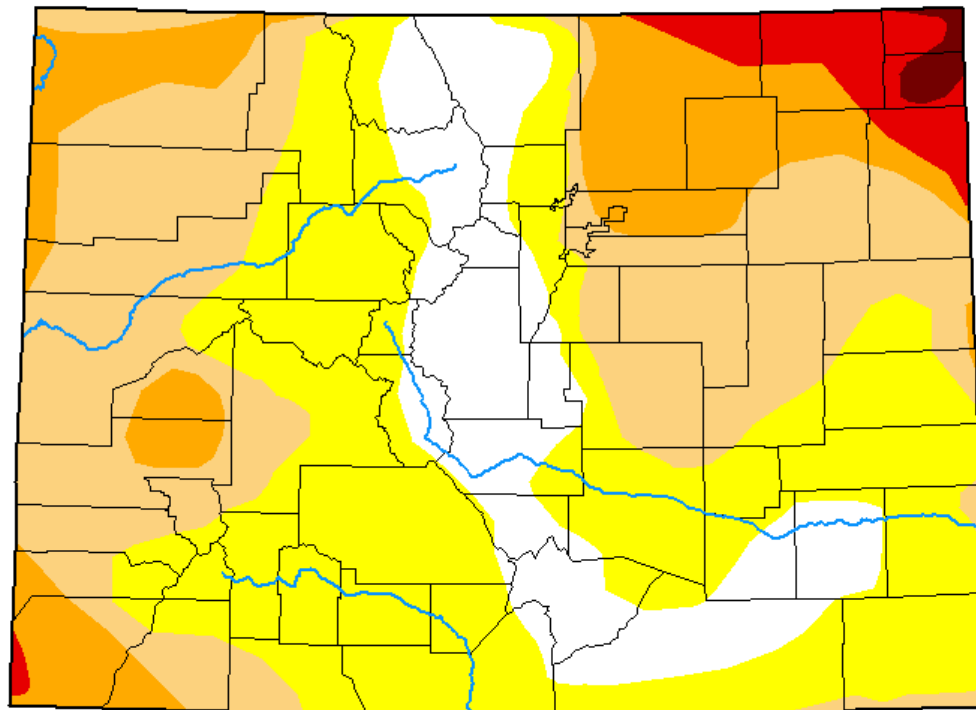


**City of Fort Collins Utilities
Treated Water Monthly Summary
2022**







	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
WTF Water Supply (MG)													
From Poudre	161.6	0.0	190.8	293.2	122.3	288.4	431.0	335.7					1,823.0
From Horsetooth	289.9	433.3	306.1	297.1	696.5	785.3	756.4	856.4					4,421.0
Total Raw Water	451.5	433.3	496.8	590.3	818.8	1,073.8	1,187.3	1,192.1					6,244.0
Demands (MG)													
WTF Production	436.0	415.4	468.3	557.2	780.5	1,025.9	1,134.5	1,143.8					5,961.5
Change in Storage	-1.6	-1.0	4.0	4.7	-0.2	0.5	0.7	0.8					7.8
Demand on WTF	437.6	416.4	464.4	552.5	780.7	1,025.4	1,133.8	1,143.0					5,953.8
From Soldier Canyon	21.8	7.1	14.4	48.7	174.5	307.9	348.5	321.7					1,244.6
To Soldier Canyon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					0.0
To FC-Lov/NWCWD	-39.6	-33.2	-48.4	-96.0	-235.9	-407.7	-469.8	-456.3					-1,786.9
For City	419.8	390.3	430.4	505.3	719.3	925.6	1,012.4	1,008.4					5,411.5
Daily Deliveries to City (MG)													
Max During Month	14.8	15.7	14.8	24.3	29.7	35.7	37.4	35.9					37.4
Min During Month	12.1	13.4	12.7	13.9	18.2	21.9	25.8	27.7					12.1
Avg During Month	13.5	13.9	13.9	16.8	23.2	30.9	32.7	32.5					22.2
Monthly Deliveries (Ac-Ft)													
Projected	1,369	1,247	1,392	1,551	1,961	2,959	3,329	3,251	2,760	1,685	1,338	1,339	24,181
Actual	1,288	1,198	1,321	1,551	2,208	2,841	3,107	3,095					16,607
Ratio	94%	96%	95%	100%	113%	96%	93%	95%					69%
Year to Date Deliveries (Ac-Ft)													
Projected	1,369	2,616	4,008	5,559	7,520	10,479	13,808	17,058	19,819	21,503	22,842	24,181	24,181
Actual	1,288	2,486	3,807	5,358	7,565	10,406	13,513	16,607					16,607
Ratio	94%	95%	95%	96%	101%	99%	98%	97%					69%

U.S. Drought Monitor Colorado

September 13, 2022
(Released Thursday, Sep. 15, 2022)
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 <http://droughtmonitor.unl.edu/About.aspx>

Author:

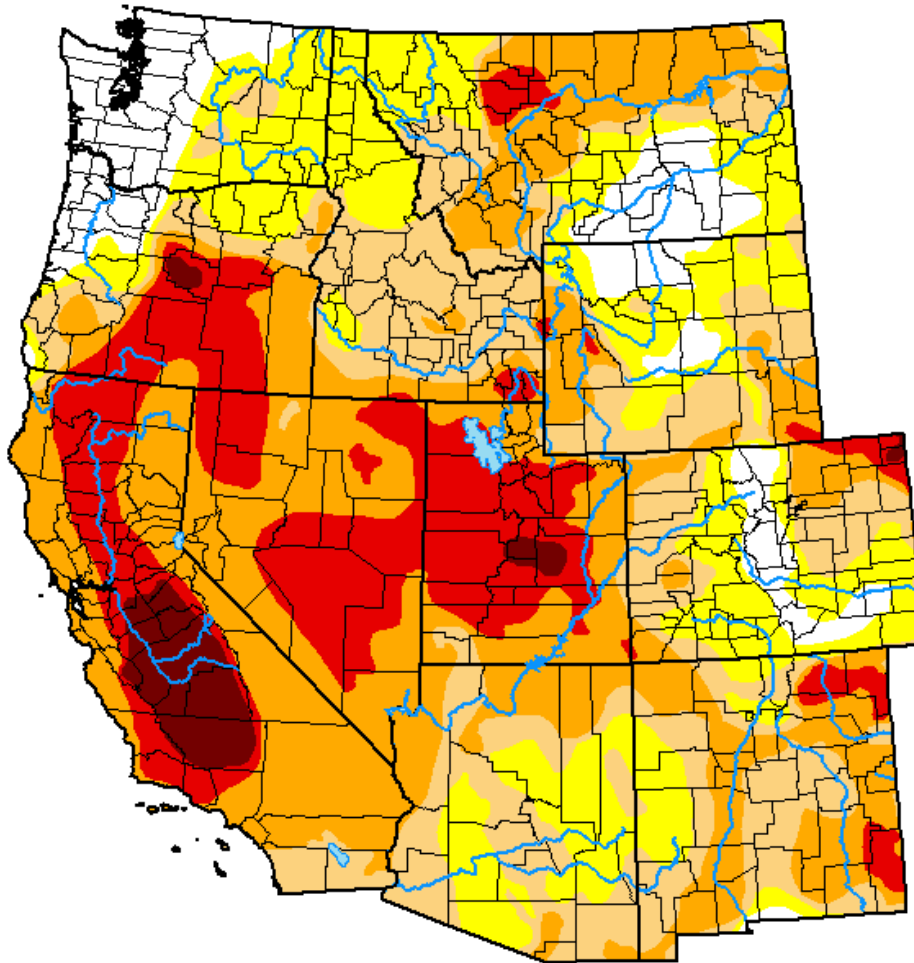
David Simeral
Western Regional Climate Center









