Moon Lake Water Users Association

2024 Annual Report

Stockholders

Dry Gulch Irrigation Company
Farnsworth Canal & Reservoir Company
Lakefork Irrigation Company
Lakefork Western Irrigation Company
Monarch Canal & Reservoir Company
South Boneta Ditch Company
T.N. Dodd Irrigation Company
Utland Ditch Company

Officers & Directors

Kirk Christensen, President
Wayne Malnar, Vice President
Junior Tidwell, Executive Secretary
Rodger Ames
Jason Riley
Rod Olsen
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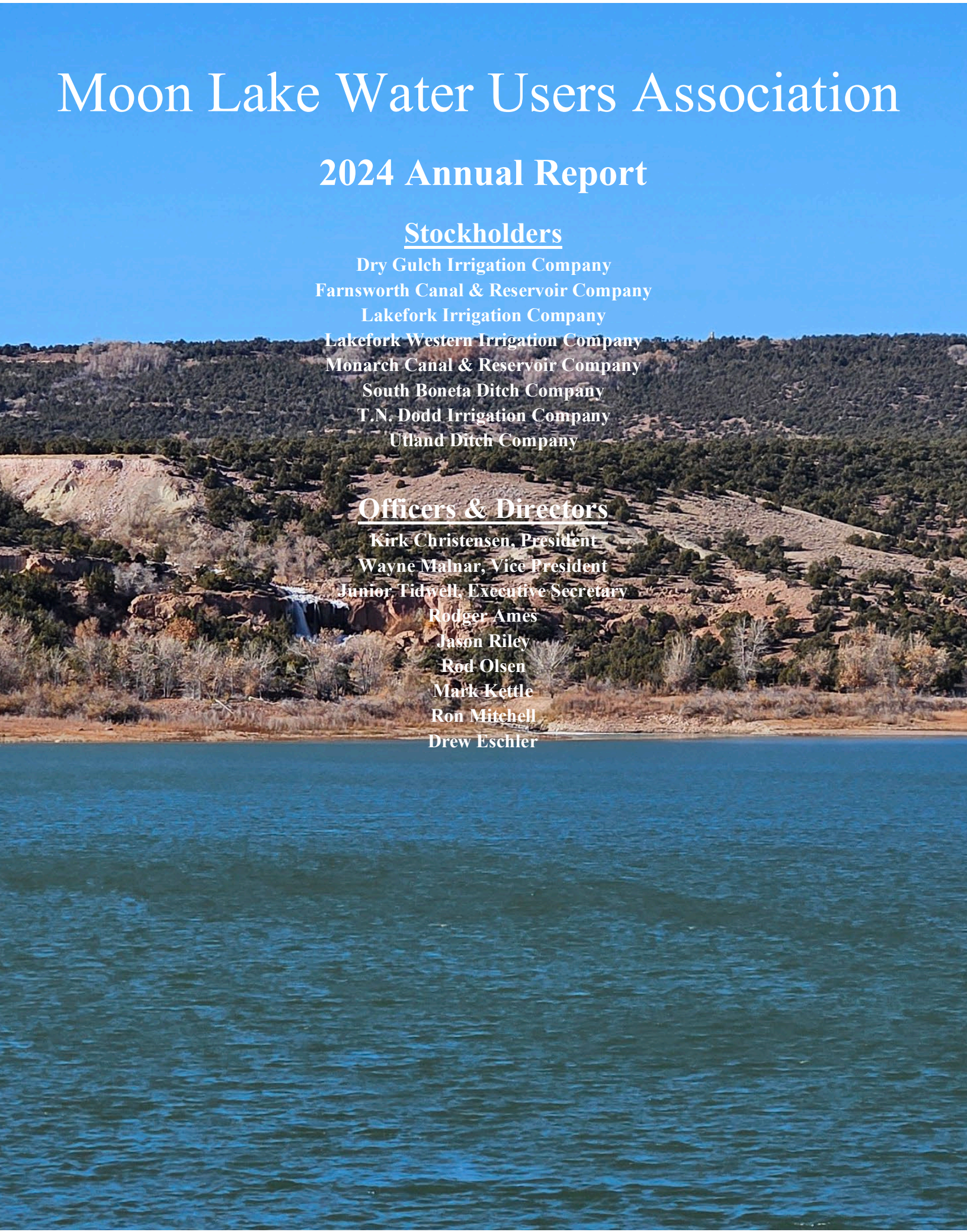


MOON LAKE WATER USERS ASSOCIATION
2024


Sunset at Big Sand Wash Reservoir
July 26, 2024

Project Water Supply: 2024 was a rather average year. All the reservoirs were filled resulting in a full cancel on June 20th. This was achieved largely due to the above average carry-over storage from the previous year. The winter was decent, and the runoff was sufficient. The hard part was the long dry spell during the hot summer which caused many to pull very hard on their storage water. There continues to be controversy on the Colorado River System as the Upper and Lower States struggle to agree on how the river system should be managed after the current agreements expire. The MLWUA strives to keep track of all these issues and do all they can to protect the Association's water rights as well as those of their stockholders.

MOON LAKE PROJECT

2024 Water Supply Summary

Facility	2024 Project Yield	Used in Ac. Ft.	Holdover and or inactive	Percent of total storage as used
Moon Lake Reservoir	9,989	25,841	11,555	30.9%
Sandwash Reservoir	13,640	22,376	6,895	26.8%
Browns Draw Reservoir	2,007	5,796	1,474	6.9%
Twin Pots Reservoir	4,654	5,318	823	6.4%
Duchesne River Exchange	22,423	22,423	0	26.8%
Dry Gulch Irr. Exchange	1,835	1,835	0	2.2%
TOTALS	54,548	83,590	20,747	100.0%

MOON LAKE RESERVOIR HYDROGRAPHIC DATA

This Hydrographic data only represents the outlflow through the valves below the dam.

Date	Surface Elev.	Total Storage	Period Stored	Changes Released	Outflow	Inflow	2024 avg. cfs Inflow	2023 Avg. cfs Inflow	Number Days in period
2023									
1-Nov-23	8123.0	27,407							
			0	202	3,118	2,916	49.00	47.17	30
1-Dec-23	8122.7	27,205							
2024			1,607	0	676	2,283	37.13	42.41	31
1-Jan-24	8124.9	28,812							
			1,249	0	682	1,931	31.40	42.85	31
1-Feb-24	8126.7	30,061							
			1,306	0	636	1,942	33.76	34.25	29
1-Mar-24	8128.4	31,367							
			1,204	0	663	1,867	30.37	36.56	31
1-Apr-24	8130.1	32,571							
			1,574	0	3,417	4,991	83.88	60.33	30
1-May-24	8132.2	34,145							
			141	0	17,127	17,268	280.82	331.21	31
1-Jun-24	8132.3	34,286							
			1,893	0	14,067	15,960	268.22	317.60	30
1-Jul-24	8134.8	36,179							
			0	15,654	19,669	4,015	65.29	140.98	31
1-Aug-24	8112.9	20,525							
			0	7,440	10,567	3,127	50.86	99.90	31
1-Sep-24	8100.8	13,085							
			0	2,545	4,823	2,278	38.29	113.14	30
1-Oct-24	8096.3	10,540							
			1,015	0	1,419	2,434	39.59	73.09	31
1-Nov-24	8098.1	11,555							
TOTALS			9,989	25,841	76,864	61,012	84.04	111.62	366

