



Dedicated to providing a reliable and quality domestic water supply.

Year In Review 2022

As 2022 came to a close, Consolidated Water District #1 continued to meet the challenge of providing a reliable and quality domestic water supply to our customers.

With the increase in demand for water and services by our ever growing customer base, and changing regulations on water suppliers, the District positioned itself to meet the demands of an ever changing community and industry.

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Throughout 2022, the future was the focus for the District, as it looked to ensure the community we serve will have the water supply they deserve and have come to expect and rely upon.

The District is poised to tackle the new regulations, and embark on new capital improvement projects that will ensure the longevity, reliability, and redundancy of the distribution system for many years to come.

The District would like to say **"thank you"** to our customers, and community, for entrusting us with providing you a safe and reliable water supply each and every day.

The Board of Directors, and Staff of CWD#1 will continue to prove each and every day that they are capable of steering the District through whatever challenges may come our way.



Ensuring Availability, Reliability, and Economically Responsible Water Supply

To ensure the availability, and reliability of the water supply for our customers and community, the Board of Directors, approved a contract with Ponzer Youngquist, Olathe, KS, to complete a study of the ability of the water distribution system to meet current and future demands of our customers.

The study included an indepth review and analysis of all aspects of the distribution system, and the ability of the various pipes, water towers, meters, and supply components to provide water to our customers. This is the second time in the last 10-years the District has completed such an extensive study. With the growth being experienced in the District, the need for the study is paramount.

The results of the study were presented to the Board of Directors in early 2022. Results of the study returned recommendations for improvements in the ability to obtain water, at a faster rate than currently possible. A series of meetings was held with our longest tenured water supplier, the Kansas City, Kansas Board of Public Utilities, to discuss the recommendations. A mutual interest in providing our customers and community with a reliable water supply was reaffirmed during the meetings.

The Board of Directors directed staff to proceed with design and funding options for the highest priority capital improvement projects recommended in the study. The District is currently designing numerous capital improvement projects as recommended, and is securing low-interest financing from USDA-Rural Development. The Board of Directors is committed to completing the improvements without a rate increase.

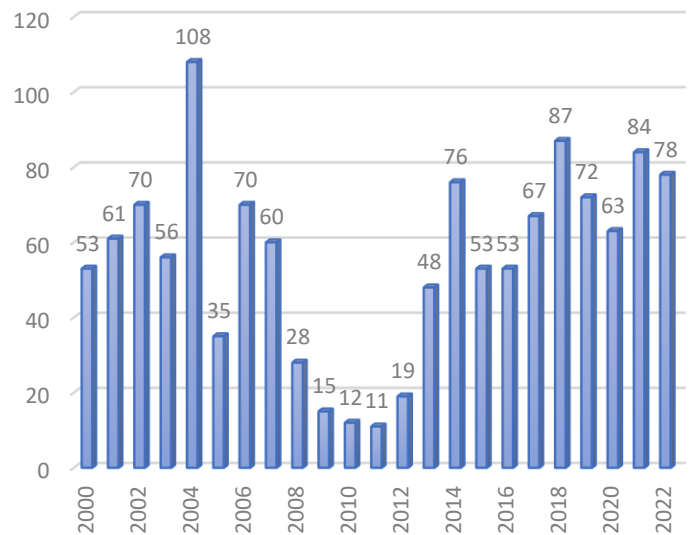
Growth - 2022

Customer Totals:	Total	2639
	Residential	2537
	Commercial	64
	Feed lots	9
	Industrial	4
	Schools	10
	Churches	15
Year 2022 had:	New Benefit Units	78
	Meter Upgrade	0
	Transfers of Ownership	185
	Rental Changes	55

