

## WATER REPORT – September 19, 2017

With rains received last week combined with forecasted rains this week, the 1905-10-07 priority is projected to be at least partially filled for all river reaches upstream from Milner Dam for the next few days.

There's been questions concerning leased storage, last-to-fill rules, and the Winter Water Savings 150-day shut off requirement, particularly from spaceholders considering leasing some of their remaining storage carryover for fall recharge. Here are a few things to keep in mind:

- Rule 7.2 of the Rental Pool Procedures says, "*There are no computed impacts resulting from the previous year's rentals or leases for a specific reservoir when that reservoir's storage is released as a result of flood-control operations and water is spilled past Milner in the current year.*" There hasn't been any storage spilled past Milner Dam yet resulting from flood control. Spilling water past Milner during the 2018 season that results from flood control seems imminent but isn't "guaranteed" until it occurs.
- The attached summary estimates there will be 1.4 million ac-ft of empty space towards the end of this 2017 season. The seven worst runoff years in the past 25 years resulted in 1.9 to 2.4 million ac-ft of new reservoir contents. A runoff worse than any of those poor runoff years would need to occur this coming fall/winter/spring to result in the reservoir system failing to fill for lack of runoff. It's especially unlikely to occur this year because the system natural flow on September 15, 2017 was 12,400 cfs compared to 7,000 to 9,000 cfs on September 15<sup>th</sup> for the other listed years.
- If spaceholders fail to receive a 100% storage fill in 2018, it will be more likely due to space evacuated for flood control and spilled past Milner that fails to completely refill.....in which case there wouldn't be any *last-to-fill* requirement in 2018 for space used to supply 2017 rental pool leases.
- 2017 rental pool leases and rentals can be approved and used up until December 1, 2017.
- The IWRB 1980-priority recharge water rights will come into priority below Minidoka Dam after irrigation demand subsides below Minidoka, probably sometime in October.
- All recharge that occurs this fall upstream from Minidoka Dam must be supplied from storage rented or leased through the rental pool. Natural flow recharge rights above Minidoka will not come into priority before the Lake Walcott and American Falls Reservoir water rights have accrued 100% of their volumes.
- The USBR Winter Water Savings 150-day shut off contract provisions are still in effect. There currently is not a variance in place to waive the 150-day shut off. It's uncertain whether or not a variance will be issued by the USBR in the future.

# ESTIMATED 2017 CARRYOVER WITH VOLUME NEEDED TO FILL RESERVOIR SYSTEM IN 2018

Current reservoir system contents on 9/15/17:	2.9 million ac-ft
Estimated storage usage next 2 months:	0.1 million ac-ft
Estimated 2017 carryover (minimum contents):	2.8 million ac-ft
<b>Estimated empty space at end of 2017 season:</b>	<b>1.4 million ac-ft *</b>

\* Note: This value was incorrectly listed as 2.4 million ac-ft when originally presented at the 9/15/2017 River & Reservoir Operations Subcommittee Meeting.

**POOR RUNOFF YEARS: RESERVOIR SYSTEM NEW FILL (change in contents from minimum to maximum)**

	September 15 <sup>th</sup> total natural flow
1992: 1.9 million ac-ft (10/16/91 – 4/11/92)	7800 cfs
2001: 2.1 million ac-ft (10/13/00 – 4/26/01)	7200 cfs
2007: 2.1 million ac-ft (10/5/06 – 5/5/07)	7900 cfs
2013: 2.1 million ac-ft (10/16/12 – 4/24/13)	8100 cfs
2003: 2.2 million ac-ft (10/12/02 – 6/6/03)	7900 cfs
2002: 2.3 million ac-ft (10/10/01 – 6/12/02)	9100 cfs
2004: 2.4 million ac-ft (10/11/03 – 4/21/04)	8400 cfs
2018: ?	12400 cfs on 9/15/2017

**CONCLUSIONS :**

1. If very dry conditions occur throughout the upcoming fall, winter, and spring, there is a small risk of the reservoir system not completely filling in 2018.
2. If near-average or above-average precipitation occurs over the next 8 months, the reservoir system will completely fill unless runoff is insufficient to refill reservoir space after it has been evacuated for flood control and spilled past Milner.

WATER DISTRICT 01 - WEEKLY WATER REPORT 09/19/2017

Reach Name	DIVERSION DATA PRIORITY DATES	Projected Priority Dates For Actual Date 09/20/2017
SNAKE ABV LORENZO	2/6/1895	10/7/1905
HENRYS FORK	2/6/1895	10/7/1905
FALLS RIVER	2/6/1895	10/7/1905
TETON RIVER	2/6/1895	10/7/1905
TETON LOWER N. FORK	2/6/1895	10/7/1905
SNAKE ABV BLCKFOOT	2/6/1895	10/7/1905
SNAKE BLW BLCKFOOT	3/26/1903	10/7/1905

