JORDAN VALLEY WATER
CONSERVANCY DISTRICT

Summary of Operations

2020/2021

Operations

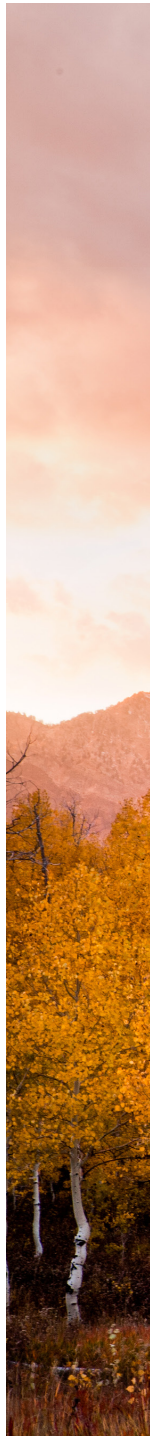
Whenever possible, data for the fiscal year were used in this report. In cases where fiscal year data was not available or feasible to use, we have listed data from the calendar year.

Maintenance

Communications

Engineering

Administration



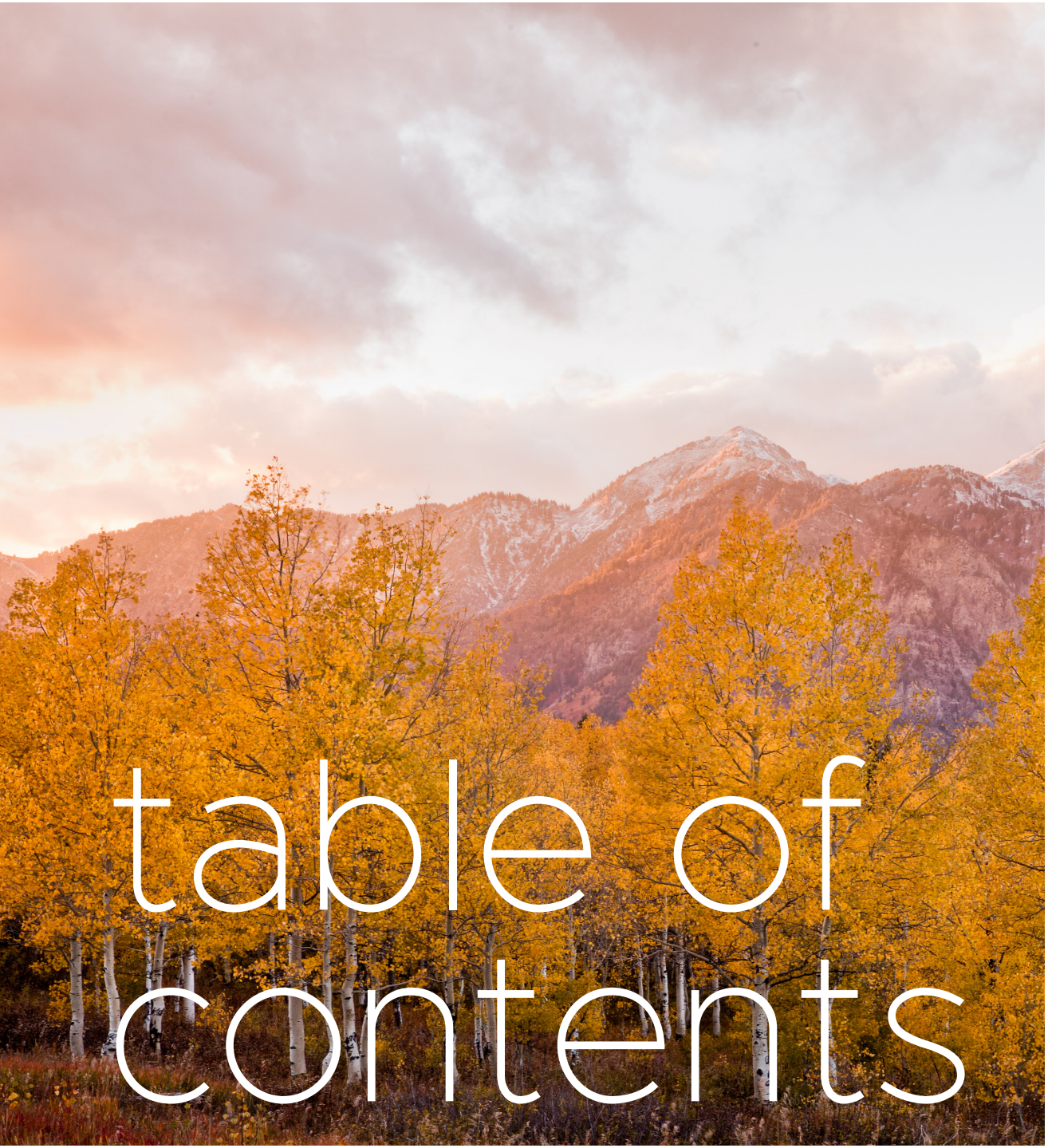


table of contents

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

JA = Jordan Aqueduct

JNPS = Jordan Narrows Pump Station

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

SWA = Southwest Aqueduct

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.

WTP = Water Treatment Plant

Municipal & Industrial water supplies (acre-feet)	**FY 20/21**	**FY 19/20**
Jordanelle Reservoir (Central Utah Project)[a]	56,516	46,373
Deer Creek Reservoir (Provo River Project)[b]	11,069	12,311
Upper Provo River reservoirs[a]	2,121	2,114
Echo Reservoir[c]	998	3,501
Provo River (unstored flows)[a]	13,146	18,945
Weber River (unstored flows)[b]	1,291	212
Central Water Project	11,680	11,680
Salt Lake County mountain streams	1,317	3,317
Culinary water purchased from MWDSLS	1,101	1,022
Salt Lake County Groundwater	10,218	6,395
Southwest Groundwater Project Wells	4,422	4,224
Bingham Canyon Water Treatment Plant	3,321	3,541
Subtotal for municipal & industrial sources	**117,201**	**113,634**
Irrigation water sources (AF)		
Jordanelle Reservoir (Central Utah Project)[a]	0	0
Deer Creek Reservoir (Provo River Project)[b]	0	624
Upper Provo River reservoirs[a]	0	0
Echo Reservoir[c]	0	0
Provo River (unstored flows)[a]	0	12,824
Weber River (unstored flows)[b]	0	0
Utah Lake	30,026	17,577
Subtotal for irrigation	**30,026**	**31,025**
TOTAL ALL SOURCES	**147,226**	**144,659**

a- Provo River sources
b- Weber, Duchesne and Provo River sources
c- Weber River sources

All deliveries in acre-feet	FY 20/21	FY 19/20
Bluffdale City	3,692	3,422
Copperton Improvement District	2	0
Draper City	5,117	4,592
Granger-Hunter Improvement District	18,745	20,733
Herriman City	6,457	5,646
Hexcel Corporation	665	762
Kearns Improvement District	9,164	8,309
Magna Water Company	797	781
Midvale City	3,253	3,512
Riverton City	4,907	4,635
City of South Jordan	18,968	17,525
City of South Salt Lake	1,020	1,021
Taylorsville-Bennion Improvement District	4,601	4,233
Utah State Department of Corrections	454	534
WaterPro, Inc. (treated)	1,446	1,142
WaterPro, Inc. (raw)	0	0
West Jordan City	22,576	21,264
White City Water Improvement District	0	0
Willow Creek Country Club	374	349
Total Wholesale	**102,240**	**98,459**
Jordan Valley WCD retail area	8,633	8,502
JVWCD non-revenue water, use, and loss[a, b]	6,327	6,673
Subtotal for deliveries, use & loss	**117,201**	**113,634**
Irrigation & raw water delivered (AF)		
Welby Jacob Water Users Company	30,026	31,025
Subtotal for irrigation & raw water	**30,026**	**31,025**
TOTAL WATER DELIVERIES	**147,226**	**144,659**

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:

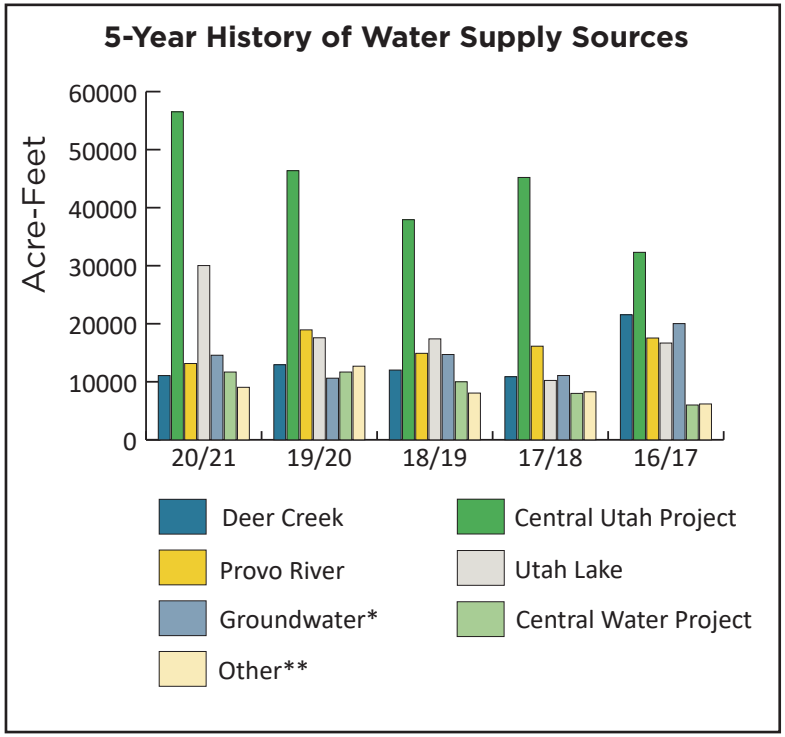
FY 20/21: 4.2%
FY 19/20: 4.4%
FY 18/19: 3.3%
FY 17/18: 3.1%
FY 16/17: 4.7%

Installation of more accurate meters will continue to show more accurate readings and data.

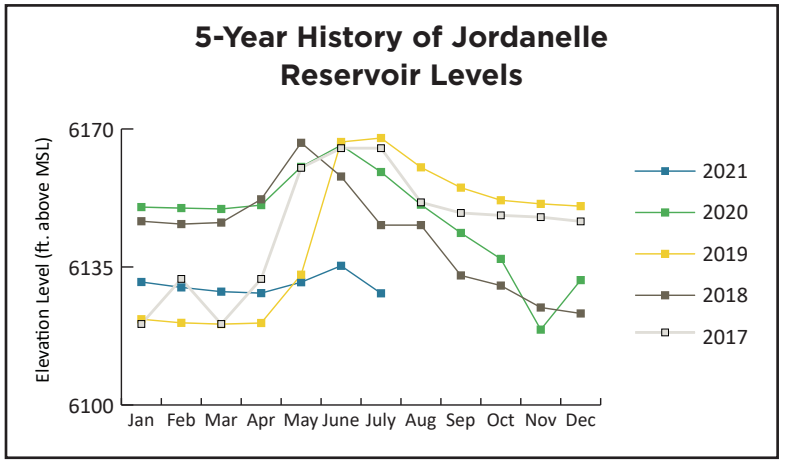
c- This total includes water exchanged on 15000 South for water delivered at 2100 South.

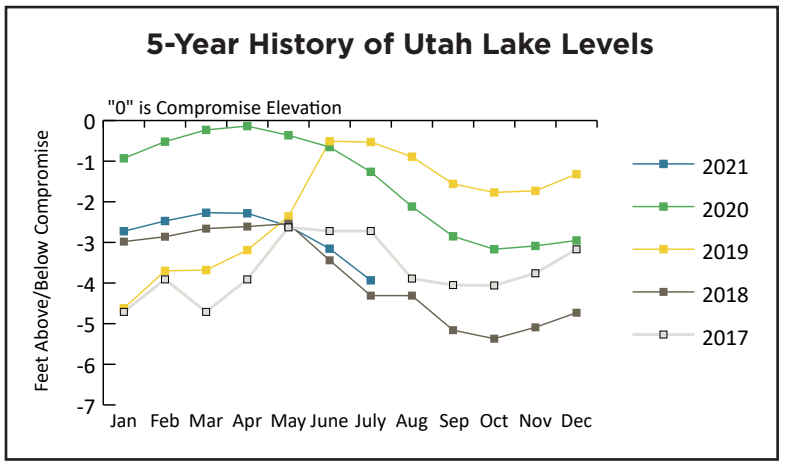
Deliveries

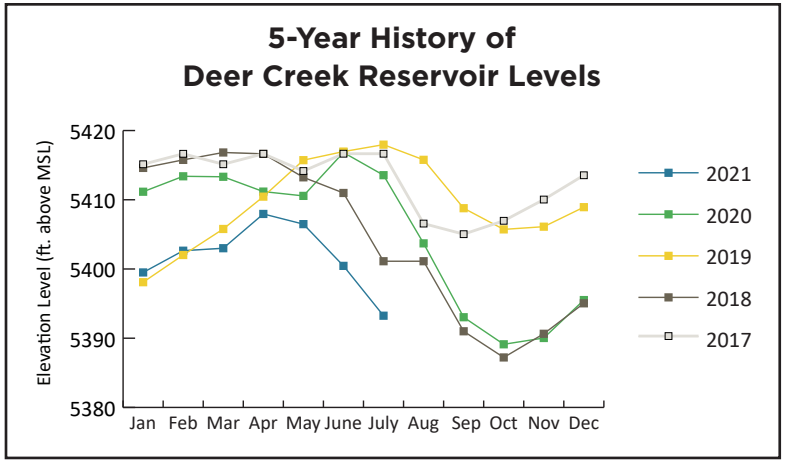
Supply History

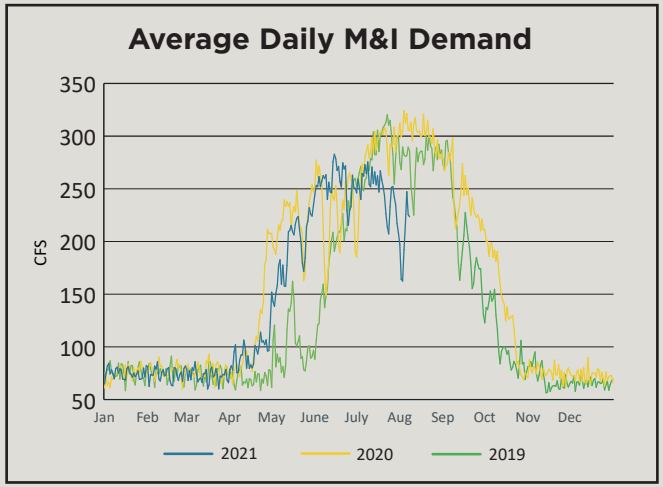


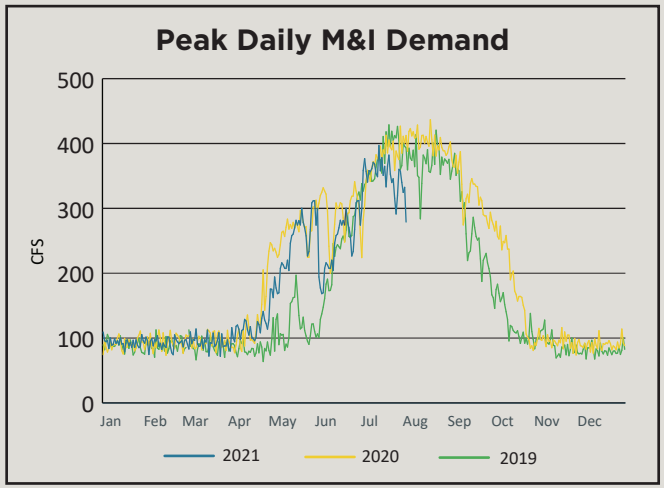
*Includes Southwest Groundwater Wells.
**Upper Provo River reservoirs, Weber River, Echo Reservoir, Bingham Canyon Water Treatment Plant, and Salt Lake County mountain streams.

