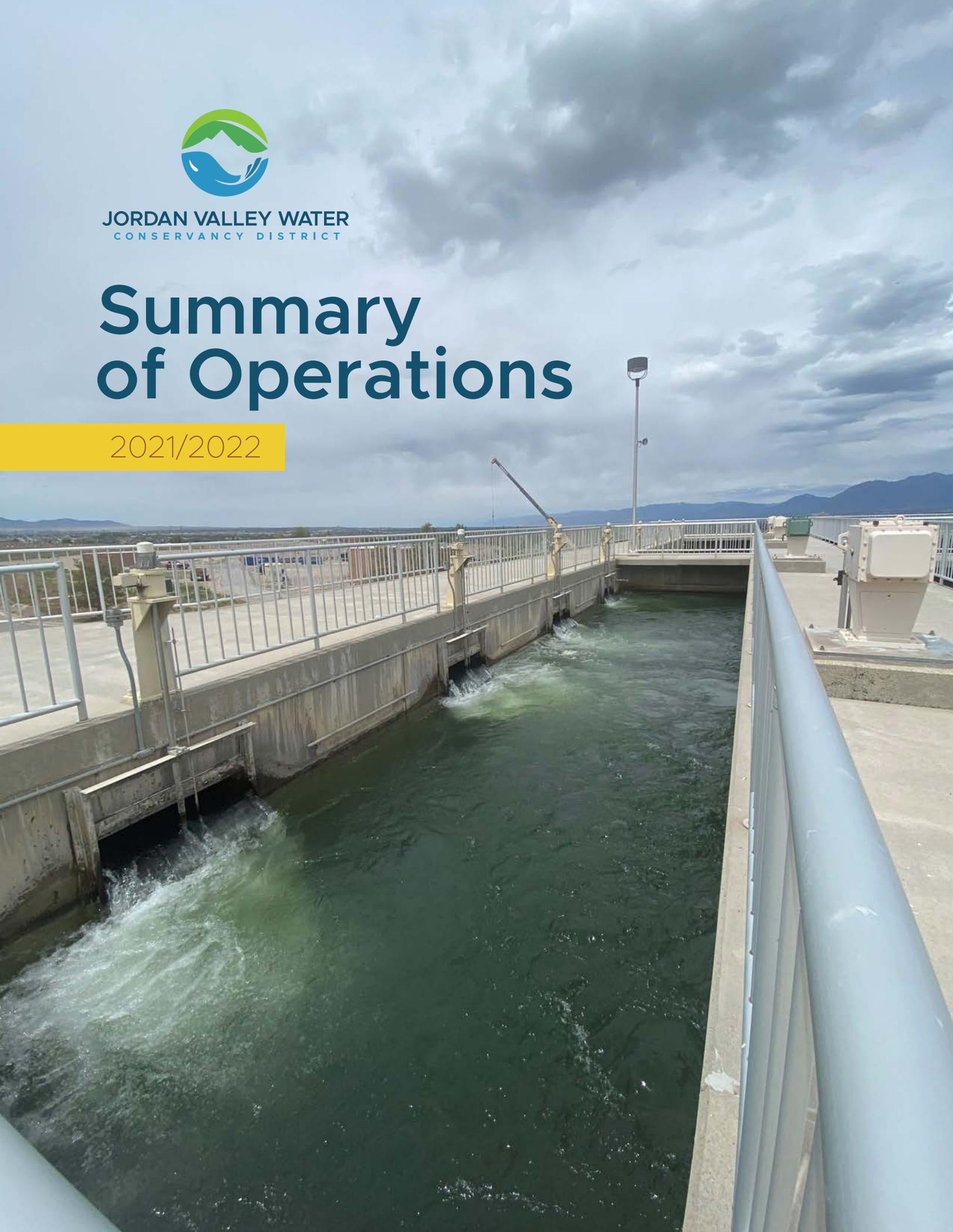




JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Summary of Operations

2021/2022



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Acronyms used in this publication:

AF = Acre feet

ASR = Aquifer storage & recovery (treated surface water pumped into the underground aquifer, then retrieved for use at a later date)

CFS = Cubic feet per second

CFU/mL = Colony-forming units (bacteria) per milliliter

CT = Concentration x time (for chlorination)

Feet Above/Below Compromise = Utah Lake level above or below "Compromise Elevation," established by a 1986 agreement between landowners surrounding Utah Lake and water right owners. When the Utah Lake level exceeds Compromise Elevation, the radial gates at the Utah Lake Outlet Structures must be fully opened.

FTE = Full-time employee(s)

FY/FYE/FYT/FYTD = Fiscal Year/Fiscal Year Ending/
Fiscal Year Total/Fiscal Year To Date

GWR = Groundwater Rule

HAA = Haloacetic acid

HPC = Heterotrophic plate count

JVWCD = Jordan Valley Water Conservancy District

JVWTP = Jordan Valley Water Treatment Plant

M&I = Municipal and Industrial

MG = Million gallons

MGD = Million gallons per day

mg/L = Milligrams per liter

MSL = Mean sea level

MWDSLS = Metropolitan Water District of Salt Lake & Sandy

NTU = Nephelometric turbidity units

OM&R = Operations, Maintenance & Replacement

PEA = Poly-electrolyte Anionic (anionic polymer)

PEC = Poly-electrolyte Cationic (cationic polymer)

PAC = Powdered Activated Carbon

PRWUA = Provo River Water Users Association

SCADA = Supervisory Control and Data Acquisition (a computer-based system for remotely monitoring and controlling water systems)

SERWTP = Southeast Regional Water Treatment Plant

SWGWTP = Southwest Groundwater Treatment Plant

SWJVGWP = Southwest Jordan Valley Groundwater Project

TDS = Total dissolved solids

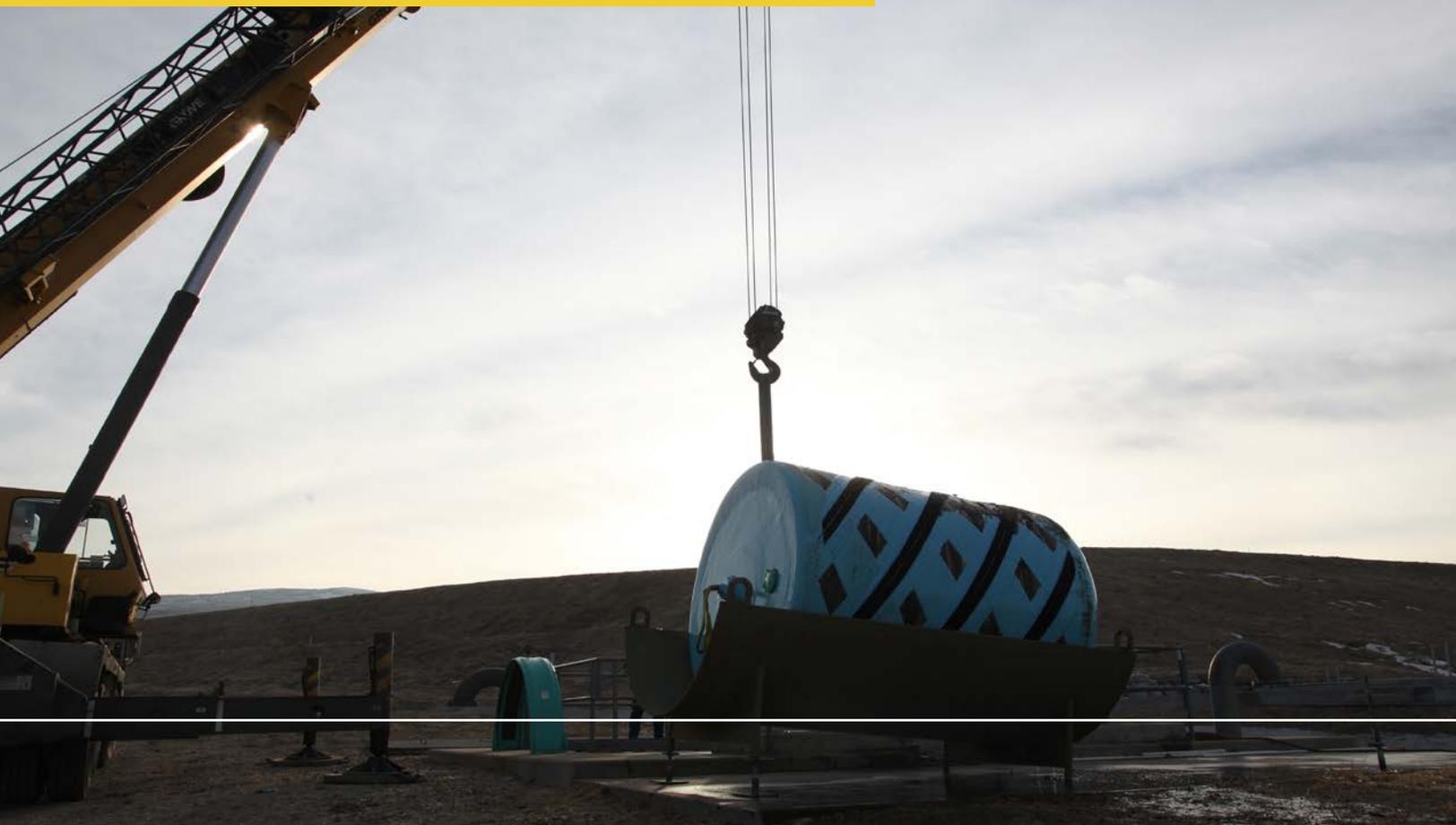
THM = Trihalomethane

TOC = Total organic carbon

ULS = Utah Lake System component of the Central Utah Project; Strawberry Reservoir storage.

Whenever possible, data for the fiscal year were used in this report. In cases where fiscal year data was not available or feasible to use, we have listed data from the calendar year.

Crane lifting a "pig" - C. Bee



Operations

November Morning on Mount Timpanogos
from Jordan Narrows Pump Station
T. Garrett

Sources

Municipal & Industrial water supplies (acre-feet)	FY 21/22	FY 20/21
<i>Jordanelle Reservoir (Central Utah Project)^a</i>	35,983	56,516
<i>Deer Creek Reservoir (Provo River Project)^b</i>	10,539	11,069
<i>Upper Provo River reservoirs^a</i>	1,392	2,121
<i>Echo Reservoir^c</i>	0	998
<i>Provo River (unstored flows)^a</i>	16,193	13,146
<i>Weber River (unstored flows)^b</i>	1,833	1,291
<i>Central Water Project</i>	11,676	11,680
<i>Salt Lake County mountain streams</i>	1,248	1,317
<i>Culinary water purchased from MWDSL</i>	798	1,101
<i>Salt Lake County Groundwater</i>	16,225	10,218
<i>Southwest Groundwater Project Wells</i>	3,354	4,422
<i>Bingham Canyon Water Treatment Plant</i>	3,114	3,321
SUBTOTAL FOR MUNICIPAL & INDUSTRIAL SOURCES	102,355	117,200
Irrigation water sources (AF)		
<i>Jordanelle Reservoir (Central Utah Project)^a</i>	0	0
<i>Deer Creek Reservoir (Provo River Project)^b</i>	0	0
<i>Upper Provo River reservoirs^a</i>	0	0
<i>Echo Reservoir^c</i>	0	0
<i>Provo River (unstored flows)^a</i>	2,719	0
<i>Weber River (unstored flows)^b</i>	0	0
<i>Utah Lake</i>	19,983	30,026
SUBTOTAL FOR IRRIGATION	22,702	30,026
TOTAL ALL SOURCES	125,057	147,226

a- Provo River sources

b- Weber, Duchesne and Provo River sources

c- Weber River sources

Deliveries

All deliveries in acre feet	FY 21/22	FY 20/21
Bluffdale City	3,313	3,692
Copperton Improvement District	1	2
Draper City	4,194	5,117
Granger-Hunter Improvement District	18,533	18,745
Herriman City	5,246	6,457
Hexcel Corporation	658	665
Kearns Improvement District	7,155	9,164
Magna Water Company	803	797
Midvale City	2,761	3,253
Riverton City	4,750	4,907
City of South Jordan	15,304	18,968
City of South Salt Lake	1,020	1,020
Taylorsville-Bennion Improvement District	4,569	4,601
Utah State Department of Corrections	447	454
WaterPro, Inc. (treated)	1,331	1,446
WaterPro, Inc. (raw)	0	0
West Jordan City	18,793	22,576
White City Water Improvement District	0	0
Willow Creek Country Club	269	374
TOTAL WHOLESALE	89,146	102,240
Jordan Valley WCD retail area	6,097	8,633
JVWCD non-revenue water, use, and loss ^{a, b}	7,112	6,327
SUBTOTAL FOR DELIVERIES, USE & LOSS	102,355	117,201
Irrigation & raw water delivered (AF)		
Welby Jacob Water Users Company	22,702	30,026
SUBTOTAL FOR IRRIGATION & RAW WATER	22,702	30,026
TOTAL WATER DELIVERIES	125,057	147,226

a- Treatment plant losses calculated based on plant use and evaporation for both JVWTP and SERWTP. Includes SWGWTP by-product flow.

b- Water use and loss from raw water and distribution systems (hydrant and main line flushing, main line breaks, leaks, reservoir cleaning and irrigation of landscaping at Jordan Valley sites).

AWWA's most recent standard (1996) lists <10% as "acceptable" for unaccounted-for water, a term no longer commonly used.

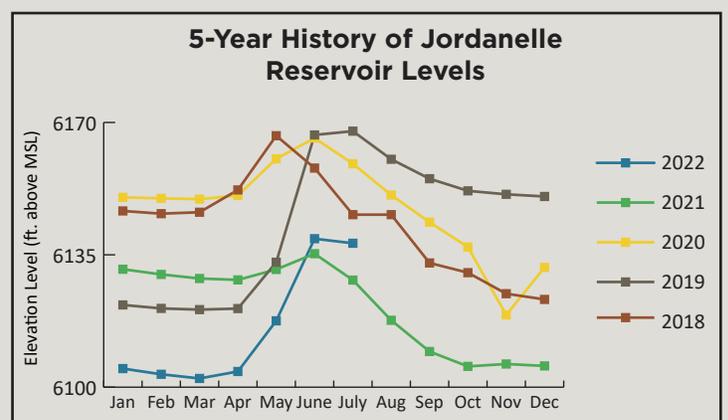
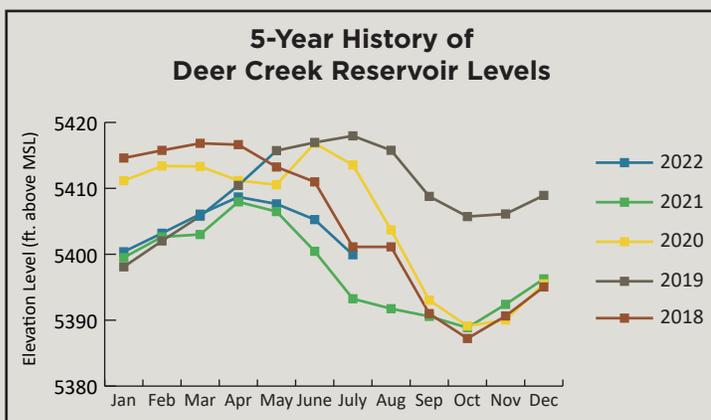
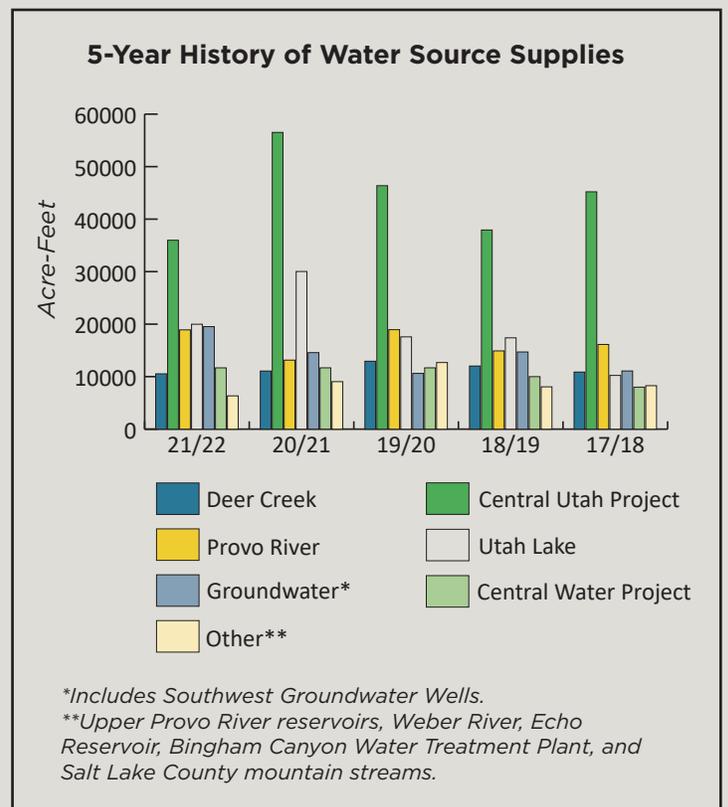
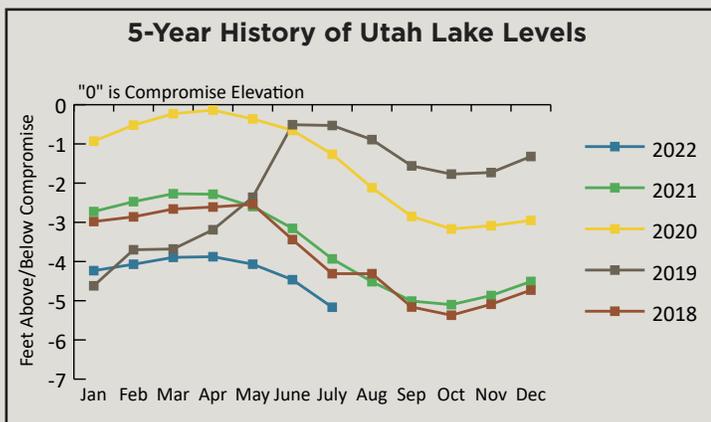
JVWCD's non-revenue water and treatment plant use and loss as a percentage of total water delivered, treated or transported are recorded below:

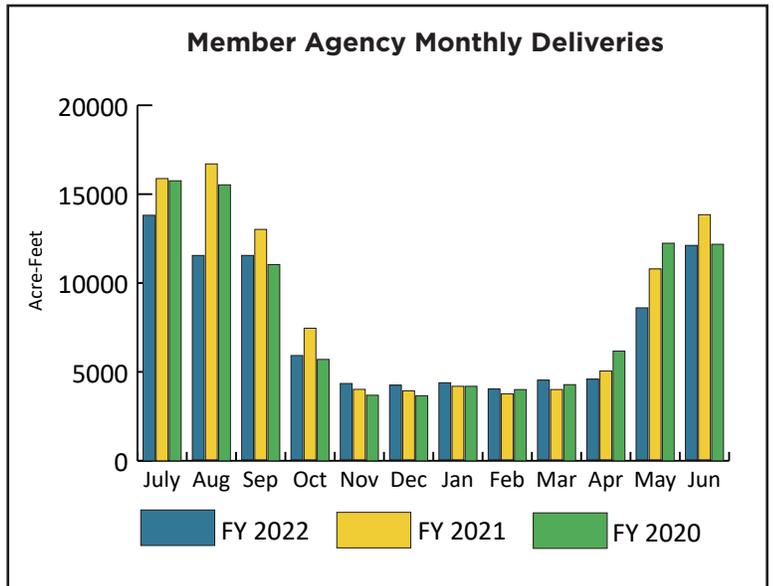
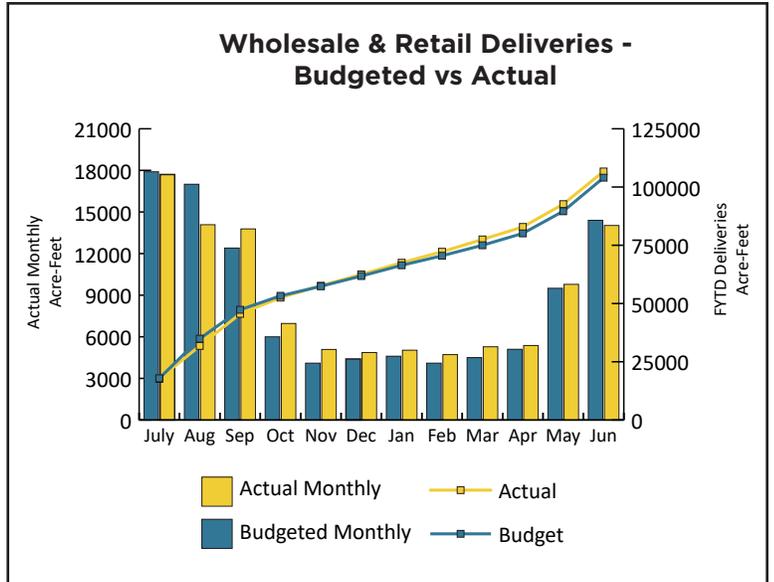
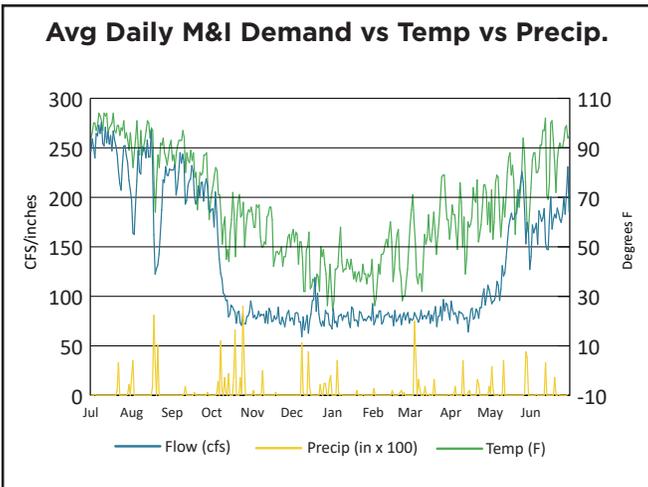
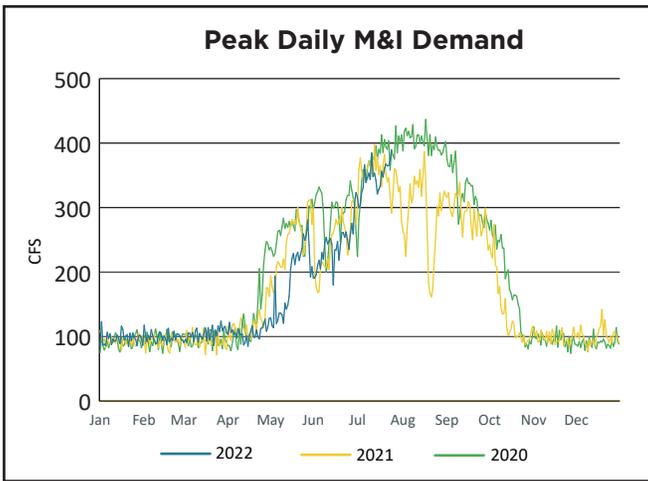
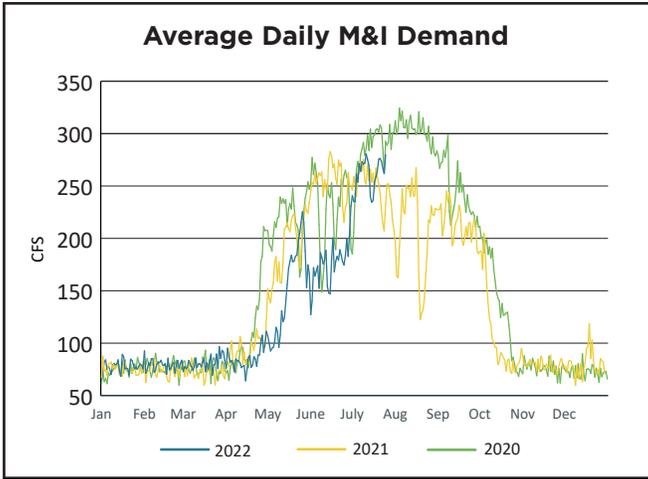
FY 21/22: 5.6%
 FY 20/21: 4.3%
 FY 19/20: 3.3%
 FY 18/19: 3.1%
 FY 17/18: 4.7%



Autumn colors on the Provo River
M. Axelgard

Water Supply History





Contract deliveries are made to JVWCD's 17 wholesale member agencies.

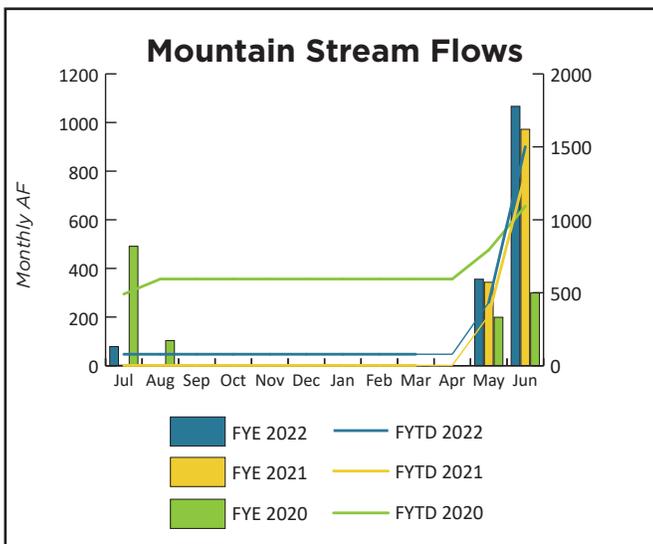
Wholesale Deliveries



Backwash Basin Improvements at JVWTP
D. McLean

Treatment

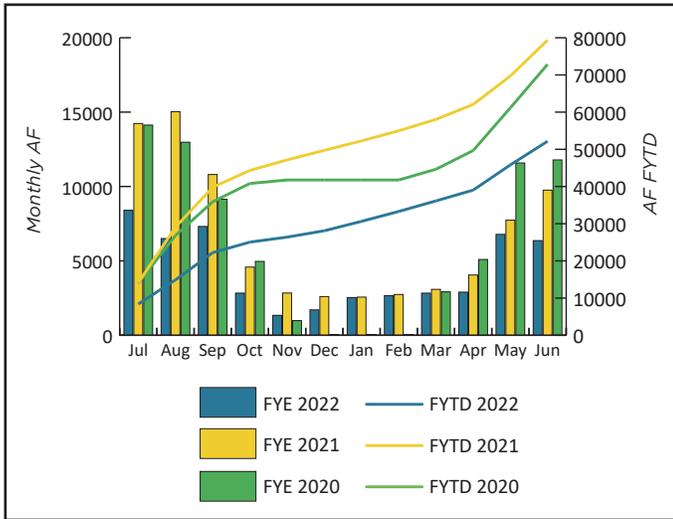
	JVWTP	SERWTP	SWGWTP	TOTALS
<u>General information</u>	<u>21/22</u>	<u>21/22</u>	<u>21/22</u>	<u>21/22</u>
Rated capacity (MGD)	180	20	7	207
Capacity using standby power (MGD)	180	20	0	200
Maximum daily effluent flow (MGD)	133.6	19.8	2.8	156.2
Average daily flow during operation (MGD)	52.1	9.5	2.4	64.0
Percent of fiscal year in operation	93.4	86.0	76.0	
<u>Plant production (acre-feet)</u>				
Total volume into plant	56,809	12,579	4,360	70,487
Plant use & loss	2,942	1,395	1,696	5,434
Total volume treated or injected into distribution	53,867	11,183	2,664	65,052
<u>Direct Treatment O&M costs</u>				
Personnel	\$ 2,477,835	\$ 636,168	\$ 270,868	\$ 3,384,871
Chemicals	1,010,643	204,295	64,438	1,279,376
Utilities	339,056	107,918	239,529	686,503
Materials, Equipment, & Other	<u>106,369</u>	<u>69,307</u>	<u>86,434</u>	<u>223,631</u>
Total treatment expenses	\$ 3,933,903	\$ 1,017,688	\$ 661,269	\$ 5,612,859
Treatment O&M cost per acre-foot delivered to distribution system.	\$ 73.03	\$ 91.00	\$ 248.22	\$ 86.28



*View of the South Valley from SERWTP
at sunrise
A. Kimmerle*



Total Treated Water

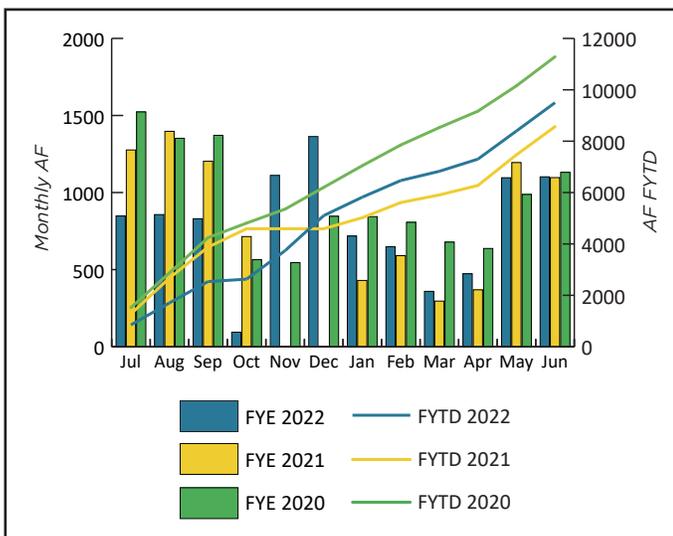


Jordan Valley Water Treatment Plant

JVWTP is a conventional-process treatment plant with a rated capacity of 180 million gallons per day (MGD). Source water for the treatment plant is conveyed from the Provo River at the Olmsted Diversion, through the Jordan Aqueduct. Provo River water may also be diverted at the Murdock Diversion near the entrance of Provo Canyon, and conveyed through the Provo River Aqueduct. JVWTP is operated by Jordan Valley Water on behalf of itself and Metropolitan Water District of Salt Lake & Sandy. The plant is owned 2/7 by MWDSL and 5/7 by JVWCD.

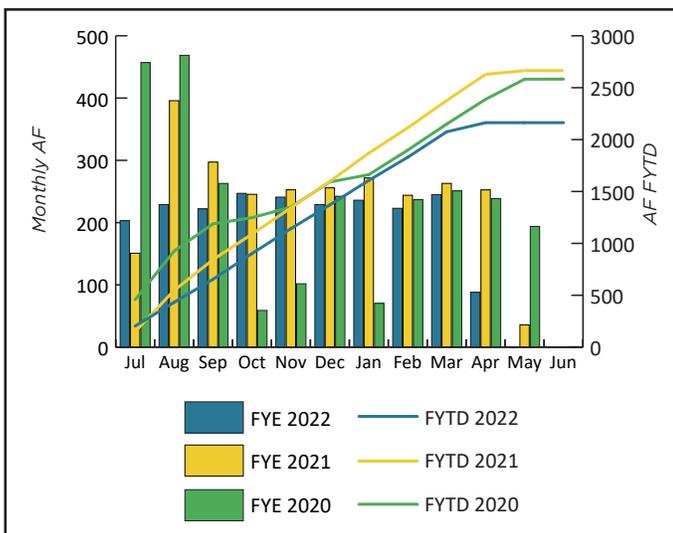
Southeast Regional Water Treatment Plant

With a rated capacity of 20 MGD, SERWTP uses a unique process of high rate clarification to quickly settle suspended solids. The source water for the treatment plant is obtained from multiple sources. A portion of the water is conveyed through the Salt Lake Aqueduct, with the intake located at the base of Deer Creek Dam. The remaining portion of source water comes from snow pack runoff collected into the Draper Diversion from five mountain streams: South Fork, Middle Fork, Bells Canyon, Rocky Mouth, and Big Willow.



Southwest Groundwater Treatment Plant

SWGTP has a rated capacity of 7 million gallons per day. This plant uses reverse osmosis technology to treat mining-contaminated groundwater.

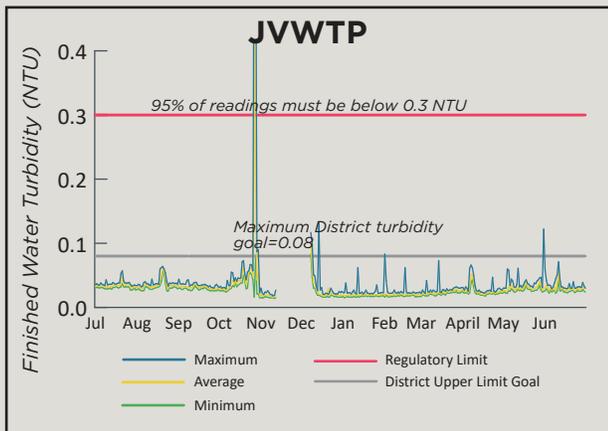


Gaps in graph data for both JVWTP and SERWTP indicate the plant was off-line.

Water Quality

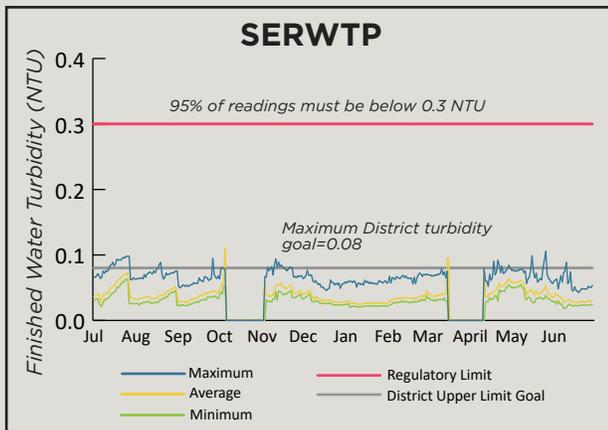
Current regulations for surface water require combined effluent turbidity to be below 0.3 NTU 95% of the time, and to never exceed 1.0 NTU. There are also requirements for individual filters. The Partnership for Safe Water has set a finished water turbidity goal of 0.1 NTU. Jordan Valley Water has adopted even more stringent goals.

Turbidity

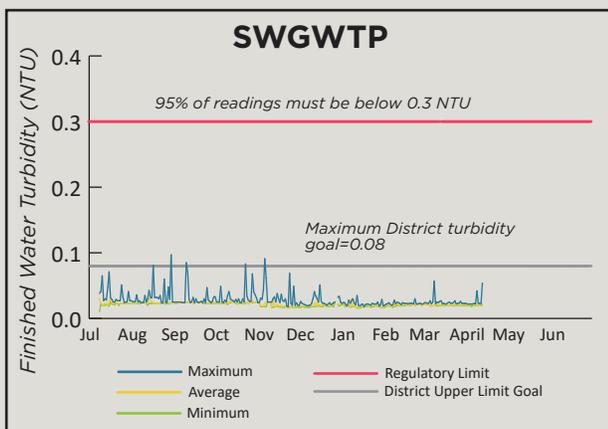


Avg finished water turbidity for the year: 0.030 NTU
Maximum finished water turbidity: 0.789 NTU
Daily District Goal below 0.08 NTU achieved for the year: 91.23%
Record for consecutive days in operation below 0.08 NTU: 198
Current days of operation below 0.08 NTU: 198

The turbidity spike in late October was from much higher than normal raw-water manganese being oxidized after filtration by post chlorination. Individual filter turbidity remained very low; there was no violation of drinking water standards.