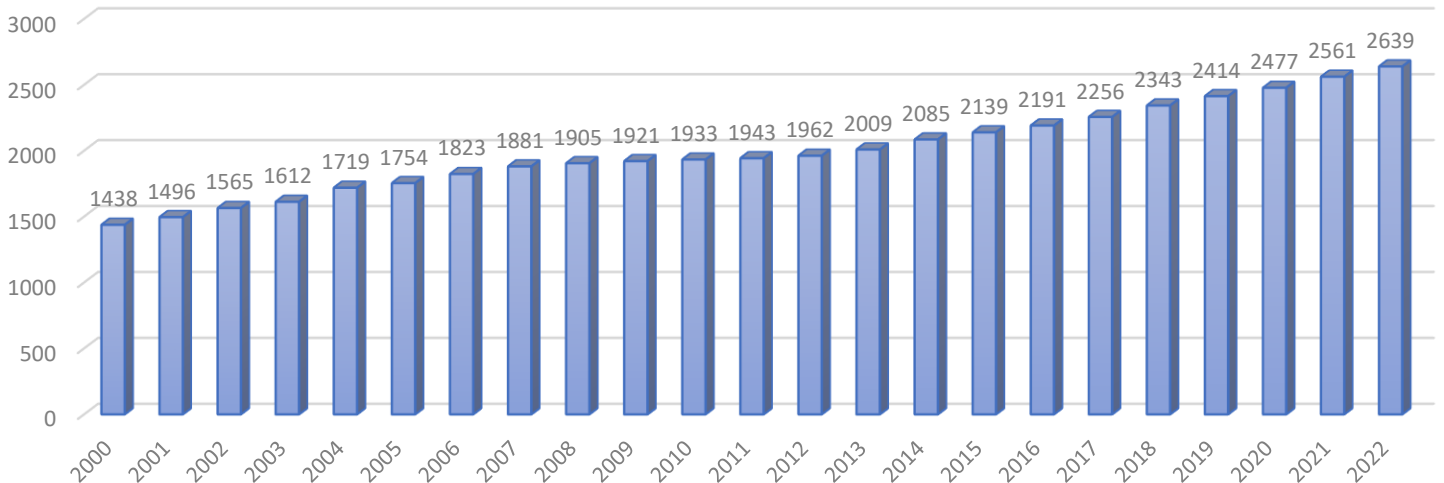
2022 saw the 4th largest water meter sales in history.

The District's growth continues its upward trajectory.

