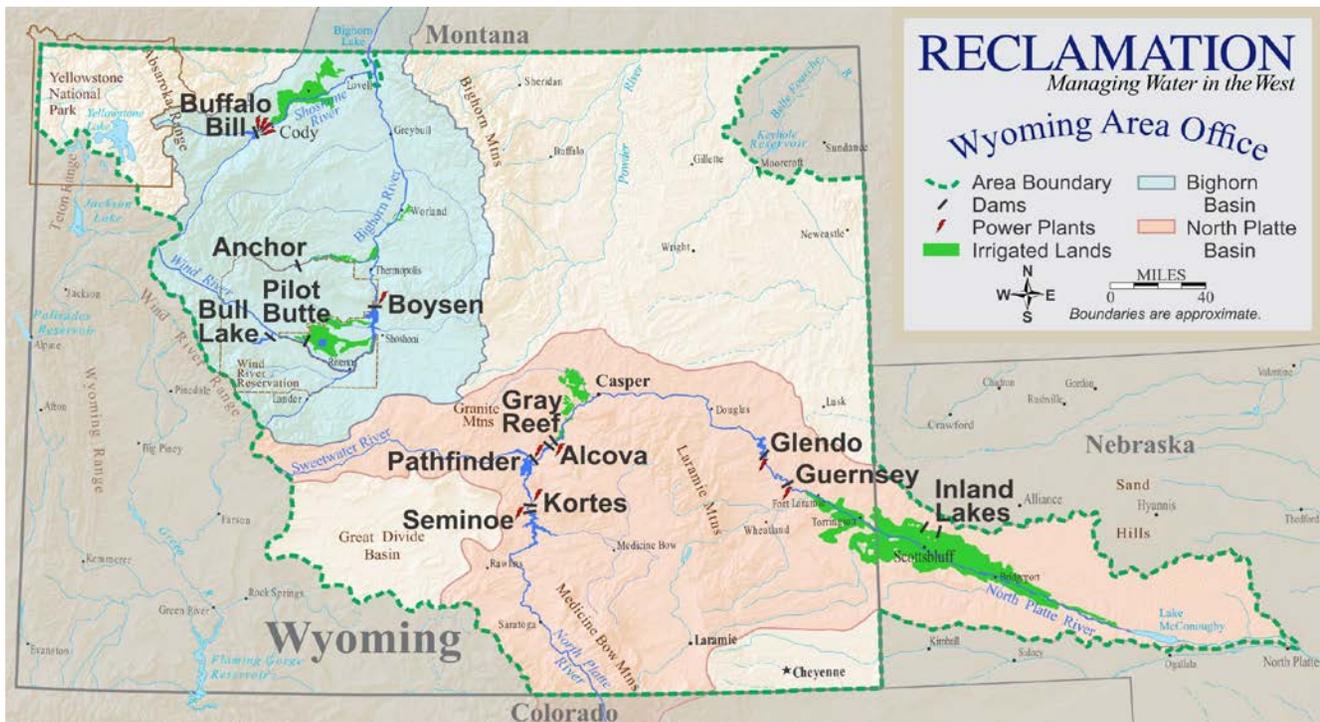


RECLAMATION

Managing Water in the West

**North Platte River Basin
Water Supply and Utilization Report
Wyoming Area Office
Report for May 2019**



The Wyoming Area Office of the Bureau of Reclamation is responsible for the operation of Reclamation reservoirs in Wyoming east of the Continental Divide except for Keyhole Reservoir. Four off-stream reservoirs in Nebraska commonly referred to as the Inland Lakes also fall within the Wyoming Area. The North Platte River Basin Reservoirs have a combined storage capacity of 2,800,000 acre-feet. The major reservoirs in the Shoshone and Wind/Bighorn Basins have a combined storage capacity of 1,600,000 acre-feet.