droughtmonitor.unl.edu

U.S. Drought Monitor West

September 13, 2022
(Released Thursday, Sep. 15, 2022)
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:

David Simeral
Western Regional Climate Center

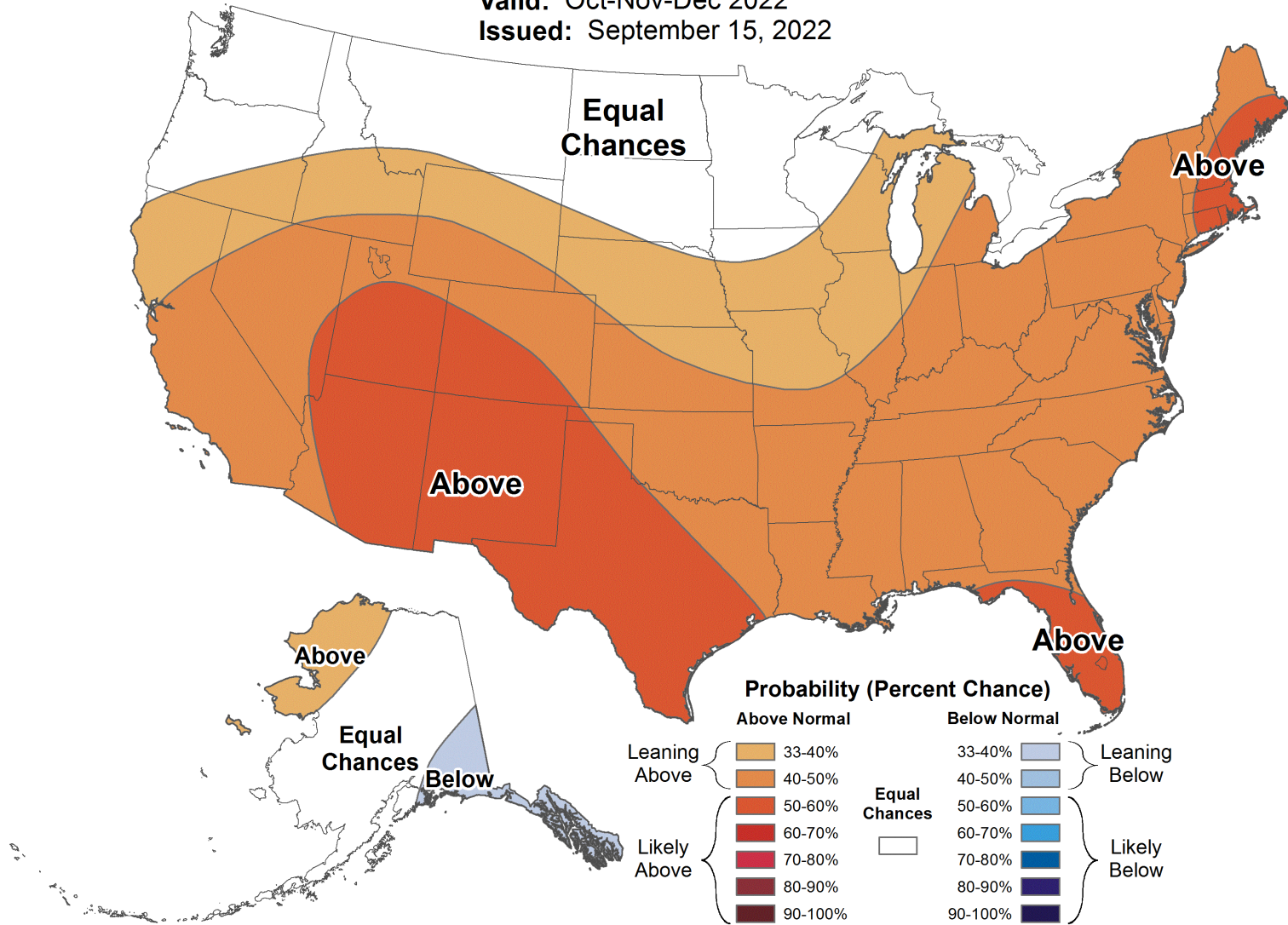




Seasonal Temperature Outlook



Valid: Oct-Nov-Dec 2022