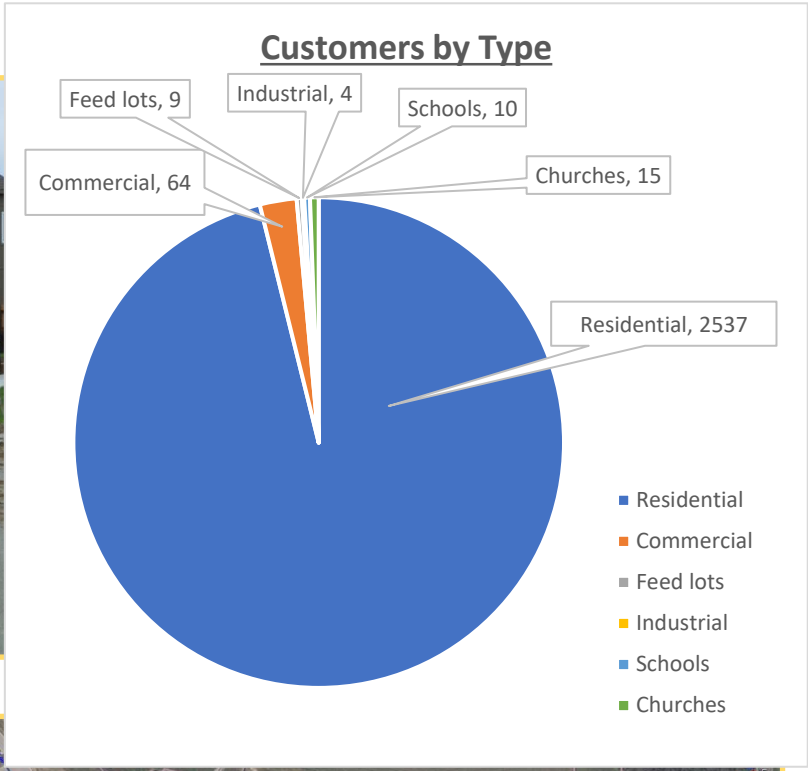
Meters Sold by Year



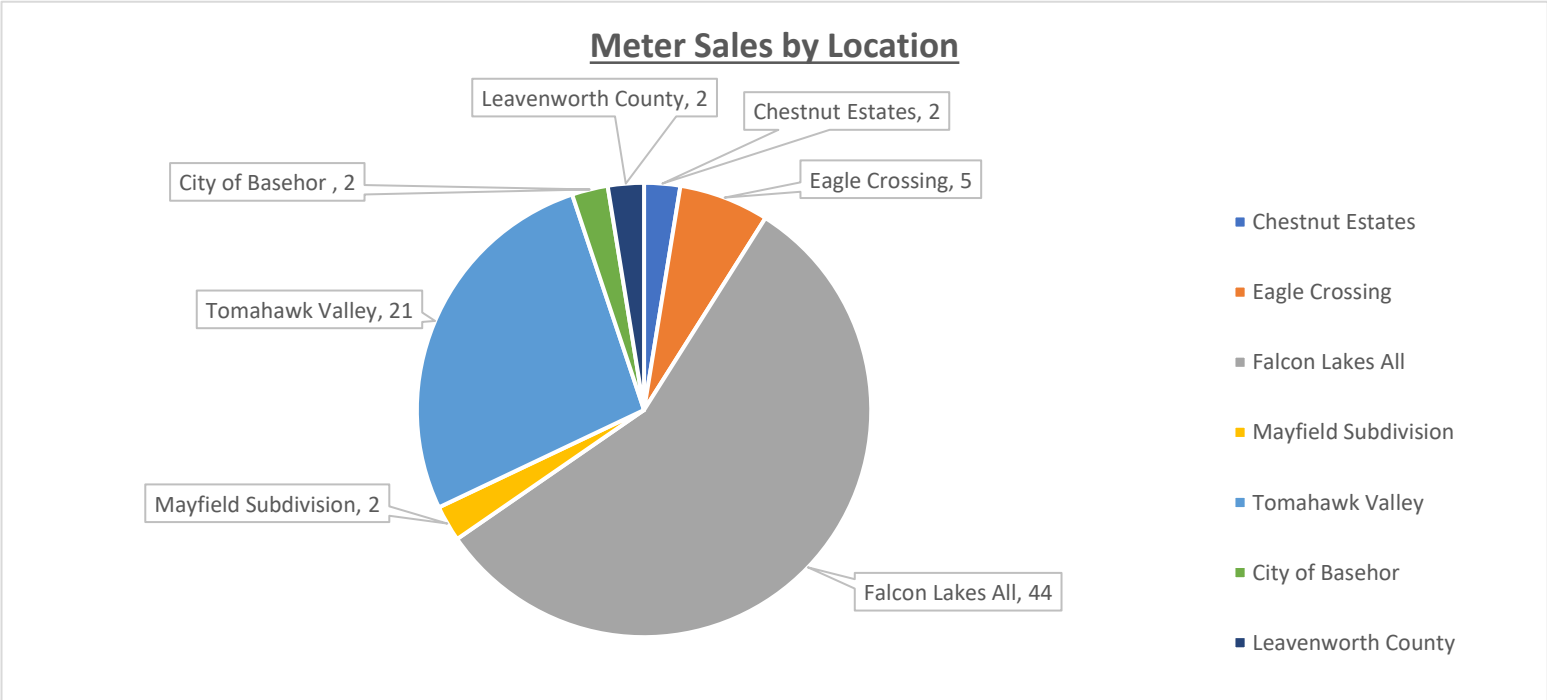
Number of Customers by Year



Growth - 2022 cont...



60%
Growth Rate during the last 20 years.



Water Supply/Usage - 2022

Water Purchased:	Total Gallons Purchased	205,963,520
	BPU	205,605,009
	Leavenworth	358,511
Metered to Customers	Gallons	190,923,600
Flushing, Fire Use & Hydrant Meter Sales	Gallons	2,650,000
Total Accountable Water	Gallons	193,573,600
Total Gallons Lost	Gallons	12,389,920
	Percentage Lost	6.02%