Moon Lake Spillway
February 1, 2024

Moon Lake Valve House
March 9, 2024

Moon Lake Spillway floor core with void
August 7, 2024

Moon Lake Reservoir: Carryover storage was a big deal for the 2024 water year. Moon Lake started the water year at over 70% full. The up and down of the spring weather made runoff hard to predict and with supply looking to be slim for the year, MLWUA was conservative with the releases from the reservoir. However, while trying to maintain some room for peaks in runoff, the outflow was set just below the Bureau of Reclamation's "safe channel capacity" of 1300 cfs for a short time. During that time, the USGS came and re-rated the gaging station below Moon Lake plotting the flow to be over 1400 cfs. MLWUA manager worked with the BOR to release a notification to response agencies of the higher flows. Bridges on the stretch of the river from Moon Lake to the confluence of the Yellowstone River were observed and found to not be affected by the flow. The BOR may consider raising their safe channel capacity for that stretch. The reservoir filled on the evening of June 12th and hovered around full until the afternoon of June 19th. The reservoir then steadily declined until reaching its low elevation for the year of 8095.48 ft on September 23rd. The BOR continued their investigation of the spillway floor this year by coming and cutting cores in areas of concern identified by last year's GPR survey. Voids of 0 to about 5 inches were measured in a few different locations along the floor of the spillway. It is still unclear what recommendations, actions, or funding may come because of the investigation. A 20-foot-wide gate was added in the chain link fence along the spillway to help facilitate upcoming repair projects. The Association proceeded with the repair project that was talked about last year on the spillway. Gerber Construction was hired to perform repair work on certain portions of the concrete on the spillway floor and walls as well as repair work in the valve house and other locations. All the work on repairing the floor was completed this year but Gerber will return next year to continue repairing the walls. Over 500 feet of walls where the top portion of concrete is deteriorating were identified for repair.

Moon Lake Spillway floor coring
August 7, 2024

DAILY RECORD FLOW CFS **MOON LAKE RESERVOIR** **2024**

DAY	NOV	DEC	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEP	OCT
1	10.8	10.9	11.1	11.1	11.2	10.6	284.8	166.6	285.4	312.9	62.5	10.4
2	10.8	10.9	11.1	7.5	11.2	10.6	308.9	163.2	291.3	310.9	62.8	8.5
3	10.8	10.9	11.1	11.1	11.2	10.6	323.3	175.1	303.5	314.1	67.6	6.9
4	10.7	10.9	11.1	11.2	11.2	10.6	329.7	285.3	322.8	312.2	74.7	6.9
5	10.6	10.9	11.0	11.2	11.2	10.6	328.6	361.0	336.8	314.7	75.8	6.9
6	10.6	10.9	11.0	11.2	11.2	11.4	327.6	471.0	353.5	312.6	75.7	6.9
7	10.7	10.9	11.0	11.2	11.2	12.1	323.2	337.8	364.5	311.0	75.7	6.9
8	10.6	10.9	11.1	11.2	11.2	11.8	286.1	269.5	361.0	316.5	75.6	6.9
9	10.8	10.9	11.1	11.2	11.2	11.9	285.0	165.8	313.5	314.2	75.6	7.0
10	71.3	11.0	11.1	11.2	10.9	11.7	284.3	63.2	312.4	312.1	75.4	10.7
11	121.0	11.0	11.1	11.2	10.6	14.8	292.9	14.5	311.5	313.3	82.8	30.4
12	120.9	10.9	11.1	11.2	10.6	22.7	362.8	89.5	316.0	281.5	119.1	20.6
13	120.7	11.0	11.1	11.2	10.6	53.1	351.0	203.0	314.9	183.7	118.9	22.3
14	120.5	11.0	11.1	11.1	10.6	77.5	344.3	241.4	313.5	171.1	121.6	38.3
15	120.3	11.0	11.1	11.2	10.6	77.6	320.4	233.5	312.5	170.5	138.4	38.4
16	120.2	11.0	11.1	11.2	10.6	77.8	296.7	148.8	311.9	101.5	141.1	60.0
17	119.9	11.0	11.1	11.2	10.6	76.2	277.8	241.3	322.4	80.2	140.7	69.3
18	119.8	11.0	11.1	11.1	10.6	75.9	234.9	208.6	327.7	88.9	137.6	63.0
19	119.7	11.0	11.1	11.2	10.6	75.3	195.1	176.2	326.1	88.9	128.9	68.3
20	119.4	11.0	11.1	11.2	10.6	74.7	171.8	253.0	325.0	88.9	128.5	68.2
21	104.5	11.0	11.1	11.2	10.6	36.5	173.0	311.7	323.7	66.3	128.1	68.2
22	10.8	11.0	11.1	11.1	10.6	36.5	186.1	315.9	322.3	63.7	107.5	26.9
23	10.8	11.0	11.1	11.2	10.6	51.1	242.0	306.0	317.9	59.2	88.6	7.1
24	10.7	11.0	11.1	11.2	10.6	35.0	268.5	274.9	313.5	56.3	39.7	7.0
25	10.8	11.1	11.1	11.2	10.6	36.4	328.0	255.3	316.5	56.4	30.6	7.0
26	10.8	11.1	11.1	11.2	10.6	113.8	308.8	262.7	319.8	56.1	16.1	7.0
27	10.8	11.1	11.1	11.2	10.6	107.5	298.9	264.5	318.3	51.3	10.6	7.1
28	10.8	11.1	11.1	11.2	10.6	135.3	327.5	277.8	321.8	51.3	10.5	7.1
29	10.8	11.1	11.1	11.2	10.6	170.5	229.9	277.6	319.5	51.5	10.5	7.1
30	10.8	11.1	11.1		10.6	262.7	174.1	277.5	309.0	57.8	10.5	7.1
31		11.1	11.1		10.6		168.5		307.6	58.0		7.1
TOTAL CFS DAYS	1571.7	340.7	343.8	320.6	334.3	1722.8	8634.5	7092.2	9916.1	5327.6	2431.7	715.5
TOTAL ACRE FEET	3117.5	675.8	681.9	635.9	663.1	3417.2	17126.5	14067.4	19668.6	10567.3	4823.3	1419.2
TOTAL ACRE FEET RELEASED		**76863.7**										

