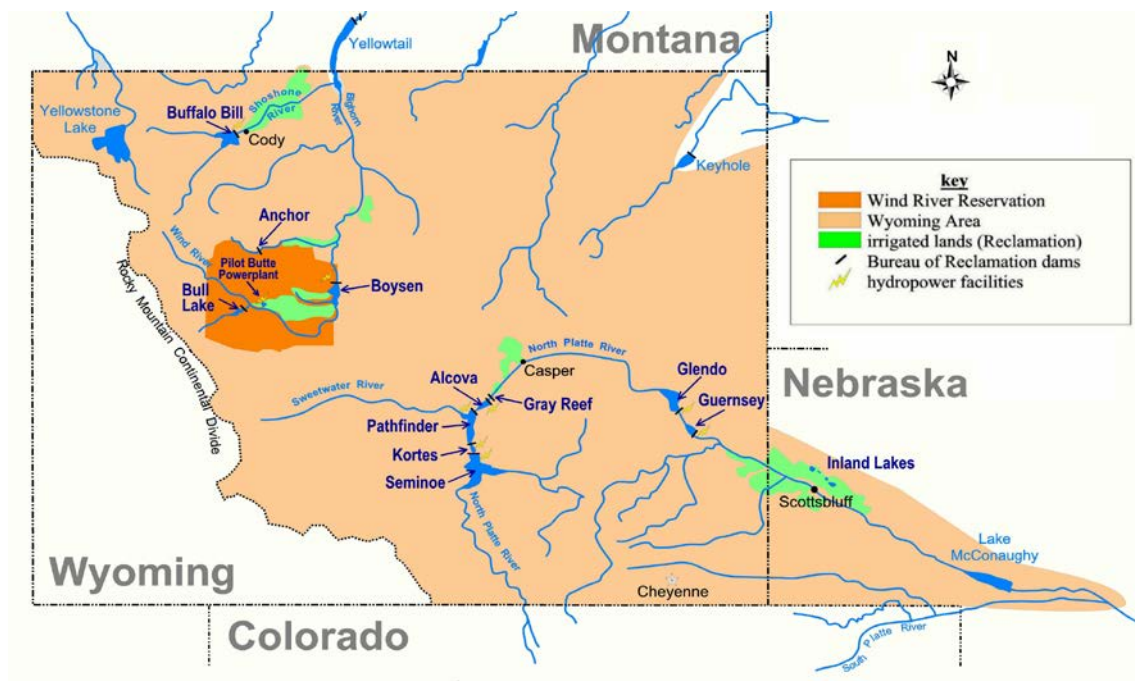


RECLAMATION

Managing Water in the West

North Platte River Basin Water Supply and Utilization Report Wyoming Area Office Report for February 2016



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 February 2016
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](#).