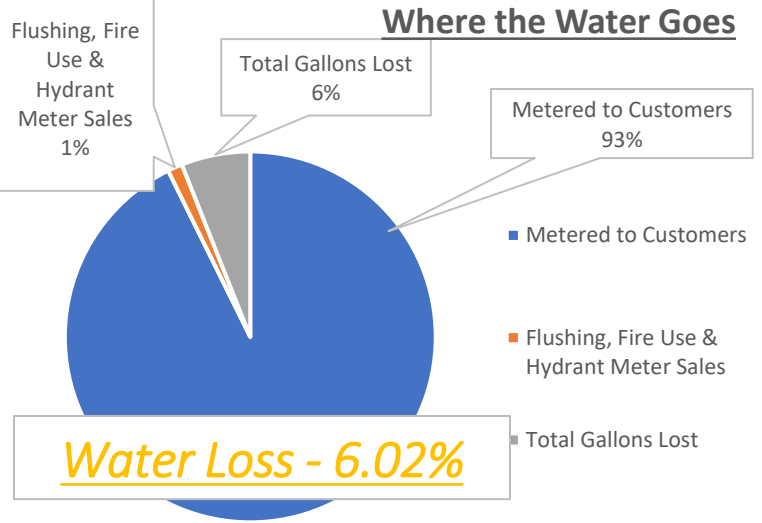
New Record

205.9 Million Gallons of Water Purchased

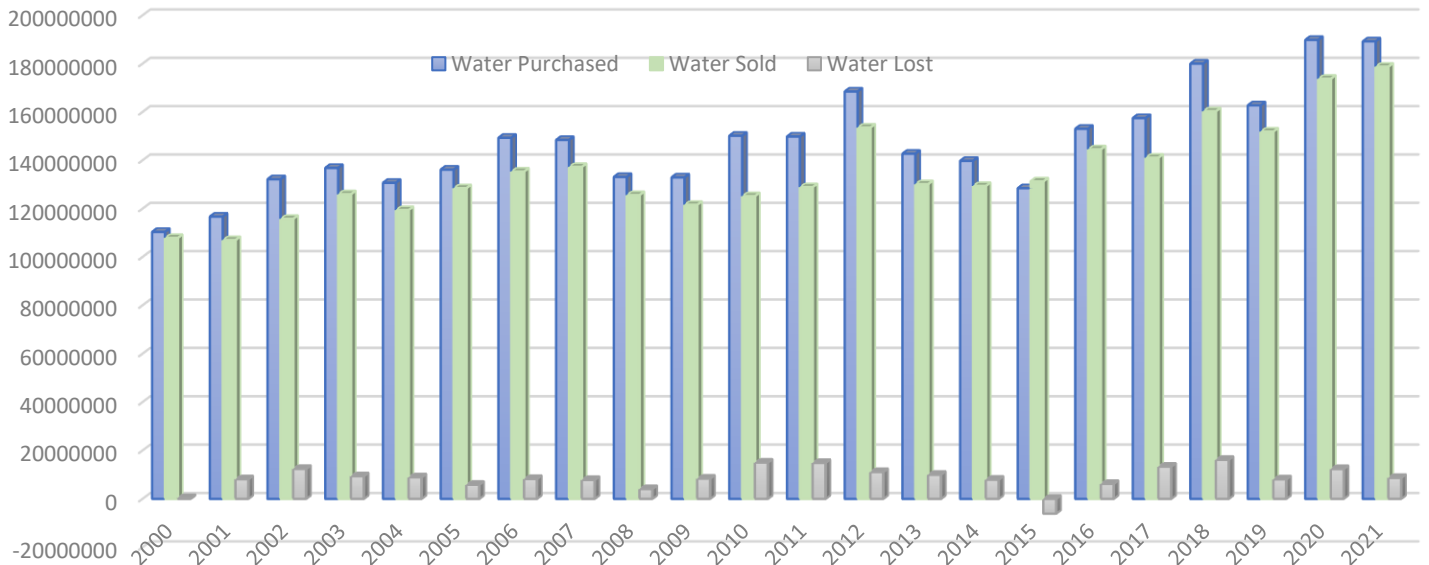
New Record

191 Millon Gallons of Water Sold

Where the Water Goes



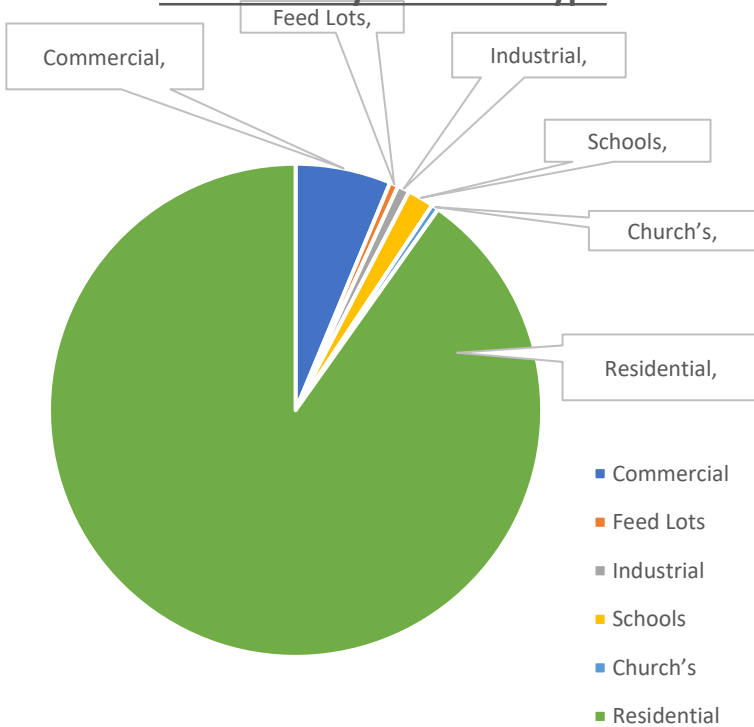
Water Purchased/ Sold by Year



Water Rates - 2022

Customer usage: (gallons)		<u>Total per Year</u>	<u>Yearly Average</u>	<u>Monthly Avg.</u>
Commercial	64	11,957,900	186,842	15,570
Feed Lots	9	1,085,400	120,600	10,050
Industrial	4	1,509,400	377,350	31,446
Schools	10	3,294,998	329,500	27,458
Church's	15	897,300	59,820	4,985
Residential	2537	172,178,602	67,867	5,656
AVERAGE MONTHLY RESIDENTIAL CUSTOMER BILL				\$46.80