DAILY RECORD FLOW CFS (USGS) **MOON LAKE RESERVOIR(USGS)** **2024**

DAY	NOV	DEC	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEP	OCT
1	10.4	8.8	10.3	12.1	13.2	15.5	314.0	176.0	342.0	365.0	66.5	5.0
2	10.5	8.8	10.3	12.1	13.2	15.5	328.0	186.0	357.0	368.0	72.0	4.9
3	10.5	8.8	10.3	12.1	13.2	15.5	333.0	381.0	376.0	367.0	79.8	4.9
4	10.5	8.7	10.4	12.1	13.1	15.5	333.0	658.0	389.0	370.0	80.7	4.9
5	10.4	8.7	10.5	12.1	13.1	17.3	331.0	933.0	406.0	367.0	80.7	4.9
6	10.4	8.8	10.9	12.0	13.1	18.9	326.0	1370.0	415.0	362.0	80.7	4.9
7	10.4	8.9	10.9	12.0	13.2	18.2	300.0	1410.0	407.0	340.0	80.7	4.9
8	10.6	9.1	10.7	12.0	13.6	18.2	300.0	1320.0	345.0	338.0	80.7	4.9
9	66.9	9.2	10.9	12.0	13.4	18.2	298.0	1220.0	344.0	336.0	80.7	9.2
10	115.0	9.3	10.9	12.0	13.1	21.8	309.0	822.0	343.0	337.0	92.6	28.0
11	115.0	9.3	10.9	12.0	13.2	29.4	377.0	566.0	346.0	303.0	140.0	16.7
12	115.0	9.3	10.9	12.1	13.6	63.0	364.0	714.0	344.0	214.0	140.0	19.0
13	115.0	9.3	10.9	12.3	13.8	86.4	358.0	763.0	343.0	203.0	144.0	35.9
14	115.0	9.3	10.9	12.6	13.8	86.0	322.0	745.0	341.0	202.0	164.0	36.4
15	115.0	9.7	11.1	12.6	13.8	85.6	296.0	551.0	341.0	107.0	167.0	61.9
16	115.0	9.8	11.5	12.6	13.8	85.2	287.0	463.0	350.0	84.4	167.0	71.5
17	115.0	9.8	11.5	12.6	13.8	85.0	262.0	425.0	355.0	95.6	161.0	64.8
18	114.0	9.8	11.5	12.6	13.8	85.1	226.0	391.0	354.0	95.6	150.0	70.3
19	114.0	9.8	11.5	12.6	13.8	79.4	207.0	390.0	352.0	95.5	149.0	69.7
20	100.0	9.8	11.5	12.6	13.8	39.4	209.0	377.0	350.0	69.1	149.0	70.0
21	8.7	9.8	11.5	12.6	13.8	39.4	223.0	370.0	348.0	67.1	121.0	24.6
22	8.5	9.8	11.5	12.6	13.8	58.6	276.0	341.0	358.0	61.8	94.9	4.5
23	8.4	9.8	11.5	12.5	13.9	38.7	300.0	311.0	367.0	58.8	36.7	3.5
24	8.8	10.0	11.5	12.7	14.3	49.0	344.0	302.0	371.0	58.8	28.0	3.5
25	8.5	10.2	11.5	12.9	14.6	136.0	326.0	307.0	376.0	58.5	11.9	3.5
26	8.5	10.4	11.6	12.9	14.6	131.0	317.0	312.0	373.0	53.1	6.2	3.5
27	8.5	10.4	11.7	13.0	14.6	168.0	335.0	326.0	378.0	53.4	6.2	3.5
28	8.7	10.4	12.0	13.0	14.6	208.0	239.0	325.0	374.0	53.7	6.2	3.5
29	8.8	10.4	12.1	13.1	14.6	291.0	189.0	324.0	361.0	60.8	6.2	3.5
30	8.8	10.4	12.1		14.6	293.0	183.0	335.0	360.0	61.2	6.1	3.5
31		10.3	12.1		15.3		180.0		367.0	66.4		3.6
TOTAL CFS DAYS	1484.8	296.7	347.4	360.4	428.1	2311.8	8992.0	17114.0	11233.0	5672.8	2649.5	653.5
TOTAL ACRE FEET	2945	588.4	689.1	714.9	849.1	4585.5	17835.6	33945.6	22280.7	11252	5255.2	1296.2
TOTAL ACRE FEET RELEASED		**102237.3**										

TWIN POTS RESERVOIR

HYDROGRAPHIC DATA

Date	Surface Elev.	Total Storage	Period Stored	Changes Released	Outflow	Inflow 2024	Inflow 2023
2023							
Nov. 1	17.84	1,487					
			2,352	0		2,352	-663
Dec. 1	31.64	3,839					
2024			0	377		-377	0
Jan. 1	29.77	3,461					
			0	310		-310	0
Feb. 1	28.15	3,151					
			0	234		-234	0
Mar. 1	26.88	2,917					
			0	252		-252	0
Apr. 1	25.46	2,665					
			1,460	0	0	1,460	3,979
May 1	33.00	4,125					
			56	0	0	56	65
June 1	33.26	4,181					
			0	560	388	-172	-16
July 1	30.57	3,620					
			0	2,139	1,899	-240	185
Aug. 1	17.80	1,482					
			0	1,394	1,383	-10	37
Sept. 1	4.47	88					
			0	52	40	-12	1,210
Oct. 1	3.71	36					
			786	0	0	786	36
Nov. 1	12.55	823					
TOTALS			4653.9	5318	3710	3046	4833

Twin Pots Reservoir: The reservoir was nearly full all winter and the conditions along the toe of the dam reflected that as there was a lot more seepage and water there than during typical years. There was no indication of piping or running water to cause concern but the additional water is worthy of note. The Association began sending water down the Farnsworth Canal on April 5th to open the channel up and to begin filling the reservoir. A week or so later the flow was increased. The reservoir was full as of April 21st and was maintained full until June 25th when the Association began releasing water. The datalogger on the flume below the dam was upgraded to a newer version with a better radio that works with the 900 MHz radio between the Moon Lake Shed and the top of Twin Pots Dam. Once it was up and working it has performed very well.

DAILY RECORD FLOW CFS **TWIN POTS RESERVOIR** **2024**

DAY	APRIL	MAY	JUNE	JULY	AUGUST	SEP	OCT
1	0.0	0.0	0.0	34.9	25.6	6.6	0.0
2	0.0	0.0	0.0	34.6	25.3	4.6	0.0
3	0.0	0.0	0.0	34.3	24.9	3.6	0.0
4	0.0	0.0	0.0	34.1	24.5	3.5	0.0
5	0.0	0.0	0.0	33.9	24.1	1.9	0.0
6	0.0	0.0	0.0	33.7	29.4	0.0	0.0
7	0.0	0.0	0.0	33.4	32.1	0.0	0.0
8	0.0	0.0	0.0	33.1	31.4	0.0	0.0
9	0.0	0.0	0.0	32.8	30.8	0.0	0.0
10	0.0	0.0	0.0	32.8	30.1	0.0	0.0
11	0.0	0.0	0.0	32.7	29.5	0.0	0.0
12	0.0	0.0	0.0	32.3	28.7	0.0	0.0
13	0.0	0.0	0.0	32.0	28.0	0.0	0.0
14	0.0	0.0	0.0	31.6	27.1	0.0	0.0
15	0.0	0.0	0.0	31.3	26.2	0.0	0.0
16	0.0	0.0	0.0	31.1	25.3	0.0	0.0
17	0.0	0.0	0.0	30.9	24.5	0.0	0.0
18	0.0	0.0	0.0	30.6	23.6	0.0	0.0
19	0.0	0.0	0.0	30.3	22.5	0.0	0.0
20	0.0	0.0	0.0	30.0	21.3	0.0	0.0
21	0.0	0.0	0.0	29.6	20.3	0.0	0.0
22	0.0	0.0	0.0	29.3	19.3	0.0	0.0
23	0.0	0.0	0.0	29.0	18.1	0.0	0.0
24	0.0	0.0	0.0	28.7	17.2	0.0	0.0
25	0.0	0.0	17.5	28.3	16.2	0.0	0.0
26	0.0	0.0	36.0	28.0	15.2	0.0	0.0
27	0.0	0.0	35.9	27.5	13.6	0.0	0.0
28	0.0	0.0	35.7	27.1	12.4	0.0	0.0
29	0.0	0.0	35.4	26.8	11.4	0.0	0.0
30	0.0	0.0	35.2	26.4	10.2	0.0	0.0
31		0.0		26.0	8.8		0.0
TOTAL CFS DAYS	0.00	0.00	195.62	957.22	697.34	20.30	0.00
TOTAL ACRE FEET	0.00	0.00	388.01	1898.65	1383.17	40.27	0.00
TOTAL ACRE FEET RELEASED		**3710.1**					

SANDWASH RESERVOIR

HYDROGRAPHIC DATA

Date	Surface Elev.	Total Storage	Period Stored	Changes Released	Outflow	Inflow 2024	Inflow 2023
2023							
Nov. 1	5898.09	15,631					
			5,575	-	115	5,690	3,060
Dec. 1	5909.88	21,206					
2024			3,302	-	62	3,364	5,132
Jan. 1	5915.90	24,508					
			293	-	109	402	4,615
Feb. 1	5916.41	24,801					
			602	-	110	712	3,620
Mar. 1	5917.43	25,403					
			436	-	71	507	4,196
Apr. 1	5918.17	25,839					
			-	1,012	3,437	2,425	989
May 1	5916.45	24,827					
			-	2,972	8,401	5,429	3,594
June 1	5911.11	21,855					
			1,497	-	9,227	10,724	4,188
July 1	5913.86	23,352					
			-	9,433	11,257	1,824	2,883
Aug. 1	5893.92	13,919					
			-	5,163	7,642	2,479	2,279
Sept. 1	5878.86	8,756					
			-	3,796	5,203	1,407	5,402
Oct. 1	5863.39	4,960					
			1,935	-	293	2,228	4,380
Nov. 1	5872.02	6,895					
TOTALS			13640	22376	45926	37190	44336