United States of America
Department of the Interior
Bureau of Reclamation
P.O. Box 1630
Mills, Wyoming 82644-1630

**Report for May 2019
WATER SUPPLY AND UTILIZATION REPORT
NORTH PLATTE RIVER BASIN
WYOMING AREA OFFICE**

This report concerns the operation of Reclamation facilities in the North Platte River Basin.

Reclamation defines a water year as the time period of October 1 through September 30. Water year is abbreviated in this report as W. Yr.

Other organizations furnished information for the Water Supply and Utilization Report. Their cooperation is greatly appreciated.

This report is available on the Internet and can be accessed by following these steps:

1. Log on to the Great Plains Home Page at: <http://www.usbr.gov/gp>
2. On left side of page Select [Water Operations](#).
3. Under Water Operations Select [Water Management Information](#).
4. Under Water Management Select [Water Supply Report](#).
5. Under North Platte River Basin, select [Current Month or reports from the previous 12 months](#).

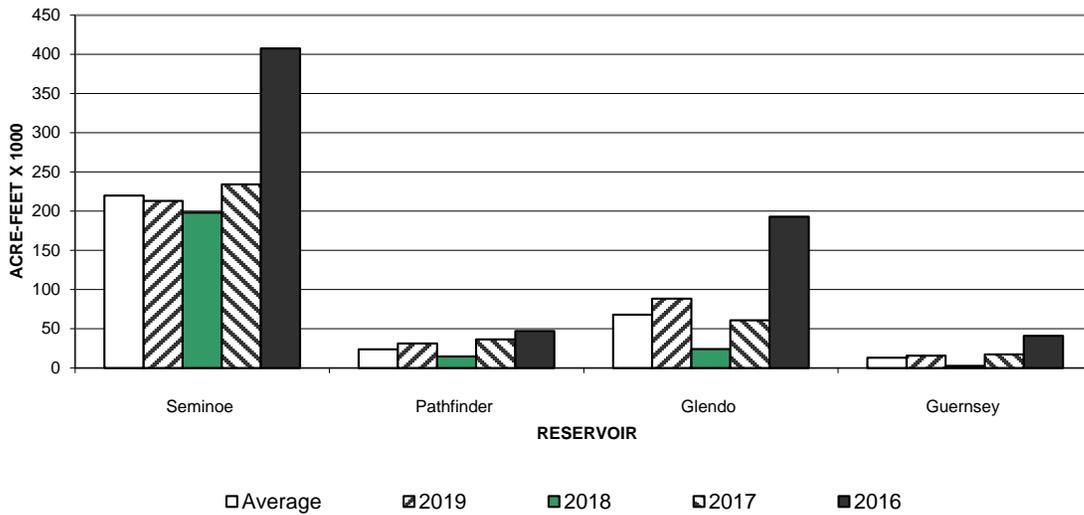
NORTH PLATTE RIVER BASIN INFLOW

(1000 acre-feet)

Reservoir	May Inflow			May Historical Inflow			Accumulated Inflow (October - May)		
	W. Yr. 2019	30 Yr. Avg. ⁵	% of Avg.	W. Yr. 2018	W. Yr. 2017	W. Yr. 2016	W. Yr. 2019	30 Yr. Avg. ⁵	% of Avg.
Seminole	213.1	219.8	97	198.0	234.3	407.5	503.0	507.9	99
Pathfinder ^{1,2}	31.2	23.9	131	14.7	36.5	47.3	79.1	78.5	101
Glendo ³	88.3	67.9	130	24.0	61.0	193.1	202.6	173.4	117
Guernsey ⁴	15.7	13.0	121	2.9	17.4	40.9	32.2	26.7	121
System Total	348.3	324.6	107	239.6	349.2	688.8	816.9	786.5	104

- 1 It is assumed that there is no gain between Seminole and Kortes Dams.
- 2 River gain between Kortes and Pathfinder Dams.
- 3 River gain between Pathfinder and Glendo Dams.
- 4 River gain between Glendo and Guernsey Dams.
- 5 30 year average. (1989-2018)