Avg finished water turbidity for the year: 0.039 NTU
Maximum finished water turbidity: 0.106 NTU
Daily Goal below 0.08 NTU achieved for the year: 86.5%
Record for consecutive days in operation below 0.08 NTU: 732
Current days of operation below 0.08 NTU: 19



Avg finished water turbidity for the year: 0.02 NTU
Maximum finished water turbidity: 0.10 NTU
Daily Goal below 0.08 NTU achieved for the year: 98.5%
Record for consecutive days in operation below 0.08 NTU: 157*
Current days of operation below 0.08 NTU: 157*

*At press time.

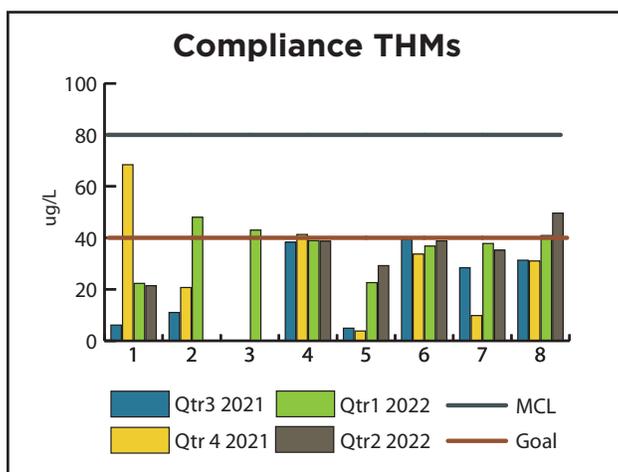
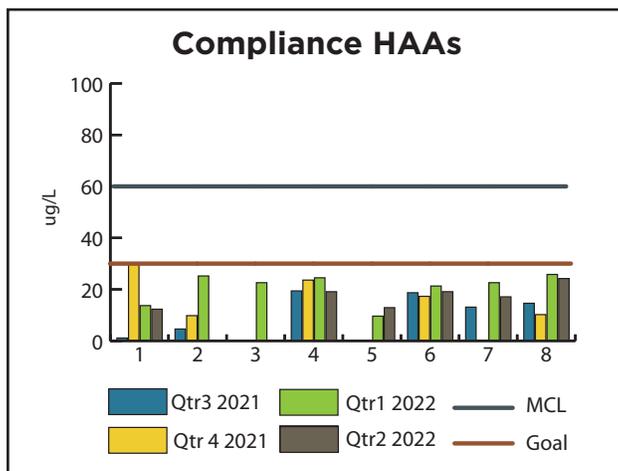
Crew Cleaning 12.5 M gallon
reservoir at JWTP
A. Kimmerle

Disinfection By-Products (DBPs)

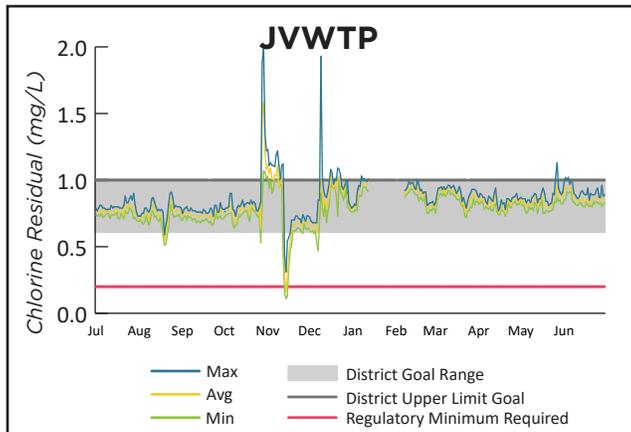
DBP compliance is based on samples taken at points in the distribution system that represent where the highest level of DBPs are likely to occur.

Testing locations:

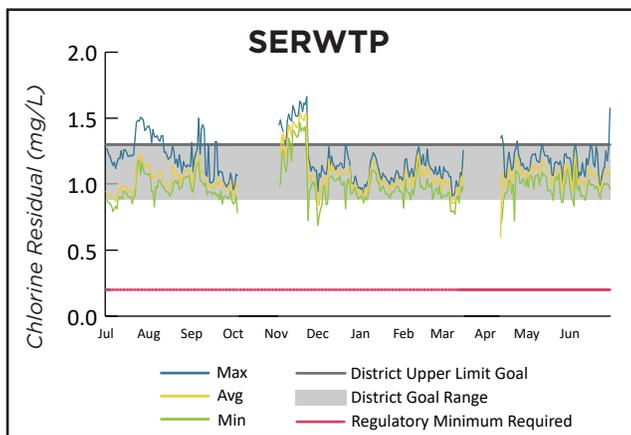
- 1- 13800 S. Pony Express Rd.
- 2- 700 W. 11400 South
- 3- 10730 S. 1300 East
- 4- 3700 W. 2100 South
- 5- 3610 S. 1000 West
- 6- 6000 W. 4700 South
- 7- 5700 W. 10200 South
- 8- 13953 S. Lookout Peak Dr.



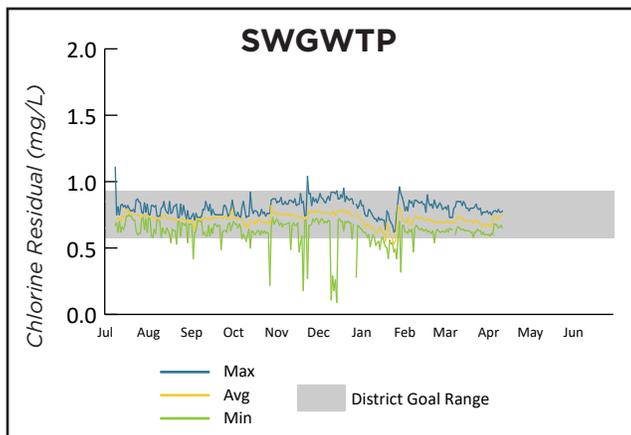
Chlorine Disinfection



Average residual for the year: 0.83 mg/L
 Maximum residual: 1.44 mg/L
 Minimum residual: 0.30 mg/L
 Goal achieved for the year: 84%



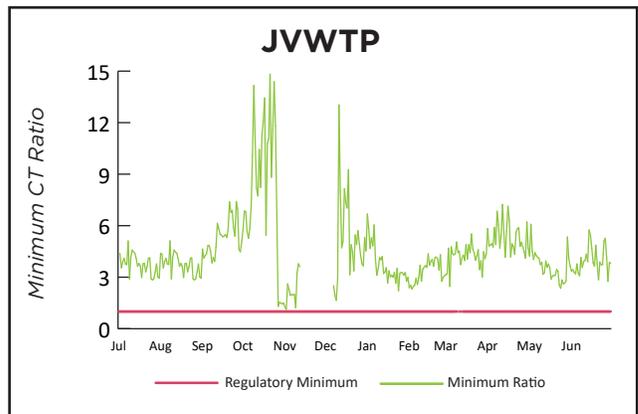
Average residual for the year: 1.07 mg/L
 Maximum residual: 1.66 mg/L
 Minimum residual: 0.69 mg/L
 Goal achieved for the year: 94%



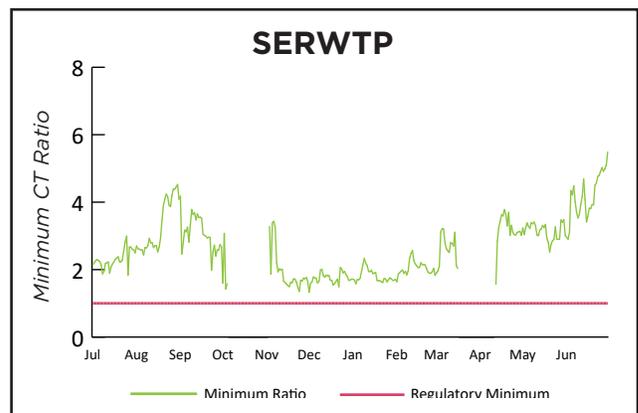
Average residual for the year: 0.72 mg/L
 Maximum residual: 1.11 mg/L
 Minimum residual: 0.09 mg/L
 Goal achieved for the year: 99%

Minimum CT Ratio

Concentration x time (CT) is a measure of disinfection effectiveness which varies with water temperature, pH and disinfectant. Current regulations require sufficient CT to achieve 99.9% inactivation of Giardia and 99.99% inactivation of viruses. Compliance is determined by a CT ratio which compares the amount of CT achieved to the amount required. A minimum CT ratio of 1.0 and a chlorine residual of 0.2 mg/L is required.



Average CT ratio for the year: ???
 Minimum CT ratio for the year: ???



Average CT ratio for the year: 3.02
 Minimum CT ratio for the year: 1.33

SWGWTP does not report CT because groundwater not under the influence of any surface water is not required to report this measurement.

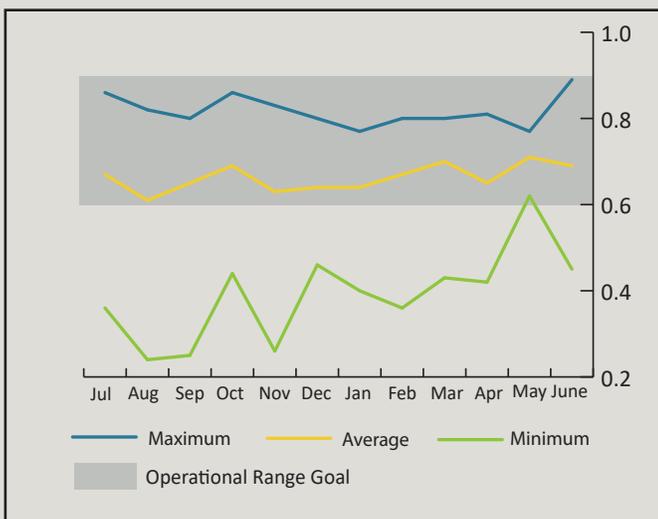
Total Coliform Rule & Chlorine Residuals

Month	Samples analyzed*	% Samples total coliform positive	# Samples fecal coliform positive	# HPC Samples Taken	# GWR Samples Taken	Free Chlorine Residual		
						Avg (mg/L)	Max (mg/L)	Min (mg/L)
July	122	1	0	0	33	0.62	1.16	0.10
August	133	0	0	3	10	0.64	1.15	0.10
Sept	128	0	0	1	0	0.62	1.24	0.03
October	108	0	0	0	5	0.57	1.16	0.12
Nov	112	0	0	0	0	0.81	1.58	0.26
Dec	112	0	0	0	0	0.71	1.71	0.18
January	133	0	0	0	0	0.72	1.18	0.08
February	125	0	0	0	0	0.70	1.19	0.07
March	121	0	0	0	0	0.64	1.07	0.20
April	104	0	0	0	0	0.65	1.39	0.15
May	121	0	0	0	0	0.76	1.25	0.12
June	119	0	0	1	0	0.73	1.24	0.02
Totals	1438	1	0	5	48			

* The number of samples collected and tested depends on the population served.

Maximum contaminant level for the total coliform rule is <5% present for total coliforms for the routine samples collected. All repeat samples were negative; there are no violations.

Fluoride Data



Fluoride is regulated on a county-wide basis by the Salt Lake Valley Health Department. Regulatory compliance is based on a system-wide annual average with a target of a daily average of 0.7 mg/L staying within the Operational Control Range of 0.6-0.9 mg/L.



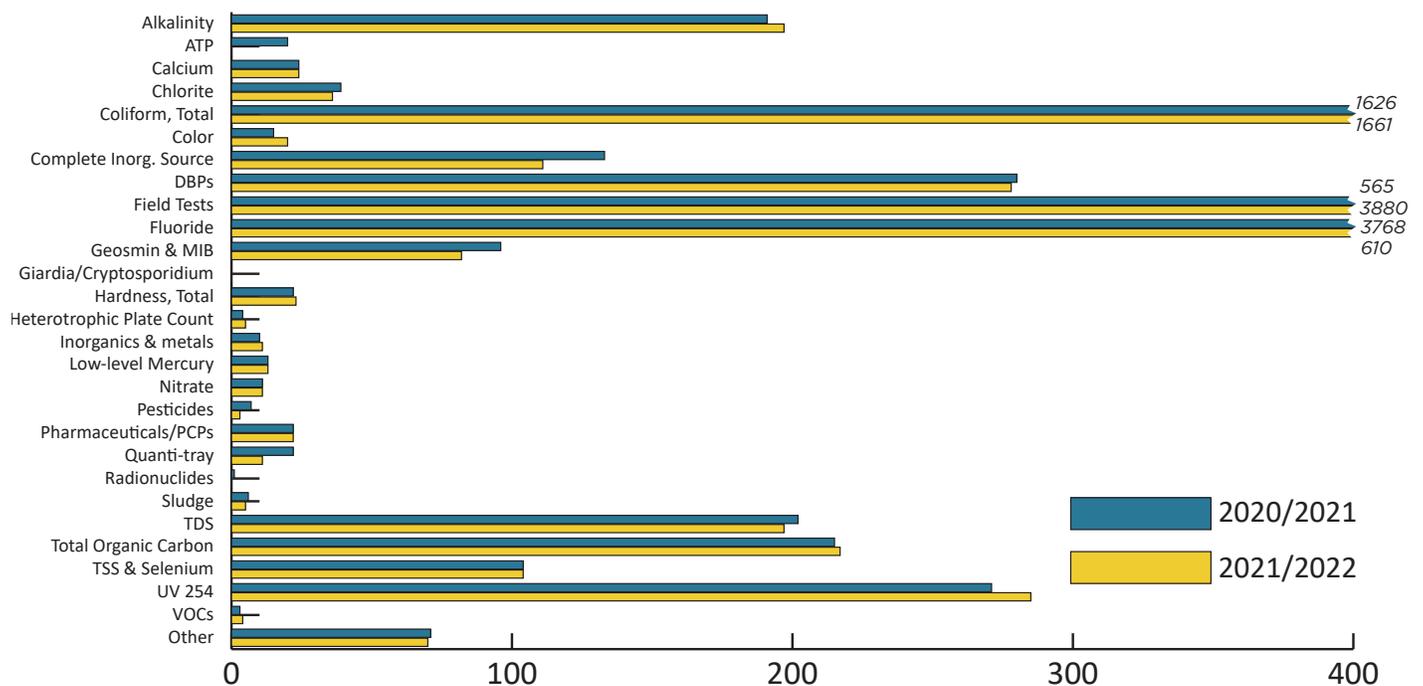
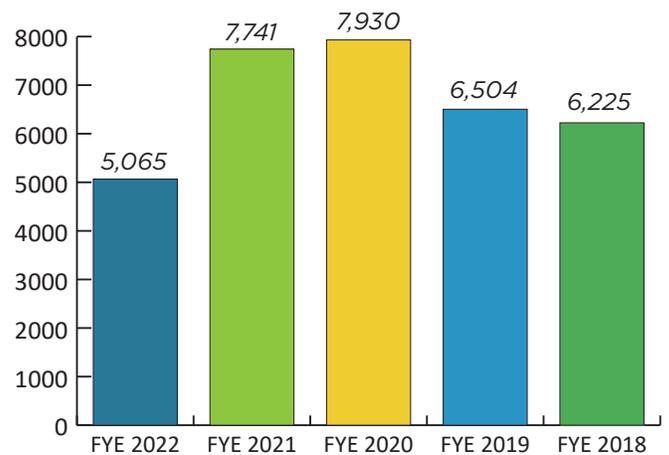


Total Samples Collected

Sampling sites include JVWTP, SERWTP, SWGWTP, distribution system, mountain streams, Jordan & Provo Rivers, and various sites in response to customer calls.

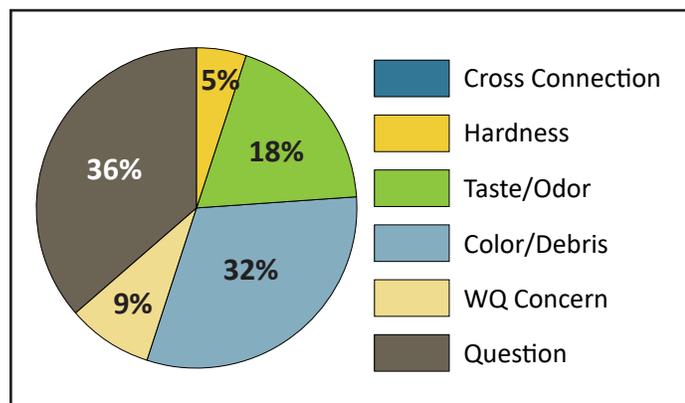
Data includes samples collected by Operations and Water Quality Section personnel.

- Radionuclides = Radium 226 & 228, Gross Alpha, Gross Beta.
- "Other" = Nitrite sample for injection activity and sludge sample.



