



BOARD OF DIRECTORS REGULAR MEETING

Tuesday, March 5th, 2024 – 9:00A.M.

AGENDA

1. Consent Agenda (approved with one motion).
 - a. Minutes of February 6, 2024, Regular Board meeting.
 - b. Status of Investments Report – February 29, 2024.
 - c. Treasurer’s Report– February 29, 2024.
 - d. Claims.
2. 2024 Water supply update.
3. 2024 Drought management & operating protocols.
4. Selah-Moxee Irrigation District lease option exercise.
5. Watermaster’s report.
6. District Manager’s report.
7. Policy Director’s report.
8. Engineering Manager’s report.
9. Executive Session:
 - a. Executive session pursuant to RCW 42.30.110(1)(i). Potential and pending litigation- State v. Acquavella, Terrace Heights Sewer District, National Pollutant Discharge Elimination System (NPDES) permit appeal and water rights.
 - b. Executive session pursuant to RCW 42.30.110(2)(a)(iii). To evaluate legal risk of a proposed action.

Item #1

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REGULAR MEETING MINUTES

February 6, 2024

The Board of Directors for the Roza Irrigation District convened in regular session on Tuesday February 6, 2024. Present were President Ric Valicoff, Vice-President Jim Willard, Director Tanner Winckler, Director Jason Sheehan, and District Manager Scott Revell, Policy Director Sage Park, Assistant Watermaster Aaron Wiederspohn, Maintenance Superintendent Dave Clampitt Assessment Clerk/Assistant Secretary Kristel Espinoza and Engineer Technician Steve Hayman.

District Manager Revell noted that Director Don was out of state.

Via telephone conference: District Attorney Brian Iller, Engineering Manager Wayne Sonnichsen, and water-user Will Jones.

Audience members included: water-user Kyle Kilian, U.S.B.R. River Operations Engineer Chris Lynch, U.S.B.R. Yakima Field Manager Chad Stuart, U.S.B.R. Joe Gutierrez and KRD District Manager Urban Eberhart.

The President called the meeting to order at 9:05 A.M. and requested the Board consider the consent agenda as presented:

- a. Minutes of January 9, 2024, Regular Board meeting.
- b. Status of Investments Report – January 31, 2024.
- c. Treasurer’s Report– January 31, 2024.
- d. Claims.

The following claims are approved for payment: Payroll numbers 29682 in the amount of \$327.30. Voucher numbers 69821 – 69827, 69900 – 69912, 69913 – 69943, 69944 – 69965, 69986 – 70047 in the amount of \$1,289,502.03 and electronic payments 01-24, 02-24, 12-2023, 12-23, 123123, 24-02, 01-24, 24-01 in the amount of \$317,529.97 from the period of January 5, 2024, to February 6, 2024.

It was moved by Mr. Willard, seconded by Mr. Winckler, and unanimously passed to approve the consent agenda.

Chad Stuart, Yakima Field Manager – United States Bureau of Reclamation joined the meeting and provided an update to the Board on the water supply conditions in the basin, the status of Kachess Dam & Bumping Dam repairs. Mr. Stuart discussed power pole replacement costs and schedule and that United States Bureau of Reclamation and Bonneville Power Administration had not extended a contract for pole replacement and Mr. Stuart stated he would set up an internal meeting for examining the steps to transfer of title of the canal system and ancillary facilities to Roza. Also discussed was the flow issues and options to help migrating smolt steelhead without affecting the total water supply available.

Chris Lynch, River Operations Engineer- United States Bureau of Reclamation joined the meeting and provided an update on the 2024 water year to date which are below average and discussed with the Board the various effects of snow accumulation and snow melt. Mr. Lynch reported on the current reservoir content and the total precipitation trends and the 2003 drought patterns.

District Manager Revell reported that Reclamation will issue the first water supply forecast for the proratable irrigation districts on March 4th and noted the snowpack is currently 77% of average in

DRAFT

REGULAR MEETING MINUTES

February 6, 2024

the upper Yakima River mainstream basin and 69% average in the Naches River basin and reservoir storage is 60% of average.

Policy Director Sage Park updated the Board on cloud seeding to enhance water supply and discussed the process for cloud seeding, the components related to a feasibility study, the permitting requirements, and environmental impacts. No action was requested from the Board.

District Manager Revell presented the proposed Roza operations and maintenance budget for 2024 and discussed the background information detailed in the written staff report. Following discussion, Mr. Willard moved, seconded by Mr. Sheehan, and unanimously approved the 2024 budget.

Urban Eberhart discussed the elements of conserving and storing water and groundwater rights in the Yakima Basin.

The President declared the Board to be in executive session for an estimated twenty-five minutes beginning at 11:03 A.M. pursuant to:

- a. Executive session pursuant to RCW 42.30.110(1)(i). Potential and pending litigation- State v. Acquavella, Terrace Heights Sewer District, National Pollutant Discharge Elimination System (NPDES) permit appeal.
- b. Executive session pursuant to RCW 42.30.110(2)(a)(iii). To evaluate legal risk of a proposed action.