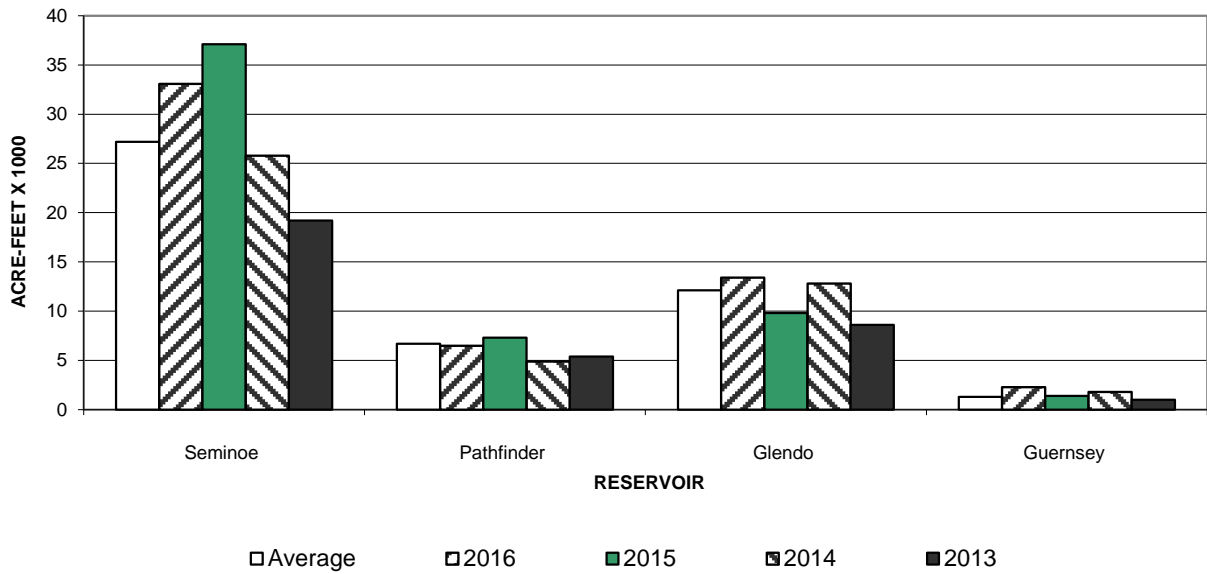
NORTH PLATTE RIVER BASIN INFLOW

(1000 acre-feet)

Reservoir	February Inflow			February Historical Inflow			Accumulated Inflow (October - February)		
	W. Yr. 2016	30 Yr. Avg. ⁵	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	W. Yr. 2016	30 Yr. Avg. ⁵	% of Avg.
Seminoe	33.1	27.2	122	37.1	25.8	19.2	129.6	137.8	94
Pathfinder ^{1,2}	6.5	6.7	97	7.3	4.9	5.4	23.1	23.4	99
Glendo ³	13.4	12.1	111	9.8	12.8	8.6	37.9	51.5	74
Guernsey ⁴	2.3	1.3	177	1.4	1.8	1.0	10.2	8.0	128
System Total	55.3	47.3	117	55.6	45.3	34.2	200.8	220.7	394

- 1 It is assumed that there is no gain between Seminoe 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. (1986-2015)

**NORTH PLATTE RIVER BASIN
RESERVOIR INFLOW
February**



NORTH PLATTE RIVER BASIN OUTFLOW

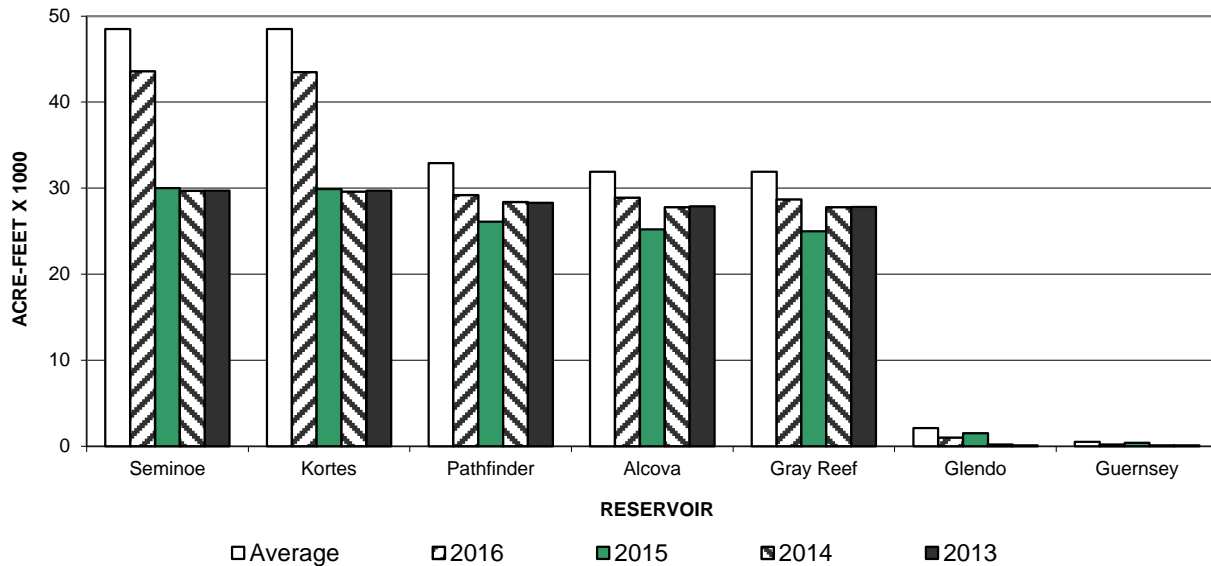
(1000 acre-feet)