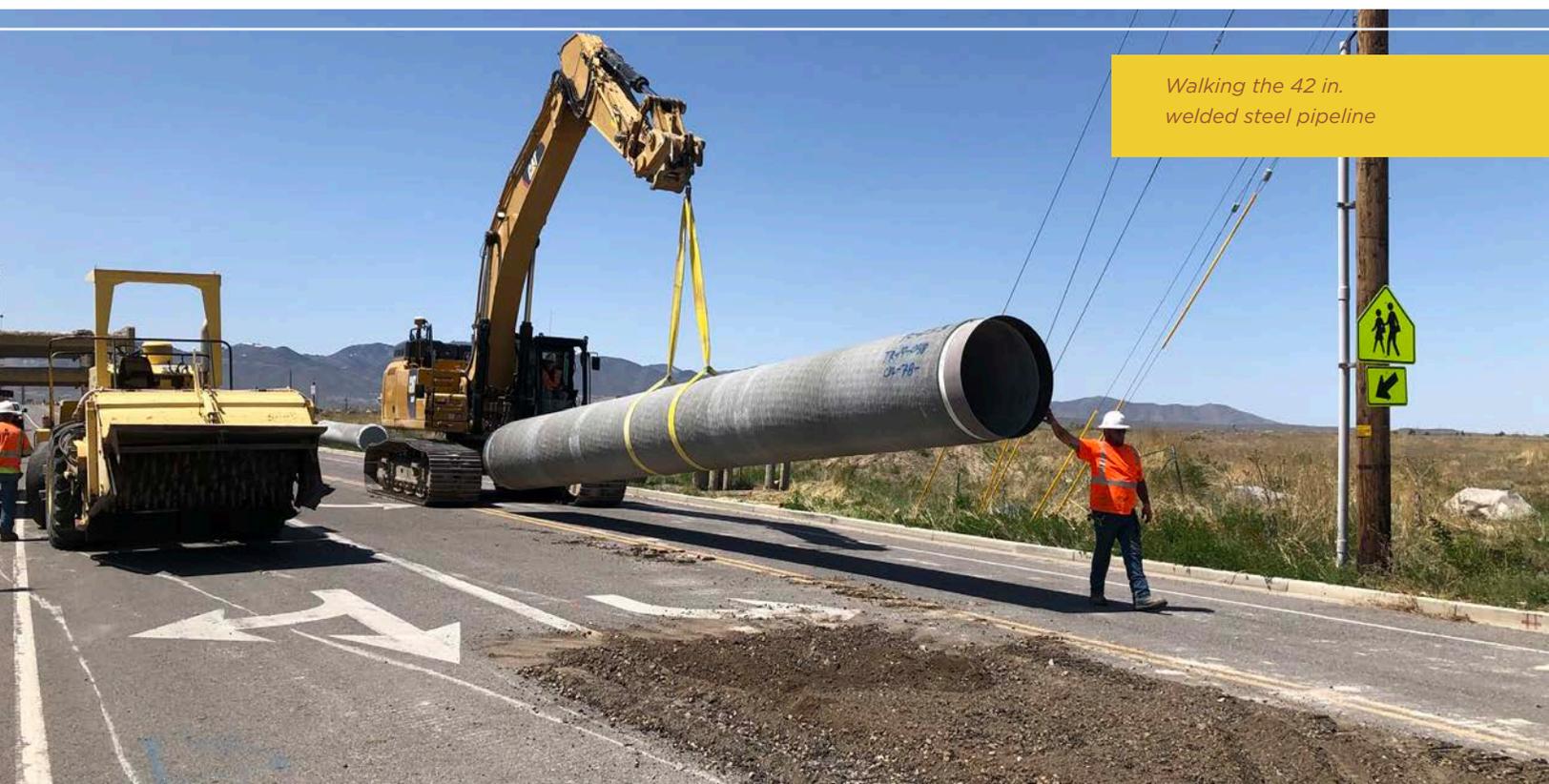
Water Quality Customer Call Data

Type of Call	Jul - Sep	Oct - Dec	Jan - Mar	Apr - June	FYTD
Cross Connection	0	0	0	0	0%
Hardness	0	0	0	1	5%
Taste/Odor	0	1	2	1	18%
Color/Debris	3	0	2	2	32%
WQ Concern	1	0	1	0	9%
Question	2	2	1	3	36%
Total Calls	6	3	6	7	22



WQ Calls by Type Total Calls

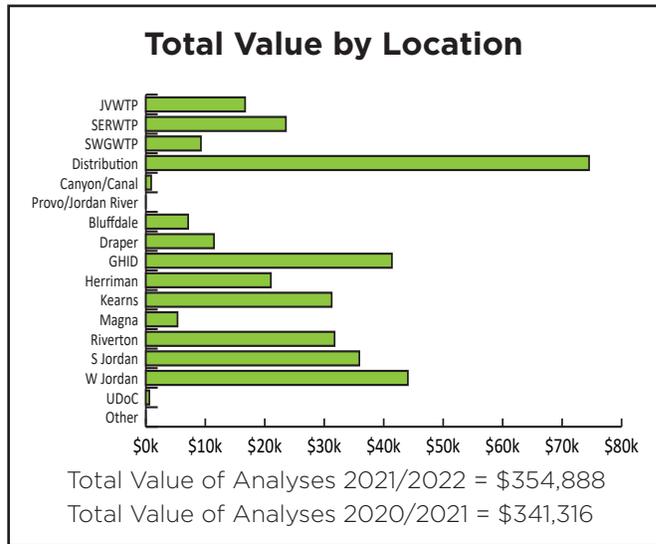
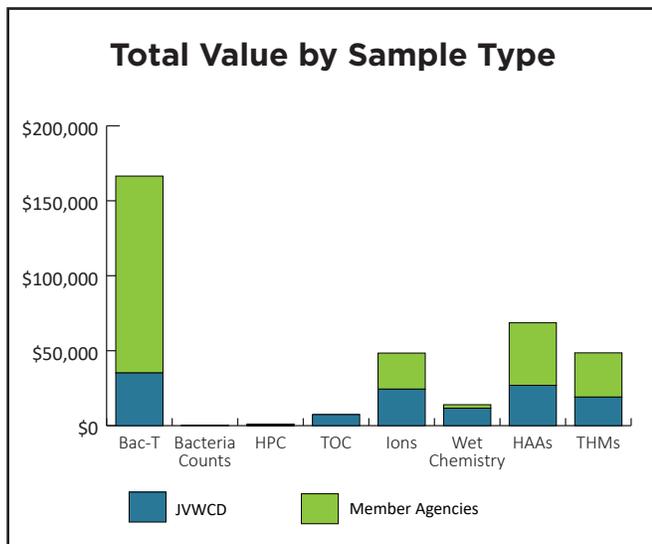
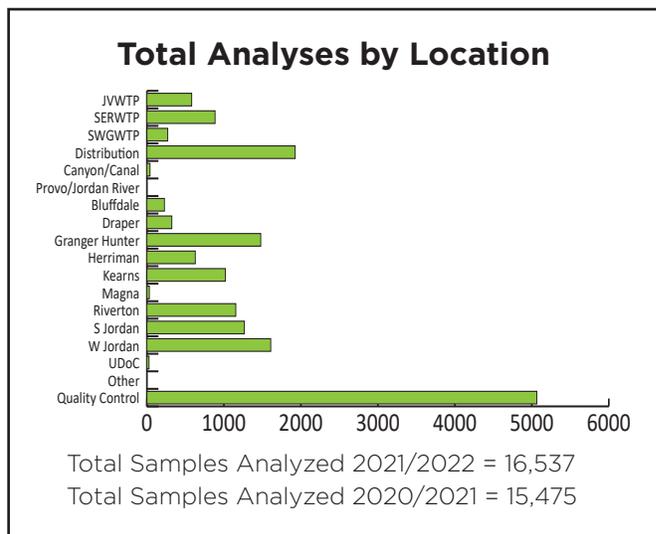
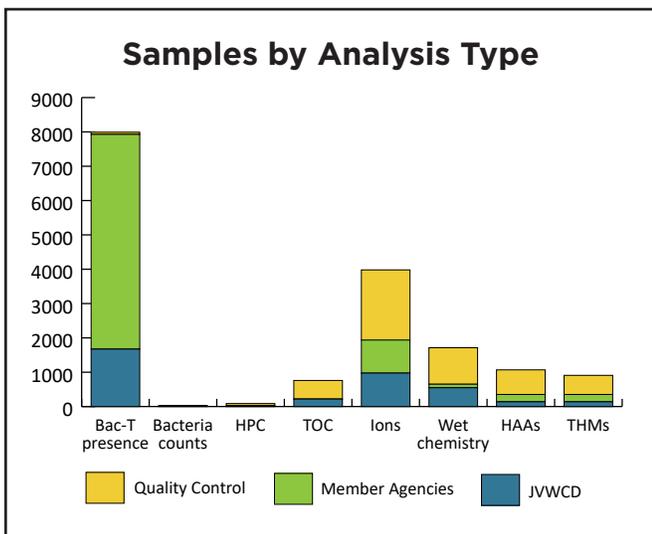
The public perceives water quality as the look, taste and feel of their water. The experience a resident has when he or she calls with a concern, question, or complaint helps determine Jordan Valley Water's credibility in the community. These calls are logged and tracked in a database, which allows us to determine response time and trends. A summary of the types of calls received is shown.



Walking the 42 in.
welded steel pipeline

Laboratory

The Laboratory (Lab) provides analytical services and general support for several departments of the District. This allows the District to lower the budget required for outside analysis and provide customized service. While it is not feasible for the Lab to run every test required for the District's various monitoring programs, it does maintain certification for the analyses that represent the largest load. The Lab also provides analytical services for many of the District's member agencies at discounted prices.



Groundwater

Location	Design Capacity (cfs)	Well Setting Level (ft)	Flow rate w/ stand-by or portable generators (cfs)	2021/22 Avg Flow Rate (cfs)	2021/22 Days in Operation	2021/22 Annual Production (AF)	2020/21 Annual Production (AF)	2019/20 Annual Production (AF)	2021/22 Total Power Cost	2021/22 Average Cost/AF	2021/22 Water Level (feet above pump)		
											Avg	Max	Min
275 E. Carol Way	2.9	460	N/A	1.71	104	352	33	0	\$ 18,419.52	\$ 52.32	318	354	208
300 E. 4500 South	0.7	200	N/A	0.00	0	0	0	0	\$ 28.31	\$ 0.00	0	0	0
1028 E. College St.	4.0	400	N/A	2.16	61	261	208	371	\$ 22,563.44	\$ 86.47	349	367	282
1155 E. Webster Dr.	9.0	465	N/A	0.00	0	0	1094	0	\$ 2,773.80	\$ 0.00	157	175	132
1159 E. 4500 South	2.2	282	N/A	1.22	9	22	142	0	\$ 1,883.69	\$ 86.38	225	242	19
1200 E. 9400 South	1.8	480	N/A	0.00	0	0	0	0	\$ 416.64	\$ 0.00	144	163	118
1307 E. 6860 South	4.7	322	N/A	4.59	82	746	965	967	\$ 51,817.40	\$ 69.43	285	361	97
1368 E. 6400 South	6.0	265	6.0 ^a	3.03	228	1,372	105	927	\$ 72,651.39	\$ 52.95	108	347	33
1500 E. 9400 South	9.5	640	N/A	9.22	140	2,560	533	86	\$ 240,706.05	\$ 94.04	138	177	76
1526 E. 8600 South	8.5	580	N/A	8.56	91	1,545	506	73	\$ 102,152.08	\$ 66.12	145	188	47
1530 W. 14600 South	4.5	150	N/A	3.63	12	86	0	338	\$ 8,716.34	\$ 101.02	145	149	89
1600 E. Siesta Drive	9.6	422	N/A	7.44	107	1,579	382	1,276	\$ 103,304.36	\$ 65.42	157	206	53
1784 E. Creek Rd	7.1	700	N/A	7.54	75	1,121	1,963	1,256	\$ 89,876.49	\$ 80.18	342	394	145
1787 E. Creek Rd	5.0	440	N/A	0.00	0	0	0	0	\$ 2,385.66	\$ 0.00	160	160	158
1850 E. Newbury Dr.	8.9	620	8.9 ^a	6.83	90	1,219	837	0	\$ 117,944.97	\$ 96.73	215	249	111
2090 E. 8600 South	2.5	520	N/A	0.00	0	0	0	0	\$ 2,584.32	\$ 0.00	350	460	0
2300 E. 9800 South	4.1	760	N/A	0.00	0	0	0	0	\$ 2,208.14	\$ 0.00	161	161	161
2500 E. Creek Rd	2.8	440	N/A	2.44	111	536	380	284	\$ 29,861.52	\$ 55.69	83	95	60
4670 S. 1590 East	3.8	450	N/A	0.00	0	0	168	389	\$ 1,735.61	\$ 0.00	425	435	410
7700 S. 700 East	5.6	375	N/A	0.00	0	0	0	188	\$ 471.60	\$ 0.00	199	218	176
7750 S. 1000 East	3.1	401	N/A	2.28	53	240	23	0	\$ 15,973.85	\$ 66.58	252	370	0
7751 S. 1300 East	4.0	402	N/A	2.79	44	243	0	0	\$ 18,871.10	\$ 77.62	129	152	83
8148 S. 1330 East	7.0	505	N/A	6.66	67	885	1073	0	\$ 69,478.66	\$ 78.47	186	233	70
8200 S. 1000 East	2.0	356	N/A	0.00	0	0	0	0	\$ 195.03	\$ 0.00	164	185	134
8201 S. 700 East	2.2	444	N/A	2.28	105	474	299	0	\$ 32,269.41	\$ 68.05	194	260	39
8518 S. 960 East	6.0	460	N/A	5.47	36	391	0	240	\$ 1,354.48	\$ 3.47	192	208	17
8578 S. Monitor Dr.	8.0	530	8.0 ^a	7.97	80	1,264	1042	0	\$ 140,274.81	\$ 110.96	145	171	90
8651 S. 1300 East	4.0	550	N/A	0.00	0	0	0	0	\$ 224.83	\$ 0.00	170	170	170
9003 S. Quail Hollow	2.2	800	N/A	1.97	113	442	414	0	\$ 51,301.43	\$ 115.97	159	207	25
9125 S 500 West	2.0	150	N/A	0.00	0	0	0	0	1,307.24	0.00	0	0	0
9390 S. Solena Way	4.8	635	N/A	4.02	111	885	52	0	\$ 71,333.62	\$ 80.59	196	245	102
Prison Well ^c	0.9	N/A	N/A	0.51	64	65	122	492	\$ 0.00	\$ 0.00	0	0	0
	148.4					16,290	10,219	6,395 ^b	\$ 1,273,085.79	\$ 47.14			

Note: Cost per AF and water levels are a fiscal year average; all information based on a "power read" month.

a) Requires portable generators.

b) This number is taken from monthly power reads and is different from the monthly numbers reported on page 4 because of fluctuating power month reads.

c) Owned by the Utah State Department of Corrections (not included in Totals/ Avgs). Power costs paid by the Utah State Department of Corrections.

d) Numbers have been updated to reflect better data collection.

Booster Pumps

Zone (SCADA ID)	Location	Capacity (cfs)	Flow rate w/standby or portable generators (cfs)	Total Horsepower	Average Dynamic Lift (ft)	Total Pumped (AF)	Total Capacity (cfs)
A So. (N/A)	4706 Naniloa Drive	12.0	N/A	300	N/A	0.00	12.0
B No. (6)	4500 S. 4800 West	63.8	14.0	1625	200	22,405	242.8
B No. (6)	6200 S. 3200 West	41.0	12.0	1500	180		
B No. (6)	5820 S. 3800 West	24.0	14.0*	650	180		
B No. (14)	3145 W. 11400 South	42.0	9.3*	900	110		
B So. (4)	3600 W. 10200 South	44.0	5.0*	2000	350		
B E. (3)	110 E. 11400 South	28.0	8.0	1200	320		
C So. (2)	13400 S. 3300 West	40.0	10.0*	2400	495	18,933	147.8
C So. (2)	3200 W. 11800 South	55.0	17.8	3900	495		
C So. (2)	5700 W. 10200 South	22.8	N/A	750	240		
C So. (N/A)	15305 S. 3200 West	8.0	4.0	400	280		
C E. (3)	10730 S. 1300 East	22.0	N/A	400	100		
D So. (1)	6924 Old Bingham Hwy	25.0	12.0	800	280		
Totals/Averages:		427.6	106.1	16,825	269	43,162	

Zone (SCADA ID)	Location	Average Flow Rate (cfs)	2021/22 Annual Production (AF)	2020/21 Annual Production (AF)	2019/20 Annual Production (AF)	Total Power Cost	Average Cost/AF	Days of Operation
A So. (N/A)	4706 Naniloa Drive	0.0	0	0	0	\$ 2,778	\$ N/A	N/A
B No. (6)	4500 S. 4800 West	9.5	6,868	7,172	7,308	\$ 150,206	\$ 20.61	341
B No. (6)	6200 S. 3200 West	11.6	8,359	8,221	8,973	\$ 150,463	\$ 18.75	329
B No. (6)	5820 S. 3800 West	3.7	2,655	3,985	3,298	\$ 67,023	\$ 23.81	217
B No. (14)	3145 W. 11400 South	0.0	0	4,201	5,606	\$ 3,876	\$ 22.97	150
B So. (4)	3600 W. 10200 South	6.3	4,523	5,883	4,774	\$ 162,489	\$ 35.10	289
B E. (3)	110 E. 11400 South	0.0	0	301	755	\$ 4,450	\$ 42.41	77
C So. (2)	13400 S. 3300 West	5.5	3,968	6,921	5,643	\$ 167,183	\$ 40.68	327
C So. (2)	3200 W. 11800 South	11.1	8,063	10,254	10,437	\$ 403,512	\$ 47.41	363
C So. (2)	5700 W. 10200 South	2.6	1,888	2,717	1,665	\$ 66,323	\$ 30.16	252
C So. (N/A)	15305 S. 3200 West	0.0	0	1,242	1,201	\$ 0	\$ 29.00	365
C E. (3)	10730 S. 1300 East	6.9	5,014	1,111	62	\$ 64,635	\$ 16.79	39
D So. (1)	6924 Old Bingham Hwy	2.5	1,824	1,754	1,022	\$ 77,995	\$ 51.40	290
Totals/Averages:		59.62	43,161	53,762	50,744	\$ 1,320,933	\$ 31.59	253

Note: Cost per AF is a fiscal year average; all information is based on a "power read" year.