District Manager Revell returned at 11:28 A.M. and noted the presiding officer had determined that the Board would be in executive session for an additional fifteen minutes.

District Manager Revell returned at 11:43 A.M. and noted the presiding officer had determined that the Board would be in executive session for an additional five minutes.

The President returned the Board to regular session at 11:52 A.M.

Assistant Watermaster Dave presented, and the Board reviewed the Watermaster's monthly report.

District Manager Revell presented, and the Board reviewed the District Manager's monthly report.

Policy Director Sage Park updated the Board on the monthly meetings report.

Engineering Manager Wayne Sonnichsen presented, and the Board reviewed the Engineering Manager's monthly report.

No further business appearing and upon motion duly made, seconded, and unanimously passed, the Board did there upon adjourn at 12:25 P.M. on Tuesday February 6, 2024.

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REGULAR MEETING MINUTES

February 6, 2024

ATTEST:

PRESIDENT

SECRETARY

**ROZA IRRIGATION DISTRICT
STATUS OF INVESTING ACCOUNTS
February 29, 2024**

BANK	\$ AMOUNT	INTEREST EARNED	INTEREST RATE	BALANCE
L.G.I.P.	\$16,574,237.88	66,588.35	5.4140%	\$16,640,826.23
U.S. - MIA INV.	\$265,120.42	24.69	0.14905%	\$265,145.11
U.S. - SAVINGS	\$73,820.16	13.54	0.05%	\$73,833.70
U.S. - CHECKING	\$521,182.54	51.59	0.01%	\$521,234.13
			TOTAL	\$17,501,039.17

**ROZA IRRIGATION DISTRICT
STATUS OF INVESTMENTS
February 29, 2024**

INVESTMENT	RATE	MATURE	EXPENSE	TOTAL
			0.00	0.00
TOTALS:			0.00	0.00

TOTAL OF ALL CASH	17,501,039.17
MINUS RESTRICTED CASH	288,000.00
Reserve/Memo\$	
(Drought)	3,612,229.61
(WSD)	4,236,882.31
TOTAL O & M CASH	9,363,927.25

ROZA IRRIGATION DISTRICT
TREASURER'S FINANCIAL STATEMENT
February 29, 2024

	EXPENSE	CONST.	RESERVE	MEMO	TOTAL
Balance First of Month	14,462,195.07	306,942.85	288,000.00	0.00	15,057,137.92
Collections	3,432,123.43	27.14			3,432,150.57
Miscellaneous	77,588.68				77,588.68
Matured Investments					0.00
Interest	66,939.84				66,939.84
Transfers					0.00
TOTAL	18,038,847.02	306,969.99	288,000.00	0.00	18,633,817.01
LESS:					
Voucher Checks Issued	197,452.62	0.00			197,452.62
Misc. Checks Issued	1,018,502.07			0.00	1,018,502.07
Tier 2 Checks					0.00
NSF Check Returned					0.00
Bank Charge	198.15				198.15
Void Check	-83,375.00				-83,375.00
TOTAL PAID	1,132,777.84	0.00	0.00	0.00	1,132,777.84
Balance End of Month	16,906,069.18	306,969.99	288,000.00	0.00	17,501,039.17

Roza Irrigation District
VENDOR CHECK REGISTER REPORT
 Payables Management

Ranges:	From:	To:	From:	To:
Check Number	First	Last	Check Date	2/1/2024 2/29/2024
Vendor ID	First	Last	Checkbook ID	PRE-PAIDS PRE-PAIDS
Vendor Name	First	Last		