Water Use by Customer Type



Water Rates

Minimum

\$21.00 (includes 1,000 gallons)
(Last increase Sept. 2015)

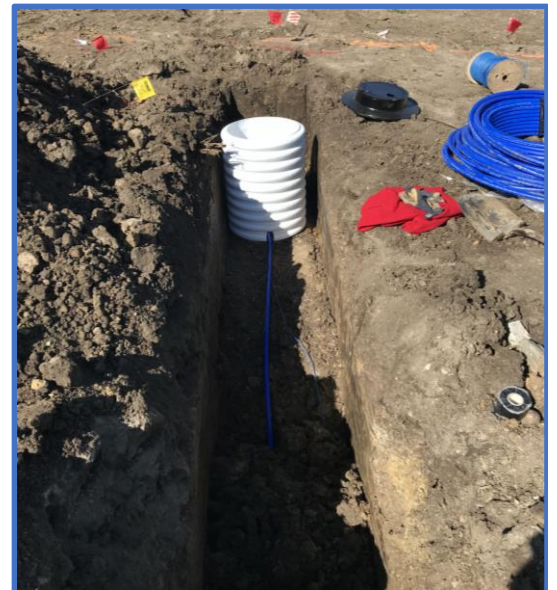
Consumption Rate

\$5.45 / 1,000 Gallons
(Last increase Dec. 2012)

Benefit Unit Cost

(Water Meter)

5/8" x 3/4"	\$5,000
1"	\$6,500
1-1/2"	\$9,500
2"	\$16,000
3"	\$30,000
4"	\$50,000
6"	\$99,750
Road Bore Fee	\$500



Developments / Projects

2022

Boulder's Phase III
Highland's @ Falcon Lakes Phase III
K7 & Hollingsworth Rd Relocation

2023 - Projected

Old Basehor Replacement Project
Water Supply Projects



Statistics

New Water Mains Installed - 2,640 ft.

Water Mains Abandoned - 400 ft.