* Requires portable generators.

** Numbers have updated to reflect better data collection.

ASR/Conjunctive Management

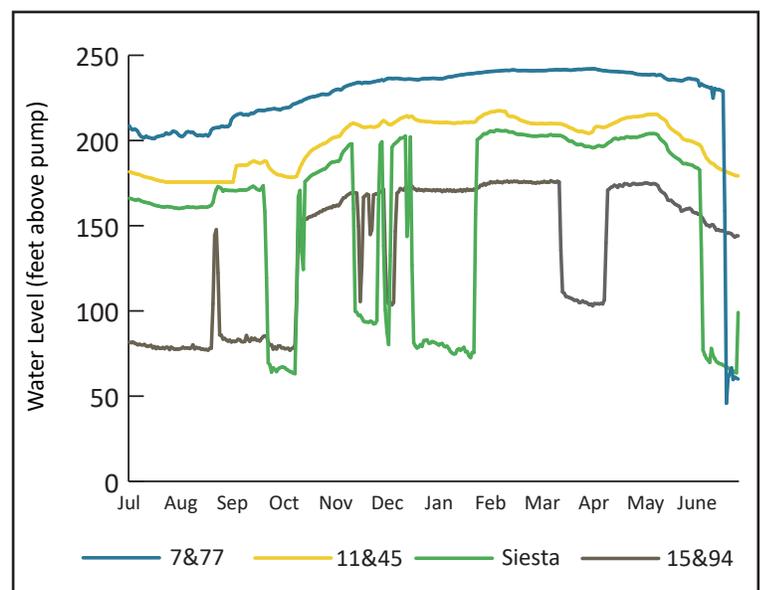
	Volume Injected (AF)	108th So. (north flow)	Total (AF)	Net Saved	Total Well Production
Jul	0.00	0.00	0.00	0.00	3,165.22
Aug	0.00	0.00	0.00	0.00	2,512.24
Sep	0.00	0.00	0.00	0.00	2,363.39
Oct	0.00	0.00	0.00	0.00	1,773.62
Nov	0.00	0.00	0.00	0.00	623.14
Dec	0.00	0.00	0.00	0.00	597.38
Jan	0.00	0.00	0.00	0.00	585.34
Feb	0.00	0.00	0.00	0.00	292.37
Mar	13.18	0.00	13.18	0.00	918.96
Apr	0.00	0.00	0.00	0.00	685.06
May	0.00	0.00	0.00	0.00	629.29
June	0.00	0.00	0.00	0.00	2,078.53
Yearly Total	13.18	0.00	13.18	0.00	16,224.52

10800 S 1300 E flow control/pump station is located on the 30-inch pipeline on 1300 East between 11400 South and 9400 South. This pipeline and station allow Jordan Valley Water to convey water from either of its treatment plants to areas that before could only be fed by running wells (or buying water from MWDSLs). Any water from the treatment plants serving areas north through this station is considered “saved water” in Jordan Valley Water’s conjunctive management agreement with Central Utah Water Conservancy District.

ASR Water Quality Summary

Monitoring and reporting for the Aquifer Storage & Recovery (ASR) project is regulated by the Division of Water Quality’s Underground Injection Control permitting process. The water injected at each of the injection wells comes from either the JVWTP or SERWTP and meets all drinking water regulations since the water is injected directly from the distribution system.

This graph shows a year’s sample of ground water levels at four of Jordan Valley Water’s wells. We have been monitoring well levels to see if the aquifer is recovering each year. Natural recovery occurs in the winter, with more drawdown in the summer.



Address (informal)	Steel	Concrete	Year Built	Elevation (ft)	
				Floor	Ovfl
14445 S Minuteman Dr (Prison)		W-400k	1950	4640	4652
		E-200k	1930		
11574 S Wyndcastle (SERWTP)		1 MG	1983	4992	5012
		3 MG	2003	4994	5016
15305 S 3200 W (JVWTP)		1 MG	1974	4967	4983
		8 MG	1974	4703	4725
	1 MG		1974	4773	4805
		12.5 MG	2016	4703	4724
14408 S 5600 W (Rosecrest)		3 MG	2000	5120	5148
3815 W 5820 S (Terminal)		16.5 MG	1984	4580	4610
		16.5 MG	1984		
		33 MG	1997		
		33 MG	1997		
7986 W New Bingham Hwy (Zone D) basins 1 & 2		3 MG	2008	5355	5375
		3 MG			
2718 E Durban Rd (2300 E 9400 S)	1 MG		1956	4936	4968
	2 MG		1964		
9785 S Eastdell Dr (2300 E 9800 S)		6 MG	1970	4947	4968
4772 S Naniloa Dr (Casto Reservoir)		2 MG	1962	4588	4608
6171 S 3200 W (32 & 62)	8 MG		1968	4565	4605
	2 MG (E)		1961		
	2 MG (W)		1964		
5211 W 6200 S (52 & 62)		2 MG	1962	4720	4740
6011 W 4700 S (60th West)	1 MG		1956	4714	4740
		2MG	1962		
		6 MG	1966		
4408 S 4800 W (48th & 45th)	1 MG		1956	4458	4498
	2 MG		1956		
	5 MG (E)		1965		
	5 MG (W)		1969		
3582 W 10200 S (36 & 102)		3 MG	1981	4635	4663
5705 W Old Bingham Hwy (57 & 102)		3 MG	1981	4931	4959
6898 W Old Bingham Hwy (Old Bingham)		3 MG	1976	5128	5148

System Storage

Reservoirs are scheduled for inspection every three years, which includes cleaning, inspecting, and making repairs as necessary. Inspections are performed by District staff and an outside licensed engineering contractor.

Every winter at least one section of the Terminal Reservoir is taken out of service for inspection, cleaning, and repairs.

SERWTP pre-sedimentation basin
E. Estrada

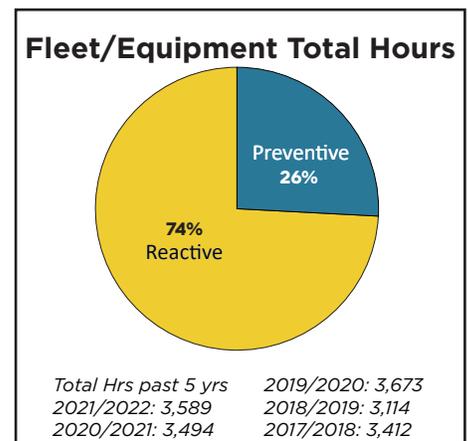
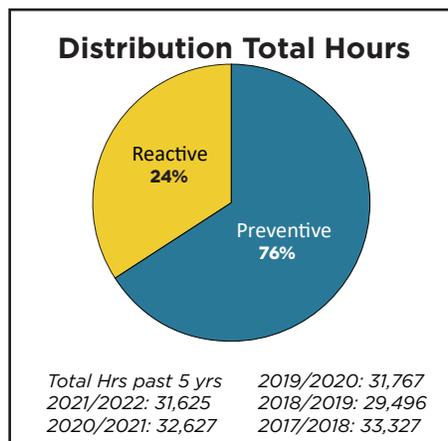
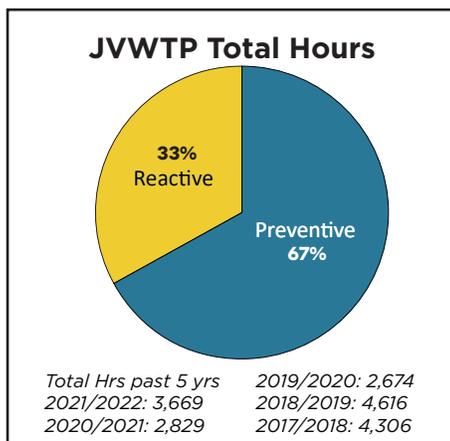
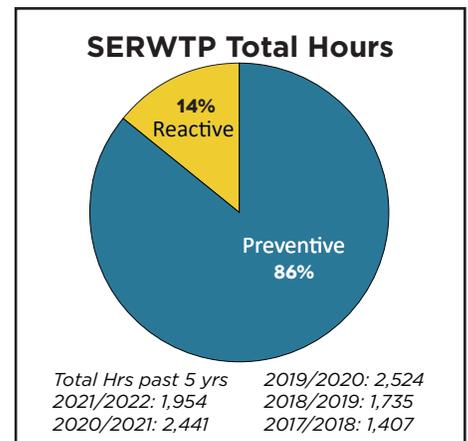
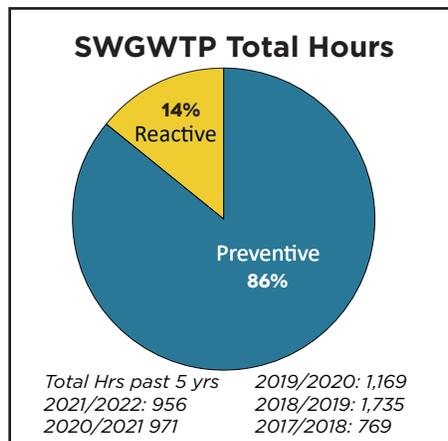
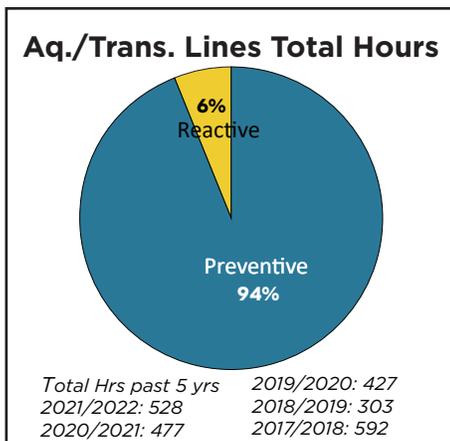
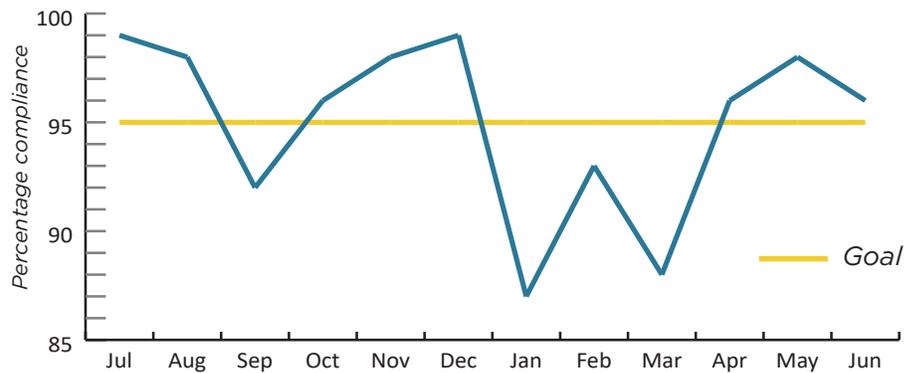


Maintenance

Preventive vs. Reactive Maintenance

By focusing on planned, predictive, and preventive maintenance (PM), Jordan Valley Water is reducing unscheduled downtime and avoidable failures that significantly increase costs and reduce reliability of equipment and services. Part of this effort is to ensure staff follows all manufacturer recommended PM programs and completes this critical work on time (within 30 days of the assigned due date). The District schedules and tracks all of its PM and has a goal of completing at least 95% of this work on time.

Preventive Maintenance Percent Achieved by Month
(on-time Maintenance)



Installing the pig launch section at Jordan
Aqueduct Reach 1
C. Bee



Vehicle Summary

VEH#	YEAR	Make & Model	End Odom.	Fuel (gallons)	Miles Driven	MPG	Fuel/Fees	Maint. Costs FYTD
Operations								
203	2009	Chevy 1/2-Ton 4x4 Pickup	123,945	704	8,765	12.4	\$2,190.34	\$228.34
238	2005	Chevy 1/2-Ton Pickup	124,206	770	10,408	13.5	\$2,371.53	\$954.63
246	2008	Chevy 3/4-Ton 4x4 Pickup	110,445	609	7,260	11.9	\$2,003.45	\$169.83
700	2011	Dodge Nitro 4x4 SUV	113,864	54	561	10.4	\$139.67	\$92.66
703	2014	Ford 1/2-Ton Ext-Cab Pickup	104,172	849	10,644	12.5	\$2,644.83	\$297.79
709	2015	Chevy CO 1/2-Ton Pickup	53,911	499	7,735	15.5	\$1,545.91	\$483.02
712	2015	Chevy 1/2-Ton 4x4 Pickup	79,296	670	8,596	12.8	\$2,107.30	\$350.42
715	2015	Ford Explorer 4x4 SUV	45,479	452	8,641	19.1	\$1,537.16	\$273.87
716	2015	Ford Explorer 4x4 SUV	57,994	593	11,021	18.6	\$1,902.44	\$173.12
718	2016	Ford 1/2-Ton 4x4 Pickup	78,100	676	9,846	14.6	\$2,173.24	\$278.24
720	2016	Ford 1/2-Ton 4x4 Pickup	54,488	694	9,731	14.0	\$2,206.81	\$202.57
723	2016	Ford Explorer 4x4 SUV	61,510	459	9,477	20.7	\$1,793.50	\$178.24
727	2018	Dodge 1/2-Ton 4x4 Pickup	42,673	771	10,809	14.0	\$2,411.14	\$67.79
728	2018	Dodge 1/2-Ton 4x4 Pickup	25,214	404	6,813	16.9	\$1,079.79	\$66.79
732	2019	Dodge 1/2-Ton 4x4 Pickup	30,355	915	11,707	12.8	\$2,949.13	\$31.79
734	2019	Dodge 1/2-Ton 4x4 Pickup	22,940	587	10,340	17.6	\$1,999.46	\$46.90
735	2019	Toyota Rav 4 SUV	20,721	106	3,779	35.7	\$349.40	\$156.90
746	2021	Toyota Rav 4 SUV	4,436	103	4,436	43.0	\$338.17	\$79.95
	Totals	18 Vehicles	N/A	9,913	150,569	15.2	\$31,743.27	\$4,132.85

Administration/Engineering/Conservation								
211	2003	Chevy 1/2 Ton Pickup	120,700	277	3,920	14.2	\$840.16	\$170.92
702	2011	Dodge 1/2 Ton Dbl Cab	137,589	472	6,995	14.8	\$1,553.99	\$59.40
704	2014	Ford Explorer 4x4 SUV	113,714	273	4,913	18.0	\$958.55	\$324.40
725	2015	Ford Explorer 4x4 SUV	35,768	449	6,569	14.6	\$1,093.22	\$80.13
731	2018	Ford Fusion Sedan	19,687	129	5,223	40.6	\$426.39	\$200.15
	Totals	5 Vehicles	N/A	1,600	27,620	17.3	\$4,872.31	\$835.00

IS/Electronics & Instrumentation								
228	2009	Chev 3/4-Ton Pickup	129,512	597	7,242	12.1	\$1,899.64	\$362.89
229	2009	Chev 3/4-Ton Pickup	139,589	1,297	18,024	13.9	\$4,173.61	\$106.73
256	2008	Chev 3/4-Ton Pickup	123,671	595	6,694	11.2	\$2,064.81	\$587.42
710	2015	Ford 3/4-Ton Pickup	66,272	623	7,044	11.3	\$2,037.22	\$204.60
717	2015	Ford Explorer 4x4 SUV	44,589	329	6,893	21.0	\$1,076.99	\$118.96
740	2020	Ford 3/4-Ton Utility Truck	14,115	716	7,868	11.0	\$2,314.70	\$46.20
741	2020	Ford 3/4-Ton Utility Truck	21,841	1,007	12,623	12.5	\$3,255.83	\$35.00
	Totals	7 Vehicles	N/A	5,163	66,388	12.9	\$16,822.80	\$1,461.80