Sorted By: Check Number

* Voided Checks

Check Number	Vendor Check Name	Check Date	Amount
01-24	DEPARTMENT OF REVENUE	2/23/2024	\$656.39
02-24	U.S. BANK	2/14/2024	\$7,259.46
02-24	WASH STATE SUPPORT REGISTRY	2/16/2024	\$489.60
03-24	ROZA PAYROLL PAYABLE	2/2/2024	\$113,453.40
04-24	ROZA PAYROLL PAYABLE	2/2/2024	\$42.08
05-24	ROZA PAYROLL PAYABLE # 29683	2/16/2024	\$113,356.01
24-03	U.S. BANK/E.F.T.P.S.	2/2/2024	\$39,243.56
24-04	U.S. BANK/E.F.T.P.S.	2/16/2024	\$42,429.34
69966	SELAH-MOXEE IRRIGATION DISTRIC	2/1/2024	\$195,000.00
69967	IRON MOUNTAIN	2/1/2024	\$77.75
69968	U.S. CELLULAR	2/1/2024	\$98.47
69969	PACIFIC POWER & LIGHT CO.	2/1/2024	\$697.93
69970	DEPARTMENT OF RETIREMENT	2/2/2024	\$2,533.36
69971	ROZA EMPLOYEE BENEFIT FUND	2/2/2024	\$86.00
69972	BRANDCRAFT MEDIA, LLC	2/6/2024	\$199.00
69973	BENTON CLEAN AIR AGENCY	2/1/2024	\$85.00
70048	YAKIMA BASIN JOINT BOARD	2/6/2024	\$43,000.00
70049	YAKIMA RIVER BASIN COALITION	2/6/2024	\$39,875.00
70050	CORE & MAIN LP	2/7/2024	\$314.45
70051	EDGE CONSTRUCTION SUPPLY	2/7/2024	\$491.83
70052	PACIFIC POWER & LIGHT CO.	2/7/2024	\$860.24
70053	EVERGREEN SAFETY COUNCIL	2/7/2024	\$250.00
70054	CORELOGIC, INC	2/13/2024	\$5.00
70055	NOE GUZMAN/C&C JANITORIAL	2/13/2024	\$273.75
70056	YAKIMA HERALD-REPUBLIC	2/13/2024	\$246.40
70057	YAKIMA WASTE SYSTEMS, INC.	2/13/2024	\$117.68
70058	JODY WILLIAMS	2/13/2024	\$19.83
70059	COLUMBIA ELECTRIC SUPPLY	2/13/2024	\$1,069.48
70060	WASHINGTON STATE WATER RESOURC	2/13/2024	\$28,889.00
70061	QUILL CORPORATION	2/13/2024	\$496.52
70062	CLIFF'S SEPTIC SERVICE	2/13/2024	\$54.00
70063	AG PRO CONSTRUCTION, INC.	2/13/2024	\$735.00
70064	AT&T MOBILITY	2/13/2024	\$154.65
70065	CENTURYLINK	2/13/2024	\$171.45
70066	CASCADE NATURAL GAS CO.	2/13/2024	\$2,918.42
70067	NW LABORERS TRUST FUND	2/13/2024	\$56,660.00
70068	SYMETRA LIFE INSURANCE CO.	2/13/2024	\$510.64
70069	CO-ENERGY	2/14/2024	\$13,638.83
70070	CENTRAL PRE-MIX CONCRETE	2/14/2024	\$60.97
70071	BENTON COUNTY AUDITOR	2/14/2024	\$304.50
70072	DEPARTMENT OF RETIREMENT	2/15/2024	\$59,857.04
70073	SHANNON & WILSON, INC.	2/15/2024	\$6,433.50
70074	RETTIG FORGETTE ILLER BOWERS,	2/15/2024	\$10,614.76
70075	DEPARTMENT OF RETIREMENT	2/16/2024	\$2,544.95
70076	ROZA EMPLOYEE BENEFIT FUND	2/16/2024	\$86.00
70077	AFLAC	2/16/2024	\$554.06
70078	LABORER'S LOCAL UNION 348	2/16/2024	\$2,280.00
70079	PACIFIC POWER & LIGHT CO.	2/22/2024	\$13.70
70080	YAKIMA COUNTY G.I.S.	2/22/2024	\$231.74
70081	CENTURYLINK	2/22/2024	\$74.42
70082	CRYSTAL SPRINGS	2/22/2024	\$65.93
70083	NOE GUZMAN/C&C JANITORIAL	2/22/2024	\$385.00
70084	WALTER LARRICK	2/22/2024	\$1,450.00
70085	CASCADIA LAW GROUP	2/22/2024	\$10,097.50
70086	BUD CLARY	2/22/2024	\$136,765.35
70087	U.S. CELLULAR	2/22/2024	\$6,146.87

* Voided Checks

Check Number	Vendor ID	Vendor Check Name	Check Date	Checkbook ID	Audit Trail Code	Amount
70088		CO-ENERGY	2/22/2024			\$16,052.16
70089		NORTHWEST IRRIGATION OPERATORS	2/23/2024			\$675.00
70090		WALTER LARRICK	2/23/2024			\$500.00
70091		IREPAIR	2/26/2024			\$48.69
70092		BUD CLARY	2/28/2024			\$45,588.45
70093		YSI INCORPORATED, A XYLEM BRAN	2/28/2024			\$6,850.00
70094		KRISTEL ESPINOZA	2/29/2024			\$466.36
70095		KRISTEL ESPINOZA	2/29/2024			\$128.31
70096		RH2 ENGINEERING	2/29/2024			\$2,546.67
70097		PACIFIC POWER & LIGHT CO.	2/29/2024			\$731.02
Total Checks: 66						Total Amount of Checks: \$1,018,012.47

Item #2



To: Board of Directors

From: Scott Revell, District Manager

Date: March 5, 2024

Re: 2024 Water Supply

2024 Water Supply Update

- ✓ Water storage:

<u>Reservoir storage status on March 1, 2024</u>		<u>capacity (Ac. Ft)</u>
Keechelus	39%	157,800
Kachess	29%	239,000
Cle Elum	31%	436,900
Bumping	74%	33,960
Rimrock	56%	198,000
Total	39% of capacity	1,065,400

- ✓ Water in storage is 64% of average. Cle Elum Reservoir will need to see about 120% of average precipitation in order to completely refill.
- ✓ Precipitation for the water year is 89% of average to date. The 2024 water year began on October 1, 2023.
- ✓ Snowpack is 83% of average in the upper Yakima River mainstem basin and 77% of average in the Naches River basin, which represents a modest improvement.
- ✓ There are positive weather forecasts for meaningful snow accumulation into early-April, which could improve water supply.