**NORTH PLATTE RIVER BASIN
RESERVOIR INFLOW
May**



NORTH PLATTE RIVER BASIN OUTFLOW

(1000 acre-feet)

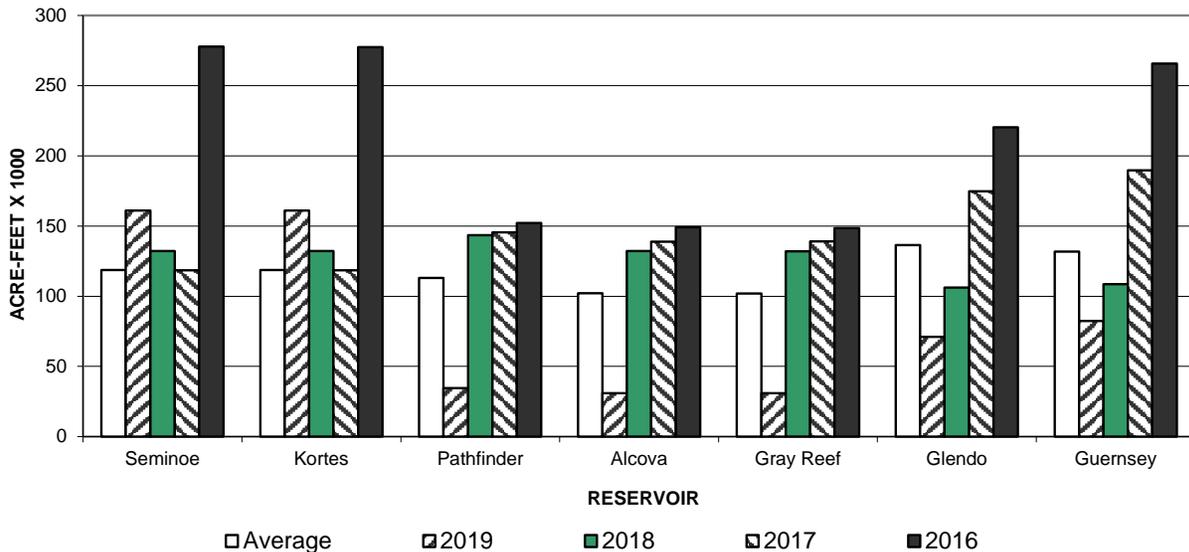
Reservoir	May Outflow			May Historical Outflow			Accumulated Outflow (October - May)		
	W. Yr. 2019	30 Yr. Avg. ²	% of Avg.	W. Yr. 2018	W. Yr. 2017	W. Yr. 2016	W. Yr. 2019	30 Yr. Avg. ²	% of Avg.
Seminoe	161.0	118.7	136	132.2	118.4	277.9	441.3	475.4	93
Kortes	161.0	118.7	136	132.1	118.5	277.4	441.3	475.3	93
Pathfinder	34.5	113.1	31	143.5	145.5	152.2	263.4	404.6	65
Alcova	30.9	102.1	30	132.1	138.9	149.2	259.6	391.5	66
Gray Reef	30.9	102.0	30	131.9	139.1	148.6	259.4	391.4	66
Glendo ¹	71.1	136.5 ¹	52	106.2	174.7	220.3	100.0	212.4	47
Guernsey	82.3	131.7	62	108.6	189.6	265.7	104.3	193.2	54

1 In 1993 an outlet was constructed at Glendo Dam which is used to provide a flow of approximately 25 cubic feet per second, 25 year average (1994-2018).

2 30 year average (1989-2018).