Roosevelt Pipeline Power Line
March 13, 2024


Roosevelt Pipeline Power Line
March 14, 2024

DAILY RECORD FLOW CFS

Big Sand Wash Reservoir Daily Flow

2024

DAY	NOV	DEC	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEP	OCT
1	2.5	0.0	1.0	2.7	2.7	0.0	154.9	128.2	170.2	175.8	138.9	15.9
2	2.5	0.0	1.8	2.7	2.7	0.0	134.7	136.2	195.4	182.7	125.9	15.2
3	2.5	0.0	1.8	2.7	2.7	1.1	133.7	146.8	205.7	186.7	123.4	13.2
4	2.5	0.0	1.8	2.7	2.7	1.5	121.3	148.9	213.2	191.6	122.3	13.7
5	2.5	0.0	1.8	1.6	2.7	1.4	116.9	144.6	219.5	189.3	116.7	11.5
6	2.5	0.0	1.8	0.2	2.7	1.3	123.9	144.4	209.4	176.4	114.4	8.9
7	2.7	0.0	1.8	0.9	2.7	1.3	136.2	136.1	197.0	158.1	109.0	5.9
8	2.7	0.0	1.8	1.6	2.7	2.3	141.6	128.2	191.5	139.2	92.8	5.7
9	2.7	0.0	1.4	1.6	2.7	5.6	148.9	134.7	169.1	136.7	90.3	5.9
10	2.7	0.0	1.4	1.0	2.7	9.3	168.9	130.9	168.2	120.5	92.6	4.3
11	2.7	0.0	1.4	0.2	2.7	14.8	179.3	137.4	161.3	112.0	95.9	3.8
12	2.7	1.2	1.4	1.0	1.8	11.4	159.7	142.5	175.6	101.5	100.9	3.9
13	2.7	1.2	1.4	1.8	0.9	14.6	171.5	140.0	185.5	96.7	113.6	5.2
14	2.4	1.2	1.4	2.2	0.9	25.5	178.5	142.2	178.4	101.3	123.1	4.7
15	2.4	1.2	1.4	2.7	0.6	30.5	164.9	160.9	174.9	90.5	126.3	4.1
16	2.4	1.2	2.0	2.1	0.4	31.2	156.6	171.2	172.5	84.3	123.1	2.0
17	2.4	1.2	2.0	1.8	0.4	25.5	147.3	190.6	174.6	85.6	115.6	2.1
18	2.4	1.2	2.0	1.8	0.4	31.5	136.4	182.2	171.7	97.0	111.4	0.4
19	2.4	1.5	2.0	1.4	0.4	48.5	137.8	168.3	166.6	96.1	105.3	0.4
20	2.4	1.5	2.0	1.4	0.3	80.1	131.8	168.5	172.5	92.5	98.4	0.4
21	1.0	1.5	2.0	1.6	0.0	112.8	113.3	173.1	191.8	92.9	93.8	0.4
22	1.0	1.5	2.0	1.8	0.0	134.3	96.1	168.7	202.2	86.9	84.9	0.4
23	1.0	1.5	1.8	2.1	0.0	141.3	85.1	172.1	183.7	83.1	72.6	0.4
24	1.0	1.5	1.8	2.7	0.0	130.2	105.8	165.4	178.7	94.7	34.4	1.8
25	1.0	1.5	1.8	2.7	0.0	142.6	128.4	152.7	180.7	108.0	30.0	2.4
26	1.0	2.0	1.8	2.7	0.0	139.7	131.4	157.9	181.8	106.1	15.6	2.5
27	1.1	2.0	1.8	2.7	0.0	145.5	125.7	157.1	179.8	115.1	10.2	2.5
28	0.0	2.0	1.8	2.7	0.0	146.0	115.7	162.0	179.8	130.0	11.4	2.5
29	0.0	2.0	1.8	2.7	0.0	145.9	129.7	179.3	175.8	144.5	15.7	2.5
30	0.0	2.0	2.6		0.0	157.2	129.1	181.0	178.4	143.2	15.0	2.5
31		2.0	2.6		0.0		130.0		170.0	133.5		2.5
TOTAL CFS DAYS	58.0	31.4	54.8	55.5	35.6	1732.8	4235.2	4651.8	5675.3	3852.5	2623.3	147.6
TOTAL ACRE FEET	115.1	62.4	108.7	110.1	70.7	3437	8400.6	9226.9	11256.9	7641.5	5203.4	292.7
TOTAL ACRE FEET RELEASED		**45926.0**										


BSW Access
March 6, 2024


Chain link fence in need of repair
May 1, 2024

Big Sand Wash Reservoir: Big Sand Wash Reservoir reached full elevation and began spilling on about April 1st and remained full until April 25th. Releases began on April 18th. Then, during runoff the reservoir refilled and was full from about June 8th to the 20th. Releases continued late into the season ending on October 1st. The reservoir reached a low for the season of elevation 5862.61 on September 27th. A small project was done below the dam in the spring. MLWUA worked with DCWCD to run a power line from the valve house to one of the air vents on the Roosevelt Pipeline that gets too cold during winter operations. Power was also stubbed out to the D-Split structure for future use. The DWR continued improvements to the new access point on the East side of the reservoir by fencing off the road. This will greatly help with many of the access issues. Late in the season, there were some issues with the D-Split heading. There was increasing loss from the outlet of the reservoir to all the turnouts and measurement points. It was found that there is no floor in the wet well of the D-Split flume. For a time, the water was leaking out of the bottom at a rate that would not let the level catch up and be correct resulting in more water being turned down Class D than was being recorded. The bottom was dug up and packed with different material which made a significant difference. Later, there were issues with the sensor and the potentiometer was replaced, but the wiring may need to be changed as well. RC Fencing was hired to fix some areas of the chain link fence along SR 87 this summer. There were about three areas that had been damaged.

Chain link fence that was fixed
August 7, 2024

D-Split Wet Well
July 28, 2024

BSW Feeder Pipeline Inlet
December 10, 2024

Big Sand Wash Feeder Pipeline: Due to a good water year in 2023 and great carryover storage, the Feeder Pipeline was shut down on December 20th, 2023, so that the reservoir would not spill too early in the spring. The pipeline then sat idle until April 24th when operations were beginning. One of the actuators on one of the gates at the heading got to where it wasn't working properly and would not lift the gate when there was water on it. It was thought for a while that maybe the gate was wearing out and causing too much friction. However, it turned out that the lift bearing in the actuator had worn out and was causing the issue. The actuator was pulled, and the bearings were replaced. Before winter operations began the area in front of the heading grates had to be cleaned as there was a lot of debris and silt that had deposited there and could not be removed by opening the river gate. Excavation Services came in and removed the debris with their excavator. They also went upstream and fixed an area of the riverbank where water was traveling around the structure.