Item #3



To: Board of Directors

From: Scott Revell, District Manager
Sage Park, Policy Director

Date: March 5, 2024

Re: 2024 Drought Preparation Update

Attachments

1. Draft 50% Water Supply Operating Plan
2. Drought Matrix
3. Summary of Yakima Basin Droughts
4. 2021 Crop Census

Background

Staff are working on several issues simultaneously. USBR's initial water supply forecast had not been issued at the time this report was prepared, however given the low levels in the reservoirs and low snowpack staff has drafted operating plans as a contingency. The operating plans can be modified as the water supply picture evolves.

- Draft 50% operating plan-Staff has prepared an operating plan for a 50% water supply in 2024 as follows:
 - ✓ Assume storage control and prorationing begin on May 1 (a date which could vary by several weeks in either direction);
 - ✓ Run the USBR allocation to September 22nd;
 - ✓ Shut the system down for ten days upon storage control;
 - ✓ Assume minimum flows (10 pts which = 1.8 gpm/ac) through May after re-starting the system ;
 - ✓ A 31-day peak period of July 15 to August 16 at (14 pts which = 4.3 gpm/ac). The dates for the peak can be adjusted to the weather at the time;
 - ✓ Run the system from approximately September 23rd to September 30th using the SMID water;
 - ✓ If an October allocation occurs the season can be extended from September 30th at minimum flows until the supply is exhausted;

- ✓ The start date could be shifted from March 18 to March 16 to allow growers to fill ponds. Moderate overtime will be incurred;
- ✓ Extend the pooling deadline beyond June 1st. A one-page pooling fact sheet is in production;
- ✓ The Roza pump backs will be activated upon storage control.

Options for Modifying the 50% Supply Operating Plan:

- ✓ The peak can be planned to be longer or shorter or with higher flows, but it will come at the expense of other periods or a longer shutdown;
 - ✓ The season be run a few days into October with a longer shutdown or reduced flows;
 - ✓ The shut down could be longer;
 - ✓ Acquiring additional water;
 - ✓ A later storage control date could affect the plan (positively or negatively).
- Drought Management Authorization:
In 2018, the Board authorized the Manager to take the following steps when the forecast water supply is below 70%, including but not limited to:
 - ✓ Restricting deliveries;
 - ✓ Extending the pooling deadline to June 1st for transfers between Roza growers;
 - ✓ Activating the Roza pump backs;
 - ✓ Implementing a system shut down immediately if storage control occurs before May 15;
 - ✓ Advocating for issuance of emergency drought well authorizations.
 - Water supply management and supplementation:
 - ✓ Leases & purchases (SMID & others)
 - An option for 6,500 AF from SMID has been executed and is being processed by Ecology. Review the Water Transfer Work Group will occur on March 11th
 - Staff have been discussing lease mechanics with SVID staff if authorized
 - Other sources: additional leases could allow for adjustments to peak flows, additional season length or reduce a shutdown period.
 - ✓ Cloud seeding research
 - ✓ Emergency drought wells- New drought well authorizations will be available if water supply is less than 75% and Ecology will cost share 25% of

mitigation costs to get up to 75% supply. They can be used to get to 100% if the usage is fully mitigated by the grower. Mitigation costs are \$300/AF and will be expensive compared to prior years.

According to Ecology's hydro-geologists drought wells in the Wanapum aquifer will need to be re-drilled into the shallower Ellensburg formation. Wells in the Saddle Mountain formation are also almost certainly going to need to be re-drilled in order to be used, but it is location specific.

Ecology has asked Roza to be the conduit for real time telemetry meter issuance and installation on a fully reimbursable basis which will be required for new drought wells.

- KRD/Roza meeting(s)-Next meeting date will occur on March 18th.
- Environmental Issues:
 - ✓ Drought year pulse/flushing flows-this issue has consumed considerable time in recent weeks. Staff has been working with state/federal/tribal entities on emergency plans for the 2024 season and various sources of water in order to minimize or prevent impacts to proratable supply.
 - ✓ Bull trout reservoir passage into spawning streams.
 - ✓ Bull trout rescue/rearing.
 - ✓ Upper Yakima streamflow supplementation (Roza water can be routed through the KRD canal and into ten creeks in Kittitas County then to the Yakima River Main stem above Roza dam).
- Coordination with Ecology staff in Yakima and Olympia.
 - ✓ Caroline Mellor is Ecology's new Drought Coordinator. She will tour Roza and the basin in late April.
 - ✓ Staff met with Ecology's Water Resources team in Yakima on January 8th to work out the remaining details on emergency drought wells and review of transfers in case leases occur in 2024.
- Coordination with Legislators-Staff has been in communication with legislators to inform them of what we know so far about water supply, financial assistance and the steps we are (and have been taking) to manage the supply if there is a drought in 2024.