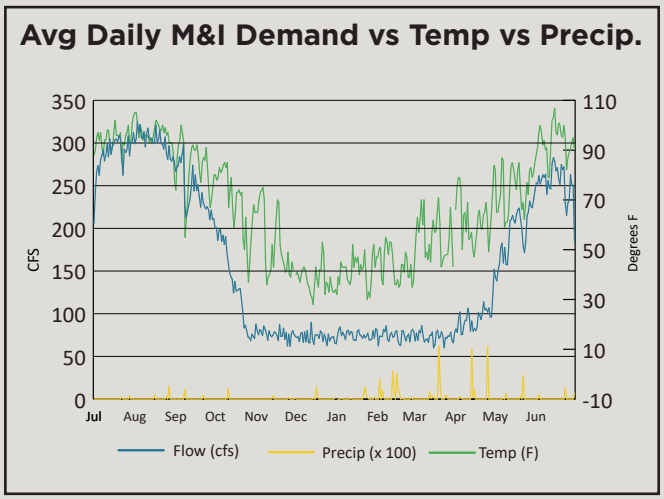


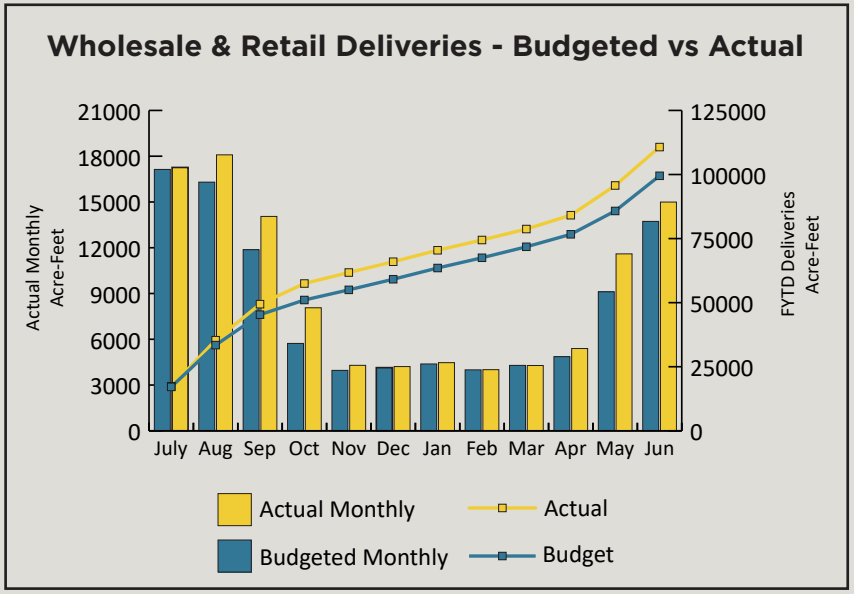


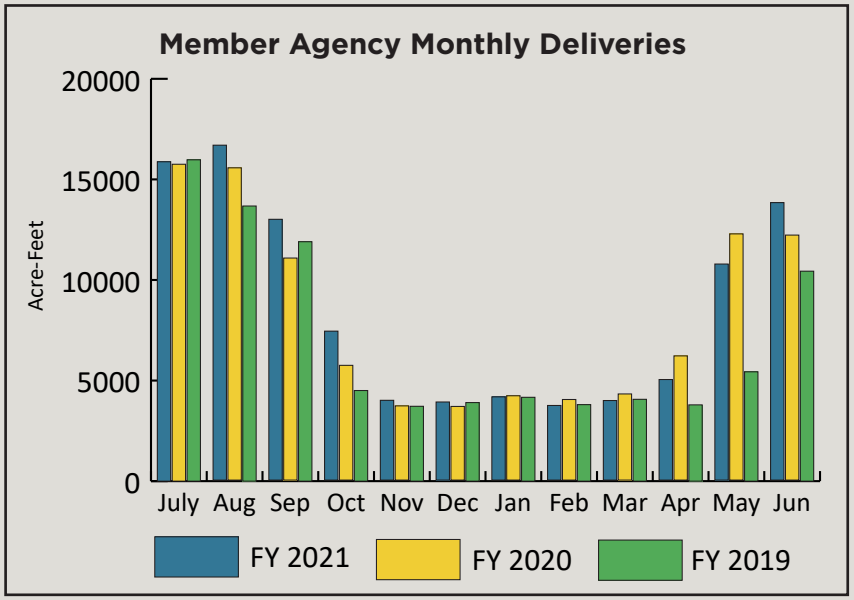










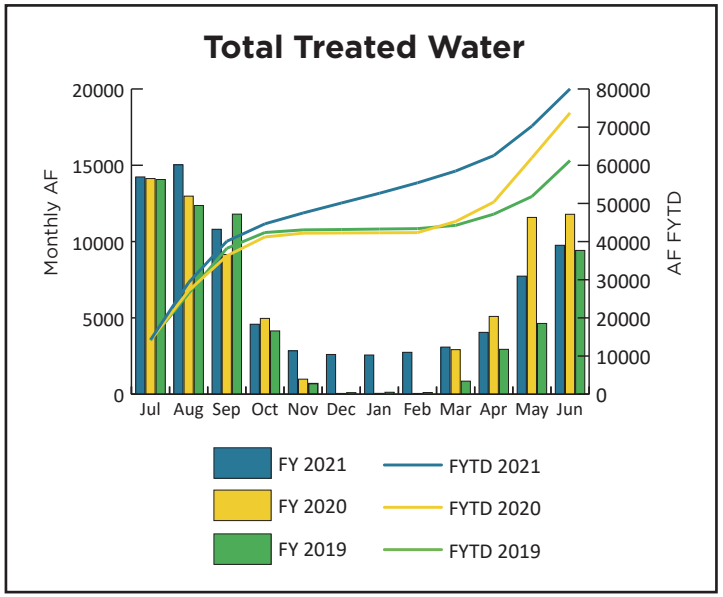


Contract deliveries are made to JVWCD's 17 wholesale member agencies.

Wholesale Deliveries

Treatment

	JVWTP	SERWTP	SWGWTP	TOTALS
General information	20/21	20/21	20/21	20/21
Rated capacity (MGD)	180	20	7	207
Capacity using standby power (MGD)	*180*	*20*	*0*	*200*
Maximum daily effluent flow (MGD)	169	17	5	189
Average daily flow during operation (MGD)	71	11	3	85
Percent of fiscal year in operation	99.9%	70.8%	77.4%	
Plant production (acre-feet)				
Total flow into plant	80,938	8,772	4,361	94,072
Plant use & loss	(907)	(205)	(1,697)	(2,809)
Total treated water to distribution system or injection wells	80,031	8,567	2,664	91,262
Direct Treatment O&M costs				
Personnel	$2,238,237	$594,129	$279,788	$3,112,154
Chemicals	$1,462,077	$214,078	$93,027	$1,769,183
Utilities	$362,888	$107,827	$327,099	$805,678
Materials, Equipment, & Other	$54,527	$59,065	$110,929	$224,521
Total treatment expenses	$4,117,728	$982,964	$810,844	$5,911,536
Treatment O&M cost per acre-foot delivered to distribution system.	$51.45	$114.74	$304.37	$64.77



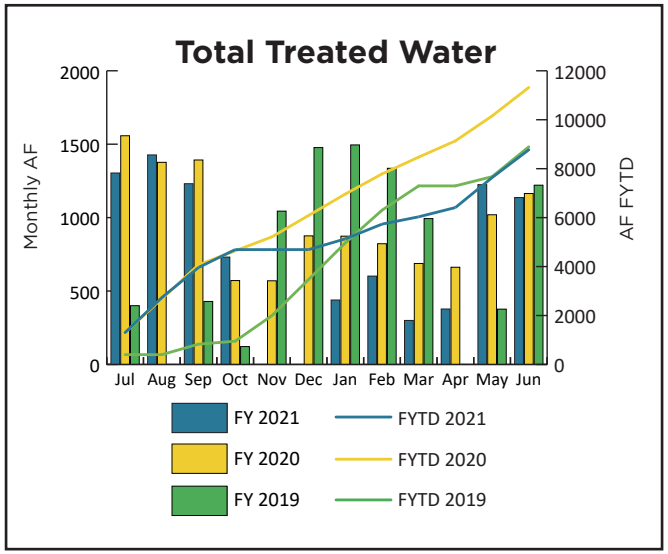
Jordan Valley Water Treatment Plant

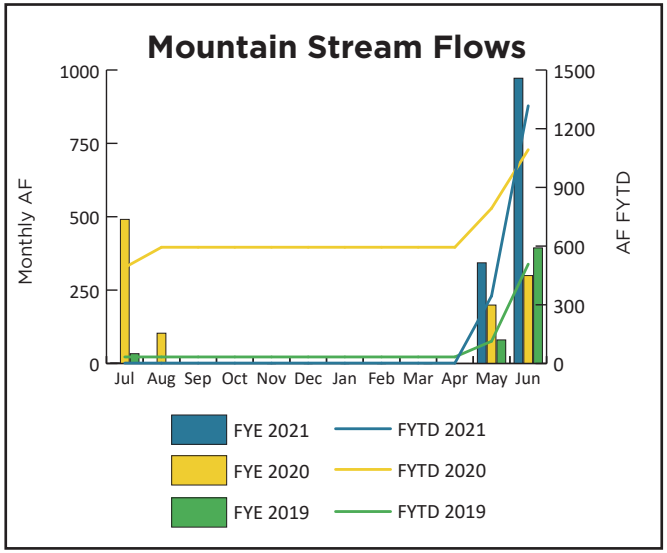
JVWTP is a conventional-process treatment plant with a rated capacity of 180 million gallons per day (MGD). Source water for the treatment plant is conveyed from the Provo River at the Olmsted Diversion, through the Jordan Aqueduct. Provo River water may also be diverted at the Murdock Diversion near 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 MWDSLS and 5/7 by JVWCD.

Gaps in graph data indicate the plants were off-line.

Southeast Regional Water Treatment Plant

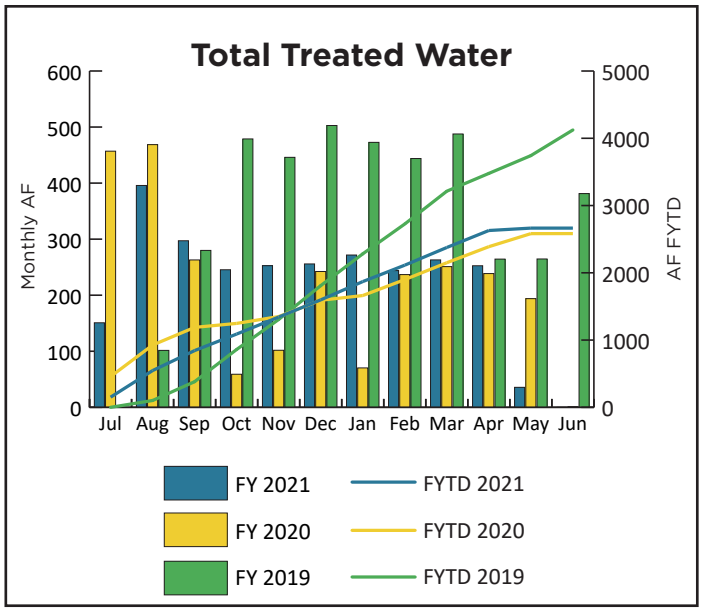
With a rated capacity of 20 MGD, SERWTP uses a unique process of high rate clarification to quickly settle suspended solids. The source water for the treatment plant is obtained from multiple sources. A portion of the water is conveyed through the Salt Lake Aqueduct, with the intake located at the base 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

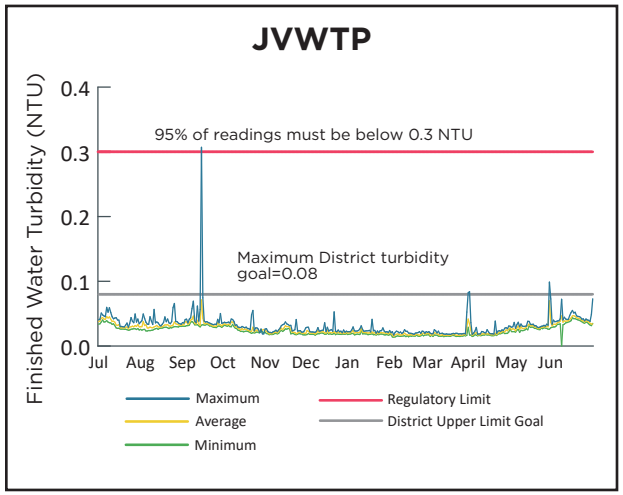
SWGWTP has a rated capacity of 7 million gallons per day. This plant uses reverse osmosis technology to treat mining-contaminated groundwater.



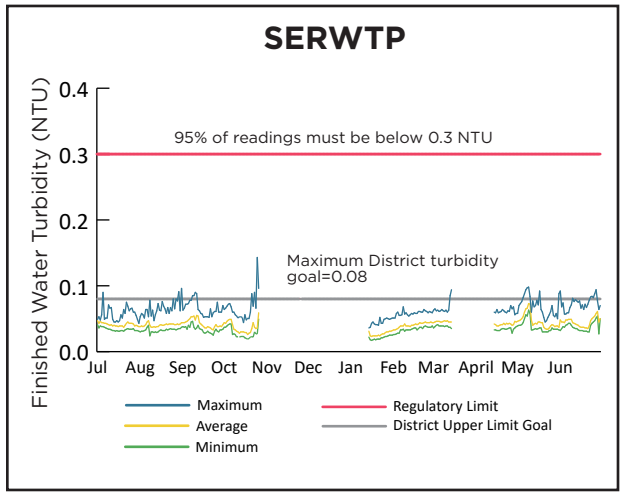
Water Quality

Turbidity

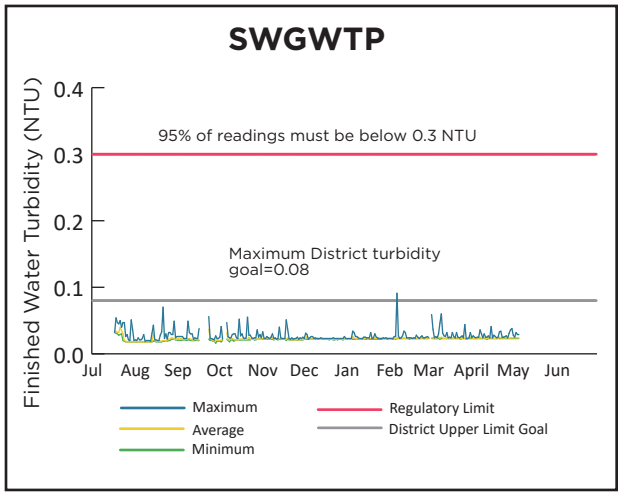
Current regulations for surface water require combined effluent turbidity to be below 0.3 NTU 95% of the time, and to never exceed 1.0 NTU. There are also requirements for individual filters. The Partnership for Safe Water has set a finished water turbidity goal of 0.1 NTU. Jordan Valley Water has adopted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



Avg finished water turbidity for the year:	0.032 NTU
Maximum finished water turbidity:	0.300 NTU
Daily District Goal below 0.08 NTU achieved for the year:	98.9%
Record for consecutive days in operation below 0.08 NTU:	833
Current days of operation below 0.08 NTU:	31



Avg finished water turbidity for the year:	0.041 NTU
Maximum finished water turbidity:	0.143 NTU
Daily District Goal below 0.08 NTU achieved for the year:	88.6%
Record for consecutive days in operation below 0.08 NTU:	732
Current days of operation below 0.08 NTU:	2