Big Sand Wash Feeder Pipeline Diversion
June 7, 2024

BSW Feeder Pipeline Diversion
July 15, 2024

DAILY RECORD FLOW CFS **BSW FEEDER PIPELINE FLOWS** **2024**

DAY	NOV	DEC	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEP	OCT
1	10.79	77.93	0.00	0.00	0.00	0.00	8.62	49.96	0.00	11.35	4.22	14.44
2	12.14	85.66	0.00	0.00	0.00	0.00	7.84	67.66	0.00	11.73	4.27	12.84
3	11.57	84.94	0.00	0.00	0.00	0.00	8.29	69.44	0.00	11.78	4.41	10.06
4	18.00	94.96	0.00	0.00	0.00	0.00	10.94	73.10	0.00	11.90	5.13	9.73
5	30.95	90.52	0.00	0.00	0.00	0.00	10.88	105.62	0.00	12.95	9.41	10.52
6	30.15	88.51	0.00	0.00	0.00	0.00	14.32	107.01	0.00	13.57	7.40	21.82
7	27.44	88.29	0.00	0.00	0.00	0.00	14.32	80.37	0.00	13.41	6.21	26.44
8	24.34	87.19	0.00	0.00	0.00	0.00	9.13	91.66	0.00	13.48	5.47	27.08
9	10.36	81.11	0.00	0.00	0.00	0.00	8.02	30.74	0.00	10.87	5.15	26.94
10	40.60	62.79	0.00	0.00	0.00	0.00	8.00	0.00	0.00	10.98	4.45	26.88
11	70.47	66.53	0.00	0.00	0.00	0.00	9.75	0.00	0.00	11.80	1.84	27.46
12	89.21	71.27	0.00	0.00	0.00	0.00	14.67	0.00	0.00	12.01	2.61	26.39
13	90.42	69.87	0.00	0.00	0.00	0.00	14.17	0.00	0.00	15.26	2.73	26.17
14	88.67	68.99	0.00	0.00	0.00	0.00	9.85	0.00	0.00	17.30	2.57	27.74
15	88.30	67.92	0.00	0.00	0.00	0.00	10.95	0.00	0.00	13.38	3.20	27.93
16	88.91	67.26	0.00	0.00	0.00	0.00	9.36	0.00	0.48	10.20	2.49	28.90
17	95.97	73.50	0.00	0.00	0.00	0.00	10.50	0.00	0.00	9.10	2.44	28.29
18	90.66	80.57	0.00	0.00	0.00	0.00	18.51	3.03	1.02	8.69	4.01	33.28
19	88.58	82.08	0.00	0.00	0.00	0.00	24.19	54.92	2.80	11.59	8.42	36.84
20	92.90	28.03	0.00	0.00	0.00	0.00	28.19	48.29	2.62	13.11	8.25	16.71
21	87.63	0.00	0.00	0.00	0.00	0.00	31.96	39.69	2.25	10.74	9.31	8.85
22	84.02	0.00	0.00	0.00	0.00	0.00	8.80	27.78	2.17	7.87	7.90	7.40
23	86.41	0.00	0.00	0.00	0.00	0.00	1.89	30.52	2.41	7.65	5.82	3.58
24	86.67	0.00	0.00	0.00	0.00	2.13	2.39	17.37	12.93	9.18	8.92	3.87
25	91.73	0.00	0.00	0.00	0.00	13.70	1.32	8.24	13.21	10.24	10.98	0.14
26	85.88	0.00	0.00	0.00	0.00	17.53	20.29	8.24	13.94	10.47	11.04	0.00
27	72.57	0.00	0.00	0.00	0.00	12.92	9.64	0.54	10.79	13.22	11.78	0.00
28	74.56	0.00	0.00	0.00	0.00	17.10	7.90	0.46	9.93	8.82	13.91	0.00
29	74.09	0.00	0.00	0.00	0.00	13.47	22.04	1.13	10.68	7.20	13.96	0.00
30	73.92	0.00	0.00		0.00	12.43	35.68	0.03	10.50	5.71	13.94	3.28
31		0.00	0.00		0.00		68.70		11.20	4.59		7.50
TOTAL CFS DAYS	1917.91	1517.92	0.00	0.00	0.00	89.28	461.11	915.80	106.93	340.15	202.24	501.08
TOTAL ACRE FEET	3804.2	3010.8	0.0	0.0	0.0	177.1	914.6	1816.5	212.1	674.7	401.1	993.9
TOTAL ACRE FEET MOVED		**12005.0**										


Interior of BSW Feeder Pipeline Diversion
August 8, 2024

DAILY RECORD FLOW CFS **Big Sand Wash Roosevelt Pipeline** **2024**

DAY	NOV	DEC	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEP	OCT
1	2.5	0.0	1.0	2.7	2.7	0.0	16.3	3.7	11.9	15.5	4.6	11.0
2	2.5	0.0	1.8	2.7	2.7	0.0	7.0	4.6	18.7	19.2	5.1	10.3
3	2.5	0.0	1.8	2.7	2.7	1.1	11.0	4.9	18.2	13.6	7.2	8.3
4	2.5	0.0	1.8	2.7	2.7	1.5	7.0	4.7	17.4	16.6	6.1	8.8
5	2.5	0.0	1.8	1.6	2.7	1.4	3.1	5.0	14.4	18.3	4.6	9.0
6	2.5	0.0	1.8	0.2	2.7	1.3	2.9	4.9	12.3	19.5	4.8	8.9
7	2.7	0.0	1.8	0.9	2.7	1.3	3.5	4.6	11.8	17.3	4.4	5.9
8	2.7	0.0	1.8	1.6	2.7	2.3	3.7	4.3	15.3	17.0	4.0	5.7
9	2.7	0.0	1.4	1.6	2.7	2.4	4.2	4.6	18.2	14.8	4.6	5.9
10	2.7	0.0	1.4	1.0	2.7	2.7	9.5	5.0	18.4	21.6	4.6	4.3
11	2.7	0.0	1.4	0.2	2.7	2.6	11.4	4.7	11.9	18.9	6.4	3.8
12	2.7	1.2	1.4	1.0	1.8	2.8	8.1	5.1	10.9	11.0	9.6	3.9
13	2.7	1.2	1.4	1.8	0.9	2.8	7.3	5.2	6.7	5.9	7.8	5.2
14	2.4	1.2	1.4	2.2	0.9	2.6	11.3	5.0	9.0	5.6	5.6	4.7
15	2.4	1.2	1.4	2.7	0.6	2.4	7.7	4.5	10.5	4.7	8.5	4.1
16	2.4	1.2	2.0	2.1	0.4	3.1	9.5	4.4	10.5	4.8	8.8	2.0
17	2.4	1.2	2.0	1.8	0.4	2.7	10.0	8.0	14.1	3.9	5.6	2.1
18	2.4	1.2	2.0	1.8	0.4	3.4	8.6	7.3	10.2	3.2	5.5	0.4
19	2.4	1.5	2.0	1.4	0.4	3.1	7.8	11.1	9.0	3.3	8.0	0.4
20	2.4	1.5	2.0	1.4	0.3	2.8	5.9	9.6	6.5	3.5	9.4	0.4
21	1.0	1.5	2.0	1.6	0.0	2.8	4.4	9.8	7.0	4.9	8.1	0.4
22	1.0	1.5	2.0	1.8	0.0	2.7	5.1	3.8	11.1	4.5	5.9	0.4
23	1.0	1.5	1.8	2.1	0.0	3.1	5.0	4.7	11.9	4.0	4.6	0.4
24	1.0	1.5	1.8	2.7	0.0	4.0	5.6	5.0	21.0	4.0	4.1	1.8
25	1.0	1.5	1.8	2.7	0.0	3.9	3.8	7.7	22.3	4.5	4.8	2.4
26	1.0	2.0	1.8	2.7	0.0	4.1	3.9	5.4	18.7	3.9	5.2	2.5
27	1.0	2.0	1.8	2.7	0.0	4.9	4.7	6.6	18.6	4.3	4.8	2.5
28	0.0	2.0	1.8	2.7	0.0	6.2	4.7	4.8	16.4	5.3	5.9	2.5
29	0.0	2.0	1.8	2.7	0.0	12.1	10.6	5.3	14.5	6.2	10.6	2.5
30	0.0	2.0	2.6		0.0	16.4	6.0	6.0	16.4	5.3	10.1	2.5
31		2.0	2.6		0.0		4.2		13.2	5.0		2.5
TOTAL CFS DAYS	58.0	31.4	54.8	55.5	35.6	102.3	213.9	170.0	426.8	290.1	189.0	125.4
TOTAL ACRE FEET	115	62.3	108.7	110.1	70.7	203	424.3	337.2	846.5	575.4	374.8	248.7