- Water User Communications
 - ✓ A series of 4 to 6 emails over several weeks to water users describing what we know, what we have been doing, what the priorities are and what water users can do to be ready;
 - ✓ The 2024 Assessment letter focused on potential water supply shortages and included the drought matrix;
 - ✓ Communication with commodity groups;
 - Presentation to the Grape Society in November focused on drought management
 - ✓ 2024 water supply page has been added to the Roza website which we have been directing water users, agency staff and media.
 - ✓ The ditchriders will be briefed on the water supply and the Districts operating plans so that they can speak knowledgably to water users during the season.

- Drought Fund Status:

The Drought Fund stood at \$4,049,213.59 as of 10/31/23. Since that date, funds have been appropriated as follows:

- ✓ \$195,000 to SMID for the purchase option (paid on 2/1/24)
- ✓ \$1,755,000 if the SMID option is exercised
- ✓ \$315,000 Wasteway 5 Re-regulation reservoir repairs-current estimate (as a drought management tool)
- ✓ \$250,000 Cloud seeding feasibility
\$2,515,000 previously appropriated which will leave \$1,534,213

Roza incurred roughly \$200,000 in expenses in 2015 to operate the pump backs, shutdown/restart overtime, concrete panel repairs, etc.

Roza's capital budget request has not been approved. Staff will be working with Ecology to access state drought emergency funds to the maximum extent possible.

Daily Proration - Includes purchase of 6,500 ac-ft from SMID

Percent Proration	May 1 Storage Control												Season Total	
	May	May	June	June	July	July	August	August	September	September	October			
Proration Volume (ac-ft)	163,006													
Calendar days of Season	31	31	30	30	31	31	31	31	30	30	0	153		
Days Running	1	16	15	15	15	16	15	16	15	15	0	139		
District Proration (Points/40 acres)	10	10	14	14	15	18	16	16	14	10	10			
District Proration (gpm/acre)	1.8	1.8	3.0	3.0	3.3	4.3	3.6	3.6	3.0	1.8	1.8			
Delivered to Farms for no. of days running (acre-ft/acre)	0.01	0.13	0.20	0.20	0.22	0.31	0.24	0.26	0.20	0.12	0.00			
Delivered to Farms (acre-ft)	569	9,107	14,143	14,143	15,686	21,994	17,280	18,432	14,143	8,538	0	134,036		
System Efficiency (with seepage and evap)	70%	70%	85%	85%	85%	85%	85%	85%	85%	70%	70%			
Diverted to District (ac-ft)	813	13,011	16,639	16,639	18,454	25,875	20,329	21,685	16,639	12,197	0	162,282		
Canal Flow at MP 11.0 (cfs)	411	411	560	560	621	817	684	684	560	411	411			
Flow to 40 acre parcel (gpm)	72	72	119	119	132	173	145	145	119	72	72			
Flow to 40 acre parcel (cfs)	0.16	0.16	0.26	0.26	0.29	0.39	0.32	0.32	0.26	0.16	0.16			

Notes: 10-day shutdown in May
 Sept 23 - 30 Entirely on SMID water
 An October allocation would extend the season.



Roza Drought Response Measures Matrix

Water Supply	Delivery Restrictions*	Shut Down(s)	Roza Pump backs	Leases	End season before Sept. 30	Notes
80%	Yes	No	No	No	No	Oct 20 +/- is typ. in full yrs. Restrictions on some days
75%	Yes	No	Yes	No	Possibly	Season ends early
70%	Yes	No	Yes	Possibly	Possibly	Season ends early Leases optional-varies
65%	Yes	No	Yes	Possibly	varies	Leases optional-varies
60%	Yes	Possibly	Yes	Possibly	varies	Leases optional-varies
55%	Yes	Probably	Yes	Yes	varies	8,500 AF from leases & PB
50%	Yes	Yes (15+ days)	Yes	Yes	varies	8,500 AF from leases & PB
45%	Yes	Yes -2	Yes	Yes	Oct 2	8,500 AF from leases & PB
40%	Yes	Yes -2	Yes	Yes	Sept 27	8,500 AF from leases & PB
35%	Yes	Yes -2	Yes	Yes	Sept 19	8,500 AF from leases & PB
30%	Yes	Yes -2	Yes	Yes	Sept 3	
25%	Yes	Yes -2	Yes	Yes	August 11	
20%	Yes	Yes -2	Yes	Yes	August	
15%	Yes	Yes -2	Yes	Yes	August	
10%	Yes	Yes -2	Yes	Yes	Yes	
5%	Yes	Yes -2	Yes	Yes	Yes	

Planning Assumptions:

1. The proration date in 40% supply scenarios and below is assumed to April 1st . The storage control date greatly influences the measures above. April 15th is the earliest on record.
2. Roza's March water right is senior and runs from March 16th to March 31st & allows diversion of 18 KAF.
3. Variables-Water supply forecasts have uncertainties and will change monthly until August & can improve or worsen. Weather variability in June can greatly impact demand and mgmt. of supply. Canal efficiency levels will fluctuate (higher inefficiencies as flows in canal drop.) The amount of moisture in the ground going into the irrigation season. Crops can be 10 -15 days early or late in any year which affects water demand. Weather events during the season can help or harm the management of water (e.g. heat dome or midseason cold fronts).
4. The typical irrigation season is 203 days (April 1 to October 20). Season end dates are approximated.