 Issued: September 15, 2022

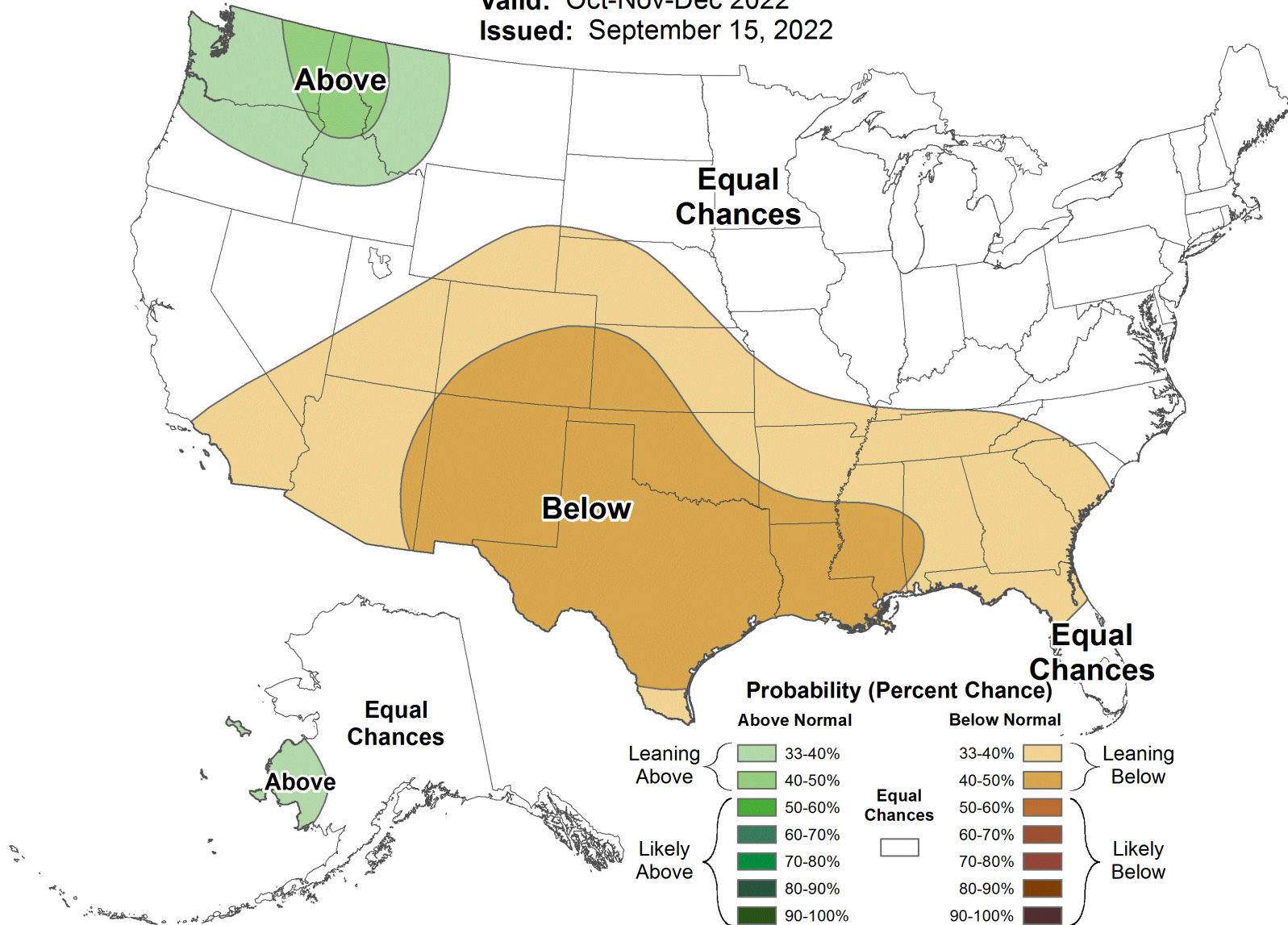




Seasonal Precipitation Outlook

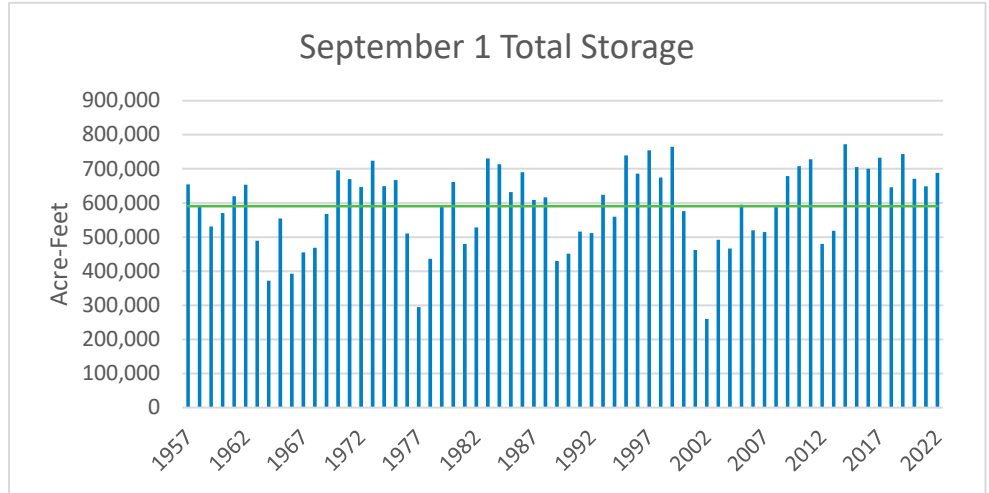
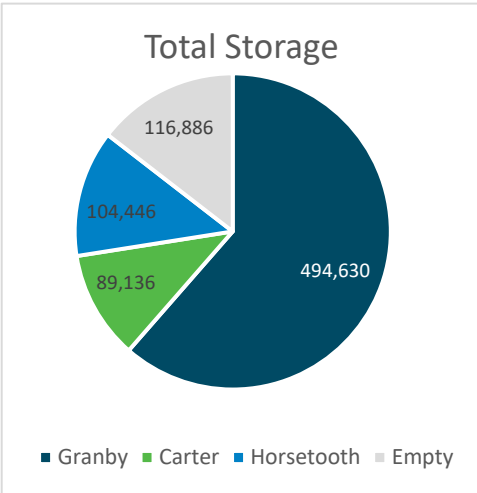


Valid: Oct-Nov-Dec 2022
 Issued: September 15, 2022

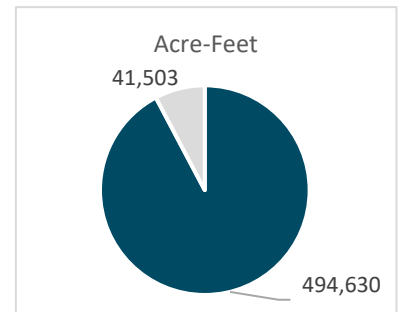
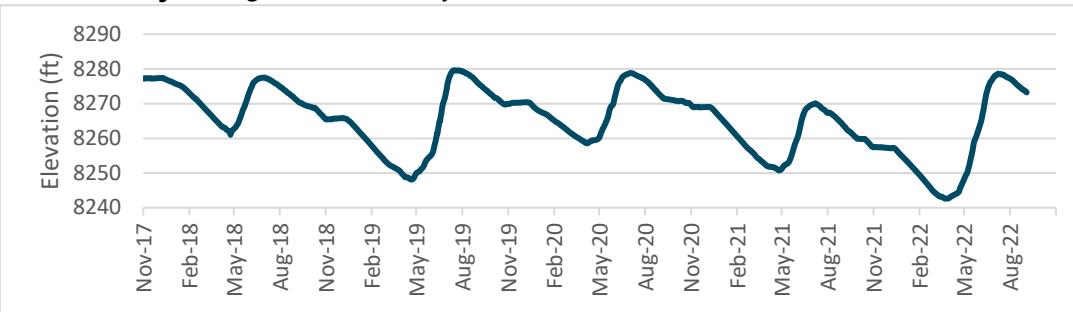