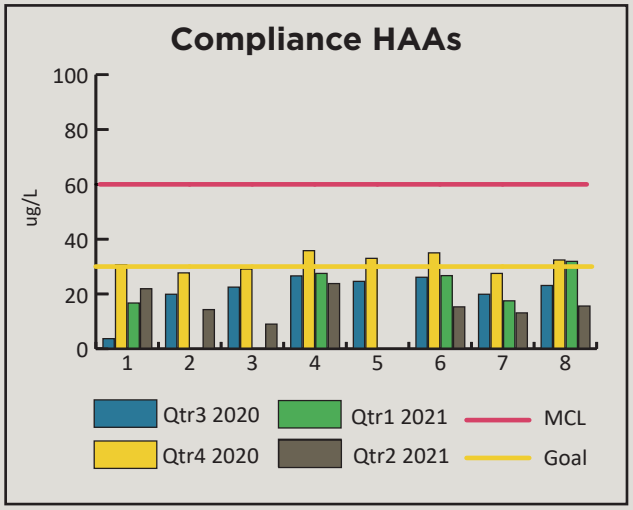
Avg finished water turbidity for the year:	0.02 NTU
Maximum finished water turbidity:	0.09 NTU
Daily Goal below 0.08 NTU achieved for the year:	100%
Record for consecutive days in operation below 0.08 NTU:	137
Current days of operation below 0.08 NTU:	284

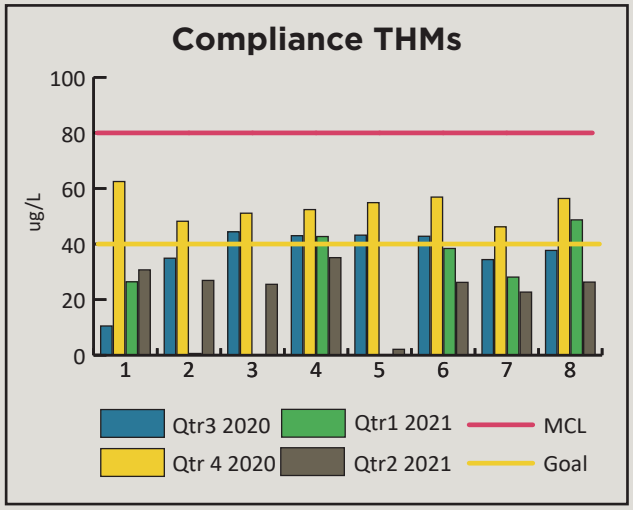
Disinfection By-Products (DBPs)

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. DBP levels tend to be highest at locations with high chlorine concentrations, long detention times, and higher outside temperatures. Typically October is when we see the highest concentrations at the District.

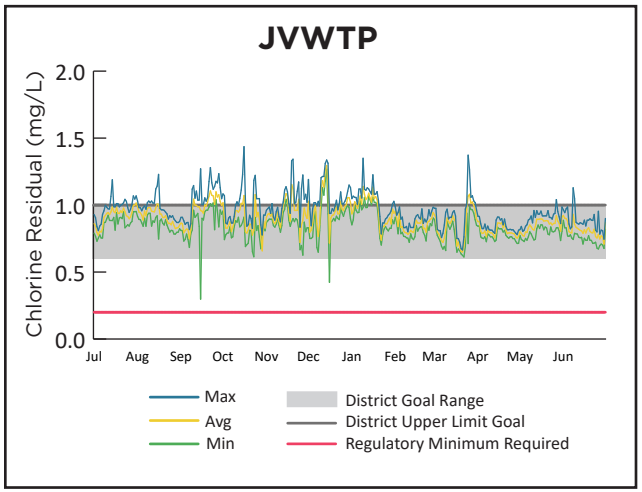
Testing locations:

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.

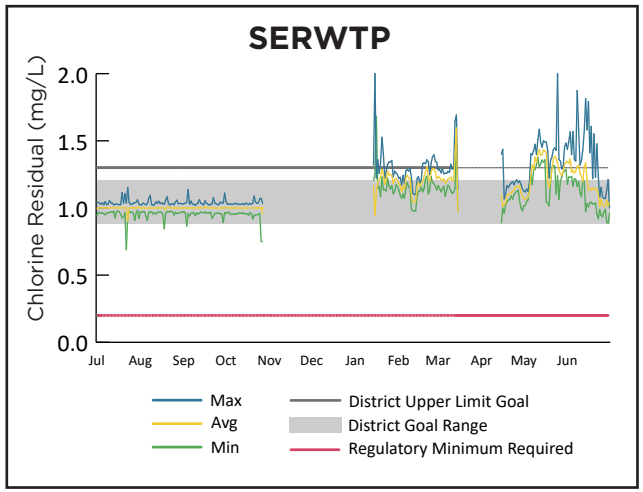




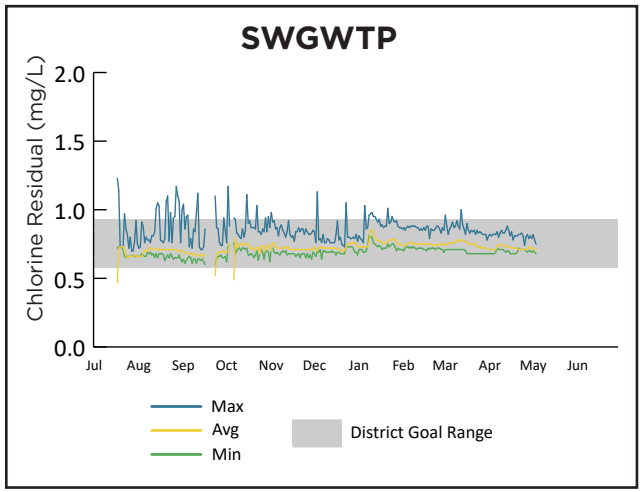
Chlorine Disinfection



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: 65%



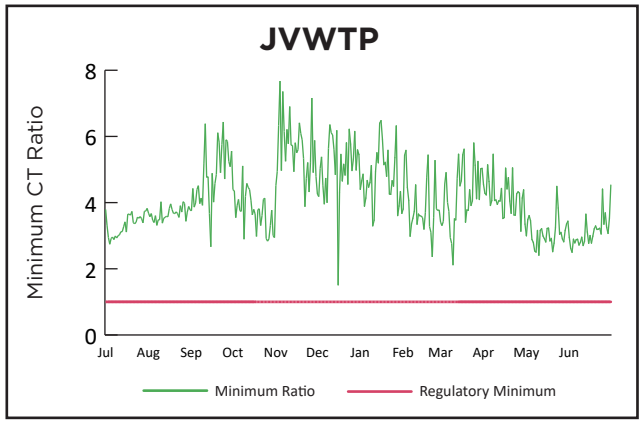
Average residual for the year: 1.11 mg/L
Maximum residual: 2.00 mg/L
Minimum residual: 0.55 mg/L
Goal achieved for the year: 81%



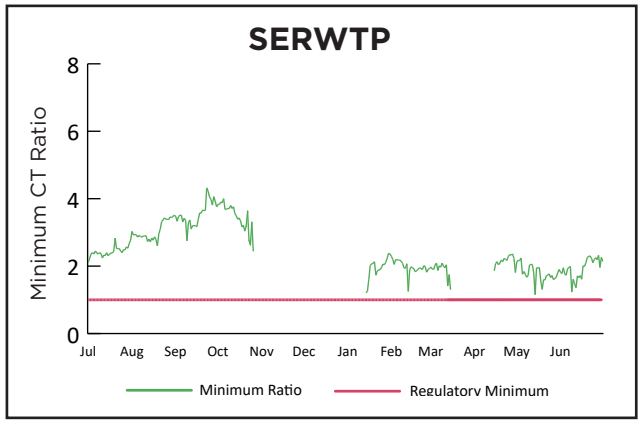
Average residual for the year: 0.72 mg/L
Maximum residual: 1.23 mg/L
Minimum residual: 0.40 mg/L
Goal achieved for the year: 80%

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: 4.32
Minimum CT ratio for the year: 1.51



Average CT ratio for the year: 3.46
Minimum CT ratio for the year: 1.15

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

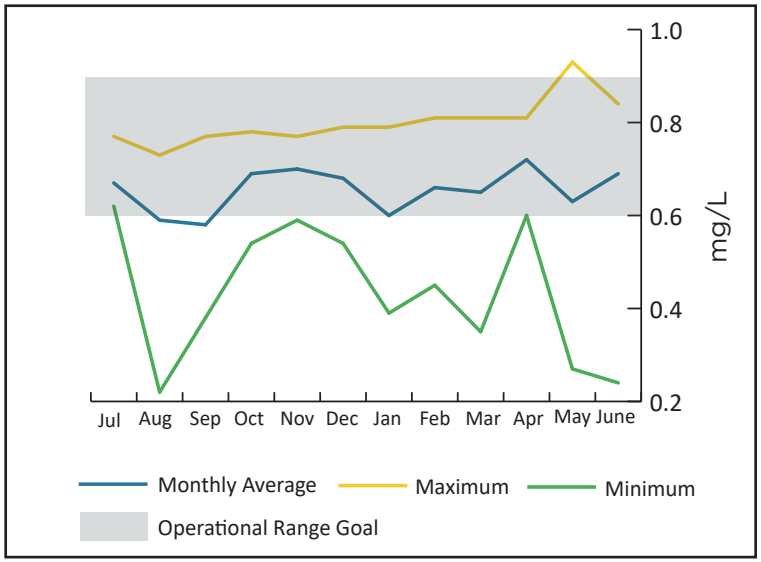
Month	Samples analyzed*	% Samples total coliform positive	# Samples fecal coliform positive	# HPC Samples Taken	# GWR Samples Taken	Free Chlorine Residual		
						Avg (mg/L)	Max (mg/L)	Min (mg/L)
July	117	0	0	1	3	0.73	1.01	0.04
August	134	0	0	0	5	0.71	1.23	0.12
Sept	123	0	0	0	0	0.68	1.05	0.14
October	120	0	0	1	0	0.70	1.42	0.05
Nov	106	0	0	0	0	0.65	1.20	0.15
Dec	101	0	0	0	0	0.62	1.05	0.12
January	116	0	0	0	0	0.71	1.48	0.12
February	118	0	0	0	4	0.70	1.27	0.18
March	121	0	0	0	0	0.77	1.28	0.29
April	119	0	0	0	0	0.75	1.44	0.30
May	102	0	0	1	0	0.73	1.29	0.03
June	111	0	0	1	11	0.73	1.12	0.04
Totals	**1388**	**0**	**0**	**4**	**23**			

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.

*The Revised Total Coliform Rule requires that public water systems shall monitor for total coliforms at a frequency based on the population served. Currently, Jordan Valley Water is required to take a minimum of 80 coliform samples per month.

Fluoride Data

Fluoride is regulated on a county-wide basis by the Salt Lake County 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.



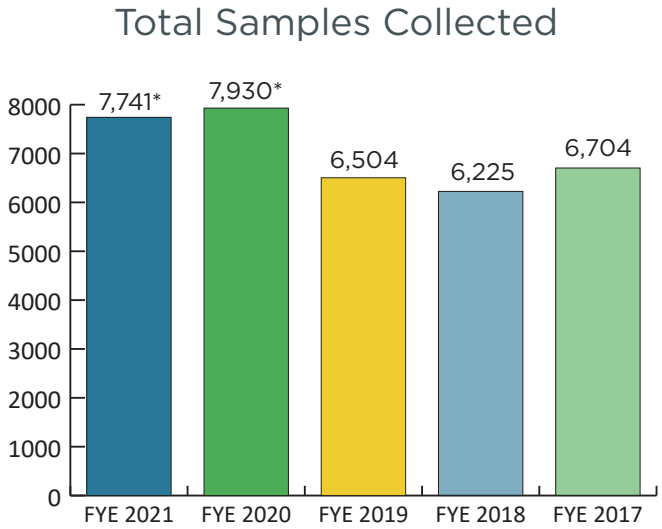
Total Samples Collected

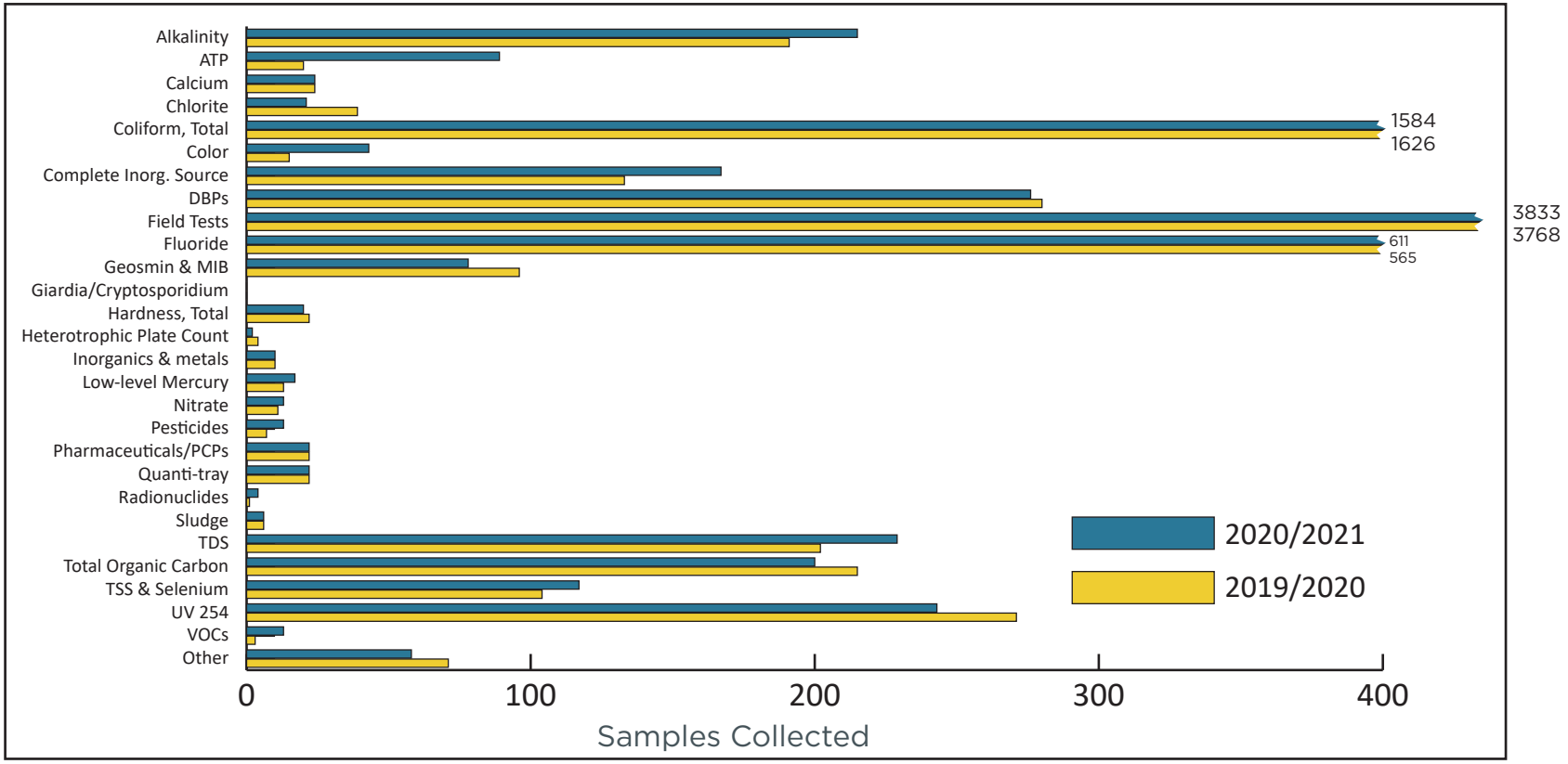
Sampling sites include JVWTP, SERWTP, SWGWTP, distribution system, mountain streams, Jordan & Provo Rivers, and various sites in response to customer calls.

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

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

* The Revised Total Coliform Rule requires that public water systems shall monitor for total coliforms at a frequency based on the population served. Currently, JVWCD is required to take a minimum of 80 coliform samples per month.