Yakima Basin Droughts

Year	March supply forecast	Overall season water supply	Pro-ration start date	Storage control date	Roza season end date	Notes
1941	N/A	44%	N/A	June 8	Oct. 15	Roza first blocks came on line in May 1941. Pre-1945 consent decree & prior to TWSA. Diversion avg. 50 cfs.
1973	N/A	80%		May 1	Sept. 20	Very dry season with major rain in September which skewed the overall season upward
1977	6%	70%	April 1	April 1	Sept. 30	Initial forecast later raised to 15% to include return flow
1979	None	100%		April 20	Aug. 29	No March estimate. 46% in Aug. due to water stranded in Cle Elum due to gate malfunction
1992	100%	58%	May 16	May 16	Sept. 16	March is an estimate in '92-'94. April estimated at 86%
1993	48-60%	71%	June 1	June 13	Oct. 4	March is an estimate. April estimated at 52%
1994	58-68%	37%	May 1	June 1	Sept. 8	April estimated at 53%. 23 day shutdown
2001	38%	37%	May 1	June 1	Sept. 24	29%-30% forecast supply in May and June. Transfers added 5%. 21 day shutdown
2005	34%	42%	April 6	May 25	Oct. 1	34% through May. 38% in June. Transfers added 8%. 23 day shutdown
2015	73%	47%	April 15	April 15	Oct. 10	Full reservoirs and very little snow. Low of 44%. Transfers added 1.2%. 21 day shutdown.

- ✓ Many water budgeting and drought management decisions are made by Roza in March/April/May based on the data available at the time which affect the duration of the irrigation season.
- ✓ Storage control is the date at which control of the river changes from natural flow to releases of stored water from the reservoirs by USBR to fulfil their contract obligations. Storage control typically occurs in late June/early July in full supply years. Pre-1973 storage control dates were estimated by USBR using the modern methodology.
- ✓ Pro-rationing can occur before storage control when diversion demands affect the reservoirs (e.g. the reservoirs are filling but filling less than they would have with the incidental in-stream flow releases). When USBR declares pro-rationing the amounts of water in the district buckets for the year is set.
- ✓ Estimated supply during droughts in 1926 (42%), 1930 (73%) & 1931 (55%) on the estimated storage control date. Cle Elum reservoir & the Roza project were not yet built. Each predates the TWSA system established in the Consent Decree in 1945. Overall season supply is through September.



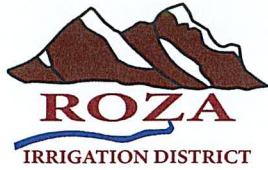
Roza Crop Census

Irrigation Method	Acres 2015	Acres 2021*
Rill	1592.50	646.30
Drip	19980.00	26772.12
Sprinklers-Portable	8206.26	8187.58
Sprinklers-Permanent	41236.81	33360.09
No System	1457.64	3550.92
Total Assessed Acres	72473.21	72517.01
Crops		
Tree Fruit		
Pears	1288.90	1362.2
Soft Fruit	869.65	425.5
Cherries	4179.70	4138.9
Apples	20076.95	19893.4
Sub Total Tree Fruit	26415.20	25820.0
Asparagus	135.30	158.5
Grapes	7179.30	4861.9
Wine Grapes	11006.70	10168.6
Hops	6822.70	9318.7
Forage	4470.70	3152.05
Small Grains	345.05	150.6
Blue Berries	1190.50	1598.5
Row Crops	399.20	149.6
Corn (all types)	3439.20	6369.1
Drought Fallow	2509.70	
Transition Fallow	N/A	1276.3
Fallow	2362.59	2851.44
Mint	416.20	263.5
Yards (lawns)	1325.97	2144.22
Pasture	3513.20	2243.95
Other(Processing Facilities)	941.70	869.75
Total Crops	72473.21	72517.01

Any ground double cropped denoted by first planted crop

* Numbers Compiled by Ditch Rider Beat 07/2021

Item #4



To: Board of Directors

From: Scott Revell, District Manager and Sage Park, Policy Director

Date: March 5, 2024

Re: Selah-Moxee Irrigation District Water Mitigation Purchase

Attachment

1. WTWG Project Form

Background

The mitigation certificate is for up to 6,500-acre feet of senior water (pre-May 10, 1905) for the 2024 irrigation season:

- \$300 per acre foot with a total cost of \$1,950,000 (which equates to \$26.89/acre across Roza);
- \$195,000 non-refundable option fee, which is 10% of the mitigation cost has been paid to SMID.
- The option must be exercised by April 1, 2024.

The Roza system requires diversions of approximately 800-acre feet per day (400 CFS) at the lowest flows that the canals can physically be operated at. In a drought year, 6,500-acre feet will add just over eight days to the irrigation season. The mitigation costs can be paid from Roza's drought fund, which has a balance of \$4.1M before the 2023 repairs to the Wasteway 5 Re-regulation Reservoir.

