

AGENCY REPORT

To Be Included in the Notes of the Water Forum

Date of Water Forum Meeting – January 9, 2018

Agency: Bureau of Reclamation, Wyoming Area Office

Name of Representative: Art Hill phone 307-261-5633

1. Water Supply Conditions of the North Platte River Basin.

December 31, 2017 Reservoir Conditions

<u>Reservoir</u>	<u>Elev. (Ft)</u>	<u>Content (AF)</u>	<u>% Full Conservation Storage</u>	<u>% Avg.</u>	<u>30 Year Average (AF)</u>
Seminole	6345.95	811,589	80	159	511,048
Pathfinder	5840.74	824,148	77	174	474,993
Alcova	5488.29	156,696	85	101	155,774
Glendo	4606.13	223,007	45	86	235,883
Guernsey	4405.09	16,146	35	163	9,473

December 31, 2016 Water Supply Conditions

<u>Reservoir</u>	<u>Elev. (Ft)</u>	<u>Content (AF)</u>	<u>% Full Conservation Storage</u>	<u>% Avg.</u>	<u>Top of Conservation (AF)</u>
Seminole	6343.03	763,232	75	136	1,017,273
Pathfinder	5844.75	903,190	84	174	1,070,000
Alcova	5488.49	157,147	85	101	184,405
Glendo	4611.77	265,611	54	106	492,022
Guernsey	4370.00	0	NA	NA	45,612

December Water Year 2018 Inflows

<u>Reservoir</u>	<u>Inflows(KAF)</u>	<u>% of Average</u>
Seminole	27.7	109
Pathfinder Gains from Korr.	7.7	175
Alcova to Glendo Gains	9.2	115
Glendo to Guernsey Gains	1.7	134

December inflows were above average for Seminole, Pathfinder, Glendo, and Guernsey Reservoirs which were 109%, 175%, 115% and 134% of average respectively.

The Kendrick ownership was 1,133,755 AF on December 31, 2017, which was approximately 133% of average (852,800 AF), which compares to the 1,109,969 AF of Kendrick ownership on this date last year.

The North Platte ownership was 714,295 AF on December 31, 2017, which was approximately 146% of average (490,200 AF), which compares to the 770,638 AF of North Platte ownership on this date last year.

The Glendo ownership was 150,532 AF on December 31, 2017, which was approximately 119% of average (126,900 AF), which compares to the 161,542 AF of Glendo ownership on this date last year.

Flows in the Miracle Mile below Kortess Dam are approximately 530 cubic feet per second (cfs). Releases from Gray Reef Reservoir are approximately 500 cfs. The level of Alcova Reservoir is at the winter operating range of 5488 ± one foot.

2. Water Supply Conditions of the Big Horn Basin

December 31, 2017 Reservoir Conditions

<u>Reservoir</u>	<u>Elev. (Ft)</u>	<u>Content (AF)</u>	<u>% Full Conservation Storage</u>	<u>% Avg.</u>	<u>30 Year Average (AF)</u>
Bull Lake	5788.81	104,576	69	140	76,533
Boysen	4721.72	679,357	89	122	543,074
Buffalo Bill	5373.22	491,314	76	116	422,421*
Pilot Butte	5473.22	28,118	83	104	27,075

December 31, 2016 Water Supply Conditions

<u>Reservoir</u>	<u>Elev. (Ft)</u>	<u>Content (AF)</u>	<u>% Full Conservation Storage</u>	<u>% Avg.</u>	<u>Top of Conservation (AF)</u>
Bull Lake	5761.95	40,566	27	53	151,737
Boysen	4719.79	644,653	87	119	741,594
Buffalo	5371.09	475,863	74	113	646,565
Pilot Butte	5455.04	29,385	87	109	33,721

* The average used for Buffalo Bill Reservoir reflects data from 1993 through 2004. In 1992, the capacity of the reservoir was increased to approximately 646,565 AF as a result of raising the dam.

December Water Year 2018 Inflows

<u>Reservoir</u>	<u>Inflow</u>	<u>% of Average</u>
Bull Lake	4.1	171
Boysen	59.3	159
Buffalo Bill	33.3	212

Total monthly inflows to Bull Lake, Boysen, and Buffalo Bill Reservoirs were well above average at 171%, 159%, and 212% respectively.

The flow rate below Buffalo Bill Reservoir, as measured by the Cody River Gage, is approximately 560 cfs and is scheduled to be at this discharge to achieve desirable winter reservoir level. The release from Boysen Dam is approximately 1,250 cfs and will remain at this release to achieve desirable winter reservoir levels.

3. Snow Conditions (From NRCS January 8th Report). The following table shows the current and preceding weeks' percentage of average snow water equivalent amounts for Wyoming basins. Average is based on all reporting Snotel sites in the basin. The reference period for average comparison is 1981-2010. The table does not include manually read snow courses.

Snow Pack

<u>Drainage Basin</u>	<u>1/8/18</u>	<u>1/2/18</u>	<u>12/26/17</u>	<u>1/8/17</u>	<u>1/8/16</u>
Wind River	133	136	124	116	88
Bighorn Basin	125	130	127	104	58
Upper North Platte	78	79	92	112	88
Sweetwater	77	79	97	152	65
Lower North Platte	68	67	73	100	83
Laramie	99	104	114	112	104

4. The January 1, 2018, water supply forecast indicates above average April - July runoff can be expected at all forecast points in the Bighorn Basin. The water supply forecasts are based on the snowpack at the Snotel stations, along with precipitation.

Bighorn Water Supply Forecast

Forecast Points	January 1, 2018 Forecast of April-July Runoff			30 Yr. April-July Runoff Avg. ²	Most Probable % of Avg.	Comparative Actual April – July Runoff			
	Reasonable Maximum ¹	Most Probable	Reasonable Minimum ¹			W. Yr. 2017	W. Yr. 2016	W. Yr. 2015	W. Yr. 2014
Bull Lake Reservoir	140	180	200	140.4	128	263	145	138	148
Wind River above Bull Lake Creek	550	650	800	406.9	160	634	323	526	580
Boysen Reservoir	650	900	1200	577.7	156	1636	753	750	695
Buffalo Bill Reservoir	750	950	1150	704.4	135	1262	592	696	1062

¹ The probability is estimated to be 8 chances in 10 that the actual volume will fall between the reasonable minimum and reasonable maximum.

² Average is based on the 1988-2017 period.

5. Other. The Four States Irrigation Council Annual Conference is scheduled for January 10-12, 2017 in Fort Collins, CO.