**NORTH PLATTE RIVER BASIN
RESERVOIR OUTFLOW**

May



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE

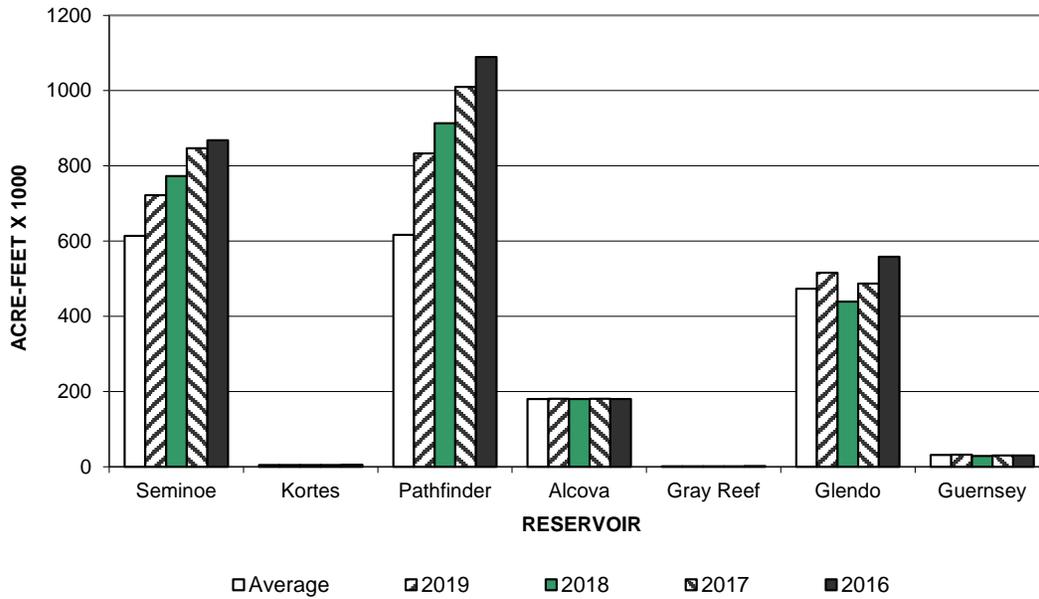
(1000 acre-feet)

Reservoir	Total Storage End of May			End of May Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr. 2019	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2018	W. Yr. 2017	W. Yr. 2016		
Seminoe	721.8	613.7	118	772.8	847.0	868.1	1017.3	71
Kortes	4.7	4.7	100	4.7	4.8	5.2	4.7	100
Pathfinder	833.1	616.8	135	913.0	1010.1	1089.5	1070.0	78
Alcova	180.8	180.1	100	180.3	180.5	180.1	184.4	98
Gray Reef	1.3	1.4	93	1.4	1.2	1.8	1.8	72
Glendo	515.6	473.3	109	439.2	487.1	558.2	492.0	105
Guernsey	32.3	31.5	103	28.5	30.0	30.3	45.6	71
Total	2289.6	1921.5	119	2339.6	2560.8	2733.2	2815.8	81

¹ Average is based on the 1989-2018 period.

**NORTH PLATTE RIVER BASIN
RESERVOIR STORAGE**

End of May



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE OWNERSHIP

(1000 acre-feet)

Ownership	Ownership of water End of May			End of May Historical Ownership			Total Storage Capacity	Percent of Capacity
	W. Yr. 2019	30 Yr. Avg. ⁵	% of Avg.	W. Yr. 2018	W. Yr. 2017	W. Yr. 2016		
Kendrick	993.9	864.0	115	1107.7	1201.7	1201.7	1201.7	83
North Platte ¹	1061.1	845.2	126	1056.6	1114.6	1114.5	1115.6	95
Glendo	171.7	150.6	114	162.3	171.7	171.7	171.7	100
Inland Lakes ²	0.0	1.7	0	0.0	0.0	0.0	42.9	0
Cheyenne ^{3,7}	5.8	3.1	186	2.2	3.8	5.6	15.7	37
PacifiCorp ⁴	2.0	1.6	124	2.0	2.0	2.0	2.0	99
WWDC	0.0	N/A	N/A	0.0	0.0	0.0	N/A	N/A
Other ⁶	55.2	54.8	101	9.0	67.2	237.8	N/A	N/A

1 This includes North Platte Guernsey and North Platte Pathfinder.

2 Water stored temporarily in mainstem facilities for later transfer to the Inland Lakes. This table does not reflect water currently stored in the Inland Lakes.