Staff has submitted a Water Transfer Working Group Form to the Department of Ecology which will be reviewed on March 11th by the Water Transfer Working Group. The process involves moving the point of diversion upstream, which can be complicated due to fish issues and other diversions, like the Town Ditch, in between the points of withdrawal which could be impacted. Ecology plans on documenting the use in a letter that adds the mitigated water to Roza's existing prorated water right.

The Board could choose to exercise the option based on the March 4th water forecast, which was not available at the time this report was prepared.

More information on how the SMID water can be used during the season is included in the 2024 drought management and protocols staff report.

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Emergency drought use mitigated by CS4-84594-J (SMID Water Bank)		
APPLICANT NAME: Roza Irrigation District	CONTACT NAME Sage Park	TELEPHONE NO. 509-840-1584
WATER RIGHT HOLDER'S NAME (if different)		EMAIL spark@roza.org

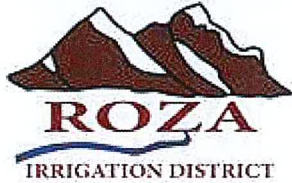
DATE OF APPLICATION	PRIORITY DATE
Mitigation Contract executed on January 4, 2024	January 26, 1887 (SMID's mitigation priority date)

WATER SOURCE: Yakima River, Roza Irrigation District's Point of Diversion	CROP: Many different crops are grown within the district, including but not limited to – orchards, blueberries, row crops, hay, triticale, corn, grapes, hops
INSTANTANEOUS QUANTITY: 1,193 cfs maximum diversion rate dependent on target flows	ANNUAL QUANTITY: Up to 6,500 additional acre-feet based on mitigation contract
PERIOD OF USE: April 1 through October 31	
PLACE OF USE: Those irrigable lands within the boundaries of the Roza Irrigation District.	PURPOSE OF USE: Irrigation for 72,600 acres
IRRIGATION METHOD: There are multiple irrigation methods on the Roza Irrigation District, including but not limited to, drip, overhead, circle. This water will be conveyed through the Roza Canal System.	

CONSUMPTIVE USE CALCULATION: N/A: The mitigation water is all consumptive. Roza is diverting that quantity from the Yakima River and adding to the canal delivery system. A consumptive use calculation isn't needed.
--

NARRATIVE DESCRIPTION OF PROJECT: <p>Roza Irrigation District purchased 6,500 acre-feet of Selah-Moxee Irrigation Districts senior water right for the 2024 irrigation season. The water will be diverted at the Roza Canal intake and will provide several additional days of irrigation to Roza growers in the event of a drought.</p> <p>This is an upstream move, but minimum target flows will be maintained. The Roza Dam diversion has better fish screens than the existing diversion.</p> <p>The timing for the use of the 6,500 acre-feet is uncertain. The severity of drought will dictate our operational plans. Likely the water will be used towards the end of the season and Roza will operate at the bare minimum flows to get the maximum number of days possible. It is estimated this much water would provide around eight additional days of water to our growers.</p> <p>Roza has worked with Ecology on how to process this mitigated additional use. Ecology plans to document this use in a letter that adds the mitigated water to Roza's existing prorated water right. (Basically, Roza is mitigating out of priority use).</p>
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Item #5



To: Board of Directors
From: Dave Rollinger, Watermaster *DR.*
Date: March 5, 2024
Re: Recent Past and Future Maintenance Work

Summary for February

Work continues on the Pump 14 ECS project and District crews have started repairs on several smaller maintenance tasks that must be completed before water.

Water Delivery

- Ditchriders have started closing their individual beat in preparation for water.

Staffing

- Nathan Murray one of our heavy equipment operators turned in his resignation and his last day was 2/19/2024.

Pump 14 ECS Project

- All of the pipe has been installed and the final hookups have been made for the Pump 14 ECS project, crews will continue to form and pour pads, install bollard posts, haul rock, and will start building the operation and maintenance roads.

Distribution System Maintenance

- Crews finished installing 300' of 36" double walled HDPE pipe on Pump 2 High Right and have also installed 600' of 12" PVC pipe on Pump 2 Low left.
- Ditchriders have burned all the drains and have started burning open laterals, under shot drains, and the Main Canal.
- Crews have finished cleaning all open pump laterals with 314 excavators and will start cleaning drains and smaller open laterals with the V-ditching bucket.
- Crews have finished the Main Canal embankment over-dig at MP 72.9.
- Trouble shooters have finished installing all 6005 jobs, (6005 jobs are deliveries that have been added or moved at the land owners request and are paid by the land owner).
- Crews have finished digging all Main Canal turnouts and pump plant forebays that were scheduled and the turnout screens have been re-installed.

- Trouble shooters have installed 3 water fill stations at Pump Plants 4, 8, and 16.
- Crews have removed 3 of the remaining 18 old Main Canal turnouts at MP 58.7, 73.0, and 74.0. crews will continue removing 3 to 5 structures a year until complete.
- Crews have started the Main Canal maintenance cleanout at MP 84.7 to MP 94.8 with the District's Caterpillar 330 excavator and will continue until water is diverted into the Main Canal.
- Pump mechanics continue to install rotating elements, and rewind motors as they arrive. Automation at P10 plant is wrapping up. Calibration of Main Canal check structure equipment, meggering the motors, and switch gear maintenance will continue until water is turned in.
- The new Rhodamine sensors (Sondes) have been installed but need to be programmed.