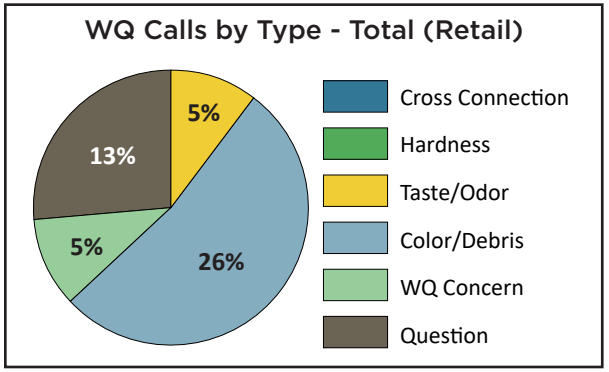




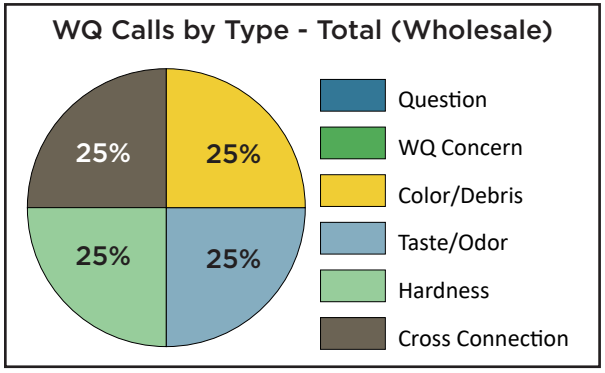
Water Quality Customer Call Data

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 influences 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.

RETAIL CALLS					
Type of Call	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	FYTD
Cross Connection	0	0	0	0	0%
Hardness	0	0	0	0	0%
Taste/Odor	1	0	0	1	5%
Color/Debris	4	1	4	1	26%
WQ Concern	0	0	1	1	5%
Question	1	2	1	1	13%
Total Calls	6	3	6	4	19



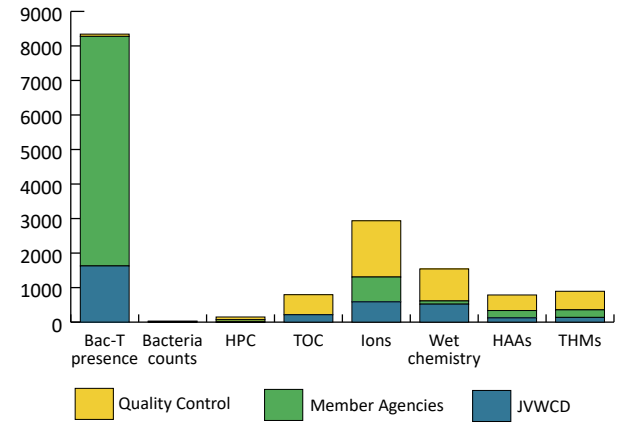
WHOLESALE CALLS					
Type of Call	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	FYTD
Cross Connection	0	0	0	0	0%
Hardness	0	0	0	0	0%
Taste/Odor	1	0	0	1	5%
Color/Debris	4	1	4	1	26%
WQ Concern	0	0	1	1	5%
Question	1	2	1	1	13%
Total Calls	6	3	6	4	19



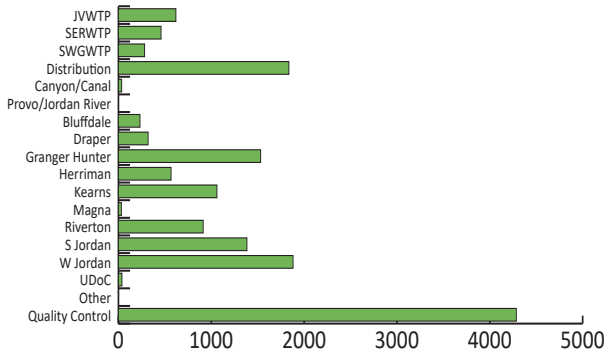
Laboratory

The Laboratory (Lab) provides analytical services and general support for several departments of Jordan Valley Water and many of its member agencies. This decreases the budget required for outside analyses and provides customized services. Similar benefits are passed to Jordan Valley Water's member agencies, who also receive analytical and technical services at discounted prices. While it is not feasible for the Lab to run every analysis required for Jordan Valley Water and its member agencies, the Lab maintains certifications for the analyses that represent the largest regulatory load.

Samples by Analysis Type

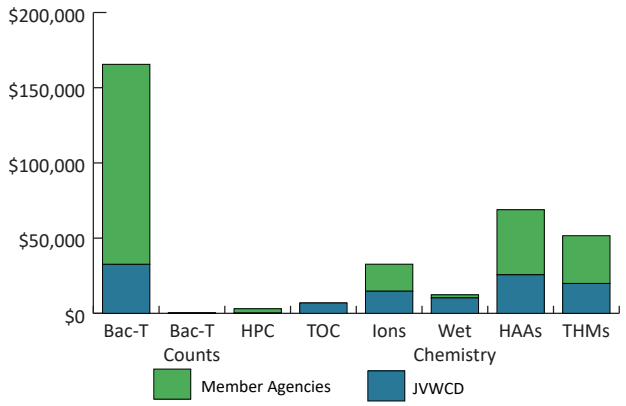


Total Analyses by Location

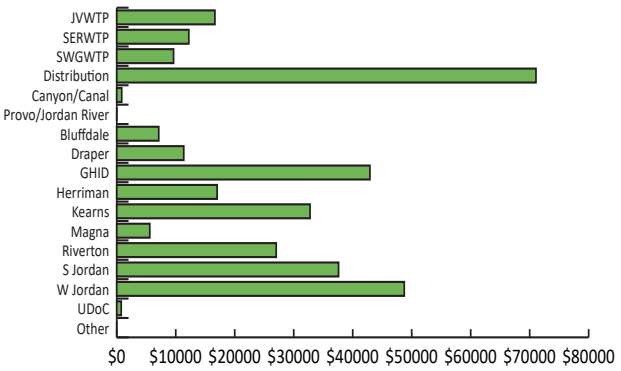


Total Samples Analyzed 2020/2021 = 15,475
Total Samples Analyzed 2019/2020 = 17,100

Total Value by Sample Type



Total Value by Location



Total Value of Analyses 2020/2021 = $341,316
Total Value of Analyses 2019/2020 = $339,780

Groundwater

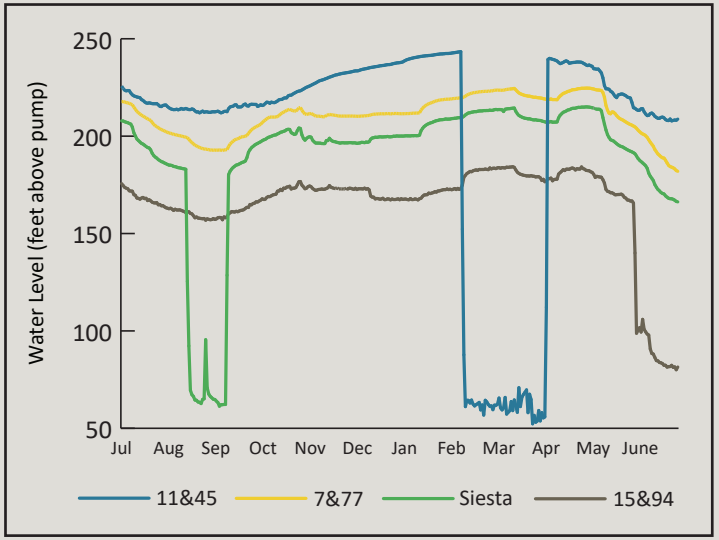
	Location	Design Capacity (cfs)	Well Setting Level (ft)	Flow rate w/stand-by or portable generators (cfs)	**2020/21** Avg Flow Rate (cfs)	**2020/21** Days of Operation	**2020/21** Annual Production (AF)	**2019/20** Annual Production (AF)	**2018/19** Annual Production (AF)	**2020/21** Total Power Cost	**2020/21** Average Cost/AF	**2019/20** Water Level (feet above pump)		
												Max	Min	Avg
1	2500 E. Creek Rd	2.8	440	N/A	2.6	77	380	284	396	$ 14,525.01	$ 38.27	100	69	91
2	1787 E. Creek Rd	5.0	440	N/A	0.0	0	0	0	0	$ 2,337.19	$ 0.00	160	160	160
3	7751 S. 1300 East	4.0	402	N/A	0.0	0	0	0	0	$ 784.54	$ 0.00	161	114	144
4	7750 S. 1000 East	3.1	401	N/A	2.3	7	23	0	0	$ 3,179.64	$ 141.30	185	135	184
5	8200 S. 1000 East	2.0	356	N/A	0.0	0	0	0	0	$ 200.67	$ 0.00	193	145	177
6	7700 S. 700 East	5.6	375	N/A	0.0	0	0	188	98	$ 750.07	$ 0.00	225	182	211
7	8201 S. 700 East	2.2	444	N/A	2.2	72	299	0	0	$ 16,429.42	$ 54.94	268	47	223
8	1200 E. 9400 South	1.8	480	N/A	0.0	0	0	0	0	$ 565.67	$ 0.00	170	120	153
9	1368 E. 6400 South	5.0	265	5.0[a]	2.5	22	105	927	732	$ 3,294.82	$ 31.27	173	60	156
10	8651 S. 1300 East	4.0	550	N/A	0.0	0	0	0	0	$ 222.62	$ 0.00	170	170	170
11	8148 S. 1330 East	7.0	505	N/A	7.0	79	1073	0	0	$ 78,947.55	$ 73.57	246	126	202
12	1307 E. 6860 South	4.7	322	N/A	4.9	102	965	967	151	$ 40,264.19	$ 41.73	190	22	151
13	9125 S. 500 West	2.0	150	N/A	N/A	0	0	0	0	$ 810.80	$ 0.00	N/A	N/A	N/A
14	2090 E. 8600 South	2.5	520	N/A	0.0	0	0	0	0	$ 2,543.08	$ 0.00	220	201	213
15	1500 E. 9400 South	9.5	640	N/A	9.4	29	533	86	2,176	$ 20,116.74	$ 37.75	185	79	165
16	1530 W. 14600 South	4.5	150	N/A	0.0	0	0	338	0	$ 2,671.63	$ 0.00	145	109	140
17	300 E. 4500 South	0.7	200	N/A	N/A	0	0	0	0	$ 901.57	$ 0.00	N/A	N/A	N/A
18	9390 S. Solena Way	4.8	635	N/A	4.2	7	52	0	0	$ 9,593.72	$ 184.27	134	70	126
19	2300 E. 9800 South	4.1	760	N/A	0.0	0	0	0	0	$ 2,587.17	$ 0.00	161	161	161
20	1155 E. Webster Dr.	9.0	465	N/A	9.1	62	1094	0	251	$ 85,593.50	$ 78.24	182	98	156
21	9003 S. Quail Hollow	2.2	800	N/A	2.2	96	414	0	345	$ 31,737.47	$ 76.69	217	50	174
22	1600 E. Siesta Drive	9.6	422	N/A	7.5	27	382	1,276	749	$ 44,409.09	$ 116.25	215	59	190
23	1526 E. 8600 South	8.5	580	N/A	9.1	29	506	73	1,935	$ 44,205.13	$ 87.34	197	87	172
24	8518 S. 960 East	6.0	460	N/A	0.0	0	0	240	788	$ 2,929.89	$ 0.00	208	208	208
25	1159 E. 4500 South	2.2	282	N/A	1.3	56	142	0	0	$ 10,676.69	$ 74.99	243	47	201
26	1850 E. Newbury Dr.	8.9	620	8.9[a]	7.2	59	837	0	0	$ 61,074.03	$ 73.00	262	116	167
27	275 E. Carol Way	2.9	460	N/A	2.0	9	33	0	150	$ 2,823.46	$ 85.55	361	219	347
28	4670 S. 1590 East	3.8	450	N/A	3.1	28	168	389	405	$ 13,661.34	$ 81.31	437	157	410
29	1028 E. College St.	4.0	400	N/A	2.1	50	208	371	289	$ 7,848.14	$ 37.69	368	293	349
30	1784 E. Creek Rd	7.1	700	N/A	7.9	127	1,963	1,256	763	$ 140,176.98	$ 71.40	404	203	346
31	8578 S. Moniter Dr.	8.0	530	8.0[a]	8.1	69	1042	0	0	$ 61,497.28	$ 59.04	182	95	160
32	Prison Well[c]	0.9	N/A	N/A	1.0	120	122	492	46.39	$ see note c	$ note c	N/A	N/A	N/A
	Totals/Averages:	148.4		22.90	3.3	44	10 219	6,395[b]	9,228[b,d]	$ 707,359,10	$ 52.23			

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 might be 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	Location	Current Capacity (cfs)	Flow rate w/standby or portable generators (cfs)	Total Horse-power	Average Dynamic Lift (ft)	**2020/21** Average Flow Rate (cfs)	**2020/21** Annual Production (AF)	**2019/20** Annual Production (AF)	**2018/19**** Annual Production (AF)	**2020/21** Total Power Cost	**2020/21** Average Cost/AF	**2020/21** Days of Operation
A So.	4706 Naniloa Drive	12.0	N/A	300	N/A	0.0	0	0	0	$ 3,303.96	$ N/A	N/A
B No.	4500 S. 4800 West	63.8	14.0	1625	200	13.2	7,172	7,308	5,139	$ 147,798.91	$ 20.61	341
B No.	6200 S. 3200 West	41.0	12.0	1500	180	16.2	8,221	8,973	5,868	$ 154,171.09	$ 18.75	329
B No.	5820 S. 3800 West	24.0	14.0*	650	180	12.3	3,985	3,298	2,993	$ 94,874.30	$ 23.81	217
B No.	3145 W. 11400 South	42.0	9.3*	900	110	14.3	4,201	5,606	5,354	$ 96,477.76	$ 22.97	150
B So.	3600 W. 10200 South	44.0	5.0*	2000	350	12.9	5,883	4,774	3,992	$ 206,492.06	$ 35.10	289
B E.	110 E. 11400 South	28.0	8.0	1200	320	4.6	301	755	884	$ 12,759.40	$ 42.41	77
C So.	13400 S. 3300 West	40.0	10.0*	2400	495	13.3	6,921	5,643	5,080	$ 281,512.23	$ 40.68	327
C So.	3200 W. 11800 South	55.0	17.8	3900	495	15.3	10,254	10,437	8,378	$ 486,150.69	$ 47.41	363
C So.	5700 W. 10200 South	22.8	N/A	750	240	6.9	2,717	1,665	519	$ 81,955.20	$ 30.16	252
C So.	15305 S. 3200 West	8.0	4.0	400	280	2.5	1,242	1,201	1,166	$ 36,018.00	$ 29.00	365
C E.	10730 S. 1300 East	22.0	N/A	400	100	14.8	1,111	62	3,307	$ 18,644.43	$ 16.79	39
D So.	6924 Old Bingham Hwy	25.0	12.0	800	280	6.4	1,754	1,022	1,121	$ 90,133.69	$ 51.40	290
	Totals/Averages:	427.6	106.1	16,825	269	10.2	53,762	50,744	43,803	$ 1,710,291.72	$ 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 Water Quality Summary

Monitoring and reporting for the Aquifer Storage & Recovery (ASR) project is regulated by the Division of Water Quality's Underground Injection Crontrol 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. Jordan Valley Water has 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.

Aquifer Storage & Recovery

	Volume Injected (AF)	108th So. (north flow)	Total	Net Saved[a]	Total Well Production
Jul	0	934.09	934.09	934.09	740.68
Aug	0	898.4	898.4	898.4	1144.4
Sep	0	817.76	817.76	817.76	591.02
Oct	0	440.4	440.4	440.4	215.05
Nov	0	364.92	364.92	364.92	848.55
Dec	0	311.5	311.5	311.5	965.77
Jan	0	190.04	190.04	190.04	723.66
Feb	0	198.68	198.69	198.68	276.33
Mar	0	224.67	224.67	224.67	439.57
Apr	0	364.63	364.63	364.63	223.29
May	0	132.49	132.49	132.49	1298.94
June	0	0.71	0.71	0.71	2751.02
Yearly Total	**0**	**4,878.3**	**4,878.3**	**4,878.3**	**10,218.29**

These are based on calendar months, not power months.

a) 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.