TOTAL ACRE FEET RELEASED **3476.7** State Road **1305.0** Roosevelt* **2171.7**

SR Res Loss **41.0**

*588.06 ac-ft of Roosevelt's portion was released at a new turnout in Ioka for use by XCL

Big Sand Wash Roosevelt Pipeline: While general operations of the Roosevelt Pipeline are the responsibility of DCWCD, MLWUA is still involved with major decisions and maintenance. DCWCD had the cathodic project designed and put it out to bid. During the first bid process there were no bidders. After discussion with the original designer of the system, it was decided to wait for a time and re-bid the project. He assured us that the extra time would not cause major damage to the pipeline. The second try yielded 4 bids, one of which was accepted. The project has not yet been done. Power has been run to some of the problematic air vents to keep them heated.


A gate on the BSWFP Diversion
July 15, 2024


Worn out Bearing
September 10, 2025


Upper Stream is water going around BSWFP Diversion before fixing
September 5, 2024

C Canal and Heading: The heading continues to perform well. Prior to high flows, Excavation Services was brought in to perform maintenance on the measurement flume below the heading to stop water from running around it and to fill the hole that has been developing below it. Large amounts of material and riprap were required to fill the hole. A bridge was also placed over the measurement structure on the heading to allow for safe passage to drive the canal during high flows. Some large blocks were also placed in the heading below the gates to still the flows as they come out in hopes that it would allow for the measurement on the heading structure to work properly. It made a significant difference, and the flows measured on both structures matched very well after the placement of the blocks. However, during high flows in the canal, the blocks moved, one of them going completely out of the structure.

C Canal Flume
February 15, 2024

C Canal Flume
April 15, 2024

Bridge and Blocks in C Canal Heading
April 16, 2024

Trash in C Canal Heading
June 4, 2024

C Canal at approximate Capacity
June 2, 2024

BROWNS DRAW RESERVOIR

HYDROGRAPHIC DATA

Date	Surface Elev.	Total Storage	Period Stored	Changes Released	Outflow	Inflow 2024	Inflow 2023
2023							
Nov. 1	6047.4	5,263					
			-	32		(32)	2,482
Dec. 1	6047.2	5,231					
2024			137	-		137	(10)
Jan. 1	6048.0	5,368					
			-	134		(134)	(19)
Feb. 1	6047.2	5,234					
			15	-		15	122
Mar. 1	6047.3	5,249					
			471	-		471	829
Apr. 1	6050.0	5,720					
			-	55	32	(23)	(40)
May 1	6049.6	5,665					
			-	28	2,023	1,995	894
June 1	6049.5	5,637					
			-	561	2,198	1,637	248
July 1	6046.3	5,076					
			-	2,303	490	(1,813)	(521)
Aug. 1	6031.2	2,773					
			-	1,683	1,838	155	290
Sept. 1	6016.5	1,090					
			-	1,000	238	(762)	674
Oct. 1	5999.4	90					
			1,384	-	-	1,384	4,732
Nov. 1	6020.4	1,474					
TOTALS			2007	5796	6819	3030	9682

DAILY RECORD FLOW CFS **Browns Draw Reservoir** **2024**

DAY	APRIL	MAY	JUNE	JULY	AUGUST	SEP	OCT
1	0.00	8.95	33.60	37.11	39.41	29.17	0.00
2	0.00	14.70	38.89	36.03	39.69	33.32	0.00
3	0.00	19.25	41.40	40.96	39.70	48.46	0.00
4	0.01	21.33	43.52	39.30	40.27	9.21	0.00
5	0.00	23.93	40.90	39.44	35.64	0.00	0.00
6	0.00	21.93	37.88	38.76	30.56	0.00	0.00
7	0.00	21.87	38.53	41.01	28.43	0.00	0.00
8	0.00	21.33	36.07	38.19	29.15	0.00	0.00
9	0.00	27.01	36.56	38.71	30.47	0.00	0.00
10	0.00	31.20	36.56	39.89	36.31	0.00	0.00
11	0.00	32.00	40.25	40.63	41.71	0.00	0.00
12	0.00	32.56	42.46	40.50	39.17	0.00	0.00
13	0.00	37.32	41.42	38.71	32.88	0.00	0.00
14	0.00	41.94	37.87	41.59	31.12	0.00	0.00
15	0.00	47.29	35.21	40.18	29.61	0.00	0.00
16	0.00	49.04	33.80	40.77	27.55	0.00	0.00
17	0.00	48.78	35.54	41.77	24.37	0.00	0.00
18	0.00	47.05	33.91	41.29	26.67	0.00	0.00
19	0.00	48.55	38.48	39.06	23.03	0.00	0.00
20	0.00	44.92	38.63	37.66	19.56	0.00	0.00
21	0.00	41.27	42.64	38.97	19.40	0.00	0.00
22	1.20	36.94	31.94	37.30	19.42	0.00	0.00
23	1.24	39.92	29.15	37.77	18.31	0.00	0.00
24	1.05	38.01	28.85	38.35	24.39	0.00	0.00
25	0.96	29.18	30.49	35.93	29.79	0.00	0.00
26	0.92	24.59	30.85	34.47	29.57	0.00	0.00
27	2.51	28.29	33.53	33.83	28.21	0.00	0.00
28	3.44	30.69	40.06	35.34	29.65	0.00	0.00
29	2.21	36.25	41.11	35.03	31.96	0.00	0.00
30	2.63	38.40	37.85	34.86	28.43	0.00	0.00
31		35.27		35.66	25.97		0.00
TOTAL CFS DAYS	16.17	1019.76	1107.95	1189.07	930.40	120.16	0.00
TOTAL ACRE FEET	32.1	2022.7	2197.6	2358.5	1845.4	238.3	0
TOTAL ACRE FEET RELEASED		**8694.6**					

Browns Draw Reservoir: The sensor on the flowmeter was replaced in the spring and worked well throughout the season. 6" pipe was obtained to re-do the 2" drain that takes water away from the toe of the dam near the northernmost toe drain. There is a low spot there near the toe drain that can collect water and the 2" drain regularly plugs allowing the water to pool up at the toe of the dam. Two bids were received for the slip line project at the reservoir and BHI was the low. After a slow start to the project, they came in and did a good job. The gate and trash rack were replaced. The lower 30 to 40 feet of the air vent pipe was also replaced after their grout plug failed and filled it with grout during the grouting of the slip line. It turned out to be a good thing as one of the original fittings had been broken for years and it appeared that water had been leaking through it into the outlet pipe. The total cost of the construction portion of the project was just over $342,000. A BOR Watersmart grant and a UDAF Optimization grant were obtained and between the two paid 90% of all the costs. Due to the project, filling of the reservoir did not start until mid-October. The reservoir reached 50% of capacity prior to the temperatures getting too cold to continue running water in the canal. The Association was also contacted late in the year and asked by Water Resources to participate in a FEMA program that will help pay for phase two dam safety upgrades that have yet to be addressed by the State. It was felt that this was a good opportunity, so the Association opted to participate.


Browns Headgate removed
October 1, 2024


Pushing pipe into existing outlet
October 8, 2024


New Browns Draw Headgate installed
October 8, 2024

Yellowstone Feeder Canal: The association is waiting for potential funding to address the spill structure in the Dry Gulch area of the canal that was noted in last year's report. A leak about a mile west of the Mud Springs Draw road was fixed in the fall while water was being moved to Browns Draw. Another leak near the heading was noted but is yet to be fixed.