Maintenance								
202	2009	Chevy 1/2-Ton 4x4 Pickup	123,716	933	14,664	15.7	\$2,698.88	\$106.73
257	2008	Chevy 1/2-Ton Pickup	122,805	634	9,090	14.3	\$1,812.66	\$106.73
259	2008	Chevy 1/2-Ton 4x4 Pickup	89,939	744	5,874	7.9	\$2,081.64	\$71.73
311	2009	Dodge 1-Ton Dump Truck	100,143	729	5,360	7.4	\$2,291.07	\$877.98
409	2004	Nat 4400 Dump Truck	60,171	522	3,039	5.8	\$1,721.53	\$345.27
410	2009	Nat 7600 Dump Truck Ten W	61,051	1,419	4,491	3.2	\$4,388.12	\$2,680.85
411	2009	Nat 7600 Dump Truck Ten W	61,410	1,686	5,911	3.5	\$4,938.61	\$1,244.92
412	2015	Nat 7600 Dump Truck Ten W	30,260	1,259	4,350	3.5	\$4,136.77	\$1,000.78
413	2018	Mack GU713 Vector Truck	18,486	1,807	3,525	2.0	\$5,787.42	\$171.86
701	2011	Dodge 1/2-Ton 4x4 Pickup	134,001	676	9,274	13.7	\$1,971.98	\$510.54
705	2014	Ford 1/2-Ton 4x4 Pickup	75,485	1,030	14,585	14.2	\$2,780.80	\$983.97
706	2015	Ford 1-Ton Service Truck	69,945	1,241	7,708	6.2	\$3,873.16	\$2,806.42
707	2015	Ford 3/4-Ton Utility Truck	56,193	902	8,693	9.6	\$2,595.37	\$785.93
708	2015	Chev Colorado 1/2-Ton PU	56,373	867	11,510	13.3	\$2,424.34	\$189.29
711	2015	Ford 3/4-Ton 4x4 Pickup	44,801	851	6,669	7.8	\$2,428.68	\$938.57
713	2015	Chevy 1/2-Ton 4x4 Pickup	116,322	1,248	17,312	13.9	\$3,626.20	\$1,027.81
714	2015	Chevy 1/2-Ton 4x4 Pickup	86,291	802	9,628	12.0	\$2,310.18	\$2,160.13
719	2016	Ford 1/2-Ton 4x4 Pickup	83,396	724	12,313	17.0	\$2,140.99	\$72.51
721	2016	Ford 3/4-Ton Utility Truck	63,223	1,007	10,684	10.6	\$2,918.76	\$145.50
722	2016	Ford 3/4-Ton Dump Truck	45,585	693	5,881	8.5	\$2,191.65	\$944.56
724	2016	Ford 3/4-Ton Utility Truck	47,678	1,379	10,681	7.7	\$4,251.27	\$126.46
726	2018	Dodge 1/2-Ton 4x4 Pickup	54,794	736	12,740	17.3	\$2,115.99	\$532.40
729	2018	Ford 1-Ton Service Truck	43,717	1,287	9,836	7.6	\$4,182.16	\$3,211.59
730	2018	Ford 1-Ton Service Truck	51,244	1,827	15,220	8.3	\$5,775.75	\$268.98
733	2019	Dodge 1/2-Ton 4x4 Pickup	49,644	984	17,188	17.5	\$2,792.85	\$120.00
736	2020	Ford 1-Ton Service Truck	20,597	1,447	10,905	7.5	\$4,564.71	\$2,169.43
737	2020	Ford 1-Ton Service Truck	14,990	1,137	8,222	7.2	\$3,477.90	\$105.44
738	2019	Toyota Rav 4 SUV	24,679	219	8,636	39.5	\$597.64	\$76.95
739	2019	Ford 1/2-Ton 4x4 Pickup	17,259	401	6,799	16.9	\$1,157.30	\$24.44
742	2020	Chevy 1/2-Ton 4x4 Pickup	15,991	487	8,256	16.9	\$1,401.90	\$95.95
743	2020	Chevy 1/2-Ton 4x4 Pickup	15,638	581	9,177	15.8	\$1,650.69	\$60.95
744	2020	Chevy 1-Ton Service Truck	15,727	1,056	9,569	9.1	\$3,252.18	\$125.80
745	2021	Chevy 3/4-Ton 4x4 Pickup	7,150	819	7,150	8.7	\$2,290.68	\$64.79
747	2021	Toyota Rav 4 SUV	3,730	121	3,730	30.8	\$372.12	\$79.95
748	2022	Ford 3/4-Ton 4x4 Utility	6,661	743	5,036	6.8	\$2,090.83	\$59.40
749	2022	Ford 3/4-Ton 4x4 Utility	8,666	790	7,167	9.1	\$2,051.41	\$29.70
	Totals	36 Vehicles	N/A	33,788	320,873	9.5	\$101,144.19	\$24,324.31

5-Year Vehicle Expense Totals

	Fuel (gallons)	Miles Driven	MPG	Maint. Cost	Fuel/Fees	Fleet Size
2021/2022	50,464	565,450	11.2	\$30,753.96	\$154,583	66
2020/2021 ^a	58,456	639,491 ^a	10.9	\$26,882.19	\$117,272	72 ^a
2019/2020	49,625	542,740	10.9	\$37,785.17	\$126,036	65
2018/2019	50,840	555,974	10.9	\$36,943.05	\$138,670	66
2017/2018	59,270	541,208	9.78	\$36,220.34	\$132,353	66

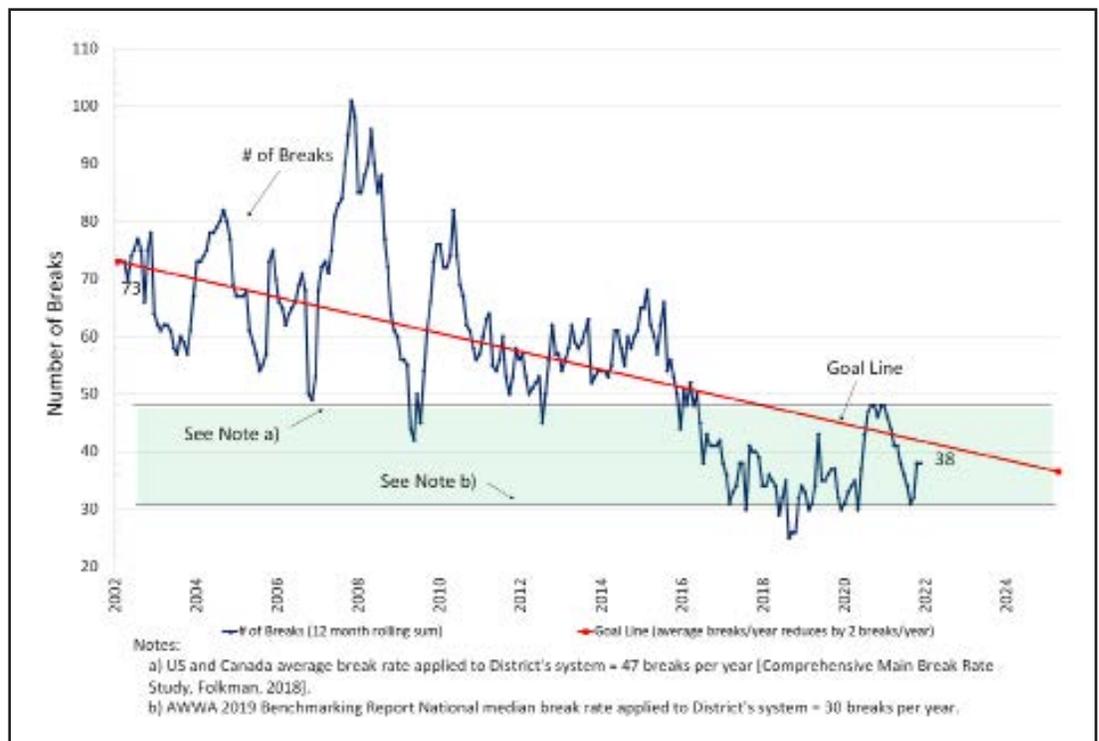
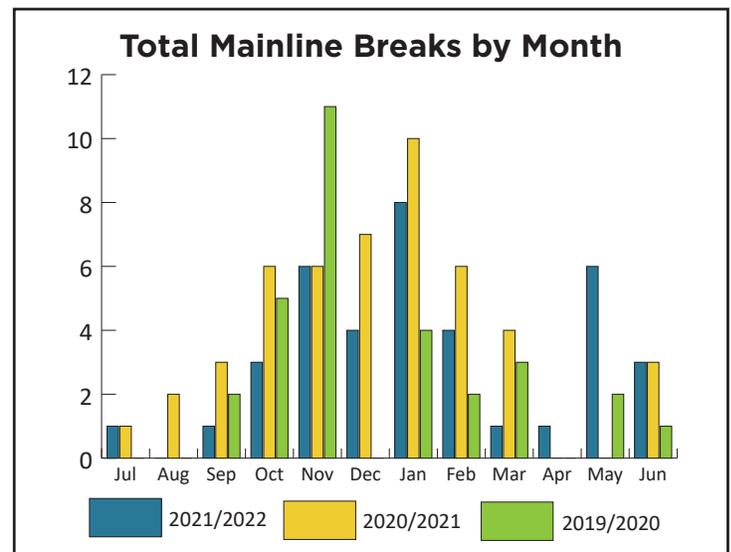
a) Mileage increased and the fleet was larger in 2021/2022 to accommodate social distancing during the COVID-19 Pandemic. No employees were able to ride together, which increased vehicles used and miles driven. The surplussing of seven vehicles was postponed to accommodate this.

Pipeline (Mainline) Breaks

Jordan Valley Water works hard to maintain, rehabilitate or replace distribution and transmission pipelines as necessary to maintain a high level of water service and system reliability while still achieving a full, useful life of every water main. A goal, as seen by the chart below, has been set to reduce and keep the number of breaks incurred each year to a more manageable/acceptable level.

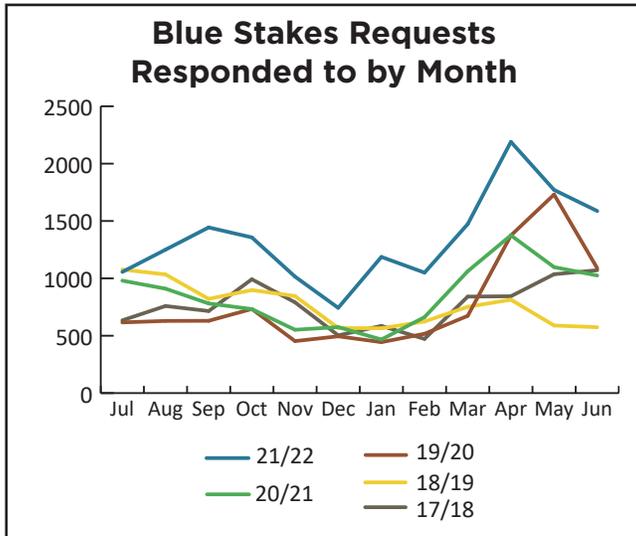
Total mainline breaks by year:

- 2021/2022 = 38
- 2020/2021 = 48
- 2019/2020 = 30
- 2018/2019 = 34
- 2017/2018 = 36
- 2016/2017 = 38

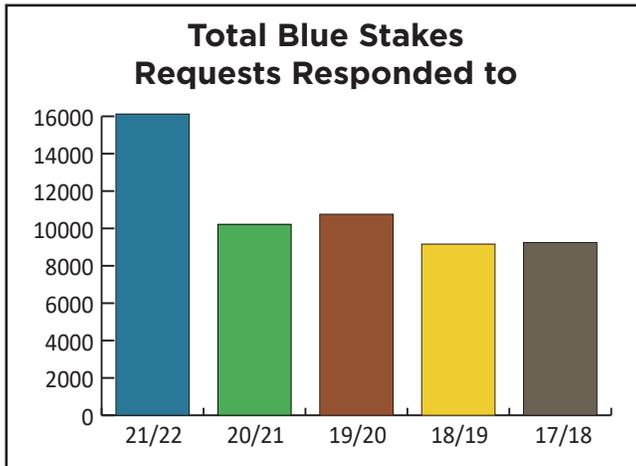


Inspections & Retail Connections

Pipeline/Valve Summary



*April and May 2020 were unusually high in response to increased fiber optic installations.



Pipe Diameter	Pipe Length (linear ft.)	Miles of Pipe	# of Valves	Percent of System
< 2 inch	10,052	1.90	17	0.55%
2 inch	4,419	0.84	65	0.24%
3 - 4 inch	18,682	3.54	541	1.01%
6 inch	261,830	49.59	2,195	14.21%
8 inch	296,317	56.12	1,095	16.08%
10 inch	73,655	13.95	187	4.00%
12 inch	92,254	17.47	353	5.01%
14 inch	23,492	4.45	49	1.27%
15 - 16 inch	143,823	27.24	122	7.80%
18 inch	113,135	21.43	57	6.14%
20 - 21 inch	63,926	12.11	50	3.47%
24 inch	147,368	27.91	117	8.00%
27 inch	20,014	3.79	1	1.09%
28 inch	254	0.05	0	0.01%
30 inch	91,940	17.41	75	4.99%
32 inch	0	0.00	1	0.00%
33 inch	79,818	15.12	5	4.33%
36 inch	48,726	9.23	26	2.64%
42 inch	21,749	4.12	20	1.18%
45 inch	0	0.00	3	0.00%
48 inch	87,077	16.49	36	4.72%
60 inch	13,925	2.64	5	0.76%
66 inch	62,955	11.92	12	3.42%
69 inch	829	0.16	0	0.04%
72 inch	83,328	15.78	6	4.52%
78 inch	79,978	15.15	7	4.34%
84 inch	404	0.08	1	0.02%
90 inch	2,704	0.51	3	0.15%
Totals	1,842,947	349.04	5,049	100.00%
Total fire hydrants			1,422	

Updated August 2022. Lengths are rounded for simplicity. Source: GIS database

Welding together a 60" casing
S. Schmidt



Retail System Connections

Retail service connections	2021/2022	2020/2021	2019/2020	2018/2019	2017/2018
Residential (single family or duplexes)	7,159	7,129	6,987	7,423	7,381
Residential (apartments)	243	239	235	266	266
Commercial, industrial, institutional	1,150	1,153	1,141	1,211	1,201
Fire lines	300	293	287	304	293
TOTAL CONNECTIONS	8,852	8,814	8,650	9,204	9,141
Increase/decrease in active retail connections	38	164	-554*	63	34

*Retail accounts decreased because Midvale City annexed a portion of our service area and took over those accounts.

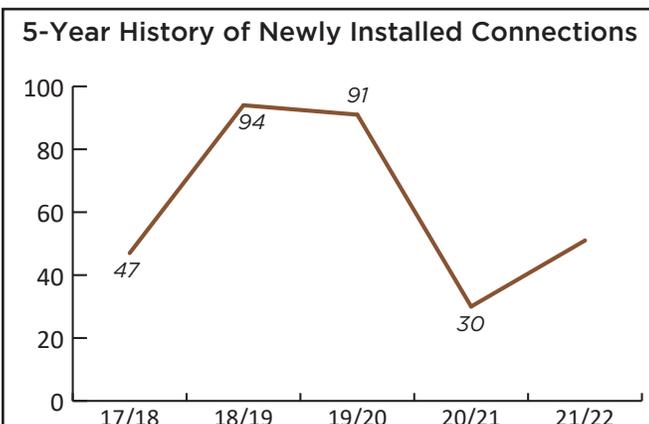
Newly Installed Connections

All connections are made by contractors									
Month	3/4"	1"	1"	2"	3"	4"	6"	8"	Totals
July	10								10
Aug.	10	1	1						12
Sept.	7								7
Oct.									
Nov.									
Dec.									
Jan.									
Feb.			2						2
March		1						2	3
April	1	1				1		1	4
May	1	3			2		1		5
June		1					1	4	8
Totals	29	7	3		2	1	2	7	51

New Services in Billing System

Month	3/4"	1"	1"	2"	3"	4"	6"	8"	Totals
July	18							1	19
Aug.	3								3
Sept.			2				1	2	5
Oct.	4	1							5
Nov.	5	1							6
Dec.	1								1
Jan.	3								3
Feb.	6								6
March	12								12
April	6		1						7
May	1			2	1				4
June	1								1
Totals	60	2	3	2	1		1	3	72

New services are retail connections that have had a meter installed and are now active in the utility billing system.



Communications

Conservation



Classes at the Garden are held in person and online and are free to the general public. The topics are geared toward homeowners and allow them to pick which classes they would like to take based on their own project needs and schedule. An updated class schedule can be found on the Garden website at conservationgardenpark.org.



Localscapes is water-efficient landscaping designed for Utah. A Localscape uses 1/3 the water of a typical Utah landscape.

As the creators of Localscapes, Jordan Valley Water and its founding partners have enlisted additional partners for statewide promotion and adoption of Localscapes. These partners include professional landscape contractors and designers, landscape supply retailers, local agencies, and various educational institutions.



Utah Water Savers is an online portal to facilitate rebates and incentives for water efficiency. The following programs are managed through the Utah Water Savers website: Landscape Consultations, Localscapes University Rewards, Flip Your Strip, Toilet Replacement Rebates, and Smart Controller Rebates.

Visit UtahWaterSavers.com for more information.

Garden Attendance, 2021/2022

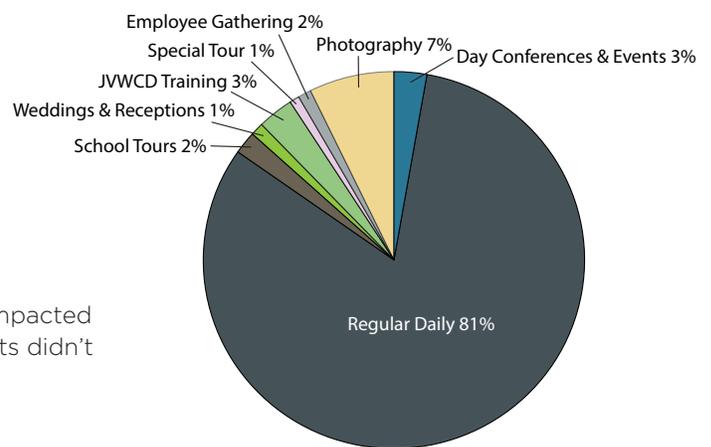
Total 2021 Garden Attendance: 27,297*

Year	Total Attendance	# of Classes	Class Attendance
2021	27,297	31	2,136
2020	22,137**	22***	2,235
2019	38,665	46	2,311
2018	36,594	47	2,324
2017	40,508	46	2,168

*Pandemic-related restrictions began to ease in 2021 but still impacted overall Garden attendance. In-person classes, rentals, and events didn't pick up until the second half of the year.