System Storage

Address (informal)	Steel	Concrete	Year Built	Elevation (ft)	
				Floor	Ovfl
14445 S Minute-man 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		

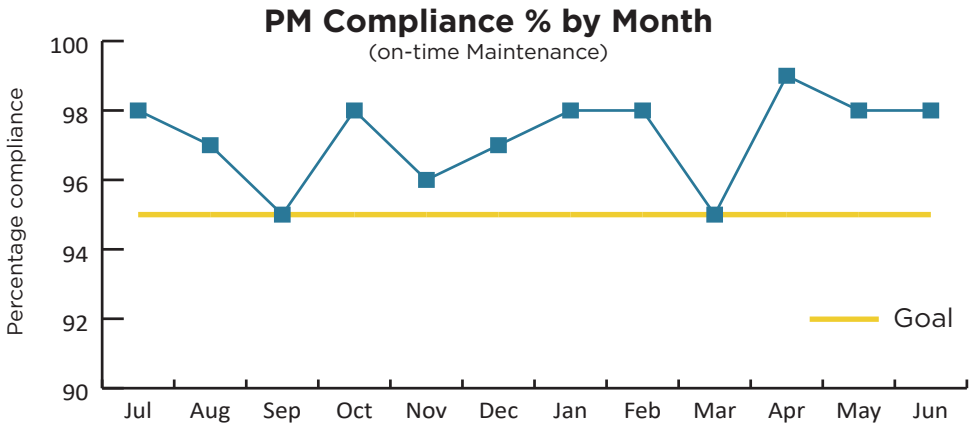
Reservoirs are scheduled for inspection every three years, which includes cleaning, inspecting, and making repairs as necessary. Inspections are performed by staff and an outside licensed engineering contractor.

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

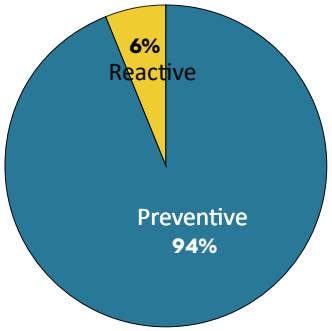
Address (informal)	Steel	Concrete	Year Built	Elevation (ft)	
				Floor	Ovrfl
7986 W New Bingham Hwy (Zone D) basins 1 & 2		3 MG	2008	5355	5375
		3 MG			
2718 E Durban Rd (2300 E 9400 S)	1 MG		1956	4936	4968
	2 MG		1964		
9785 S Eastdell Dr (2300 E 9800 S)		6 MG	1970	4947	4968
4772 S Naniloa Dr (Casto 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 (57th & 102)		3 MG	1981	4931	4959
6898 W Old Bingham Hwy (Old Bingham)		3 MG	1976	5128	5148

Hours Logged

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). Jordan Valley Water schedules and tracks all of its PM and has a goal of completing at least 95% of this work on time.

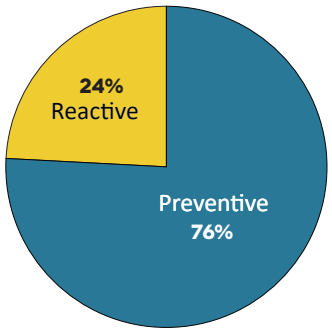


Aqueduct/Transmission Lines



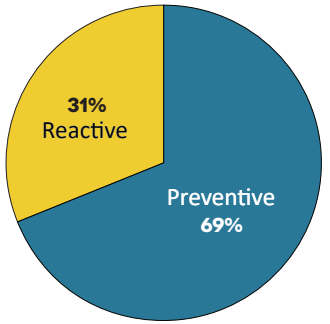
Total Hrs past 5 yrs
2020/2021: 477
2019/2020: 427
2018/2019: 303
2017/2018: 592
2016/2017: 2,769

SWGWTP Total Hours



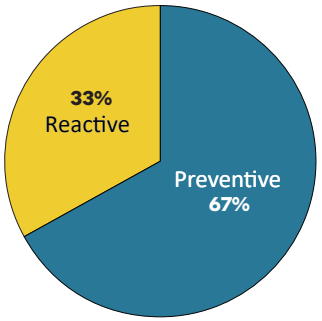
Total Hrs past 5 yrs
2020/2021: 971
2019/2020: 1,169
2018/2019: 1,735
2017/2018: 769
2016/2017: 1,132

SERWTP Total Hours



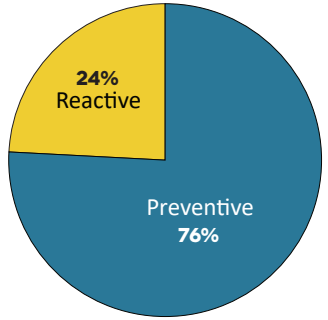
Total Hrs past 5 yrs
2020/2021: 2,441
2019/2020: 2,524
2018/2019: 1,735
2017/2018: 1,407
2016/2017: 1,372

JVWTP Total Hours



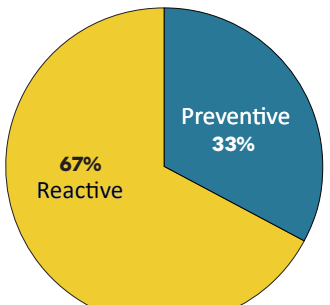
Total Hrs past 5 yrs
2020/2021: 2,829
2019/2020: 2,674
2018/2019: 4,616
2017/2018: 4,306
2016/2017: 5,572

Distribution Total Hours



Total Hrs past 5 yrs
2020/2021: 32,627
2019/2020: 31,767
2018/2019: 29,496
2017/2018: 33,327
2016/2017: 28,737

Fleet/Equipment Total Hours



Total Hrs past 5 yrs
2020/2021: 3,494
2019/2020: 3,673
2018/2019: 3,114
2017/2018: 3,412
2016/2017: 1,800

Vehicles

VEH #	YEAR	MAKE & MODEL	END ODOM	GAL-LONS USED	MILES DRIVEN	MPG	MAINT. COSTS FYTD
Operations							
118	2008	Ford 4x4 Expedition	155,085	612.8	6,737	11.0	$203.0
203	2009	Chevy 1/2 Ton 4x4 Pk	115,180	1,006.8	12,494	12.4	$960.3
246	2008	Chevy 3/4 Ton 4x4 Pk	103,185	949.9	11,298	11.9	$403.6
700	2011	Dodge Nitro	113,303	602.7	8,023	13.3	$289.1
701	2011	Dodge 1/2 Ton Ext 4x4	124,727	887.7	9,748	11.0	$1,690.0
703	2014	Ford F150 Ext 4x4 Pk	93,528	1013.7	11,840	11.7	$131.7
704	2014	Ford Explorer 4x4 SUV	108,801	743.0	14,431	19.4	$81.5
712	2015	Chevy 1/2 Ton Ext Cab 4x4	70,700	717.7	9,109	12.7	$117.7
715	2015	Ford Explorer 4x4 SUV	36,838	602.0	10,983	18.2	$135.7
716	2017	Ford Explorer 4x4 SUV	46,973	626.3	10,903	17.4	$1,151.8
718	2016	Ford F150 Ext 4x4 Pk	68,254	871.6	11,701	13.4	$165.9
720	2016	Ford F150 Ext 4x4 Pk	44,757	747.9	9,870	13.2	$133.8
727	2018	Dodge 1/2 Ton Ext 4x4.	31,864	906.1	13,223	14.6	$44.7
728	2018	Dodge 1/2 Ton Ext 4x4	18,401	312.1	5,231	16.8	$44.7
732	2019	Dodge 1/2 Ton Ext 4x4	17,726	745.8	11,471	15.4	$119.3
735	2019	Toyota RAV SUV	16,942	293.5	12,132	41.3	$228.9
Totals		**16 Vehicles**		**11,639.6**	**169,194**	**14.5**	**$5,901.50**
Administration/Engineering/Conservation							
248	2008	Chevy 3/4 Ton Ext 4x4	138,518	832.0	8,953	10.8	$194.9
725	2015	Ford Explorer 4x4 SUV	29,199	177.0	3,443	19.5	$188.1
Totals		**2 Vehicles**		**1,009.0**	**12,396**	**12.3**	**$382.99**
IS/Electronics & Instrumentation							
228	2009	Chevy 3/4 Ton Ext 4x4	122,270	542.5	6,331	11.7	$277.66
229	2009	Chevy 3/4 Ton Ext 4x4	121,565	1,300.3	17,949	13.8	$222.02
256	2008	Chevy 3/4 Ton Ext 4x4	116,977	617.8	6,956	11.3	$787.19
710	2015	Ford F250 Supr Cab	59,228	889.0	9,531	10.7	$242.93
717	2015	Ford Explorer SUV	37,696	262.7	5,458	20.8	$161.53
740	2020	Ford F-250 Svc Truck	6,247	597.3	6,247	10.5	$23.10
741	2020	Ford F-250 Svc Truck	9,218	771.6	9,218	11.9	$23.10
Totals		**7 Vehicles**		**4,981.2**	**61,690**	**12.4**	**$1,737.53**

VEH #	YEAR	MAKE & MODEL	END ODOM	GAL-LONS USED	MILES DRIVEN	MPG	MAINT. COSTS FYTD
Maintenance							
106	2004	Chevy 4x4 Tahoe	134,250	537.6	7,489	13.9	$97.12
117	2005	Chevy 4X4 Tahoe	163,576	578.2	7,923	13.7	$126.04
202	2009	Chevy 1/2 Ton 4X4 Pk	109,052	913.3	12,769	14.0	$282.44
211	2003	Chevy 1/2 Ton Pk	116,780	807.8	7,018	8.7	$536.82
238	2005	Chevy 1/2 Ton Pk	113,798	467.8	6,330	13.5	$623.44
251	2006	Chevy 1 Ton 4X4 Pk	120,924	567.8	5,271	9.3	$424.67
254	2017	Chevy 3/4 Ton 4X4	122,482	992.9	10,216	10.3	$106.73
257	2008	Chevy 1/2 Ton Pk	113,715	702.3	8,321	11.8	$157.48
258	2009	Chevy 1/2 Ton Pk	128,873	509.4	6,178	12.1	$166.67
259	2008	Chevy 1/2 Ton Ext Cab 4X4	84,065	687.5	5,596	8.1	$80.64
300	2004	Ford 550 Svc Truck	134,078	976.3	9,531	9.8	$740.42
301	2008	Ford F550 Svc Truck	144,630	905.9	6,167	6.8	$727.80
308	2008	Ford F550 Svc Truck	135,608	799.3	4,332	5.4	$943.50
311	2014	Dodge Crew Cab 4X4	94,783	763.8	6,618	8.7	$684.85
313	2008	Dodge Ram 5500 Svc Truck	141,335	1,157.2	10,187	8.8	$808.56
409	2004	Intl 4400 Dump Truck Diesel	57,132	496.10	2,902	5.8	$678.49
410	2009	NAT 7600 Dump Truck	56,560	1,630.0	5,637	3.5	$1,063.34
411	2009	NAT 7600 Dump Truck	55,499	1,541.8	4,945	3.2	$1,554.44
412	2016	Intl Dump Truck	25,910	1,658.5	5,624	3.4	$154.99
413	2017	Mac Vack Truck	14,961	2,070.2	4,033	1.9	$73.07
702	2011	Dodge 1/2 Ton Ext 4X4 Pk	130,594	499.3	5,939	11.9	$738.88
705	2014	F150 Crew Cab 4X4	60,900	610.0	7,559	12.4	$304.87
706	2015	Ford F550 Svc Truck	62,237	1,439.6	8,979	6.2	$232.14
707	2015	Ford F350 Svc Truck	47,500	745.5	6,759	9.1	$69.30
708	2015	Chevy Colorado 4x4 Ext	44,863	783.6	9,753	12.4	$165.87
709	2015	Chevy Colorado 4X4 Ext Pk	46,176	643.2	7,296	11.3	$79.20
711	2015	Ford F350 Supercab 4X4	38,132	746.6	5,921	7.9	$81.86
713	2015	Chevy 1/2 Ton Ext Cab 4x4	99,010	1,463.1	21,278	14.5	$330.40
714	2015	Chevy 1/2 Ton Ext Cab 4x4	76,663	1,302.3	16,754	12.9	$834.82
719	2016	Ford F150 Ext 4x4 Pk	71,083	691.8	11,777	17.0	$158.93
721	2016	Ford F250 Svc Truck	52,539	1,008.2	10,924	10.8	$1,819.61
722	2016	Ford F350 Dump	39,704	638.8	5,595	8.8	$243.22
723	2016	Ford Explorer 4x4 SUV	52,033	444.0	9,321	21.0	$163.91
724	2016	Ford F350 Svc Truck	36,997	1,026.8	7,023	6.8	$344.31
726	2018	Dodge 1/2 Ton Ext 4x4 Pk	42,054	762.8	13,152	17.2	$19.80
729	2018	Ford F550 Svc Truck	33,881	1,739.6	13,521	7.8	$2,114.05
730	2018	Ford F550 Svc Truck	36,024	1,661.5	14,495	8.7	$276.6
731	2018	Ford Fusion Sedan	14,464	161.9	6,619	40.9	$56.3
733	2019	Dodge 1/2 Ton Ext 4x4	32,456	910.0	15,743	17.3	$91.4
734	2019	Dodge 1/2 Ton Ext 4x4	12,600	364.5	6,117	16.8	$114.7
736	2020	Ford F550 Svc Truck	9,692	1,293.7	9,692	7.5	$55.0
737	2020	Ford F550 Svc Truck	6,768	937.4	6,758	7.2	$25.1
738	2019	Toyota RAV 4 SUV	16,043	316.8	10,936	34.5	$229.9
739	2019	Ford 1/2 Ton 4X4 Pk	10,460	463.9	7,659	16.5	$79.8
742	2020	Chevy 1500 Dbl Cab 4X4	7,735	447.2	7,735	17.3	$46.2
743	2020	Chevy 1500 Dbl Cab 4x4	6,461	391.3	6,461	16.5	$119.90
744	2020	Chevy 5500 Svc Truck	6,158	569.6	5,358	9.4	$33.00
Totals		**47 Vehicles**		**40,826.6**	**396,211**	**9.7**	**$18,860.37**

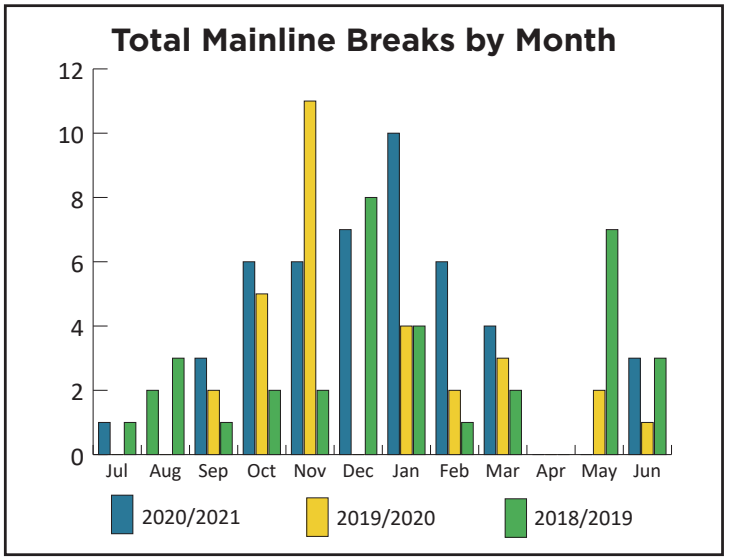
5-Year Totals

	Gallons Used	Miles Driven	MPG	Maint. Cost	Fleet Size
2020/2021	58,456	639,491[a]	10.9	$26,882.19	72[a]
2019/2020	49,625	542,740	10.9	$37,785.17	65
2018/2019	50,840	555,974	10.9	$36,943.05	66
2017/2018	59,270	541,208	9.78	$36,220.34	66
2016/2017	55,512	554,480	9.98	$27,892.40	71

a) Mileage increased and the fleet was larger in 2020/2021 to accommodate social distancing during COVID. No employees were able to ride together, which increased vehicles used and miles driven. Surplussing 7 vehicles was postponed to accommodate using separate vehicles.