3 The City of Cheyenne has a storage contract to store water in Seminoe Reservoir by exchange of Upper North Platte Basin water through a system of trans-basin diversions.

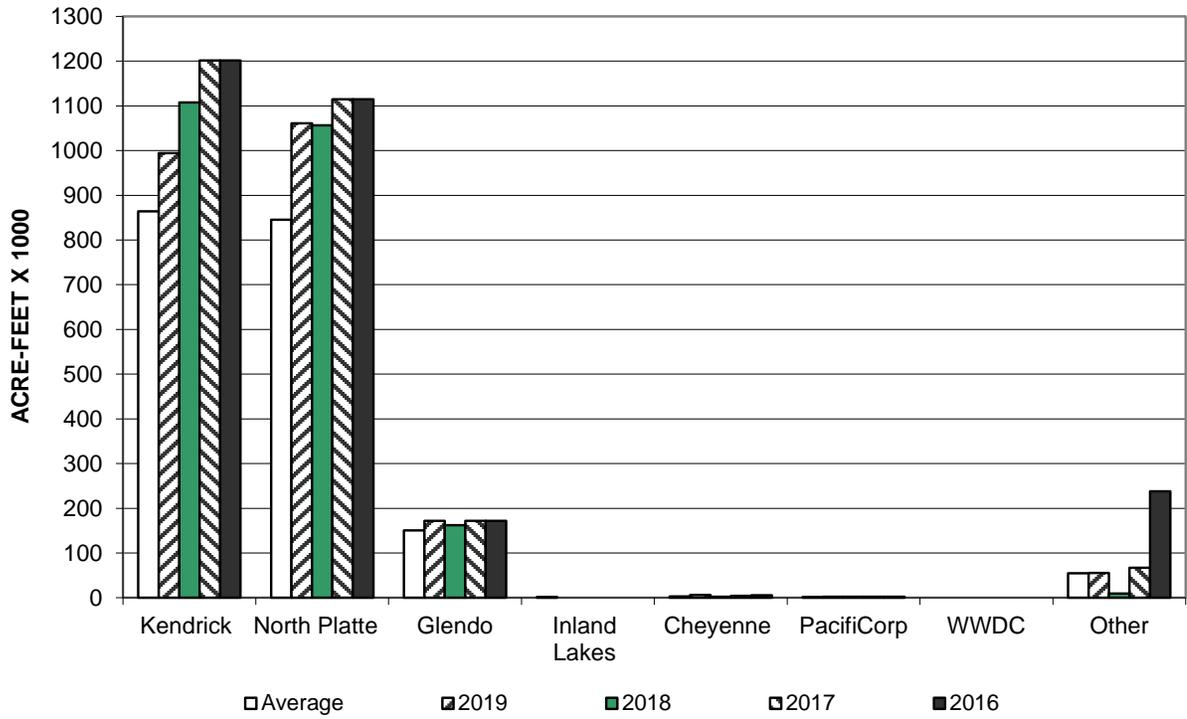
4 PacifiCorp has a storage contract to store water in Glendo Reservoir for Dave Johnston Powerplant.

5 Average is based on the 1989-2018 period.

6 Water which is captured in the re-regulation space of Glendo in addition to storage rights, operational water account, and replacement of evaporation losses is labeled as "Re-regulation of Natural Flow" per Wyoming Board of Control Order Docket Number I-2000-3-8 in water Division Number One. In accordance with 2018 Natural Flow and Ownership Procedures, the operational account may contain up to 15,000 acre-feet. On April 30, 2018, the Operational account contained 9,063 Acre-feet, the Re-Regulation space contained 18 Acre-feet.