**Heavily impacted by the pandemic.

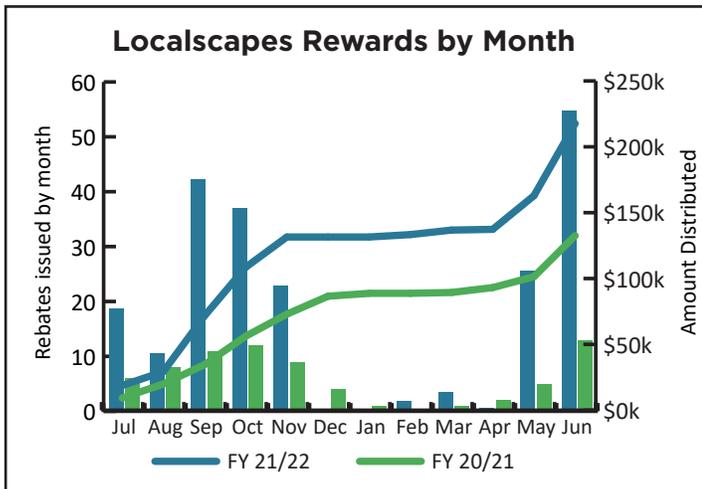
***Switched to online classes in March because of COVID-19 restrictions. Many other demonstration classes and tours were cancelled.



Statewide Rebate Programs

2021/2022 (JVWCD service area only)	Toilet Replacements	Smart Controller Rebates
# of rebates issued	125	890
Average rebate amount	\$130.55	\$74.43
Total rebates distributed	\$16,318.65	\$66,239.00

Localscapes Rewards



	2021/2022	2020/2021
# of rewards issued	115	72
Square feet converted	553,925	345,872
Average reward amount	\$1,892.55	\$1,841.26
Total rebates distributed	\$217,642.85	\$132,570.63

Homeowners installing or renovating their landscape can apply for cash rewards and a free review of their landscape plan.

Total Class Attendees

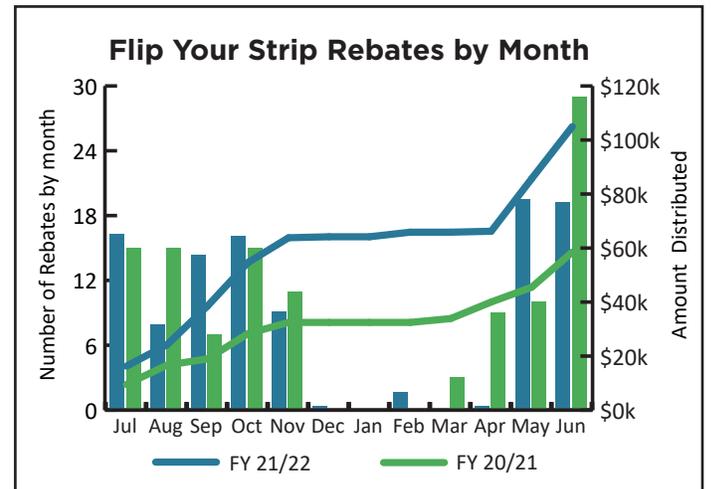
Class & Program Participants	2021/2022	2020/2021
Intro to Localscapes students	2,986	2,598
Localscapes University graduates	1,647	731
Design Workshop students	304	281
Irrigation Workshop students	536	269

Landscape Consultations

Class and Program Participants	2021/2022	2020/2021
Completed consultations	315	248

Free consultations are available to qualifying homeowners, and include watering suggestions, sprinkler system advice, and landscaping recommendations. Also included is a summary report providing information specific to the homeowner's landscape and our final recommendations.

Flip Your Strip



	2021/2022	2020/2021
# of rebates issued	164	114
Square feet converted	84,869	47,092
Average rebate amount	\$640.03	\$513.34
Total rebates distributed	\$104,965.17	\$58,520.84

This program offers cash rebates to homeowners who "flip" their park strip from grass to a water-efficient design.

Localscapes Partners

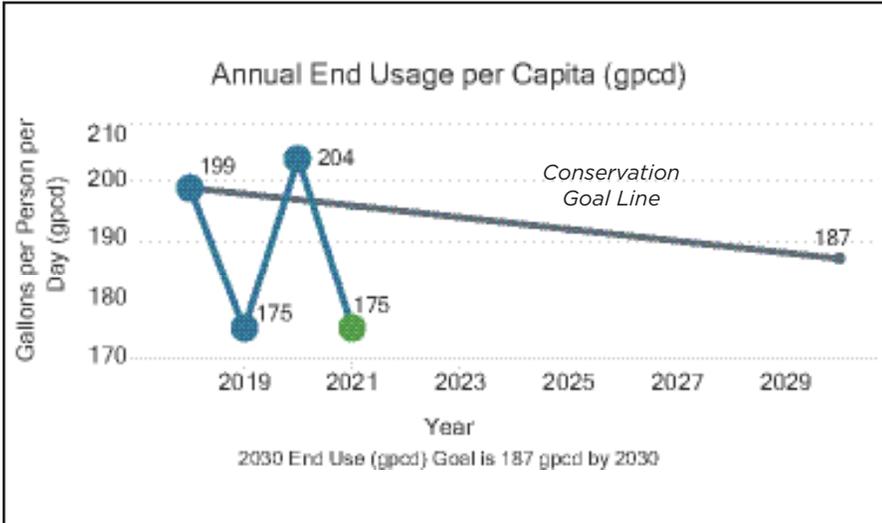
Partnership Categories*	2021/2022	2020/2021
Founding partners	4	4
Agency/educational partners	7	6
Professional partners	85	63
Retail partners	25	19
Total partners	121	92

*These numbers represent a running total and carry over from year to year.

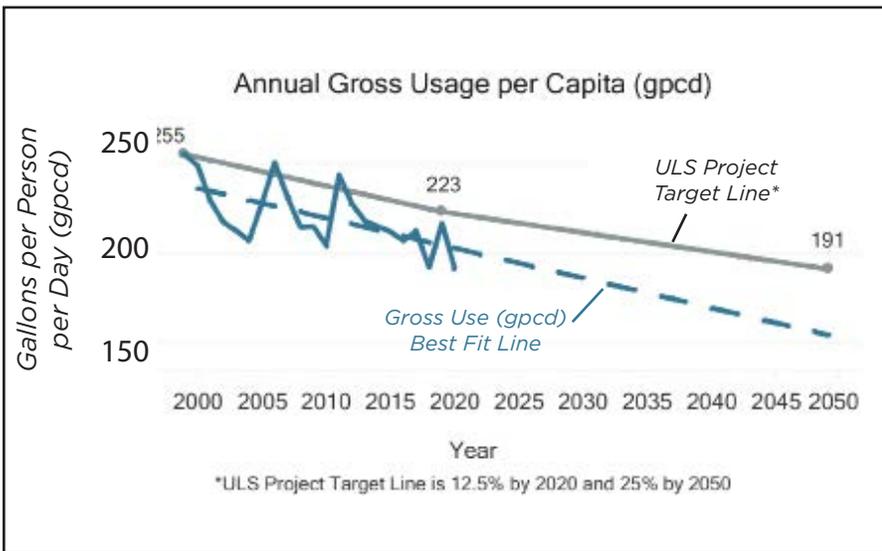
Member Agency Grant Program

Member Agency	Public Education	Product Rebates	Landscape Improvements	Conservation Website	Soil Moisture Sensors	Studies & Reports
Bluffdale			2006, 2022			2008
Draper City			2015			
Draper Irrigation	2011					
GHID	2006, 2008, 2009, 2011, 2013, 2015, 2017, 2018, 2019, 2020, 2021, 2022	2009, 2011, 2017, 2018, 2019, 2020, 2021, 2022	2015, 2017, 2018, 2019, 2020			2006, 2020
Herriman			2021, 2022			
Kearns	2020	2006, 2008, 2009, 2011, 2013, 2015, 2017, 2018, 2019	2006, 2017, 2020, 2021, 2022			2017
Magna				2006	2006	
Riverton			2020, 2022			
South Jordan	2006	2008, 2009, 2011, 2013, 2015, 2017, 2018, 2019, 2020, 2021, 2022	2006, 2009, 2015, 2017, 2018	2015		2006, 2011
South Salt Lake			2011, 2017			
TBID			2015, 2020, 2022			2015, 2022
WaterPro						
West Jordan	2006, 2006, 2009	2006	2008, 2009			2008, 2009, 2015, 2017, 2018
Continued:	Secondary Metering	Scholarship	Water System Audit	Advanced Metering Infrastructure	<p>The Member Agency Grant Program is designed to assist member agencies in funding and implementing water conservation measures, projects, and programs in their respective service areas. Proposed projects are evaluated to determine potential water savings. Projects with quantifiable water savings are funded at a greater percentage.</p> <p>Jordan Valley Water requires ongoing reporting and water use tracking from participating agencies.</p> <p>*Leak detection program similar to Water System Audit.</p>	
Bluffdale	2018, 2020					
Draper City						
Draper Irrigation	2013, 2017, 2018, 2019					
GHID		2017, 2021*, 2022*	2017, 2018, 2019	2017, 2018, 2019		
Herriman	2020					
Kearns		2017				
Magna	2013					
Riverton						
So. Jordan		2015, 2017				
So. Salt Lake						
TBID						
WaterPro	2013, 2017, 2018, 2019, 2020, 2021, 2022					
W. Jordan						

Water Conservation Goal



Jordan Valley Water has a goal to decrease GPCD water usage to 187 by 2030. This goal is based on the Salt Lake regional goal established in the “Utah’s Regional M&I Water Conservation Goals” report publicized in 2019. While weather conditions may cause fluctuations in water use from year to year, a decreasing trend over several years may indicate conservation progress is being made.



Jordan Valley Water has historically used total gross water supplied as the basis for determining GPCD. Going forward, the total water delivered to end users will also be tracked. Because our water conservation programs primarily focus on end use demand management, this measurement will help us better track conservation progress. The chart on the upper left shows annual end usage per capita beginning in 2018.

Gross water usage per capita is a measurement of all water supplies going into our service area, divided by total population. It is important to track this number to ensure we are compliant with our ULS agreement.

Measurements reflect the performance indicators in the Attributes Report Card as follows:

Performance Indicators

- Actual end use gpcd is at or below the 2030 goal line
- Actual end use gpcd is above the 2030 goal line
- Gross use gpcd best fit line since 2000 is above the ULS Project Target Line.



Engineering

Capital Projects

Engineering projects for 2021/2022 are summarized on Jordan Valley Water’s website under “Engineering Projects.”
(<http://www.jvwcd.org/public/completed>)

Projects completed in 2021/2022	Engineering Costs	Construction Costs
SWGTP Air Tower Improvements	\$14,100	\$234,941
Transmission/Distribution System Stabilization Study	\$274,946	n/a
1516 West 14600 South Well Improvements	Staff Design	\$80,777
Bron Breck Pipeline Repair	Staff Design	\$34,783
SERWTP Effluent Flow Meter	Staff Design	\$286,865
10200 South Bangerter Highway Casing	\$43,231	\$230,434
Hazard Mitigation Plan	\$207,028	n/a
Drought Contingency Plan	\$311,687	n/a
10200 South Zone B Pipeline	\$909,208	\$8,251,315
8518 South 960 East Well Pump Replacement	\$13,800	\$124,226
Four Well Rehabilitation	\$78,080	\$1,392,760
JVWTP Reclaim Water and Solids Handling Improvements	\$528,355	\$3,198,425

Capital Projects Budget Status Report	Total
Total FY 2020-2021 Capital Projects Budget (Gross)	\$ 30,516,448
Budgeted Reimbursements	(\$ 2,281,758)
Total FY 2020-2021 Capital Projects Budget (Net)	\$ 28,234,690
Total FY 2020-2021 Capital Projects Expenditures	\$ 14,689,915

Significant Ongoing Projects

- 11800 South Zone C Reservoir
- 3200 West 6200 South Steel Reservoirs Coating and Repairs
- SERWTP Fluoride Room Upgrades
- 2022 Distribution Pipeline Replacements - Red Maple Area
- JA-3 Cathodic Protection System
- Four Well Redevelopment and Test Pumping Project
- 2023 Vault Improvements
- 5200 West 6200 South Reservoir
- JVVWTP Sedimentation Basins Equipment Replacement
- Five Concrete Reservoirs Repairs
- Reservoir Chlorine Boosters
- 2022 Vault Improvement Project
- 3600 West 10200 South Booster Pump Station
- JA-1 and Southeast Collection Line Condition Assessment
- 3300 South Pipeline Replacement Project
- 11800 South Pump Station Upgrades
- Demand, Supply, and Major Conveyance Study
- Upper Headquarters Campus Paving Improvements
- Zone D Chemical Feed Facility
- Equipment Storage Building at 6898 W. Old Bingham Hwy



*New pipe installation
at 700 W Winchester*



*Air tower
at SWGWTP*



Welding casing joints

Administration

Safety

Safety Track Summaries

District

FY 21/22	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYT	Past Fiscal Year Totals			
														20/21	19/20	18/19	17/18
OSHA recordable injuries	0	0	0	1	0	1	0	0	0	0	1	1	4	2	3	5	3
Vehicle crashes	1	1	0	0	1	2	0	0	2	3	2	0	12	15	9	10	11

Days since last OSHA recordable injury: **2** (6/29/22) Best record for time without an OSHA recordable injury: **285** (7/27/16 - 5/7/17)
 Days since last vehicle crash: **43** (5/19/22) Best record for time without a vehicle crash: **178** (7/19/13 - 1/12/14)

Maintenance Department

FY 21/22	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYT	20/21	19/20	18/19	17/18
OSHA recordable injuries	0	0	0	0	0	1	0	0	0	0	1	1	3	0	2	2	2
Vehicle crashes	1	0	0	0	1	2	0	0	2	2	2	0	10	11	6	7	6

Days since last OSHA recordable injury: **2** (6/29/22) Best record for time without an OSHA recordable injury: **720** (6/23/15 - 6/11/17)
 Days since last vehicle crash: **43** (5/19/22) Best record for time without a vehicle crash: **198** (1/29/19 - 8/14/19)

Operations Department

FY 21/22	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYT	20/21	19/20	18/19	17/18
OSHA recordable injuries	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	2	0
Vehicle crashes	0	0	0	0	0	0	0	0	0	1	0	0	1	3	2	2	4

Days since last OSHA recordable injury: **264** (10/10/21) Best record for time without an OSHA Recordable Injury: **826** (3/23/19 - 6/24/21)
 Days since last vehicle crash: **79** (4/13/21) Best record for time without a vehicle crash: **452** (4/24/15 - 7/19/16)

Administration, Communications, Engineering, and IS

FY 21/22	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYT	20/21	19/20	18/19	17/18
OSHA recordable injuries	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
Vehicle crashes	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1

Days since last OSHA recordable injury: **635** (10/4/20) Best record for time without an OSHA recordable injury: **1554** (1/16/14 - 4/18/18)
 Days since last vehicle crash: **333** (8/2/21) Best record for time without a vehicle crash: **665** (5/10/16 - 3/5/18)

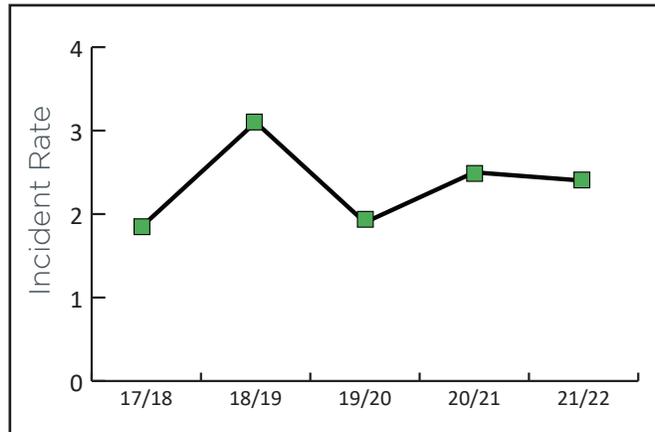
OSHA Recordable Injury Incident Rates

Fiscal Year	Avg emp hrs wrkd ^a	# of Injuries	Incident Rate ^b	Total PTD (Wkrs Comp)
2021/2022	328,640	4	2.4	\$3,610
2020/2021	324,480	2	1.2	\$5,672*
2019/2020	322,400	3	1.9	\$999
2018/2019	322,400	5	3.1	\$5,810
2017/2018	316,160	3	1.9	\$98,220*

a- Number of employees x 2000 (2000 hours is the average number of hours an employee works per year and is the number that OSHA recommends for calculating incident rates)

b- Total injuries x 200,000, divided by "# of employee hours worked"

*Totals changed based on claims not being closed at time of reporting.