Diversion Data

Actual Date	Site	Diversion	CFS DIVN	CFS STOR	AF USED	AF RMNG
Sep 14	13033010	PALISADES CANAL	28	0	69	1025
Sep 14	13037505	ANDERSON CANAL (1A)	239	0	9198	42077
Sep 14	13037975	EAGLE ROCK CAN (1) (1B)	510	0	0	0
Sep 14	13037980	FARMERS FRIEND	239	0	48	11796
Sep 14	13037985	ENTERPRISE CANAL	119	119	8569	30652
Sep 14	13038025	BUTLER ISLAND	28	0	0	246
Sep 14	13038030	ROSS AND RAND	0	0	51	110
Sep 14	13038055	HARRISON CANAL	270	0	2055	44582
Sep 14	13038085	RUDY CANAL	227	100	14408	9841
Sep 14	13038090	LOWDER SLOUGH CANAL	47	0	33	2642
Sep 14	13038098	KITE & NORD CANAL	8	1	191	109
Sep 14	13038110	BURGESS CANAL * (4A)	645	2	8356	42278
Sep 14	13038115	CLARK & EDWARDS * (5A)	67	0	162	671
Sep 14	13038145	CROFT DITCH	0	0	69	207
Sep 14	13038150	EAST LABELLE CANAL	84	0	57	820
Sep 14	13038180	RIGBY CANAL	120	0	0	6276
Sep 14	13038204	DILTS LATERAL (3) (6B)	0	0	0	0
Sep 14	13038205	DILTS CANAL (6A)	13	0	189	2356
Sep 14	13038210	ISLAND CANAL (30A)	121	0	0	4632
Sep 14	13038225	W. LABELLE & L.I. * (7A)	321	0	0	6825
Sep 14	13038305	PARKS & LEWISVILLE	300	0	1	5420
Sep 14	13038315	NORTH RIGBY CANAL	50	0	159	1023
Sep 14	13038340	WHITE DITCH (4) (7B)	7	0	0	0
Sep 14	13038360	BRAMWELL CANAL (8A)	0	0	0	0
Sep 14	13038362	ELLIS CANAL (5) (30B)	0	0	0	0
Sep 14	13038388	MATTSON-CRAIG CANAL	19	11	592	679
Sep 14	13038392	SUNNYDELL CANAL (29A)	71	0	966	9647
Sep 14	13038426	LENROOT CANAL	113	53	4416	12237
Sep 14	13038431	REID CANAL	125	0	798	6228
Sep 14	13038434	TEXAS & LIBERTY	119	0	0	4829
Sep 14	13038435	BANNOCK JIM SLOUGH	4	0	0	1016
Sep 14	13038436	HILL PETTINGER	8	5	360	517
Sep 14	13038437	NELSON COREY CANAL	1	0	0	349
Sep 13	13046310	DEWEY CANAL	0	0	30	550
Sep 13	13047305	YELLOWSTONE CANAL	2	2	351	3147
Sep 13	13047475	MARYSVILLE CANAL * (9A)	42	42	2726	17440
Sep 13	13047575	FARMERS OWN CANAL (11A)	34	25	1414	6476
Sep 13	13047681	CONANT CK CANAL (12A)	1	1	370	1902
Sep 13	13048475	ENTERPRISE CANAL	58	58	7566	18196
Sep 13	13048560	FALL RIVER CANAL (16A)	114	0	0	2101
Sep 13	13048705	CHESTER CANAL	18	12	396	919
Sep 13	13049010	SILKEY CANAL	6	0	0	160
Sep 13	13049015	CURR CANAL	28	0	0	39
Sep 13	13049550	LAST CHANGE CANAL	49	49	2923	8777
Sep 13	13049560	CROSSCUT TO TETN	31	12	2486	-2486
Sep 13	13049561	XCUT FALL R (6) (16B)	106	0	0	0
Sep 13	13049705	FARMERS FRIEND	71	38	3039	1984
Sep 13	13049710	TWIN GROVES CANAL	76	0	93	4766
Sep 13	13049725	ST ANTHY UNION (17A)	281	0	0	3631
Sep 13	13049805	SALEM UNION CANAL	140	0	117	7375
Sep 13	13050525	EGIN CANAL	241	0	0	2266
Sep 13	13050530	ST ANTHY UNION (7) (17B)	60	0	0	0
Sep 13	13050535	INDEPENDENT CANAL	62	62	5868	2991
Sep 13	13050545	CONSOLIDATED FRMRS	193	0	650	4012
Sep 13	13054515	CANYON CREEK CANAL	0	0	0	1567
Sep 13	13055030	WILFORD CANAL	121	43	4897	-1250
Sep 13	13055040	TETON IRRIGATION (18A)	28	0	0	1430

FOOTNOTES: (#) STORAGE DIVERSION COMBINED WITH (#A)

