

AGENCY REPORT

To Be Included in the Notes of the Water Forum

Date of Water Forum Meeting – May 14, 2019

Agency: Bureau of Reclamation, Wyoming Area Office

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The following is a table of end of day reservoir conditions for April 30, 2019:

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

<u>Reservoir</u>	<u>Elev. (Ft)</u>	<u>Content (AF)</u>	<u>% Full Conservation Storage</u>	<u>% Avg.</u>
Seminoe	6337.15	673,148	66	130
Pathfinder	5832.65	680,740	64	115
Alcova	5498.11	179,766	97	100
Glendo	4632.63	464,261	94	106
Guernsey	4412.06	28,280	62	103

April 30, 2018 Water Supply Conditions

	<u>Elev. (Ft)</u>	<u>Content (AF)</u>	<u>% Full Conservation Storage</u>	<u>% Avg.</u>
Seminoe	6339.74	711,694	70	170
Pathfinder	5845.46	917,718	86	174
Alcova	5498.17	179,912	98	100
Glendo	4626.93	402,780	82	97
Guernsey*	4412.19	28,537	63	105

Inflow Volumes (October - April) for Water Year 2019

<u>Reservoir</u>	<u>Inflows (KAF)</u>	<u>% of Average</u>
Seminoe	289.4	101
Pathfinder Gains from Kor.	47.9	88
Alcova to Glendo Gains	114.3	108
Glendo to Guernsey Gains	16.5	120

The Water Year 2019 October through April inflows volumes were near or above average for all reservoirs except for Pathfinder Gains which were below average for the North Platte River Basin.

The Kendricks Project’s ownership was about 1,000,400 acre-feet (AF) on April 30, 2019, which is approximately 119% of average (840,100 AF), and is 160,300 acre-feet lower than the project’s ownership of 1,224,400 AF at the end of April 30 Water Year 2018.

The April 30, 2019, North Platte ownership was about 815,900 AF, which is approximately 111% of average (735,500 AF), and is 98,700 acre-feet below the 914,600 AF ownership at the end April 30 of Water Year 2018.

Flows in the Miracle Mile below Kortez Dam are approximately 2,700 cubic feet per second (cfs). Releases from Gray Reef Reservoir are approximately 500 cfs. The level of Alcova Reservoir is at its summer operating range of 5498 ± one foot.

North Platte Water Supply Forecast

Forecast Points	May 1, 2019 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. 2018	W. Yr. 2017	W. Yr. 2016	W. Yr. 2015
Seminole Reservoir	1025	775	525	683.4	113	393	683	1030	654
Sweetwater River above Pathfinder Reservoir	79	54	25	54.0	101	44	128	75	58
Alcova to Glendo	225	175	125	133.9	131	71	135	301	196

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 1989-2018 period.

2. Water Supply Conditions of the Big Horn Basin

April 30, 2019 Water Supply Conditions

<u>Reservoir</u>	<u>Elev. (Ft)</u>	<u>Content (AF)</u>	<u>% Full Conservation Storage</u>	<u>% Avg.</u>
Bull Lake	5781.35	84,789	56	111
Boysen	4715.69	576,405	78	112
Buffalo Bill	5359.51	396,776	61	101
Pilot Butte	5455.08	30,032	89	105

April 30, 2018 Water Supply Conditions

<u>Reservoir</u>	<u>Elev. (Ft)</u>	<u>Content (AF)</u>	<u>% Full Conservation Storage</u>	<u>% Avg.</u>
Bull Lake	5788.01	102,383	67	135
Boysen	4707.49	458,934	62	89
Buffalo Bill	5352.02	349,551	54	89
Pilot Butte	5454.74	29,132	86	101

* The average used for Buffalo Bill Reservoir reflects data from 1993 through 2018. In 1992, the capacity of the reservoir was increased to approximately 646,565 AF as a result of raising the dam. A long term average cannot be calculated until several years of operation occur under the increased storage.

Inflow Volumes (October - April) for Water Year 2019

<u>Reservoir</u>	<u>Inflow (KAF)</u>	<u>% of Average</u>
Bull Lake	17.1	77
Boysen	345.6	108
Buffalo Bill	186.3	114

The Water Year 2019 October through April inflow volumes to and Pilot Butte and Bull Lake were above average, while Buffalo Bill and Boysen Reservoirs were near or below average.

The flow rate below Buffalo Bill Reservoir, as measured by the Cody River Gage, is approximately 2,000 cfs which is above irrigation demand. The release from Boysen Dam is approximately 2,150 cfs. near Powerplant capacity.

3. The May 1, 2019, water supply forecast indicates near 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	May 1, 2019 Forecast of April-July Runoff			30 Yr. April-July Runoff Avg. ²	Most Probable % of Avg.	Comparative Actual April – July Runoff			
	Reasonable Minimum ¹	Most Probable	Reasonable Maximum ¹			W. Yr. 2018	W. Yr. 2017	W. Yr. 2016	W. Yr. 2015
Bull Lake Reservoir	115	140	165	143.2	98	175	263	145	138
Wind River above Bull Lake Creek	275	435	525	435.0	100	818	634	323	526
Boysen Reservoir	325	575	775	603.3	95	1007	1636	753	750
Buffalo Bill Reservoir	570	770	970	734.6	105	1300	1262	592	696

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 1989-2018 period.

4. Other.