C-BT Project Storage

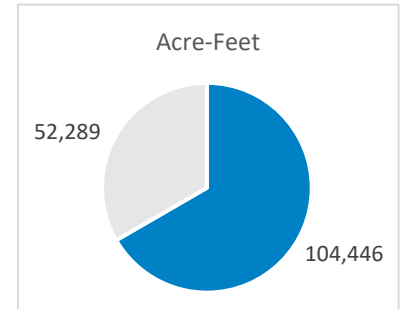
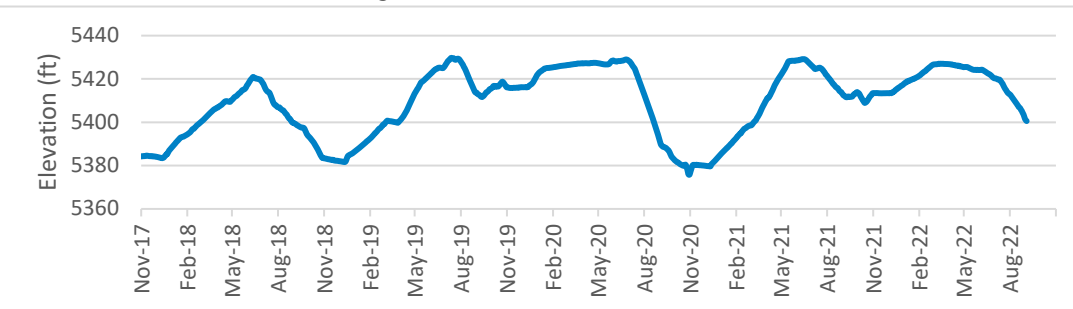
September 1, 2022



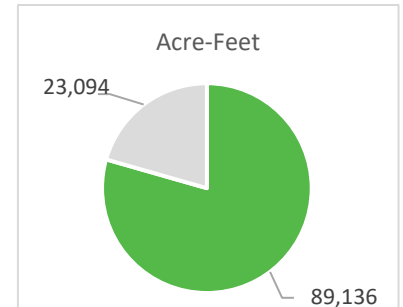
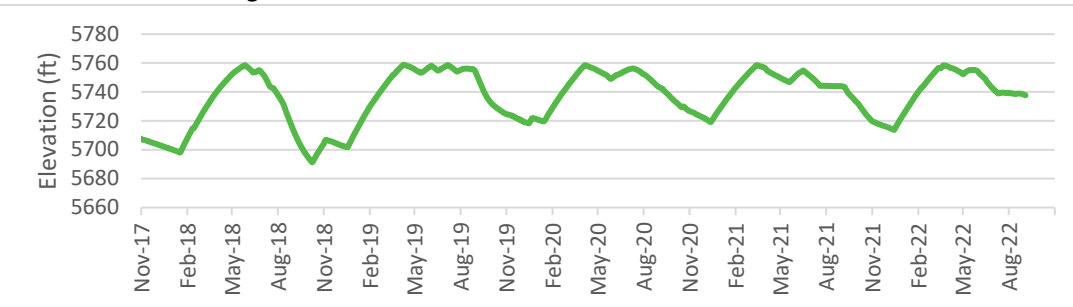
Lake Granby Storage in Lake Granby decreased 25,772 acre-feet last month



Horsetooth Reservoir Storage in Horsetooth Reservoir decreased 19,622 acre-feet last month