Equipment

- The 4-2024 Chevrolet 1500 regular cab 2wd ditchrider pickups from Bud Clary Ford of Longview have arrived.
- We are still waiting on the 2024 Ford F350 4wd pump shop service truck from Bud Clary.

Projected for March

- Continue the Main Canal maintenance clean out.
- Burn windblown weeds from open canals and drains.
- Priming the Main Canal.
- Prime gravity and pump laterals.
- Continue road construction and graveling, install bollard posts, and gravel around flow meter pads on the Pump 14 ECS project.
- Finish Pump 10 PVC hookup and backfill and compact around the pipe.

Item #6



To: Board of Directors
From: Scott Revell, District Manager
Date: March 5, 2024
Re: District Manager's Monthly Update

Miscellaneous Items

1. The I-82 culvert collapse absorbed a significant amount of time in February. Temporary repairs have been completed by WSDOT. The long-term repairs will likely extend into the Fall. Please refer grower inquiries to me. We have had update calls with USBR and WSDOT every few days throughout on permitting, public information dissemination, irrigation operations and WSDOT's design process.
2. David Bowen has been hired as the new Central Regional Director at Ecology and begins work on February 16th.
3. Longtime Family Farm Alliance President Pat O'Toole passed away on February 24th following a stroke. There will be a memorial at the Ladder Ranch in Wyoming in July.
4. Longtime Family Farm Alliance Executive Director Dan Keppen will be retiring in 2025.
5. A contract with HLA Surveying has been executed for surveying work at Cle Elum Reservoir in conjunction with the pool raise project. The contact is capped at \$8,000 and Roza will be reimbursed by USBR under an existing 1950s contract.

February Meetings Report

- ✓ Tri-State Meeting in Portland (February 2)
- ✓ River Operations meeting (February 8th)
- ✓ Zirkle Fruit drought protocol review (February 8th)
- ✓ Cloud Seeding Feasibility (February 13th)

- ✓ WSWRA (February 12th)
- ✓ 2024 SVID Lease Protocols (February 13th)
- ✓ Yakima Basin Integrated Plan Executive Committee, and Implementation Committee meeting (February 14th)
- ✓ Cle Elum Pool Raise Technical Team (February 17th)
- ✓ Yakima Basin Joint Board (February 18th)
- ✓ Family Farm Alliance annual meeting in Reno (February 21st-23rd)
- ✓ 2024-25 Winter work plan preparation (February 26th)
- ✓ Northwest Irrigation Operators in Boise (February 27th -29th)

Item #7



To: Roza Board Members

From: Sage Park, Policy Director

Date: March 5, 2024

RE: Policy Director Report

- Continued to work on cloud seeding research and how to get a program started in the Yakima Basin. Had a great meeting with NSF National Center for Atmospheric Research. They've submitted a draft Statement of Work for "Cloud Seeding Feasibility and Program Design over the Yakima River Basin." We're reviewing and will discuss it at the next Board Meeting.
- Water Transfer Working Group Form – Worked with Ecology and others in the basin to complete and submit form related to the 6,500 acre-feet of mitigation water from Selah-Moxee Irrigation District.
- Telemeter program for emergency drought wells – working on process and grant with Ecology.
- Support Scott on water rights management, 2024 water supply management and Bi-Op flows.
- Met with Kelsey Green to discuss the Yakima Basin Joint Board's tours – looking at a drought tour in 2024 – probably in September to highlight the impacts of drought on Roza and WIP.
- Working on setting up a tour with new WA State Department of Ecology staff to show them Roza and any other districts they would like to tour.
- I-82 support as needed.

Item #8



To: Board of Directors

From: Wayne Sonnichsen, Engineering Manager

Date: March 5, 2024

Re: Engineering Manager's Report

WS

Miscellaneous items of note:

- The bid packet for the Pump 3 Low ECS project is being finalized this week with the intent to advertise during the second and third week of March. The bid results will be presented at the April Board meeting.
- The District sent out a Request for Qualifications from firms listed in the professional services roster for general archeology and historical preservation services with a due date of March 1st with the expectation of having ranked the firms and entered in an agreement for services by March 8th with firm scoring highest in the ranking.

Immediate services needed include a cultural resources assessment for the Pump 3 lateral canal for the Pump 3 Low ECS project. A cultural resources assessment will be needed in the near future for the Pump 13 lateral canal ECS project and the Wasteway 6 reservoir enlargement project once an Area of Potential effect has been established. The work for the two ECS projects is estimated to cost \$30k for each project and is included in the ECS budgets.

- The District advertised a request for qualifications for engineering services related to the Wasteway 6 Reregulation Reservoir enlargement and Main Canal piping. Statements of Qualifications (SOQ) are due March 22nd. A mandatory site visit was held on February 27th.

Three firms are intending to submit Statements of Qualifications. Staff is planning conduct interviews with prospective firms within 30 days the due date for submission of SOQ's. A selection committee needs to be established.