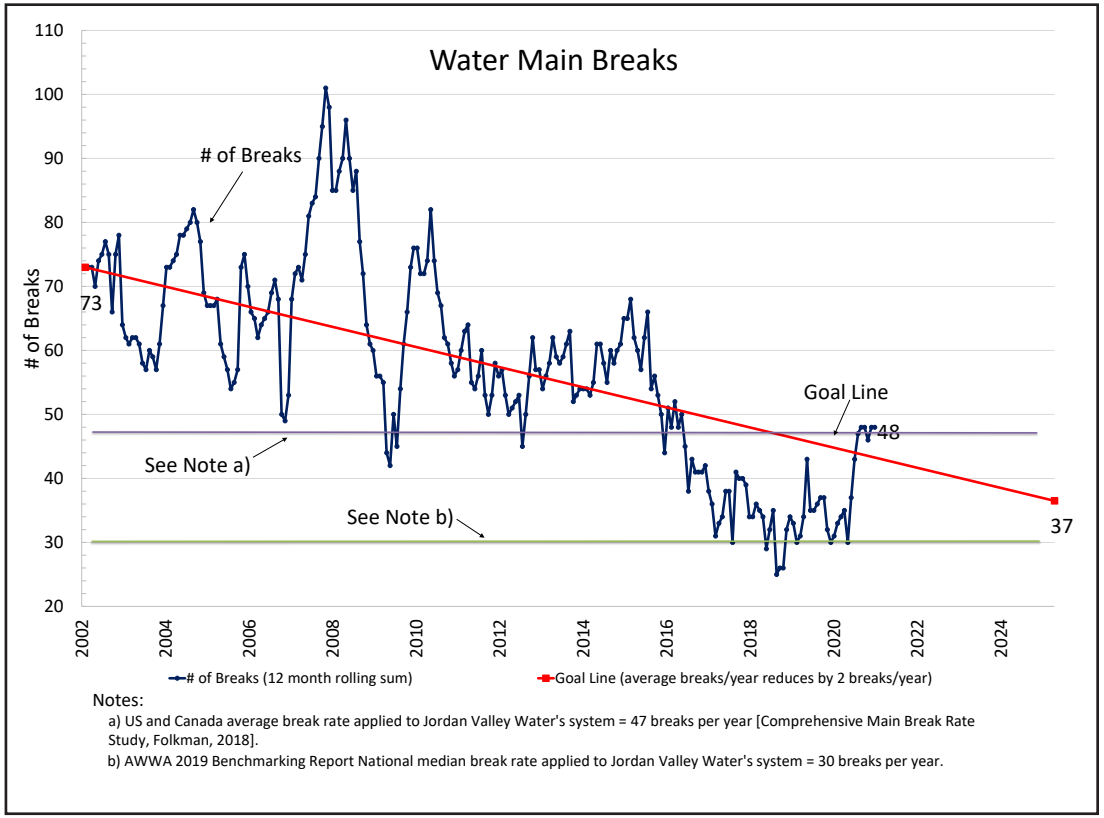
Pipeline (Mainline) Breaks

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 the full, useful life of every water main. A goal 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

2020/2021 = 48
2019/2020 = 30
2018/2019 = 34
2017/2018 = 36
2016/2017 = 38
2015/2016 = 51



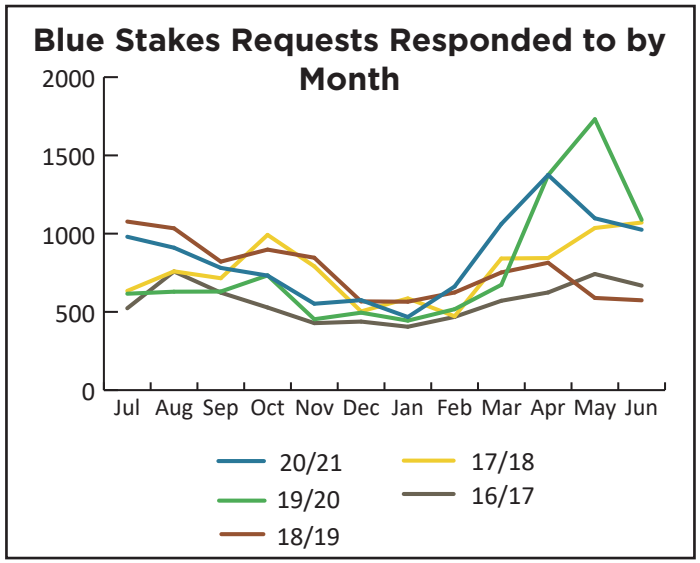
Notes:

a) US and Canada average break rate applied to Jordan Valley Water's system = 47 breaks per year [Comprehensive Main Break Rate Study, Folkman, 2018].

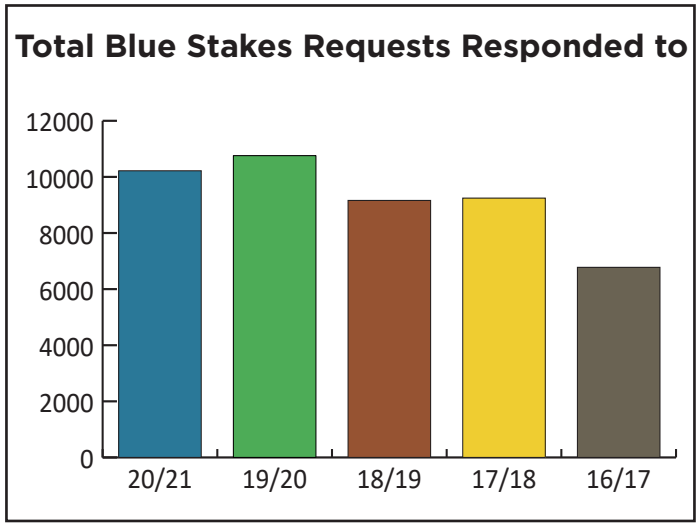
b) AWWA 2019 Benchmarking Report National median break rate applied to Jordan Valley Water's system = 30 breaks per year.

Inspections

Blue Stakes Summary



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



Pipeline/Valve Summary

Pipe diam-eter	Pipe length (linear ft.)	Miles of pipe	# of Valves	Percent of Sys-tem
< 2 inch	8,631	1.62	14	0.47%
2 inch	4,394	0.83	63	0.24%
3 - 4 inch	17,655	3.34	525	0.96%
6 inch	262,314	49.68	2,177	14.25%
8 inch	296,650	56.18	1,074	16.11%
10 inch	74,056	14.03	185	4.02%
12 inch	92,803	17.58	351	5.04%
14 inch	20,792	3.94	46	1.13%
15 - 16 inch	143,835	27.24	125	7.81%
18 inch	113,135	21.43	57	6.15%
20 - 21 inch	63,914	12.10	50	3.47%
24 inch	150,174	28.44	116	8.16%
27 inch	20,027	3.79	2	1.09%
28 inch	254	0.05	0	0.01%
30 inch	91,867	17.40	74	4.99%
32 inch	0	0.00	1	0.00%
33 inch	79,844	15.12	7	4.34%
36 inch	48,391	9.16	26	2.63%
42 inch	21,749	4.12	20	1.18%
45 inch	0	0.00	3	0.00%
48 inch	86,510	16.38	36	4.70%
60 inch	13,787	2.61	5	0.75%
66 inch	62,955	11.92	12	3.42%
69 inch	829	0.16	0	0.05%
72 inch	83,327	15.78	6	4.53%
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	**1,840,979**	**348.67**	**4,986**	**100.00%**
Total fire hydrants			**1,401**	

Updated August 2020. Lengths are rounded for simplicity. Does not include all JA valves or SWA-1 valves. One segment of 15" pipe is included in the 16" count. Source: GIS database

Retail System Connections

Retail service connections	2020/2021	2019/2020	2018/2019	2017/2018	2016/2017
Residential (single family or duplexes)	7,129	6,987	7,423	7,381	7,349
Residential (apartments)	239	235	266	266	265
Commercial, industrial, institutional	1,153	1,141	1,211	1,201	1,204
Fire lines	293	287	304	293	289
TOTAL CONNECTIONS	**8,814**	**8,650**	**9,204**	**9,141**	**9,107**
Increase/decrease in active retail connections	164	-554*	63	34	68

**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"	1.5"	2"	3"	4"	6"	8"	Totals
July									
August									
September	3								3
October		1				1			2
November									
December									
January			1						1
February			1						1
March	1			1					2
April	1								1
May	3		1		1				5
June		15							15
Totals	8	16	3	1	1	1			**30**

Total new retail connections for 2020/2021 = 30
Total new retail connections for 2019/2020 = 91
Total new retail connections for 2018/2019 = 94
Total new retail connections for 2017/2018 = 47
Total new retail connections for 2016/2017 = 35

New Services in Billing System

Month	3/4"	1"	1.5"	2"	3"	4"	6"	8"	Totals
July	18				1			1	20
August	3								3
September			2				1	2	5
October	4	1							5
November	5	1							6
December	1								1
January	3								3
February	6								6
March	12								12
April	6		1		1				8
May	1			2	1				4
June	1								1
Totals	60	2	3	2	3		1	3	**74**

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

Retail Connections

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.

Classes held at the Garden are generally free to the public and cover topics geared toward homeowners. Class schedules are distributed each year throughout Jordan Valley Water's service area and are available online at ConservationGardenPark.org.

Total Class Attendees

Class and Program Participants	2020/2021	2019/2020
Intro to Localscapes students	2,598	2,994
Localscapes University graduates	731	1,196
Design Workshop students	281	352
Irrigation Workshop students	269	313

Localscapes Partners

Partnership Categories*	2020/2021	2019/2020
Founding partners	4	4
Agency/educational partners	6	5
Professional partners	63	57
Retail partners	19	17
Total partners	92	83

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

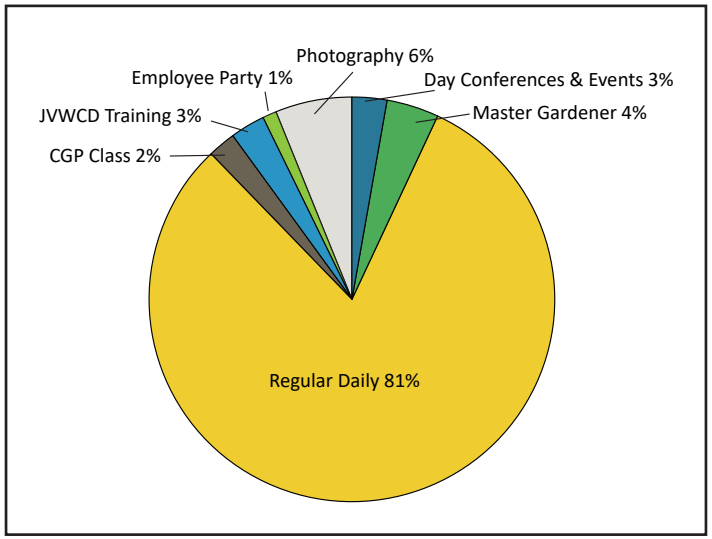
Garden Attendance, 2020/2021

Total 2020 Garden Attendance: 22,137

(2020 Garden attendance was heavily impacted by the pandemic.)

Year	Total Attendance	# of Classes	Class Attendance
2020	22,137*	22**	2,235
2019	38,665	46	2,311
2018	36,594	47	2,324
2017	40,508	46	2,168
2016	35,835	45	1,707

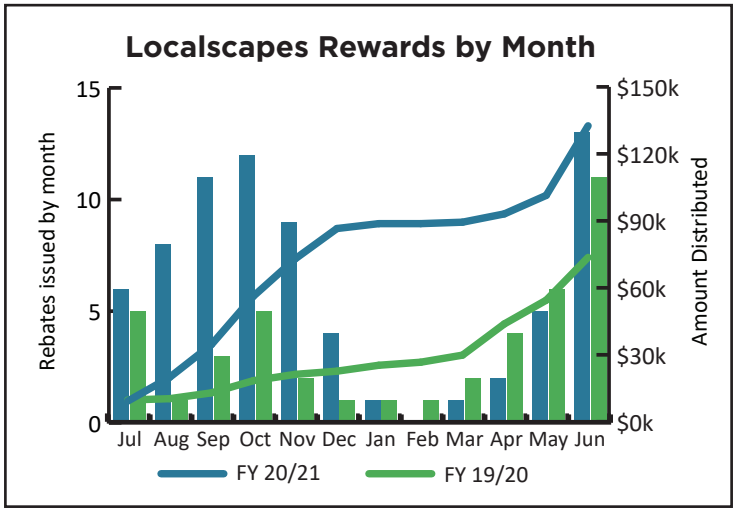
*Heavily impacted by the pandemic.
**Switched to online classes in March because of Covid. Many other demonstration classes and tours were cancelled.



Conservation

Statewide Rebate Programs

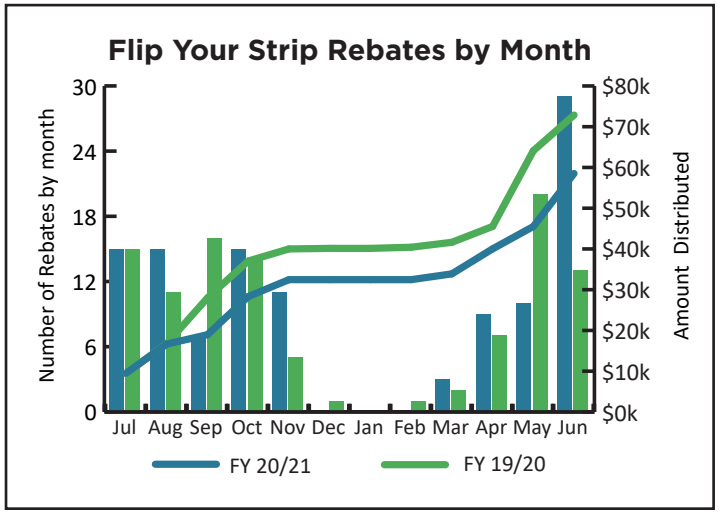
2020/2021 (JVWCD service area only)	Toilet Replacements	Smart Controller Rebates
# of rebates issued	134	1,273
Average rebate amount	$121.33	$71.33
Total rebates distributed	$16,258.51	$90,796.87



Localscapes Rewards

	2020/2021	2019/2020
# of rewards issued	72	42
Square feet converted	345,872	202,108
Average reward amount	$1,841.26	$1,752.98
Total rebates distributed	$132,570.63	$73,625.19

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



Flip Your Strip

	2020/2021	2019/2020
# of rebates issued	114	105
Square feet converted	47,092	58,575
Average rebate amount	$513.34	$693.88
Total rebates distributed	$58,520.84	$72,857.12

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

Landscape Consultations

Class and Program Participants	2020/2021	2019/2020
Completed consultations	248	146