Carter Lake Storage in Carter Lake decreased 1,273 acre-feet last month

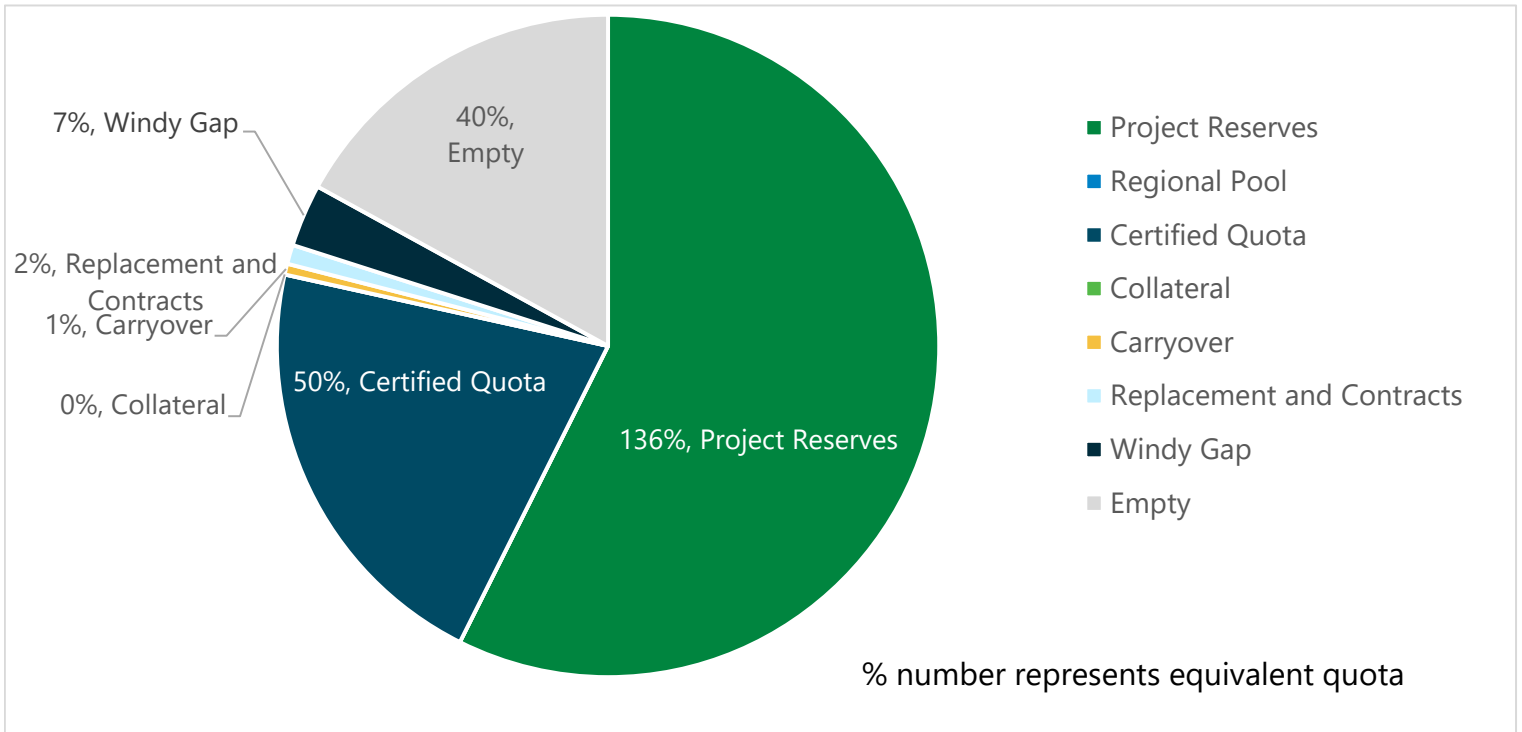


C-BT Project Allocated Water

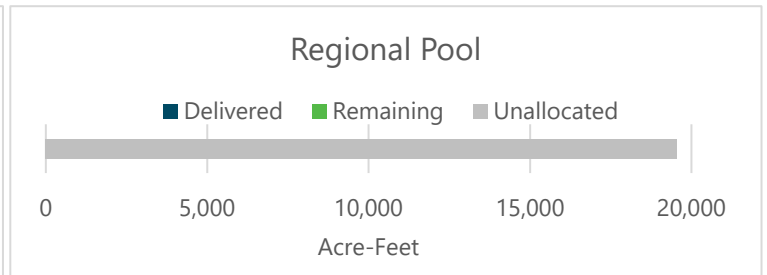
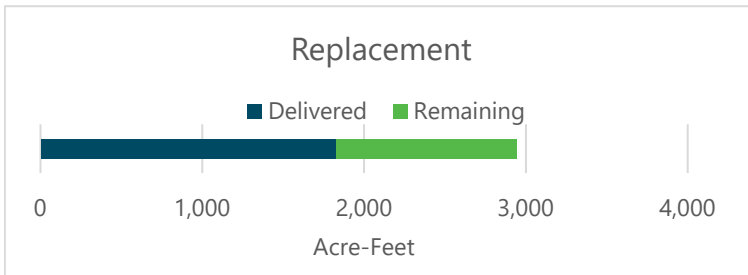
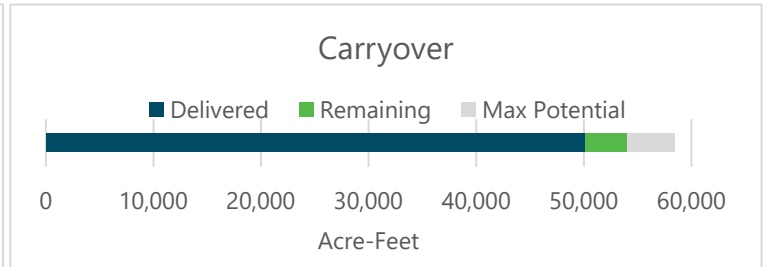
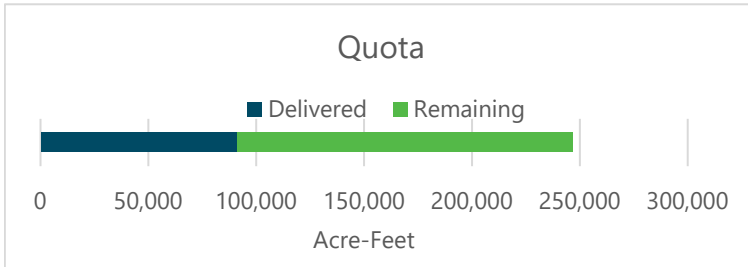
September 1, 2022



C-BT Active Storage



C-BT Delivery Obligations

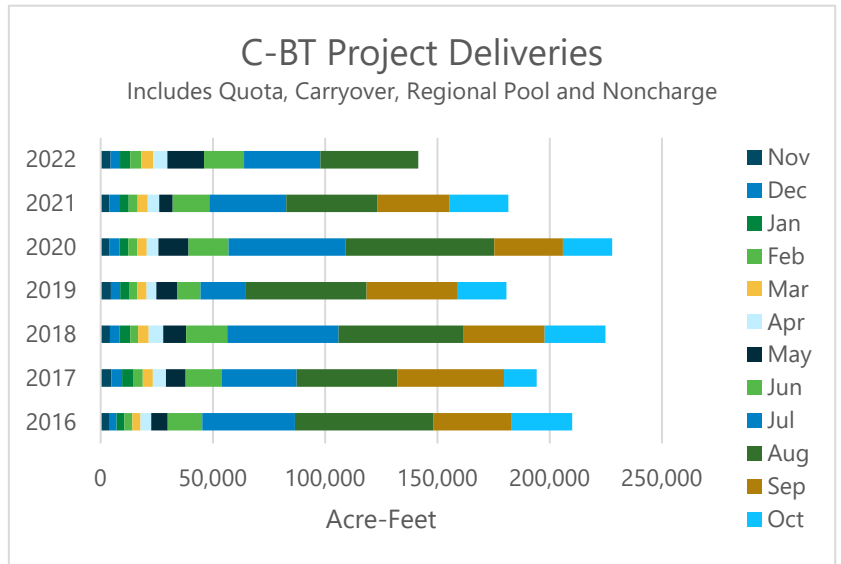
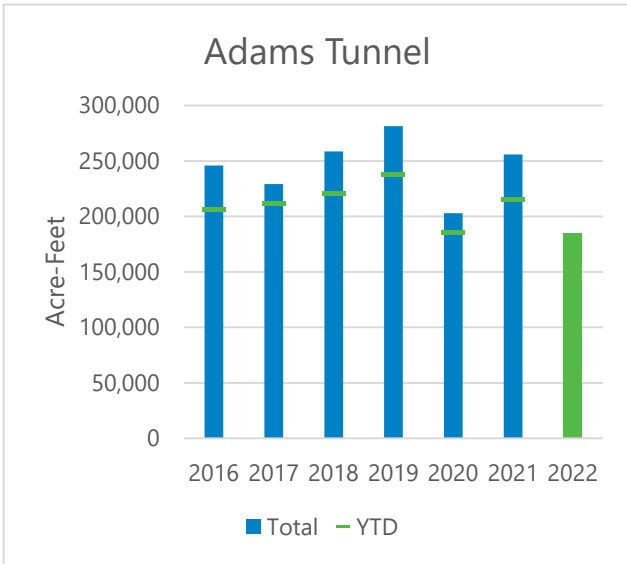