Leak on YFC prior to being fixed
October 28, 2024

DAILY RECORD FLOW CFS **Lake Fork Connector Project** **2024**

DAY	APRIL	MAY	JUNE	JULY	AUGUST	SEP	OCT
1	0.00	0.00	0.00	0.00	8.01	14.96	7.00
2	0.00	0.00	0.00	0.00	8.01	13.38	7.01
3	0.00	0.00	0.00	0.00	8.03	13.30	7.00
4	0.00	0.00	0.00	0.00	8.00	13.27	7.01
5	0.00	0.00	0.00	0.00	8.01	13.23	7.01
6	0.00	0.00	0.00	0.00	6.69	10.00	7.72
7	0.00	0.00	0.00	0.00	4.52	8.80	9.87
8	0.00	0.00	0.00	0.00	7.39	8.25	12.08
9	0.00	0.00	0.00	0.00	8.02	11.22	0.00
10	0.00	0.00	0.00	0.00	8.37	9.21	0.00
11	0.00	0.00	0.00	0.00	10.00	8.02	0.00
12	0.00	0.00	0.00	0.00	10.02	6.87	0.00
13	0.00	0.00	0.00	0.00	10.03	5.00	0.00
14	0.00	0.00	0.00	0.00	10.01	4.99	0.00
15	0.00	0.00	0.00	0.00	10.04	5.00	0.00
16	0.00	0.00	0.00	0.00	10.01	5.00	0.00
17	0.00	0.00	0.00	0.00	10.01	5.01	0.00
18	0.00	0.00	0.00	0.74	10.00	6.36	0.00
19	0.00	0.00	0.00	5.02	10.02	7.01	0.00
20	0.00	0.00	0.00	5.96	10.02	7.02	0.00
21	0.00	0.00	0.00	7.30	10.01	10.21	0.00
22	0.00	0.00	0.00	8.98	11.58	9.18	0.00
23	0.00	0.00	0.00	9.57	13.44	13.13	0.00
24	0.00	0.00	0.00	9.99	14.91	12.36	0.00
25	0.00	0.00	0.00	10.01	15.08	12.18	0.00
26	0.00	0.00	0.00	9.51	14.96	12.29	0.00
27	0.00	0.00	0.00	8.01	12.95	11.34	0.00
28	0.00	0.00	0.00	8.01	12.16	7.00	0.00
29	0.00	0.00	0.00	8.01	13.61	7.00	0.00
30	0.00	0.00	0.00	8.00	13.10	6.98	0.00
31		0.00		8.01	15.81		0.00
TOTAL CFS DAYS	0.00	0.00	0.00	107.12	322.82	277.57	64.70
TOTAL ACRE FEET	0	0	0	212.5	640.3	550.6	128.3

TOTAL ACRE FEET RELEASED	**1531.7**
PURDY	**839.2**
UTLAND	**485.5**
REDCAP	**207.00**

Lake Fork Connector Pipeline: Early in the spring, the manager put plates at either end of the screens in the structure to hold them in place. This will hopefully prevent them from coming out in the future. While loading and preparing the line for use, it was noticed that the Redcap meter was not working properly and that the readout head had moisture in it. McCrometer was contacted and a new meter was ordered to replace the existing one. The turnout was not used until the meter was replaced.

Lake Fork Connector Pipeline Heading
April 22, 2024

Coyote Canal Drop
November 1, 2024

Coyote Canal Rehabilitation: There appeared to be some progress with the PL-566 funding this year. The environmental assessment has finally been allowed to be submitted to the national headquarters for review. This is hopefully the last step prior to entering final design and construction.

Big Sand Wash House: Water damage on the ceiling of the garage was noted on the house at Big Sand Wash. The water damage was due to the deck above that part of the garage not being sealed properly. Mike Ivie was hired to seal and re-do the deck.

Big Sand Wash House
June 4, 2024

Farnsworth Canal
April 5, 2024

Farnsworth Heading Radial Gate
October 9, 2024

2024 Exchange

	DREX	NF	Assoc.	DG Filing	DG Exc.
12/1/2023	0.00	0.00	5993.59	0.00	52.29
1/1/2024	0.00	0.00	4559.06	0.00	39.77
2/1/2024	0.00	0.00	1442.41	0.00	12.58
3/1/2024	0.00	1699.32	0.00	0.00	21.14
4/1/2024	0.00	1447.93	481.43	0.00	22.22
4/15/2024	0.00	1034.40	157.29	0.00	14.24
4/15/2024	0.00	0.00	15976.67	0.00	139.37
4/29/2024	650.84	3673.28	643.83	0.00	51.32
5/13/2024	1893.34	1452.96	1987.74	12.91	35.67
5/20/2024	946.67	6036.26	995.90	40.68	84.58
5/28/2024	1487.63	5447.21	1111.38	44.23	78.33
6/11/2024	2975.25	19594.75	3448.77	175.06	277.27
6/20/2024	2125.18	8121.03	1760.72	91.00	118.16
6/20/2024	0.00	0.00	67808.62	0.00	591.54
7/1/2024	2337.70	4684.23	2018.73	85.39	77.54
7/8/2024	1487.63	131.06	1300.72	52.76	13.99
7/15/2024	946.67	637.22	795.25	29.16	15.43
7/22/2024	946.67	433.73	1047.76	4.17	14.62
7/29/2024	946.67	0.00	947.22	0.00	8.26
8/5/2024	801.03	0.00	663.55	0.00	5.79
8/12/2024	693.75	0.00	944.05	0.00	8.24
8/26/2024	1301.67	1423.98	1588.28	55.88	32.65
9/2/2024	650.84	317.59	871.42	13.69	11.82
9/9/2024	650.84	226.84	559.27	4.17	7.78
9/16/2024	650.84	0.00	662.91	1.39	5.81
9/23/2024	650.84	0.00	660.97	0.00	5.77
9/30/2024	278.93	908.71	442.86	0.00	15.17
10/15/2024	0.00	2257.20	-68.25	0.00	27.49
10/28/2024	0.00	2539.82	195.15	0.00	33.31
11/1/2024	0.00	999.50	95.16	0.00	13.27
Totals	22422.99	63067.02	119092.46	610.49	1835.42