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

Member Agency Grant Program

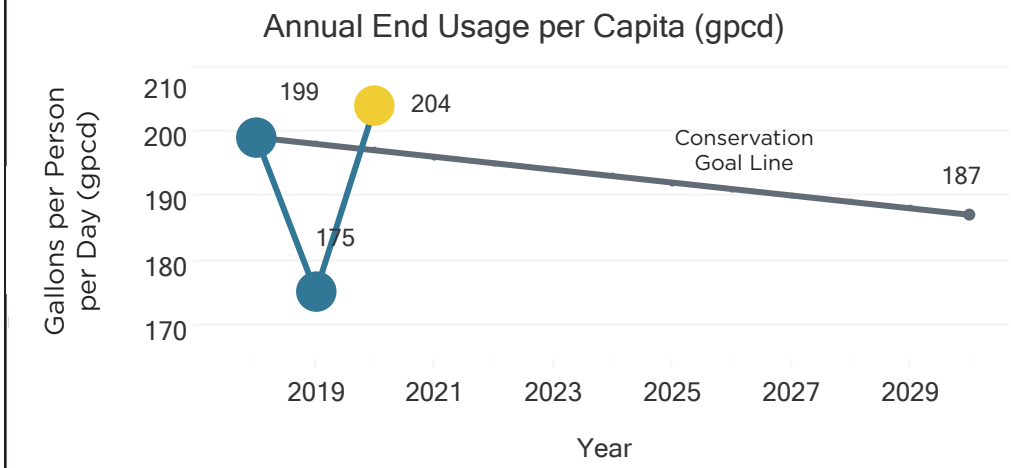
Member Agency	*Public Education*	*Product Rebates*	*Landscape Improvements*	*Conservation Website*	*Soil Moisture Sensors*	*Studies & Reports*	*Secondary Metering*	*Scholarship*	*Water System Audit*	*Advanced Metering Infrastructure*
Bluffdale			*2006*			*2008*	*2018, 2020*			
Draper City			*2015*							
Draper Irrigation	*2011*						*2013, 2017, 2018, 2019*			
GHID	*2006, 2008, 2009, 2011, 2013, 2015, 2017, 2018, 2019, 2020, 2021*	*2009, 2011, 2017, 2018, 2019, 2020, 2021*	*2015, 2017, 2018, 2019, 2020*			*2006, 2020*			*2017, 2021**	*2017, 2018, 2019*
Herriman			*2021*				*2020*			
Kearns	*2020*	*2006, 2008, 2009, 2011, 2013, 2015, 2017, 2018, 2019*	*2006, 2017, 2020, 2021*			*2017*			*2017*	
Magna				*2006*	*2006*		*2013*			
Riverton			*2020*							
South Jordan	*2006*	*2008, 2009, 2011, 2013, 2015, 2017, 2018, 2019, 2020, 2021*	*2006, 2009, 2015, 2017, 2018*	*2015*		*2006, 2011*		*2015, 2017*		
South Salt Lake			*2011, 2017*							
TBID			*2015, 2020*			*2015*				
WaterPro							*2013, 2017, 2018, 2019, 2020, 2021*			
West Jordan	*2006, 2006, 2009*	*2006*	*2008, 2009*			*2008, 2009, 2015, 2017, 2018*				

Jordan Valley Water requires ongoing reporting and water use tracking from participating agencies.
*Leak detection program similar to Water System Audit.

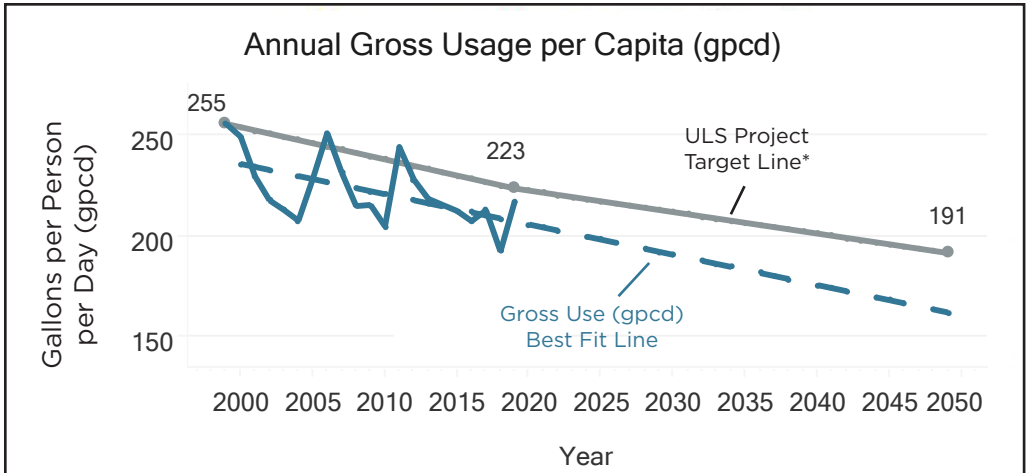
The Member Agency Grant Program is designed to assist member agencies in funding and implementing water conservation measures, projects, and programs in their respective service areas. Proposed projects are evaluated to determine potential water savings. Projects with quantifiable water savings are funded at a greater percentage.

Conservation

Water Conservation Goal



2030 End Use (gpcd) Goal is 187 gpcd by 2030



*ULS Project Target Line is 12.5% by 2020 and 25% by 2050

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 published 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 to the 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.

Capital Projects

Engineering projects for 2020/2021 are summarized on Jordan Valley Water's website under "Engineering Projects." (http://www.jvwcd.org/public/completed)

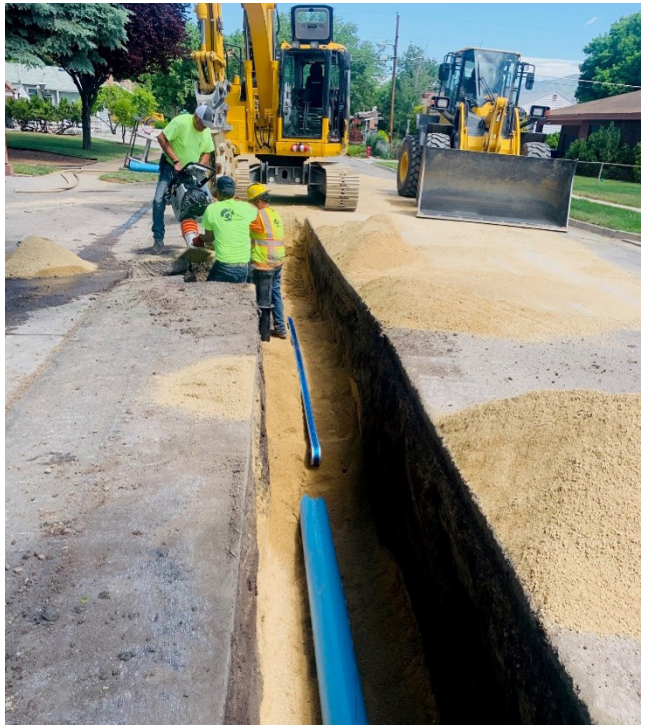
Capital Projects Budget Status Report	Total
Total FY 2020-2021 Capital Projects Budget (Gross)	$ 23,684,516
Budgeted Reimbursements	($ 1,780,627)
Total FY 2020-2021 Capital Projects Budget (Net)	$ 21,903,889
Total FY 2020-2021 Capital Projects Expenditures	$ 10,496,652

Projects completed in 2021	Engineering Costs	Construction Costs
Midvale Retail Transfer	Staff design by Midvale City	$136,460
JVWTP Flocculation Basins Repairs Project	$10,000	$399,611
SWGWTP Finished Water to Waste Valve Upgrade	Staff Design	$44,217
6900 South 1300 East Valve Vault Upgrades	Staff Design	$56,586
2018 Coating and Repairs Project	$111,600	$655,275
Equipment Storage Building Project	$73,687	$779,301
Headquarters and JVWTP HVAC Integration	$35,600	$35,600
Millcreek and South Salt Lake Pipeline Replacements	Staff Design	$108,990
JNPS Automation Upgrade	$46,323	$275,127
Microwave Radio System Upgrade	$49,740	$134,640
Terminal Reservoir Basin 2 Outlet Valve Replacement	Staff Design	$77,860
Terminal Reservoir Basins 1 and 2 Joints Repairs	Staff Design	$93,093
9800 S 2300 E Well Development and Pump Testing	$4,350	$67,560
JVWTP Chlorine Room Crane Improvements	Staff Design	$86,959
Creek Road Pipeline Vault Upgrades	$105,159	$1,075,454
3600 West 4400 South Vault Improvements	Staff Design	$159,125
5200 West 6200 South TBID Meter Station Vault Improvements	Staff Design	$77,782

Significant Ongoing Projects

- JVWTP Sedimentation Basins Equipment Replacement
- Four Concrete Reservoirs Repairs
- Reservoir Chlorine Boosters
- Eight Vault Improvement Project
- 3600 West 10200 South Booster Pump Station
- 3300 South Pipeline Replacement Project
- 10200 South Zone B Pipeline
- Drought Contingency Plan
- Demand, Supply and Major Conveyance Study
- Upper Headquarters Campus Paving Improvements
- JVWTP Plant Reclaim Water and Solids Handling Improvements
- Zone D Chemical Feed Facility

Engineering



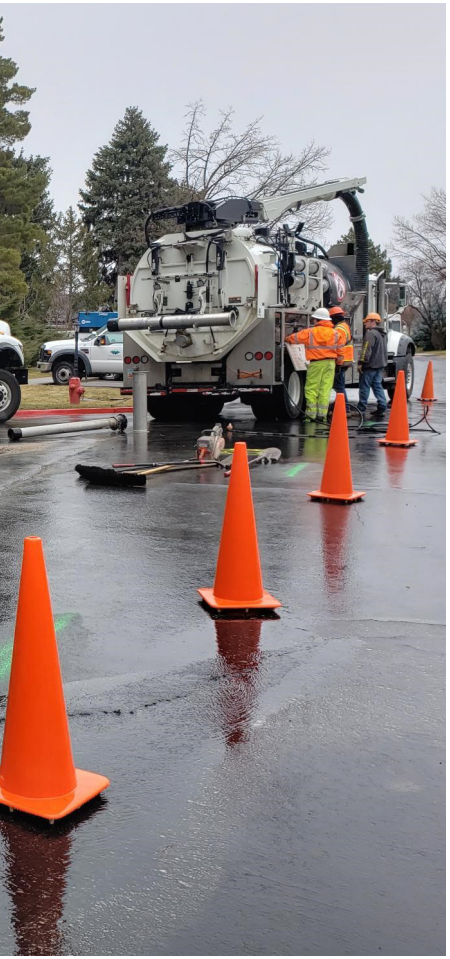
^ Millcreek & SSL Pipeline Replacements - Installation of the 8” pipeline along 610 East

^ Terminal Reservoir Basin 2 Outlet Valve Replacement - removing the old 48” valve.

> JNPS Automation - Pump monitoring equipment connected to SCADA

< 3600 W 4400 S Vault Project - New piping and valves

Safety Track



Jordan Valley Water Conservancy District Safety Track Summary

FY 20/21	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYT
OSHA recordable injuries	0	0	0	1	0	0	0	0	0	0	0	1	2
Vehicle crashes	1	1	0	2	2	1	3	1	1	2	1	0	15

Past Fiscal Year Totals

19/20	18/19	17/18	16/17
3	5	3	4
9	10	11	8

Days since last OSHA recordable injury: **6** (6/25/21)
Days since last vehicle crash: **51** (5/11/21)

Best record for time without an OSHA recordable injury: **285** (7/27/16 - 5/17/17)
Best record for time without a vehicle crash: **178** (7/19/13 - 1/12/14)

Maintenance Department Safety Track Summary

FY 20/21	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	FYT
OSHA recordable injuries	0	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle crashes	0	1	0	1	2	1	3	0	0	2	1	0	11

19/20	18/19	17/18	16/17
2	2	2	1
6	7	6	5

Days since last OSHA recordable injury: **504** (2/12/20)
Days since last vehicle crash: **51** (5/11/21)

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

Operations Department Safety Track Summary

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

19/20	18/19	17/18	16/17
0	2	0	3
2	2	4	3

Days since last OSHA recordable injury: **6** (6/25/21)
Days since last vehicle crash: **112** (3/11/21)

Best record for time without an OSHA Recordable Injury: **826** (3/23/19 - 6/24/21)
Best record for time without a vehicle crash: **452** (4/24/15 - 7/19/16)

Administration, Communications, Engineering, and IS Safety Track Summary

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

19/20	18/19	17/18	16/17
1	1	1	0
1	1	1	0

Days since last OSHA recordable injury: **270** (10/4/20)
Days since last vehicle crash: **337** (7/29/20)

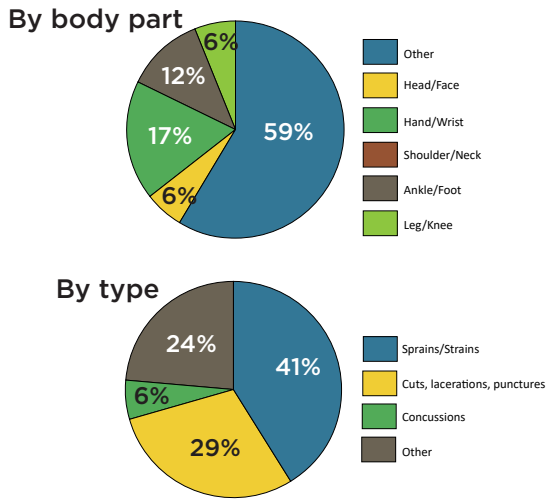
Best record for time without an OSHA recordable injury: **1554** (1/16/14 - 4/18/18)
Best record for time without a vehicle crash: **665** (5/10/16 - 3/5/18)

OSHA Recordable Injuries[a]

Date	Type of Injury	Light duty restriction (days)	Days away from work	Total PTD (Workers Comp)	Dept
10/2/20	Back Strain	0	2	$2,189	Communications
6/25/21	Bruised Ribs	23	7	$22,254	Operations
Total	**2**	**23**	**9**	**$24,443**	

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.
PTD = Paid to date.

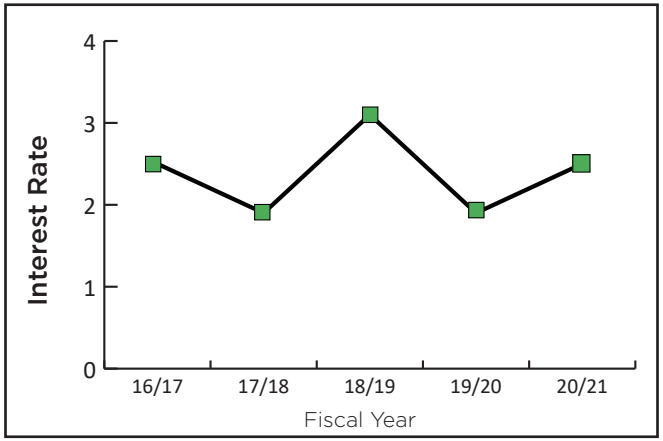
OSHA Recordable Injuries 16/17 - 20/21



OSHA Recordable Injury Incident Rates

Fiscal Year	Avg emp hrs wrkd[a]	# of Injuries	Incident Rate[b]	Total PTD (Wkrs Comp)
2020/2021	324,480	2	1.2	$24,443
2019/2020	322,400	3	1.9	$999
2018/2019	322,400	5	3.1	$5,810
2017/2018	316,160	3	1.9	$74,010
2016/2017	316,160	4	2.5	$3,968

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"



OSHA Recordable Injury Incident Rates by Department

Depts	20/21	19/20	18/19	17/18	16/17
Admin, etc.	1.5	1.6	1.6	1.6	0.0
Maintenance	0.0	3.9	3.8	3.9	1.9
Operations	2.2	0.0	4.3	0.0	6.6

Performance Indicators

- Less than 5.7
- 5.7 - 8.0
- Greater than 8.0

Safety

Vehicle Crashes[a]

Date	District Cost	Type	Dept
7/29/2020	$0	Backing	Communications
8/11/2020	$619	Collision	Maintenance
10/14/2020	$1,550	Rear-end	Operations
10/27/2020	$16,684	Rear-end	Maintenance
11/5/2020	$966	Collision	Maintenance
11/5/2020	$0	Backing	Maintenance
12/21/2020	$441	Backing	Maintenance
1/5/2021	$0	Collision	Maintenance
1/24/2021	$575	Backing	Maintenance
1/25/2021	$860	Backing	Maintenance
2/17/2021	$4,458	Collision	Operations
3/11/2021	$738	Collision	Operations
4/7/2021	$11,868	Rear-end	Maintenance
4/7/2021	$0	Backing	Maintenance
5/11/2021	$0	Collision	Maintenance
Total	**$38,760**		

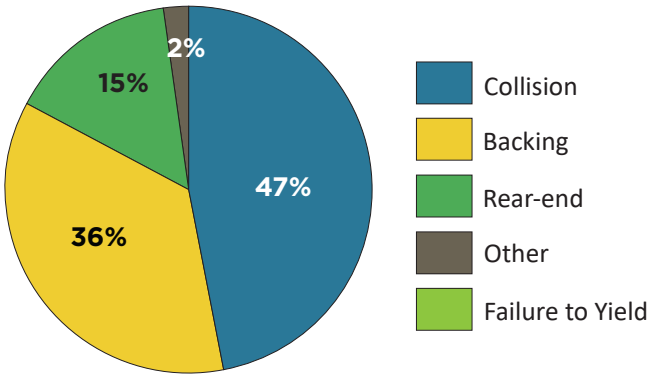
a- Vehicle Crash: an incident where an employee is driving any type of vehicle which collides with anything that causes damage to the vehicle or the object hit; or that results in medical expenses or bodily injury for anyone involved.