Notes:

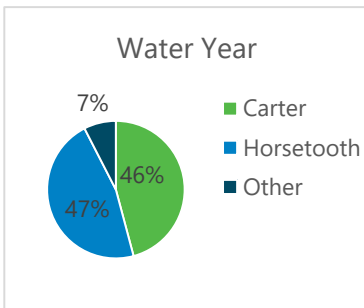
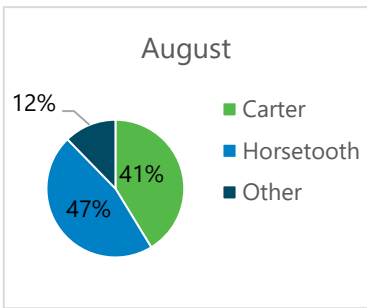
- 1) Quota set at 80%
- 2) Carryover - Entites certified 54,014 Acre-Feet of Carryover for WY2022. for Carryover so that adequate supplies are set aside to fulfill all potential obligations.
- 3) Regional Pool - Additional water acrued to the Regional Pool on April 30, 2022. There is 19,547 Acre-Feet in the Regional Pool for WY 2022.

C-BT Project Deliveries

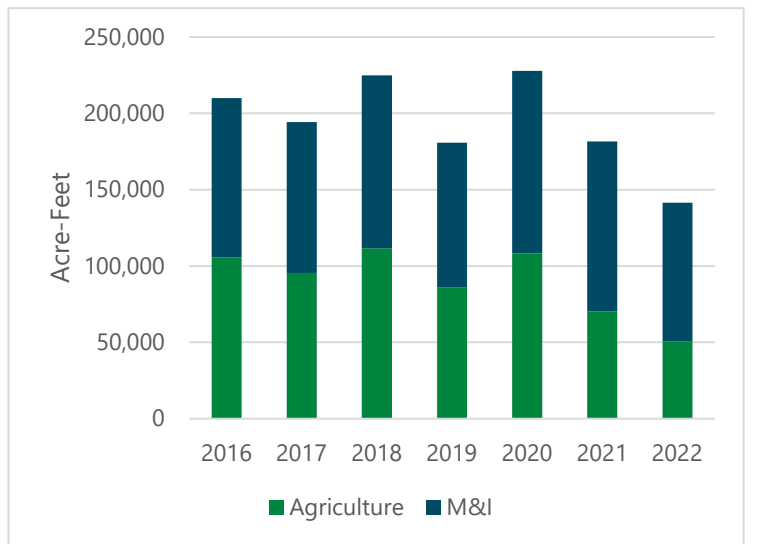
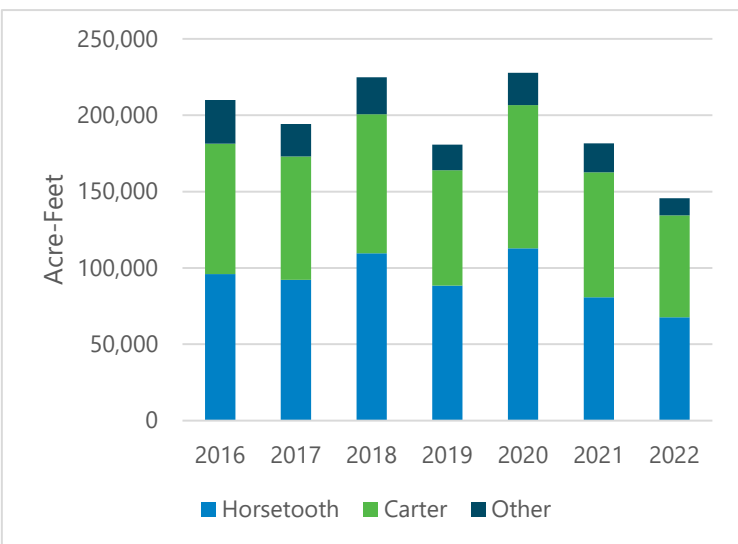
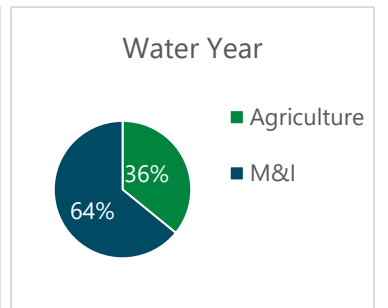
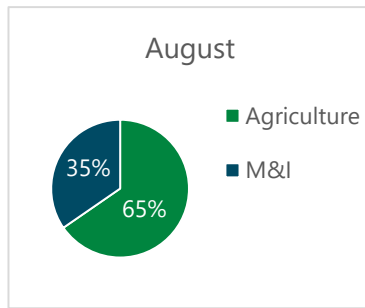
September 1, 2022



Deliveries by Area



Deliveries by Use





Utilities

electric · stormwater · wastewater · water
700 Wood Street
PO Box 580
Fort Collins, CO 80522

970.212.2900



V/TDD 711
utilities@fcgov.com
fcgov.com/utilities

MEMORANDUM

DATE: September 15, 2022

TO: Mayor Arndt and Councilmembers

FROM: Jason Graham, Utilities Director of Water  ^{DS}

THROUGH: Kelly DiMartino, City Manager  ^{DS}
Kendall Minor, Utilities Executive Director  ^{DS}

RE: Halligan Water Supply Project Status Update: Third Quarter, 2022

Bottom Line

Please find attached a quarterly status update on the Halligan Water Supply Project. This report provides a summary of work in progress and recent accomplishments.

CC: Water Commission

HALLIGAN WATER UPDATE SUPPLY PROJECT



September 2022

BACKGROUND

The Halligan Water Supply Project would enlarge Halligan Reservoir, an existing reservoir on the North Fork of the Poudre River, to meet the demand of future Fort Collins Utilities' water customers and provide increased reliability for existing customers in the event of emergencies, drought and climate change uncertainties. The project would expand the reservoir by about 8,200 acre-feet. For context, an average single-family home in Fort Collins uses just over a quarter of an acre-foot of water each year (about 85,000 gallons).

The project reached a milestone in November 2019 after many years of hard work, when the draft Environmental Impact Statement (EIS) was released. The final EIS will likely be released in 2023.