Water Mains Maintained - 99 Miles

Appurtenances Installed

Fire Hydrants - 6

Valves - 26

Appurtenances Maintained

Fire Hydrants - 446

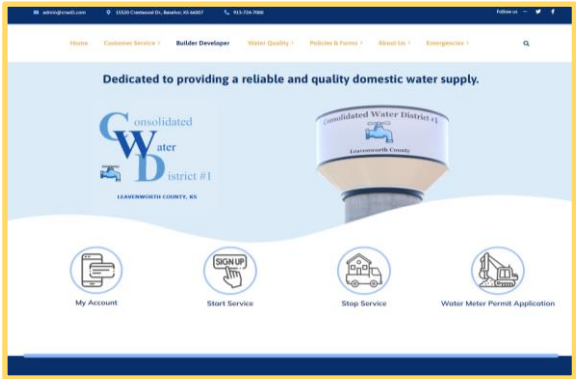
Valves - 1,411

Flush Assemblies - 75

Breaks / Leaks

Water Main Breaks - 3

Administrative Services - 2022



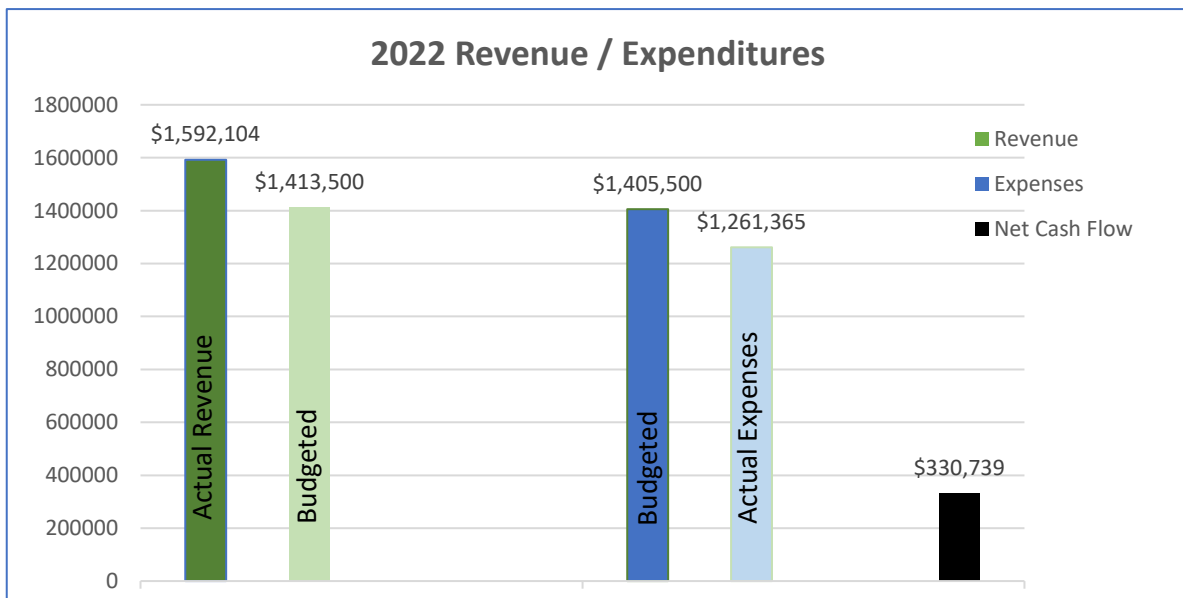
New website launched in 2022

The new website was modernized and enhanced for ease of use by our customers.

www.crw1.com

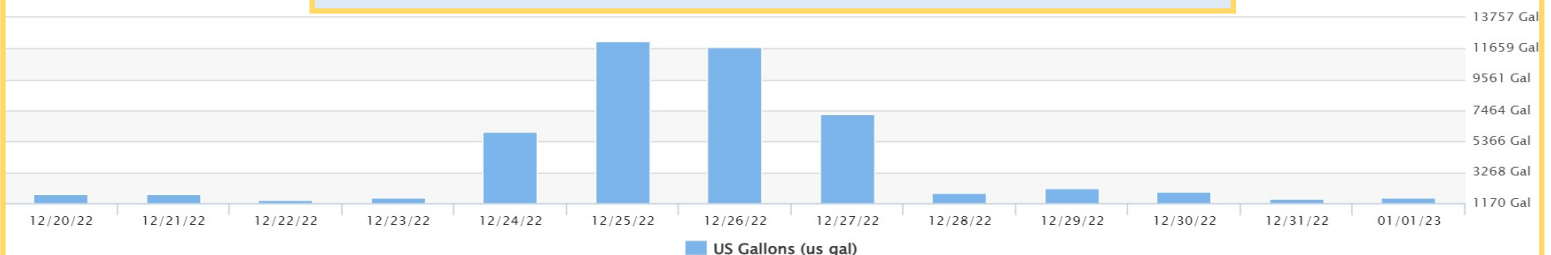
Administrative Statistics

Bills Processed in 2022	31,600
New Account Set-ups	78
Late Notices Processed	3,000
Water Shut Off Notices Prepared	720
Transfers of Ownership	185
New Rental Agreements	55
Leaks Detected	Numerous
And many other reports and tasks...	