7 Cheyenne ownership was increased to 15,700 AF on March 13, 2009 as a result of Amendment No. 1 to Contract No. 06XX6A0062.

**NORTH PLATTE RIVER BASIN
OWNERSHIP OF WATER
End of May**



INLAND LAKES RESERVOIR STORAGE

(acre-feet)

Reservoir	Total Storage End of May	30 Year Average ⁵	Percent of Average	Total Storage Capacity
Lake Alice	5,340	4,300	124	11,034 ¹
Little Lake Alice	329	300 ⁶	110	1,166 ²
Lake Winters Creek	1,357	1,000 ⁶	136	1,746 ³
Lake Minatare	53,570	42,300	127	58,795 ⁴

1 At Elevation 4182.0
 2 At Elevation 4139.0
 3 At Elevation 4125.0
 4 At Elevation 4125.0
 5 30 year average. (1989-2018)
 6 28 year average. (1991-2018)

NORTH PLATTE RIVER BASIN GROSS GENERATION

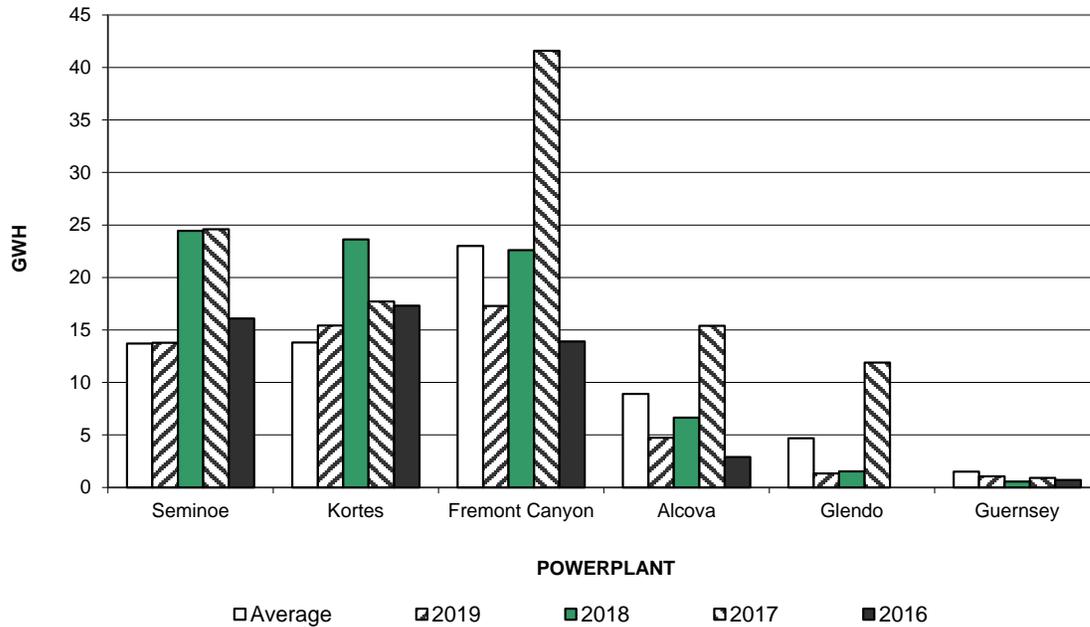
(Energy in giga-watt hours)