Permits are required from the U.S. Army Corps of Engineers (Corps) and other federal, state and county agencies to enlarge the Reservoir. Staff continue to support preparation of a final EIS by the Corps. Additionally, staff are currently working through other permitting processes, including the Fish and Wildlife Mitigation and Enhancement Plan (FWMEP) and 401 Water Quality Certification with the State of Colorado, in addition to U.S. Fish and Wildlife Service requirements.

PROGRESS UPDATE

Resourcing and Schedule

- Work continues to resource two permanent and one contractual positions that have been fully or partially vacated in recent months. A Project Lead posting closed July 18.
- Utilities leadership are shifting to a design-bid-build contracting structure to increase the potential for outside funding. This change away from the alternative project delivery system (APDS) involved termination of the construction contractor following 30% design. Please note there were no performance issues with the construction contractor.
- Current project staffing transitions may cause project delays; however, remaining staff are working hard to advance critical permitting and design efforts and minimize schedule delays.

Permitting and Mitigation

- The Corps is preparing the final EIS, which includes information learned during engineering design and updated technical studies, and addresses comments received on the draft EIS (release anticipated in 2023).
- Staff are working with Colorado Parks and Wildlife to develop concepts for the FWMEP to avoid, minimize, and offset project impacts (anticipated completion in 2023).
- Staff are working closely with U.S. Fish and Wildlife Service to finalize a mitigation plan for the threatened Preble's meadow jumping mouse (anticipated completion in late 2022).
- Staff continue to work toward development of an application for a 401 Water Quality Certification from the Colorado Department of Public Health and Environment. Modeling for this effort will continue through 2023.

Property Acquisition and Easements

- Staff continue to work toward easement agreements by negotiating the terms of a global settlement for the primary (east) access road for Phases 1-3 (design, construction and post-construction); a trial is scheduled for the week of Oct. 31 if settlement discussions are not successful.

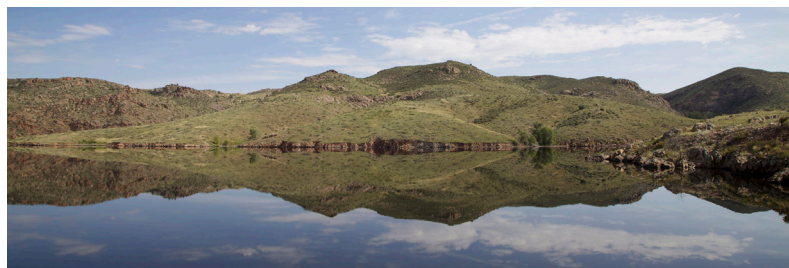
- A late September trial slated to resolve Phase 1 access to the North Poudre Canal diversion has been postponed as staff negotiate a potential global settlement for Phase 1-3 on that property as well.
- The recent Council approval of an umbrella agreement with the Landowners Association of Phantom Canyon Ranch addresses property needs from most of the landowners for Phase 1 of the project and sets up an effective framework for further negotiations during Phases 2 and 3.

Design and Construction

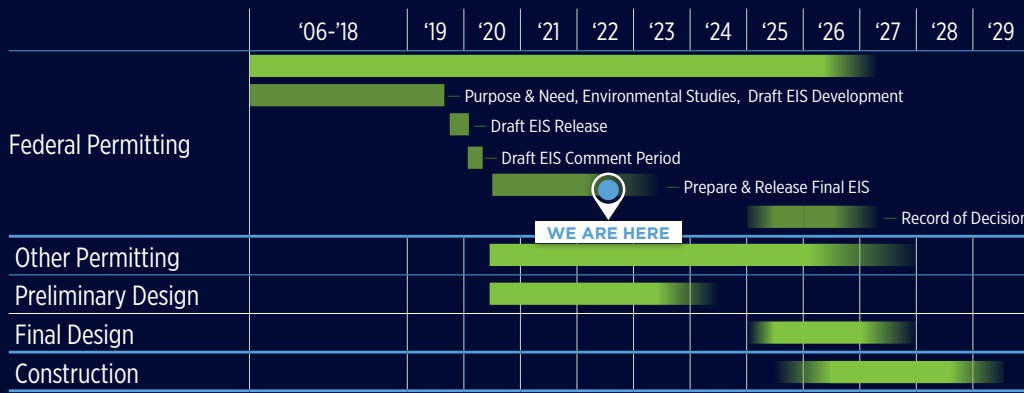
- 30% design has been completed and reviewed by an independent Technical Advisory Committee and the State Engineer's Office.
- Additional site data collection is planned for spring 2023 to aid in development of the 60% design. This will be the most intense field investigation to date.
- Recent heavy rains and localized flash floods damaged the east access road, including areas around the existing dam. Road conditions are being assessed and repairs are planned for early October.

Public Engagement and Communication

- The FWMEP and the 401 Water Quality Certification both include a public process. More information about those processes will be forthcoming as that timeframe approaches.
- The final EIS release by the Corps does not involve a request for public comments because this was a focus of the 2019 draft EIS.



HALLIGAN WATER SUPPLY PROJECT SCHEDULE



This schedule reflects current understanding of project timelines and is subject to change based on permitting requirements. The color changes in the bars represent uncertainty in the timeline.

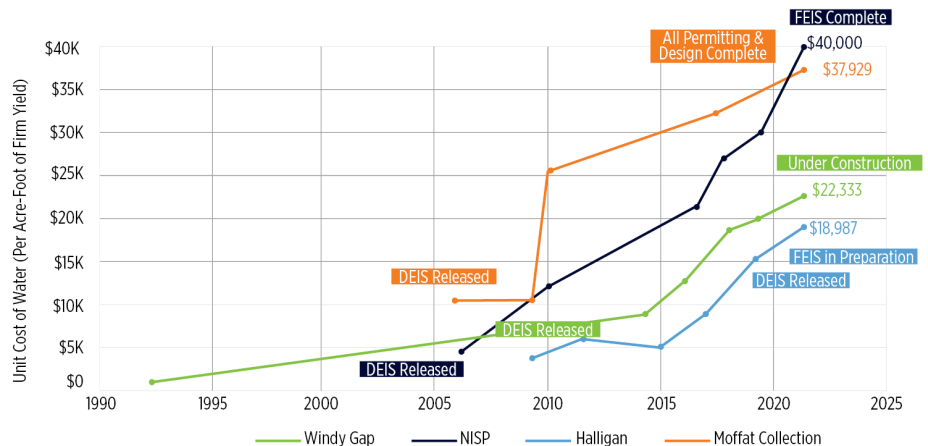
ANTICIPATED COSTS

Staff are working on a project cost update based on the 30% design and significantly advanced information related to permitting, mitigation, property acquisition costs and risk. This cost update will include materials, labor, and fuel costs in 2022 dollars, capturing best available information following global increases. As required, updated costs will be provided to the Corps and Colorado Parks and Wildlife for incorporation into the Final EIS and FWMEP, respectively.