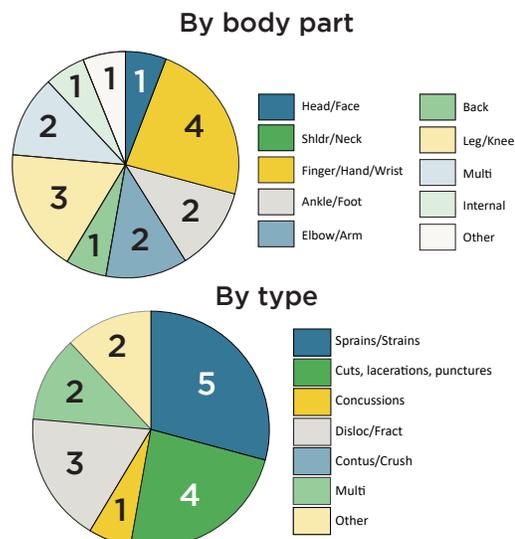
OSHA Recordable Injury Incident Rates by Department

Depts	21/22	20/21	19/20	18/19	17/18
Admin, etc.	0.0	1.5	1.6	1.6	1.6
Maintenance	5.8	0.0	3.9	3.8	3.9
Operations	2.2	2.2	0.0	4.3	0.0

Performance Indicators



OSHA Recordable Injuries 17/18 - 21/22



OSHA Recordable Injuries^a

Date	Type of Injury	Light duty restriction (days)	Days away from work	Total PTD (Workers Comp) ^b	Dept
10/10/21	Finger Fracture	7	0	\$371	Operations
12/2/21	Injured shoulder, bruised knee	7	0	\$1,637	Maintenance
5/19/22	Laceration - right forearm	0	0	\$272	Maintenance
6/29/22	Sprained ankle	6	0	\$1,330*	Maintenance
Total	4	20	0	\$3,610	

a- Any work-related death, or any injury or illness that involves loss of consciousness, restricted work activity or job transfer, days away from work, or medical treatment beyond first aid.

b- Costs are subject to change over time as files close that are open at year end.

PTD = Paid to date.

*Claim not final.

*Tying in new 30 in. pipe flow control vault for
Kearns Improvement District at 5200 W & 6200 S
K. Butterfield*

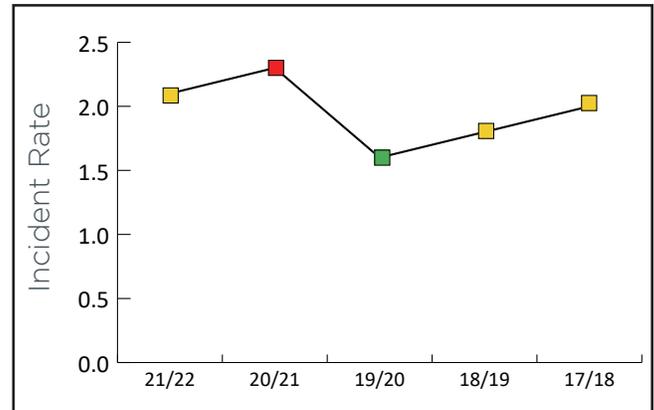
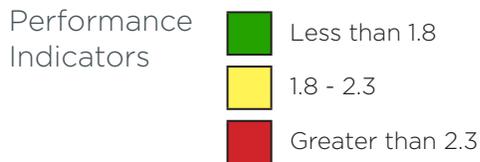


Vehicle Crash Incident Rates

Fiscal Year	# of Miles Driven	# of Crashes	Incident Rate ^a	District Cost ^b
2021/2022	565,450	12	2.1	\$15,047
2020/2021	639,491	15	2.3	\$38,760
2019/2020	551,362	9	1.6	\$7,905
2018/2019	555,974	10	1.8	\$33,284
2017/2018	541,208	11	2.0	\$11,222

a- Total crashes x 100,000, divided by "# of miles driven."

b- Total cost for all repairs for all parties involved. Subject to change if any cases are open.



Department Crash Rates

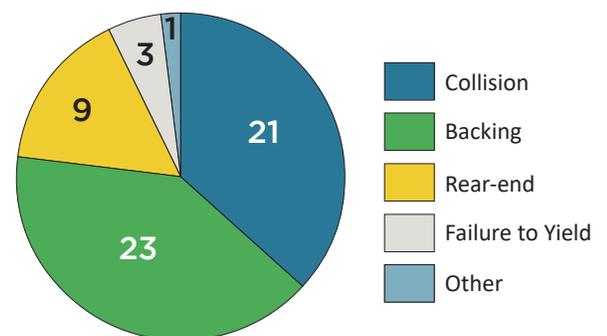
Depts	21/22	20/21	19/20	18/19	17/18
Admin, etc.	1.3	1.3	1.5	1.7	1.7
Maintenance	2.5	3.7	2.0	2.2	1.8
Operations	0.6	1.7	1.1	1.2	2.3

Vehicle Crashes*

Date	District Cost	Type	Dept
7/22/2021	\$2,463	Collision	Maintenance
8/2/2021	\$3,180	Rear-end	IS & Ops
11/17/2021	\$2,487	Rear-end	Maintenance
12/14/2021	\$692	Failure to yield	Maintenance
12/30/2021	\$607	Backing	Maintenance
3/17/2022	\$0	Backing	Maintenance
3/22/2022	\$907	Backing	Maintenance
4/13/2022	\$2,768	Backing	Operations
4/21/2022	\$602	Backing	Maintenance
4/27/2022	\$0	Backing	Maintenance
5/3/2022	\$153	Failure to yield	Maintenance
5/19/2022	\$1,188	Collision	Maintenance
Total	\$15,047		

*Vehicle Crash: an incident where an employee is driving any type of vehicle which collides with anything that causes damage to the vehicle or the object hit; or that results in medical expenses or bodily injury for anyone involved.

Vehicle Crash Types 17/18 - 21/22





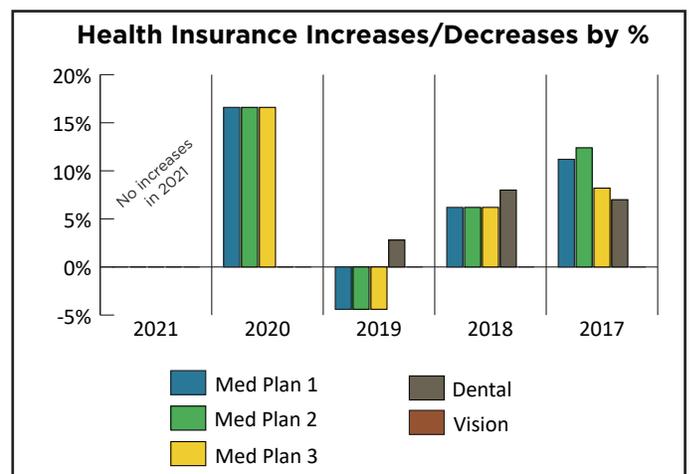
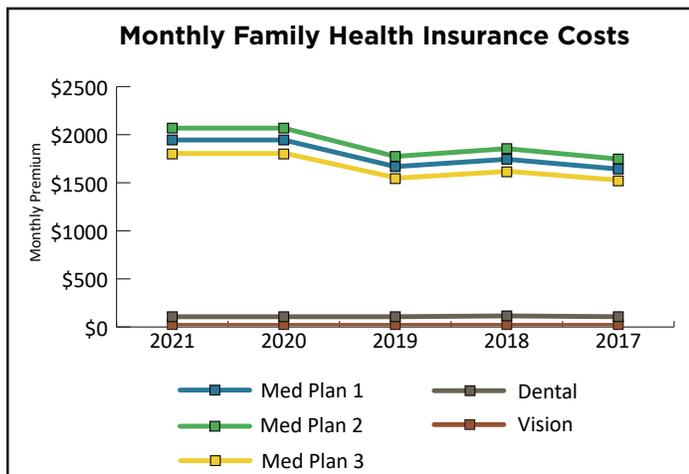
Human Resources

Personnel History

	Calendar Year 2021	Calendar Year 2020	Calendar Year 2019	Calendar Year 2018	Calendar Year 2017
Full-time authorized positions:	152	150	147	147	146
Part-time positions:	0	0	1	1	1
New positions authorized:	2	2	0	0	1
	<i>Pipeline Maintenance Systems Administrator</i>			<i>System Operator</i>	
Turnover - # of Terminations	19	12	12	3	5
Retirements	4	3	10	6	2
Turnover rate:	12.5%	8.0%	14.97%	6.08%	4.7%
Employees per 1,000 AF of water delivered:	1.21	1.01	1.08	1.03	1.03
AF delivered per employee:	822	981	929	965	972

*Number has been updated to reflect more accurate data.

History of Insurance Costs



Personnel Costs

History of Salary Increases (effective date JULY 1)	2022	2021	2020	2019	2018	2017
Merit increase	8.5%*	3.5%	4.0%	3.2%	3.2%	3.0%
Merit/step average	3.4% & 5.2%	4.75%	4.76%	4.45%	4.43%	4.05%
- merit range	2% to 24.53%**	1.75% to 13.33%	0% to 12.65%	0% to 9.14%	0% to 7.10%	0% to 19.23% †

Personnel Budget	2022/2023	2021/2022	2020/2021	2019/2020	2018/2019	2017/2018
Salary & benefits	\$19,446,391	\$17,894,417	\$17,192,556	\$16,536,173	\$16,591,406	\$16,209,198
% change from previous year	8.7%	4.1%	4.0%	-0.3%	2.36%	4.43%

Health Insurance Plan & Costs: (see charts previous page)	Calendar 2022	Calendar 2021	Calendar 2020	Calendar 2019	Calendar 2018	Calendar 2017
<u>SelectMed</u> (monthly premium)	SelectMed+	SelectMed+	SelectMed+	SelectMed+	SelectMed+	SelectMed+
- Single	\$689.80	\$659.30	\$659.30	\$565.40	\$591.30	\$556.80
- 2-party	\$1,483.30	\$1,417.70	\$1,417.70	\$1,215.90	\$1,271.60	\$1,197.40
- Family	\$2,034.90	\$1,944.90	\$1,944.90	\$1,668.00	\$1,744.40	\$1,642.60
% change from previous year	4.7%	0.0%	16.6%	- 4.4%	6.2%	11.2%
<u>SelectValue</u> ((monthly prem.)	SelectValue+	SelectValue+	SelectValue+	SelectValue+	SelectValue+	SelectValue+
- Single	\$668.70	\$609.90	\$609.90	\$523.10	\$547.00	\$515.00
- 2-party	\$1,437.80	\$1,311.40	\$1,311.40	\$1,124.70	\$1,76.20	\$1,107.50
- Family	\$1,972.80	\$1,799.30	\$1,799.30	\$1,543.10	\$1,613.70	\$1,519.50
% change from previous year	9.4%	0.0%	16.6%	- 4.4%	6.2%	8.2%
<u>Dental Plan</u> (monthly premium)	CIGNA	CIGNA	CIGNA	CIGNA	MetLife	MetLife
- Single	\$33.28	\$29.62	\$29.62	\$29.62	\$28.81	\$26.68
- 2-party	\$63.12	\$56.18	\$56.18	\$56.18	\$60.71	\$56.21
- Family	\$120.03	\$106.84	\$106.84	\$106.84	\$115.45	\$106.90
% change from previous year		0.0%	0.0%	3.0%	8.0%	7.0%
<u>Vision Plan</u> (monthly premium)	Self Insured					
- Single	\$8.50	\$8.50	\$8.50	\$8.50	\$8.50	\$8.50
- 2-party	\$18.00	\$18.00	\$18.00	\$18.00	\$18.00	\$18.00
- Family	\$25.00	\$25.00	\$25.00	\$25.00	\$25.00	\$25.00
% change from previous year	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

* Includes 4% (steps) or 3% (above midpoint) in March and 4.5% (steps) or 5.5% (above midpoint) in July.

** Includes 2% to 4% in March and 0% to 24.53% in July

† Includes implementation of updated compensation plan.

Budget Overview 2022/2023

<i>Sources of funds</i>	<i>2021/2022</i>	<i>2022/2023</i>	<i>Budget to Budget</i>	
	<i>Budget</i>	<i>Budget</i>	<i>\$ Variance</i>	<i>% Variance</i>
<i>Water sales - wholesale</i>	\$ 51,303,595	\$ 52,554,723	\$ 1,251,128	2.4%
<i>Water sales - retail</i>	7,514,783	6,758,349	(756,434)	-10.1%
<i>Property tax revenue</i>	23,230,051	25,650,346	2,420,295	10.4%
<i>Investment income</i>	548,900	1,087,300	538,400	98.1%
<i>Connection fees</i>	407,000	512,000	105,000	25.8%
<i>Other</i>	<u>1,605,000</u>	<u>1,560,000</u>	<u>(45,000)</u>	<u>-2.8%</u>
<i>Subtotal</i>	84,609,329	88,122,718	3,513,389	4.2%
<i>Revenue Stabilization (rates)</i>	5,590,263	8,402,108	2,811,845	50.3%
<i>Capital Projects (net)</i>	28,234,690	51,445,090	23,210,400	82.2%
<i>Capital Projects (reimbursement)</i>	2,281,758	2,849,431	567,673	24.9%
<i>JVCGF Contributions</i>	-	-	-	N/A
Total Sources	\$ 120,716,040	\$ 150,819,347	\$ 30,103,307	24.9%
<i>Uses of funds</i>				
<i>Water purchases</i>	\$ 17,672,551	\$ 18,615,784	\$ 943,233	5.3%
<i>Operation & maintenance expenses</i>	10,678,691	11,621,168	942,477	8.8%
<i>General & administrative expenses</i>	4,874,489	5,131,328	256,839	5.3%
<i>Personnel expenses</i>	<u>17,949,637</u>	<u>19,501,611</u>	<u>1,551,974</u>	<u>8.6%</u>
<i>Subtotal</i>	51,175,368	54,869,891	3,694,523	7.2%
<i>Capital projects fund (gross)</i>	30,516,448	54,294,521	23,778,073	77.9%
<i>JVCGF contribution projects</i>	-	-	-	N/A
Total operating and capital uses	\$ 81,691,816	\$ 109,164,412	\$ 27,472,596	33.6%
<i>Net operating revenues</i>	\$ 39,024,224	\$ 41,654,935	\$ 2,630,711	6.7%
<i>Debt service payments</i>	<u>(22,357,783)</u>	<u>(23,164,500)</u>	<u>(806,717)</u>	<u>3.6%</u>
<i>Debt service coverage ratio</i>	1.75	1.80		
Amount available to transfer to reserves				
Total from operations	\$ 12,996,501	\$ 12,996,501	\$ 3,669,940	10.9%

Completed Fiscal Years Financial Results

<u>SOURCES OF FUNDS</u>	<u>2016/2017 Actual</u>	<u>2017/2018 Actual</u>	<u>2018/2019 Actual</u>	<u>2019/2020 Actual</u>	<u>2020/2021 Actual</u>
Water Sales - Wholesale	\$ 43,457,858	\$ 44,669,433	\$ 44,116,589	\$ 51,305,372	\$ 53,008,777
Water Sales - Retail	6,478,834	7,124,267	7,148,704	7,115,527	7,548,576
Property Tax Revenue	14,954,597	18,203,887	20,063,290	20,281,934	21,133,800
Investment Income	1,109,313	1,651,609	2,260,091	1,900,885	638,942
Connection Fees	391,388	302,368	494,319	474,389	567,778
Other	<u>1,809,931</u>	<u>1,404,560</u>	<u>1,568,813</u>	<u>1,871,210</u>	<u>2,530,587</u>
Subtotal	68,201,921	73,356,124	75,651,806	82,949,317	85,428,460
Revenue Stabiliz. Fund (rates)	-	-	-	1,345,760	4,699,127
Capital Projects (net)	33,411,917	36,425,048	42,393,937	31,028,162	12,895,911
Capital Projects (reimb.)	3,395,792	1,338,915	289,903	1,235,989	577,537
JVCGF Contributions	<u>225,867</u>	<u>22,678</u>	<u>350,000</u>	<u>140,100</u>	<u>46,976</u>
Total Sources	\$ 105,235,497	\$ 111,142,765	\$ 118,685,646	\$ 116,699,328	103,648,011
<u>USES OF FUNDS</u>					
Operation and Maintenance	\$ 39,237,866	\$ 40,029,461	\$ 41,143,238	\$ 44,001,460	46,870,156
Bond Principal and Interest	19,188,677	20,437,815	20,365,220	22,003,217	22,040,296
Transfers to Reserve Funds:					
• Replacement Reserve Fund	6,783,990	4,556,508	5,458,272	6,060,262	11,460,061
• Development Fee Fund	391,388	302,368	494,319	474,389	567,778
• General Equipment Fund	900,000	700,000	800,000	679,400	700,000
• Emergency Reserve Fund	300,000	300,000	300,000	300,000	200,000
• Interest Allocated to Funds	-	1,078,116	1,310,849	1,249,681	434,238
• Revenue Stabilization Fund	-	5,451,856	5,079,908	9,126,668	7,655,058
• Revenue Fund	900,000	-	200,000	100,000	-
• Operation & Maint. Fund	<u>500,000</u>	<u>500,000</u>	<u>500,000</u>	<u>300,000</u>	<u>200,000</u>
Total Transfers	<u>9,775,378</u>	<u>12,888,848</u>	<u>14,143,348</u>	<u>18,290,400</u>	<u>21,217,135</u>
Subtotal	68,201,921	73,356,124	75,651,806	84,295,077	90,127,587
Capital Projects (gross)	36,807,709	37,763,963	42,683,840	32,264,151	13,476,448
JVCGF Contrib. Projects	<u>225,867</u>	<u>22,678</u>	<u>350,000</u>	<u>140,100</u>	<u>46,976</u>
Total Uses	\$ 105,235,497	\$ 111,142,765	\$ 118,685,646	\$ 116,699,328	\$ 103,648,011

Note: Final results for fiscal year 2021/2022 not yet available



JORDAN VALLEY WATER
CONSERVANCY DISTRICT