Powerplant	May Gross Generation			May Historical Generation			Accumulated Gross Gen. (October - May)		
	W. Yr. 2019	30 Yr. Avg. ²	% of Avg.	W. Yr. 2018	W. Yr. 2017	W. Yr. 2016	W. Yr. 2019	30 Yr. Avg. ²	% of Avg.
Seminoe	13.8	13.7	101	24.4	24.6	16.1	38.6	52.2	74
Kortes	15.4	13.8	112	23.6	17.7	17.3	47.1	55.7	85
Fremont Canyon ¹	17.3	23.0	75	22.6	41.6	13.9	32.5	70.3	46
Alcova	4.7	8.9	53	6.7	15.4	2.9	25.4	33.5	76
Glendo	1.3	4.7	29	1.5	11.9	0.0	1.3	5.9	22
Guernsey	1.1	1.5	71	0.6	0.9	0.7	1.1	1.9	58

1 The powerplant for Pathfinder Dam is Fremont Canyon.

2 Average is based on the 1989-2018 period.

**NORTH PLATTE RIVER BASIN
GROSS GENERATION
May**



NORTH PLATTE ESTIMATED APRIL-JULY RUNOFF

(1000 acre-feet)

Forecast Points	June 1, 2019 Forecast of April-July Runoff			30 Yr. April-July Runoff Avg. ²	Expected % of Avg.	Comparative Actual April - July Runoff			
	Reasonable Maximum ¹	Expected	Reasonable Minimum ¹			W. Yr. 2018	W. Yr. 2017	W. Yr. 2016	W. Yr. 2015
Seminole Reservoir	1225	1,025	725	683	150	393	683	1030	654
Sweetwater River Above Pathfinder Reservoir	90	65	40	54	121	44	128	75	58
Alcova to Glendo	265	215	165	134	161	71	135	301	196

¹ The probability is estimated to be 9 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.

(1000 acre-feet)

Forecast Points	June 1, 2019 Forecast of April-July Runoff						30 Yr. April-July Runoff Avg. ¹
	Chance of Exceeding						
	95%	75%	50%	% of Avg	25%	5%	
Seminole Reservoir	725	902	1025	150	1107	1225	683
Sweetwater River Above Pathfinder Reservoir	40	55	65	121	75	90	54
Alcova to Glendo Gain	165	195	215	161	235	265	134

¹ Average is based on the 1989-2018 period.

NORTH PLATTE SNOWPACK WATER CONTENT

SWE in inches ¹

WATERSHED	June 1, 2019 snow-water content			Comparative June 1 snow-water content		
	W. Yr. 2019 ³	30 Yr. Median ²	% of Median	W. Yr. 2018	W. Yr. 2017	W. Yr. 2016
Seminoe Reservoir	22.0	10.9	202	4.9	23.0	26.5
Pathfinder Reservoir	11.8	1.7	715	0.1	35.9	18.2
Glendo Reservoir	3.9	0.0	N/A	0.0	9.1	14.9

Seminoe Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content ³	30 Yr. Median ²
Brooklyn (10,200)	18.1	5.0
Columbine Lodge(9,160)	4.6	0.0
Divide Peak (8,880)	4.4	0.0
Joe Wright (10,120)	22.3	13.9
North French (10,130)	30.2	20.3
Old Battle (9,800)	41.1	23.9
Sand Lake (10,050)	32.3	20.4
South Brush (8,440)	0.0	0.0
Tower (10,500)	57.5	36.3
Webber Springs (9,250)	17.7	0.0
Willow Creek Pass (9,540)	14.3	0.0
Watershed Average	22.0	10.9

Pathfinder Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content ³	30 Yr. Median ²
South Pass (9,040)	10.0	0.2
Deer Park (9,700)	13.6	3.1
Watershed Average	11.8	1.7

Glendo Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content ³	30 Yr. Median ²
Casper (7,900)	5.4	0.0
Laprele Creek (8,375)	0.0	0.0
Reno Hill (8,500)	9.8	0.0
Windy Peak (7,900)	0.2	0.0
Watershed Average	3.9	0.0

¹ SWE (Snow Water Equivalent) is the amount of water in the snowpack expressed in inches)

² Median for the 1981-2010 period

³ Data from NRCS Snowpack Telemetry Network (SNOTEL) Sites.