In 2019, the total project cost was estimated to be between \$100M - \$150M, based on concept-level details. The cost estimate was presented as a range to reflect uncertainties about the project schedule, environmental permitting and mitigation requirements, access needs, and conceptual nature of the design. Costs are predominantly influenced by factors outside of the City's control, such as the permitting schedule and requirements. **Current information indicates the costs will exceed the upper end of this range, but detailed information will not be available until early 2023.**

Using the high end of the most recent projected (2019) cost range (\$150M), the project is anticipated to provide firm yield at about \$19,000 per acre-foot. For comparison, the market rate for firm yield from the Colorado-Big Thompson Project is up to \$140,000 per acre-foot. **The graph to the right shows the cost of water supply projects in Northern Colorado (per acre-foot of firm yield), indicating that Halligan is the most cost-effective option on a unit cost basis.**

Regional Water Supply Projects Unit Cost through Time



Costs shown for other projects were information gathered at that time and may not represent actual cost estimates.

Costs will continue to be updated as new information is obtained throughout the permitting and design process. In 2023, staff will review updated cost estimates and other dependent and independent metrics to verify that the Halligan Project remains the most cost-effective and feasible water supply solution for Utilities' customers. **In the meantime, staff continue to focus on those items the City can influence or control, such as identifying and mitigating risks, value engineering, and disciplined spending practices.**

HOW THE PROJECT RELATES TO COUNCIL PRIORITIES



Provides the resiliency needed to maintain the level of service expected by customers.



Protects and enhances instream river flows.



Improves and accelerates stream/riparian restoration.

For more information, visit fcgov.com/halligan, call 970-416-4296 or email halligan@fcgov.com.

Auxiliary aids and services are available for persons with disabilities, V/TDD 711. Esta información puede ser traducida, sin costo para usted, 970-212-2900.





Utilities
electric · stormwater · wastewater · water
PO Box 580
Fort Collins, CO 80522
970.212.2900
V/TDD: 711
utilities@fcgov.com
fcgov.com/utilities

MEMORANDUM

DATE: September 1, 2022

TO: Water Commission

THROUGH: Jason Graham, Director of Water Utilities 

FROM: Jill Oropeza, Director, Sciences, UT Water Quality Services Division 

RE: Testing of the Fort Collins Utilities Drinking Water for Per- and Poly-fluoroalkyl Substances (PFAS)

Bottom Line

On August 22, 2022, Utilities staff collected samples of the City's source waters and finished drinking water to be tested for per-and poly-fluoroalkyl substances (PFAS). Testing is being completed in cooperation with the Colorado Department of Public Health and Environment (CDPHE) and in response to new PFAS Health Advisories issued by the U.S. Environmental Protection Agency (EPA).

This memorandum is for informational purposes; no action is required at this time.

The attached memorandum was provided to City Council on September 1, 2022 and provides background on PFAS and the Utilities Plans for testing and reporting results. More information can also be found on the Utilities website (fcgov.com/PFAS).




CC: Kendall Minor, Utilities Executive Director
Kathryne Marko, Manager, UT Environmental Regulatory Affairs Division
Lois Rellergert, Sr. Specialist, UT Environmental Regulatory Affairs Division
Ken Morrison, Manager of Plant Operations, UT Water Production Division
Gregg Stonecipher, Sr. Supervisor, Sciences, UT Water Production Division

Attachment: PFAS_Council_Memo_08.24.2022



Utilities
electric · stormwater · wastewater · water
PO Box 580
Fort Collins, CO 80522
970.212.2900
V/TDD 711
utilities@fcgov.com
fcgov.com/utilities

MEMORANDUM

DATE: August 24, 2022
TO: Mayor Arndt and Councilmembers
FROM: Jill Oropeza, Director, Sciences, UT Water Quality Services Division ^{DS}
THROUGH: Kelly DiMartino, City Manager ^{DS}
Jason Graham, Utilities Water Director ^{DS}
RE: Testing of the Fort Collins Utilities Drinking Water for Per- and Poly-fluoroalkyl Substances (PFAS)

Bottom Line

On August 22, 2022, Utilities staff collected samples of the City’s drinking water to be tested for per-and poly-fluoroalkyl substances (PFAS). Testing is being completed in cooperation with the Colorado Department of Public Health and Environment (CDPHE) and in response to new PFAS Health Advisories issued by the U.S. Environmental Protection Agency (EPA).

Background

PFAS are a class of chemicals that have received national attention in recent years due to their widespread use, persistence in the environment, and potential to cause adverse health effects. These chemicals are found in numerous consumer products like cookware, furniture, clothing, and personal care products, as well as other commercial and industrial products. Traditional water and wastewater treatment processes cannot effectively remove PFAS.

Potential PFAS contamination of drinking water supplies and the aquatic environment is a concern due to their ubiquity and persistence, particularly in areas where there have been spills, manufacturing and disposal sites, and in some cases, where there are upstream treated municipal wastewater discharges. There have been no known spills or manufacturing or disposal sites in our area, and we are downstream of only one municipal wastewater discharge, Estes Park’s wastewater discharge via Horsetooth Reservoir.

Fort Collins PFAS Test Results

We are proactively testing our untreated source waters (Poudre River and Horsetooth Reservoir) and finished drinking water to make sure we have the most up to date information based on the most current approved testing methods.



Test results from the August 22 sampling event are expected by the end of September and will be published on the Utilities website, along with past testing results. We will also share these results with CDPHE.

Fort Collins Utilities website (fcgov.com/PFAS) has been updated to serve as an informational resource on PFAS, Utilities past and current testing efforts, test results, and ways that consumers can protect themselves from the exposure from PFAS.

CC: Kendall Minor, Utilities Executive Director
Kathryne Marko, Manager, UT Environmental Regulatory Affairs Division
Lois Rellergert, Sr. Specialist, UT Environmental Regulatory Affairs Division
Ken Morrison, Manager of Plant Operations, UT Water Production Division
Gregg Stonecipher, Sr. Supervisor, Sciences, UT Water Production Division