Below is an example of a leak in a building found by our administrative staff electronically. The customer was notified of the leak, limiting damage and cost.

12/20/2022 - 01/01/2023
 Device Number: 72409072
 Account Number: 115
 Radio Number: 92251196
 Customer Name: HighSchool USD #458
 Processed Date/Time: 12/27/22 10:07:14 CST
 Uploaded Date/Time: 12/27/22 04:05:22 CST
 Location: 2108 N 155th St Basehor KS 66007-0282



Event Summary

	Asset Class	Event Type	Qty	%
1	Locates	Water Main Locate	2428	35.3%
2	Water Valve	Valve Exercise	1,402	20.4%
3	Water Hydrant	Inspection	486	7.1%
4	Water Structure	Inspection	463	6.7%
5	Water Hydrant	Painted	345	5.0%
6	Water Hydrant	Flow Test	182	2.6%
7	Work Orders	Work Orders	168	2.4%
8	Water Hydrant	Weed Eat	161	2.3%
9	Water Hydrant	CL2 Residual Monitoring	141	2.0%
10	Water Meter	Check Stale Meter	118	1.7%
11	Water Structure	Lawn Care	97	1.4%
12	Water Meter	Door Hanger	85	1.2%
13	Water Blowoff Assembly	CL2 Residual Monitoring	83	1.2%
14	Water Valve	Valve Box Lower	80	1.2%
15	Water Hydrant	Weed Spray	78	1.1%
16	Water Meter	Check for Leak	54	0.78%
17	Water Meter	Lower Meter Lid	53	0.77%
18	Water Valve	VMT Exercise	49	0.71%
19	Water Meter	Repalce MXU	39	0.57%
20	Water Structure	Other	37	0.54%
21	Water Meter	Service Shut-off	35	0.51%
22	Water Meter	Other	32	0.47%
23	Water Structure	CL 17 Maintenance	28	0.41%
24	Water Meter	Replace MXU Cap	26	0.38%
25	Water Meter	Service Turn On	20	0.29%
26	Water Valve	VMT Clean-out	19	0.28%
27	Water Meter	Check Meter (No Usage)	19	0.28%
28	Water Blowoff Assembly	Painted	19	0.28%
29	Water Meter	Replace Bass Plate	18	0.26%
30	Water Valve	Replace Valve Lid	15	0.22%
31	Water Meter	Bacteriological Water Sample	13	0.19%
32	Water Meter	Bacteriological Water Sample	12	0.17%
33	Water Meter	Replace Meter Lid	12	0.17%
34	Water Valve	VMT Straighten	10	0.15%
35	Water Meter	Check Pressure	7	0.10%
36	Water Valve	Replace Valve Ring	6	0.09%
37	Water Meter	Replace Chamber	5	0.07%
38	Water Meter	Raise Meter Lid	5	0.07%
39	Water Meter	Replace Meter Ring	4	0.06%
40	Water Meter	Meter Pit Clean-Out VMT	4	0.06%
41	Water Meter	Thaw Frozen Meter	3	0.04%
42	Water Blowoff Assembly	Other	3	0.04%
43	Water Meter	Replace ECR	3	0.04%
44	Water Meter	Stage 2 Water Sample	2	0.03%

45	Water Valve	Weed Eat	2	0.03%
46	Water Valve	Repair Valve	1	0.01%
47	Water Valve	VMT Replace	1	0.01%
48	Water Structure	Installation	1	0.01%
49	Water Hydrant	Repair	1	0.01%
50	Water Hydrant	Other	1	0.01%
51	Water Fitting	Other	1	0.01%
52	Water Meter	Replace MXU/ECR	1	0.01%
53	Water Blowoff Assembly	Weed Eat	1	0.01%
54	Water Meter	Meter Pit Replace VMT	1	0.01%

Total Events in 2022: **6,880** 5,681 in 2021

Average Events Per Work Day : **26.4** 21.8 in 2021



Garrett became the first Water System Operations Apprentice for the District in 2022.

Garrett completed nearly 2,000 hours of on the job training along with 144 hours of related technical instruction in 2022.

With a year remaining in the program, Garrett will soon have a National Certification as a specialist in the water industry.