Vehicle Crash Incident Rates

Fiscal Year	# of Miles Driven	# of Crashes	Incident Rate[a]	District Cost[b]
2020/2021	640,804	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
2016/2017	554,480	8	1.4	$8,004

a- Total crashes x 100,000, divided by "# of miles driven."
b- Total cost for all repairs and medical expenses paid by JVWCD or its insurance carriers for all parties involved.

Vehicle Crash Types 16/17 - 20/21

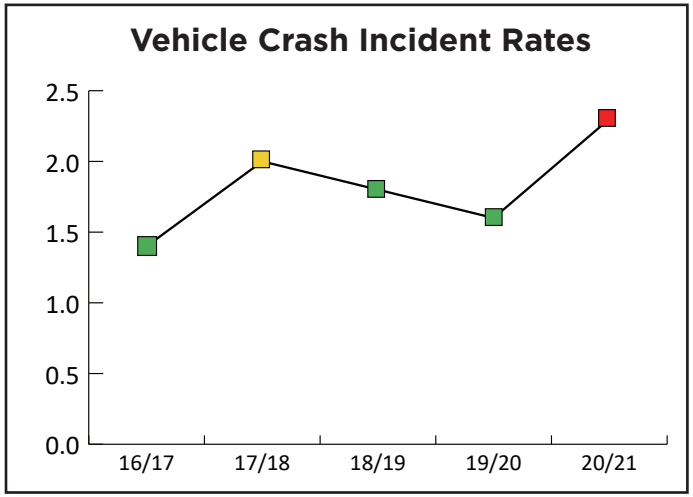


Vehicle Crash Incident Rates by Dept.

Depts	20/21	19/20	18/19	17/18	16/17
Admin, etc.	1.3	1.5	1.7	1.7	0.0
Maintenance	3.7	2.0	2.2	1.8	1.6
Operations	1.7	1.1	1.2	2.3	1.7

Performance Indicators

- Less than 1.8
- 1.8 - 2.3
- Greater than 2.3



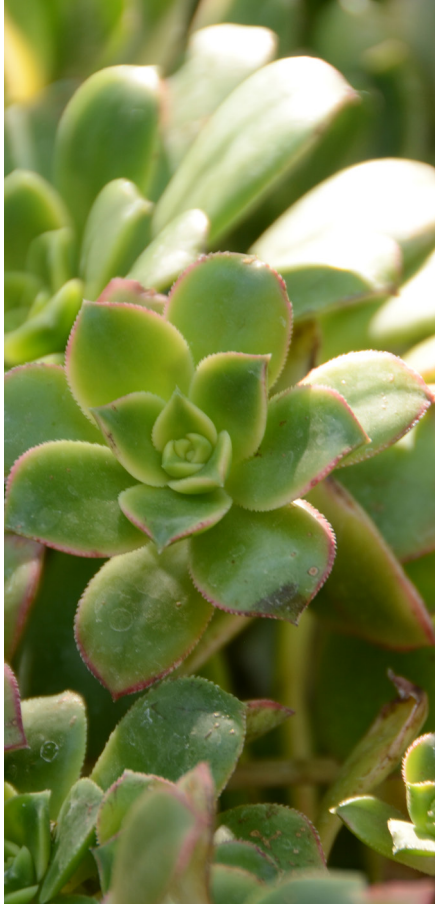
> Filter gallery pipe recoating

Human Resources

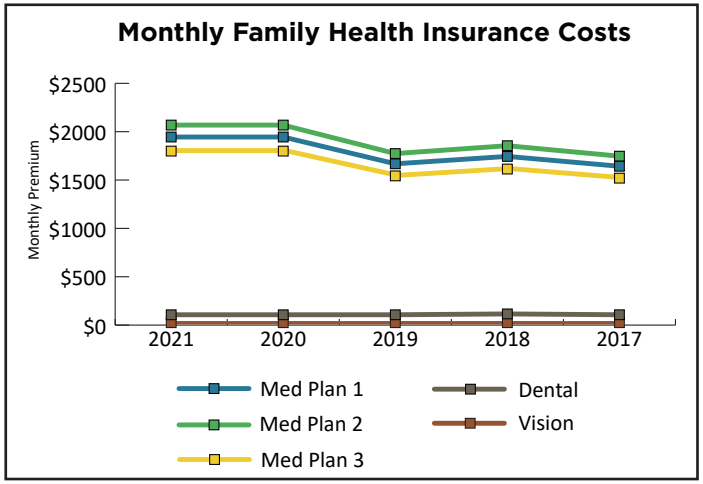
Personnel History

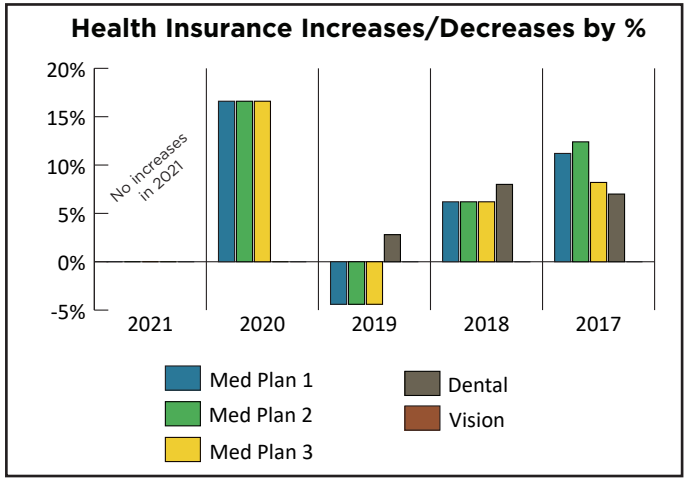
*Number has been updated to reflect more accurate data.

	Calendar Year 2020	Calendar Year 2019	Calendar Year 2018	Calendar Year 2017	Calendar Year 2016
Full-time authorized positions:	150	147	147	146	144
Part-time positions:	0	1	1	1	1
New positions authorized:	2	0	0	1	2
	• Conservation Programs Coordinator • Maintenance Worker II			System Operator	• Inspector/Locator I • Pipeline Maintenance Lead
Turnover Total	12	12	3	5	2
Retirements	3	10	6	2	2
Turnover rate:	8.0%	14.97%	6.08%	4.7%	2.7%
Employees per 1,000 AF of water delivered:	1.01	1.08	1.03	1.03	1.03
AF delivered per employee:	981	929	965	972	973



History of Insurance Costs





Personnel Costs

History of Salary Increases (effective date JULY 1)	2021	2020	2019	2018	2017	2016
Merit increase	3.5%	4.0%	3.2%	3.2%	3.0%	3.0%
Merit/step average	4.75%	4.76%	4.45%	4.43%	4.05%	6.05%
- merit range	1.75% to 13.33%	0% to 12.65%	0% to 9.14%	0% to 7.10%	0% to 19.23%*	5.00% to 6.86%

Personnel Budget	2021/2022	2020/2021	2019/2020	2018/2019	2017/2018	2016/2017
Salary & benefits	$17,894,417	$17,192,556	$16,536,173	$16,591,406	$16,209,198	$15,490,889
% change from previous year	4.1%	4.0%	-0.3%	2.36%	4.43%	5.78%

Health Insurance Plan & Costs: (see charts next page)	Calendar 2021	Calendar 2020	Calendar 2019	Calendar 2018	Calendar 2017	Calendar 2016
Medical Plan 1 (monthly premium)	SelectMed+	SelectMed+	SelectMed+	SelectMed+	SelectMed+	SelectMed+
- Single	$659.30	$659.30	$565.40	$591.30	$556.80	$500.80
- 2-party	$1,417.70	$1,417.70	$1,215.90	$1,271.60	$1,197.40	$1,076.90
- Family	$1,944.90	$1,944.90	$1,668.00	$1,744.40	$1,642.60	$1,477.30
% change from previous year	0.0%	16.6%	- 4.4%	6.2%	11.2%	2.3%
Medical Plan 2 (monthly premium)	SelectCare+	SelectCare+	SelectCare+	SelectCare+	SelectCare+	SelectCare+
- Single	$701.20	$701.20	$601.40	$628.90	$592.20	$526.70
- 2-party	$1,507.90	$1,507.90	$1,293.20	$1,352.40	$1,273.40	$1,132.50
- Family	$2,068.30	$2,068.30	$1,773.80	$1,855.00	$1,746.70	$1,553.50
% change from previous year	0.0%	16.6%	- 4.4%	6.2%	12.4%	2.3%
Medical Plan 3 ((monthly prem.)	SelectValue+	SelectValue+	SelectValue+	SelectValue+	SelectValue+	SelectValue+
- Single	$609.90	$609.90	$523.10	$547.00	$515.00	$476.00
- 2-party	$1,311.40	$1,311.40	$1,124.70	$1,76.20	$1,107.50	$1,023.40
- Family	$1,799.30	$1,799.30	$1,543.10	$1,613.70	$1,519.50	$1,404.10
% change from previous year	0.0%	16.6%	- 4.4%	6.2%	8.2%	2.3%
Dental Plan (monthly premium)	CIGNA	CIGNA	CIGNA	MetLife	MetLife	MetLife
- Single	$29.62	$29.62	$29.62	$28.81	$26.68	$24.93
- 2-party	$56.18	$56.18	$56.18	$60.71	$56.21	$52.53
- Family	$106.84	$106.84	$106.84	$115.45	$106.90	$99.91
% change from previous year	0.0%	0.0%	3.0%	8.0%	7.0%	-8.7%
Vision Plan (monthly premium)	Self Insured	Self Insured	Self Insured	Self Insured	Self Insured	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 implementation of updated compensation plan.

Budget Overview 2021-2022

SOURCES OF FUNDS	2020/2021 Budget	2021/2022 Budget	Budget to Budget $ Variance	Budget to Budget % Variance
Water sales - wholesale	$ 48,684,357	$ 51,303,595	$ 2,619,238	5.4%
Water sales - retail	7,093,070	7,514,783	421,713	5.9%
Property tax revenue	20,452,900	23,230,051	2,777,151	13.6%
Investment income	1,313,700	548,900	(764,800)	-58.2%
Connection fees	341,000	407,000	66,000	19.4%
Other	1,545,000	1,605,000	60,000	3.9%
Subtotal	79,430,027	84,609,329	5,179,302	6.5%
Revenue Stabilization (rates)	4,699,127	5,590,263	891,136	19.0%
Capital Projects (net)	21,903,889	28,234,690	6,330,801	28.9%
Capital Projects (reimbursement)	1,780,626	2,281,758	501,132	28.1%
JVCGF Contributions	50,000	-	(50,000)	-100.0%
Total Sources	**$ 107,863,669**	**$ 120,716,040**	**$ 12,852,371**	**11.9%**
USES OF FUNDS				
Water purchases	$ 16,874,092	$17,672,551	$798,459	4.7%
Operation & maintenance expenses	9,985,632	10,678,691	709,883	7.1%
General & administrative expenses	4,437,230	4,874,489	420,435	9.4%
Personnel expenses	17,247,776	17,949,637	701,861	4.1%
Subtotal	48,544,730	51,175,368	2,630,638	5.4%
Capital projects fund (gross)	23,684,515	30,516,448	6,831,933	28.8%
JVCGF contribution projects	50,000	-	(50,000)	-100.0%
Total operating and capital uses	**$ 72,279,245**	**$ 81,691,816**	**$ 9,412,571**	**13.0%**
Net operating revenues	$ 35,584,424	$39,024,224	$3,439,800	9.7%
Debt service payments	(22,587,923)	(22,357,783)	230,140	-1.0%
Debt service coverage ratio	1.58	1.75		
Amount available to transfer to reserves Total from operations	**$ 12,996,501**	**$ 16,666,441**	**$ 3,669,940**	**28.2%**

**Preliminary numbers pending audit.*

Budget

SOURCES OF FUNDS	2019/2020 Actual	2018/2019 Actual	2017/2018 Actual	2016/2017 Actual	2015/2016 Actual
Water Sales - Wholesale	$51,305,372	$ 44,116,589	$ 44,669,433	$ 43,267,525	$ 40,010,699
Water Sales - Retail	7,115,527	7,148,704	7,124,267	6,539,184	5,908,896
Property Tax Revenue	20,281,934	20,063,290	18,203,887	14,967,926	14,915,457
Investment Income	1,900,885	2,260,091	1,651,609	1,073,336	370,002
Connection Fees	474,389	494,319	302,368	391,388	372,770
Other	1,871,210	1,568,813	1,404,560	1,508,692	2,194,454
Subtotal	82,949,317	75,651,806	73,356,124	67,748,051	63,772,278
Revenue Stabiliz. Fund (rates)	1,345,760	-	-	-	-
Capital Projects (net)	31,028,162	42,393,937	36,425,048	33,411,917	33,411,917
Capital Projects (reimb.)	1,235,989	289,903	1,338,915	3,395,792	3,395,792
JVCGF Contributions	140,100	350,000	22,678	225,867	-
Total Sources	$116,699,328	$ 118,685,646	$ 111,142,765	$ 104,781,627	$ 100,579,987
USES OF FUNDS					
Operation and Maintenance	$44,001,460	$ 41,143,238	$ 40,029,461	$ 38,573,257	$ 36,401,126
Bond Principal and Interest	22,003,217	20,365,220	20,437,815	19,188,677	15,291,092
Transfers to Reserve Funds:					
• Replacement Reserve Fund	6,060,262	5,458,272	4,556,508	6,783,990	8,575,159
• Development Fee Fund	474,389	494,319	302,368	391,388	372,770
• General Equipment Fund	679,400	800,000	700,000	900,000	1,200,000
• Emergency Reserve Fund	300,000	300,000	300,000	300,000	300,000
• Interest Allocated to Funds	1,249,681	1,310,849	1,078,116	-	-
• Revenue Stabilization Fund	9,126,668	5,079,908	5,451,856	-	-
• Revenue Fund	100,000	200,000	-	900,000	500,000
• Operation & Maint. Fund	300,000	500,000	500,000	500,000	800,000
Total Transfers	18,290,400	14,143,348	12,888,848	9,775,378	11,747,929
Subtotal	84,295,077	75,651,806	73,356,124	67,537,312	63,440,147
Capital Projects (gross)	32,264,151	42,683,840	37,763,963	36,807,709	36,807,709
JVCGF Contrib. Projects	140,100	350,000	22,678	225,867	-
Total Uses	$116,699,328	$ 118,685,646	$ 111,142,765	$ 104,570,888	$ 100,247,856

Note: Final results for fiscal year 2020/2021 not yet available