Moose near Twin Pots
October 22, 2024


Elk Herd near Twin Pots
April 5, 2024


Turkey near Twin Pots
May 16, 2024


Culvert on Rainbow Canal
March 22, 2024


Culvert on Rainbow Canal
March 22, 2024


Moon Lake Spillway
January 23, 2024


Moon Lake Valve House
February 1, 2024


Shed and Cloud Seeder at Moon Lake
March 9, 2024


Moon Lake House
March 9, 2024

YEARLY DATA - PROJECT WATER SUPPLY

	Moon Lake Reservoir			Twin Pots Reservoir		Big Sandwash Reservoir			Browns Draw		Exchange		Moon Lake Project		
	Total	STORAGE		STORAGE		Total	STORAGE		STORAGE		Duchesne	Dry Gulch	PROJECT WATER SUMMARY		
Year	Inflow	Stored	Used	Total	Used	Inflow	Stored	Used	Stored	Used	River	Irr. Co.	New Supply	Used	Held Over
2000	60,727	15,654	31,165	2,573	3,873	32,904	8,621	10,797	3,094	5,627	22,364	1,570	57,238	78,757	19,265
2001	76,910	27,398	29,456	3,786	3,873	40,570	10,563	10,563	4,856	7,530	22,080	1,692	76,324	80,630	14,446
2002	42,478	18,900	14,173	0	0	18,264	11,421	10,663	3,322	1,643	15,846	623	52,437	45,273	21,538
2003	65,079	25,298	28,430	3,060	3,221	27,942	6,679	10,815	5,863	5,627	20,811	987	67,042	74,235	14,345
2004	63,726	15,490	12,193	3,769	3,769	26,914	12,100	10,395	7,452	5,627	21,009	1,017	62,869	59,452	18,169
2005	144,863	29,463	23,763	4,898	3,156	41,732	0	41,732	5,315	3,768	22,554	1,693	70,580	61,692	26,782
2006	95,349	21,728	26,148	3,237	3,712	44,414	19,476	38,724	4,936	5,284	21,141	1,789	77,504	77,057	27,300
2007	56,350	17,559	27,682	4,978	3,733	32,788	21,587	30,127	3,364	3,712	17,062	514	67,113	73,678	20,803
2008	70,440	26,940	24,402	2,851	3,712	32,833	18,190	35,619	2,583	2,409	22,559	1,230	78,317	75,919	19,425
2009	76,954	32,136	29,320	3,619	3,817	27,091	23,282	20,388	4,361	5,901	22,424	1,262	87,810	80,029	28,244
2010	75,543	24,965	29,375	4,050	3,783	37,471	18,987	40,645	4,687	5,371	21,753	808	74,554	82,555	16,931
2011	160,318	47,867	29,058	3,706	2,871	54,061	17,854	48,834	5,328	3,092	0*	0*	74,755	47,648	45,092
2012	55,939	10,919	29,950	3,503	3,456	17,898	6,580	35,266	692	5,588	18,024	473	40,190	81,439	12,016
2013	69,632	30,021	20,247	373	0	35,995	22,768	20,288	9,631	5,605	18,426	1,085	81,290	64,637	29,170
2014	84,619	26,311	19,368	3,784	2,811	39,605	23,361	20,380	5,055	4,271	22,140	1,242	81,893	70,212	40,696
2015	67,581	20,516	27,520	3,886	4,652	42,272	17,490	19,208	3,452	3,696	21,547	1,092	67,983	77,715	31,643
2016	74,321	28,625	28,320	3,762	3,964	46,712	22,298	20,493	3,452	3,696	22,548	1,320	82,005	80,341	33,551
2017	94,583	22,612	19,024	5,973	4,562	48,324	17,655	17,512	4,579	5,039	23,205	1,692	75,716	71,034	38,824
2018	48,328	18,095	30,129	0	2,067	34,471	15,447	24,266	3,283	5,687	17,915	528	55,268	80,592	13,500
2019	98,467	34,883	19,873	4,302	4,439	52,001	24,468	18,959	6,565	4,285	22,994	2,315	95,527	72,865	36,162
2020	51,879	18,220	32,875	4,552	4,133	43,168	19,591	25,784	3,291	5,158	20,510	1,211	67,375	89,671	13,866
2021	53,111	19,729	13,310	501	119	34,392	22,091	19,184	3,969	4,276	21,665	896	68,851	59,450	23,267
2022	71,027	18,969	15,018	5,290	4,707	44,336	24,440	22,833	8,414	5,336	22,893	1,094	81,100	71,881	32,271
2023	81,091	24,235	15,412	3,613	3,508	54,010	23,230	14,109	3,756	4,167	21,412	2,289	78,535	60,897	49,788
2024	61,012	9,989	25,841	4,654	5,318	37,190	13,640	22,376	2,007	5,796	22,423	1,835	54,548	83,590	20,747
Average Annual	76,013	23,461	24,082	3,389	3,330	37,894	16,873	23,598	4,532	4,728	21,054	1,261	71,761	71,569	25,914
2024 % Ave.	80.3%	42.6%	107.3%	137.3%	159.7%	98.1%	80.8%	94.8%	44.3%	122.6%	106.5%	145.6%	76.0%	116.8%	80.1%

*No records or water reports were kept in 2011 so totals do not reflect actual amounts used.


Moon Lake Access Gate
April 10, 2024


Moon Lake Spillway
June 6, 2024


Moon Lake Spill Gates
June 13, 2024

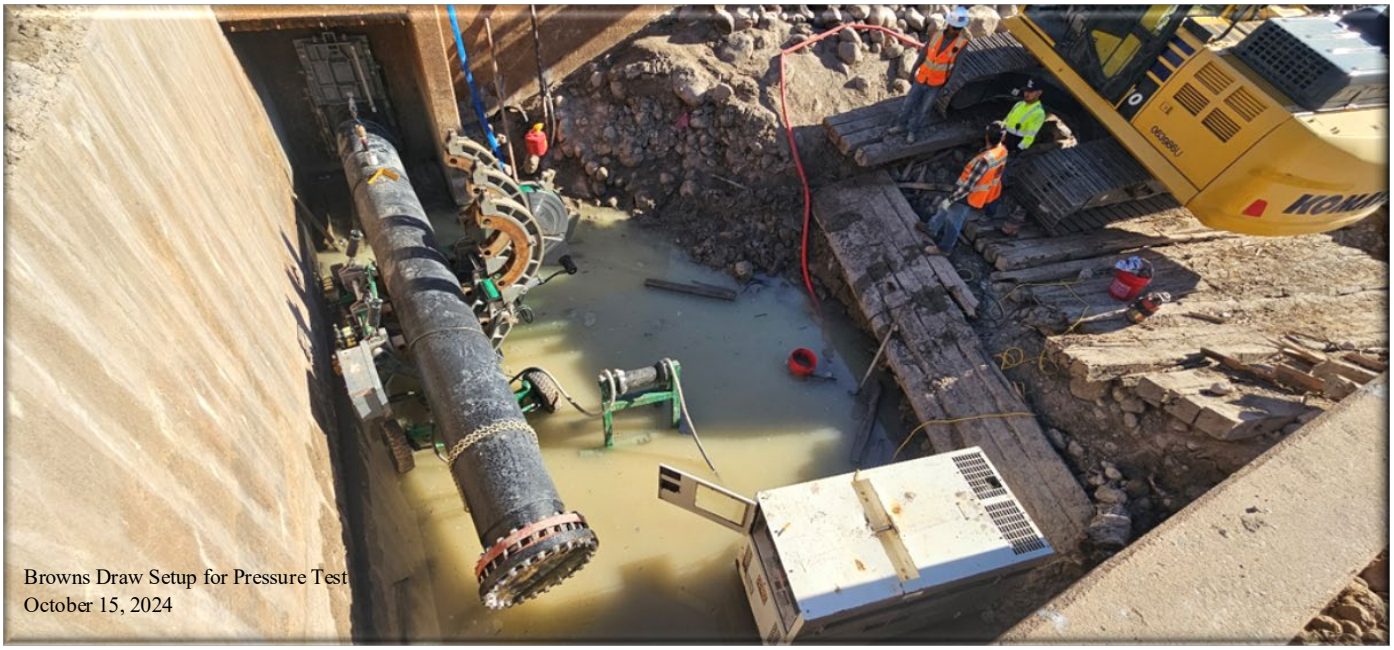

Moon Lake Spillway Repairs
September 25, 2024


Moon Lake Spillway Repairs
November 5, 2024


Moon Lake Spillway Repairs
November 5, 2024


Moon Lake Spillway Repairs
November 5, 2024


Moon Lake Spillway Repairs
November 5, 2024



Browns Draw Setup for Pressure Test
October 15, 2024

Browns Draw "Stainless Steel" Hydraulic Ram for outlet gate installed 2012
October 15, 2024

Browns Draw Air Vent Repair
October 17, 2024

Browns Draw Intake Structure
October 18, 2024


Browns Draw
October 18, 2024


Browns Draw Outlet Pipe
November 1, 2024


Browns Draw Outlet Pipe
November 12, 2024


Browns Draw Outlet Pipe
November 19, 2024