TOTAL DIVERSION AND STORAGE USE DOES NOT INCLUDE ADDITIONAL PUMP DIVERSIONS (NOT SHOWN) ADDED AT THE END OF THE YEAR

WATER DISTRICT 01 - WEEKLY WATER REPORT 09/19/2017

Actual Date	Site	Diversion	CFS DIVN	CFS STOR	AF USED	AF RMNG
Sep 13	13055050	PIONEER CANAL	2	0	46	96
Sep 13	13055060	STEWART CANAL	2	0	0	462
Sep 13	13055205	PINCOCK-BYINGTON	7	0	0	298
Sep 13	13055210	TETON ISLND FEEDER	215	0	0	9001
Sep 13	13055245	SALEM UNION B	0	0	196	-196
Sep 13	13055275	ROXANA CANAL	10	0	0	837
Sep 13	13055280	ISLAND WARD CANAL	0	0	432	2737
Sep 13	13055295	SAUREY CANAL	10	0	0	159
Sep 13	13055315	WOODMANSEE-JOHNSON (19A)	0	0	0	1232
Sep 13	13055323	CITY OF REXBURG	11	0	13	-13
Sep 13	13055334	REXBURG IRRIGATION	98	0	20	4257
Sep 14	13057025	BUTTE & MARKET * (20A)	171	0	0	50565
Sep 14	13057030	BEAR TRAP CANAL	21	0	64	1365
Sep 14	13057125	OSGOOD CANAL	9	0	566	10966
Sep 14	13057126	CLEMENTS CANAL	0	0	0	771
Sep 14	13057130	KENNEDY CANAL	9	0	0	394
Sep 14	13057135	GREAT WESTERN (21A)	306	0	0	87455
Sep 14	13057145	IDAHO CANAL (33A)	579	0	0	103206
Sep 14	13057250	PORTER CANAL (9) (21B)	243	0	0	0
Sep 14	13058125	FERGUSON CANAL	0	0	0	0
Sep 14	13058290	ORVAL AVERY CNL	2	0	0	0
Sep 14	13058310	ROY AVERY CANAL	10	0	0	0
Sep 14	13058370	R COOPER SAND CR	5	0	0	0
Sep 14	13058380	R COOPER WLLW CK	9	0	0	0
Sep 14	13058510	PROGRESSIVE SAND	442	0	0	0
Sep 14	13058514	W & O COOPER	0	0	0	0
Sep 14	13058515	IDAHO FR SAND CK	0	0	0	0
Sep 14	13058530	PROGRESSIVE WILL	87	0	6	-6
Sep 14	13059505	WOODVILLE CANAL (22A)	34	0	373	14385
Sep 14	13059520	WOODVILLE SIPHON (22D)	17	0	0	0
Sep 14	13059525	SNAKE RIVER VLLY * (23A)	356	156	12471	78133
Sep 15	13060500	RESERVATION CANAL	0	0	0	0
Sep 15	13060501	X RESERVATION	237	0	0	0
Sep 15	13061430	BLACKFOOT CANAL	184	0	0	23636
Sep 15	13061520	NEW LAVA SIDE * (24A)	88	0	0	11580
Sep 15	13061525	PEOPLES CANAL * (25A)	239	0	3482	71850
Sep 15	13061610	ABERDEEN CANAL	878	243	41534	220864
Sep 15	13061650	CORBETT CANAL	151	0	0	11435
Sep 15	13061670	NIELSON-HANSEN	11	0	47	-47
Sep 15	13061705	RIVERSIDE CANAL * (26A)	111	6	1325	153
Sep 15	13061995	DANSKIN CANAL	126	0	0	2316
Sep 15	13062050	TREGO CANAL	50	0	1	5174
Sep 15	13062051	JENSEN GROVE	24	24	1907	-1365
Sep 15	13062503	WEARYRICK CANAL	28	0	0	591
Sep 15	13062506	WATSON CANAL	61	0	0	2026
Sep 15	13062507	PARSONS CANAL	30	0	19	961
Sep 16	13075900	FT HALL MICHAUD	90	90	14759	69182
Sep 16	13076400	FALLS IRRIG PUMP	47	47	9892	53011
Sep 17	13080000	MINIDOKA NSIDE * (27A)	495	788	161844	179416
Sep 17	13080500	MINIDOKA SSIDE (10) (27B)	431	0	0	223216
Sep 18	13085500	A & B IRRIGATION	107	107	25392	110246
Sep 18	13085800	PA LATRL PUMP (11) (28B)	45	0	0	0
Sep 18	13086000	MILNER IRRIGATION	124	124	25690	63606
Sep 18	13086520	NSIDE XCT GONG (11) (28E)	913	0	0	0
Sep 18	13086530	RES DIST #2 CANAL	1328	1328	183387	214479
Sep 18	13087000	N SIDE TWIN FALLS (28A)	1185	1742	326333	522745
Sep 18	13087500	TWIN FALLS S SIDE	2552	0	76424	167570

FOOTNOTES: (#) STORAGE DIVERSION COMBINED WITH (#A)

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# USRRS FLOW SCHEMATIC