Reservoir	February Outflow			February Historical Outflow			Accumulated Outflow (October - February)		
	W. Yr. 2016	30 Yr. Avg. ²	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	W. Yr. 2016	30 Yr. Avg. ²	% of Avg.
Seminole	43.6	48.5	90	30.0	29.7	29.7	228.6	222.9	103
Kortes	43.5	48.5	90	29.9	29.6	29.7	228.4	222.9	102
Pathfinder	29.2	32.9	89	26.1	28.4	28.3	129.7	159.5	81
Alcova	28.9	31.9	91	25.2	27.8	27.9	151.0	181.9	83
Gray Reef	28.7	31.9	90	25.0	27.8	27.8	150.9	181.9	83
Glendo ¹	1.0	2.1 ¹	48	1.5	0.2	0.1	7.4	9.0	82
Guernsey	0.2	0.5	40	0.4	0.1	0.1	1.1	10.1	11

1 In 1993 an outlet was constructed at Glendo Dam which is used to provide a flow of approximately 25 cubic feet per second, 22 year average (1994-2015).

2 30 year average (1986-2015).

**NORTH PLATTE RIVER BASIN
RESERVOIR OUTFLOW
February**



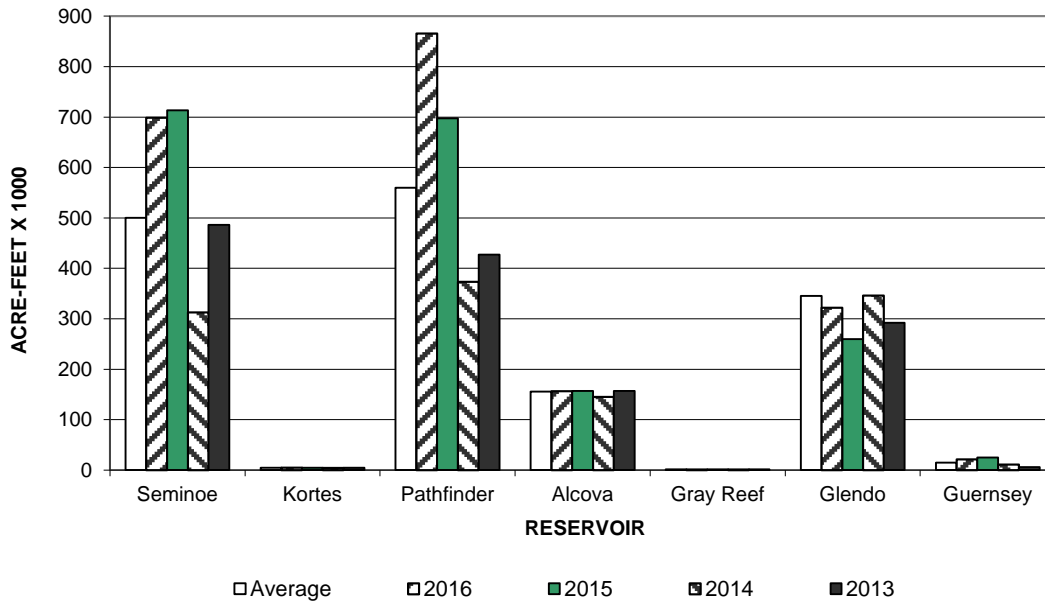
NORTH PLATTE RIVER BASIN RESERVOIR STORAGE

(1000 acre-feet)

Reservoir	Total Storage End of February			End of February Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr. 2016	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013		
Seminole	698.6	500.3	140	713.5	312.7	486.1	1017.3	69
Kortes	4.9	4.7	104	4.7	4.5	4.7	4.7	104
Pathfinder	865.9	559.6	155	697.3	373.5	427.5	1070.0	81
Alcova	156.7	155.7	101	157.2	145.3	157.1	184.4	85
Gray Reef	1.3	1.4	93	1.5	1.4	1.5	1.8	72
Glendo	322.1	345.7	93	259.5	346.2	291.9	492.0	65
Guernsey	21.3	14.9	143	24.7	11.1	6.0	45.6	47
Total	2070.8	1582.3	131	1858.4	1194.7	1374.8	2815.8	74

¹ Average is based on the 1986-2015 period.

**NORTH PLATTE RIVER BASIN
RESERVOIR STORAGE
End of February**



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE OWNERSHIP

(1000 acre-feet)

Ownership	Ownership of water End of February			End of February Historical Ownership			Total Storage Capacity	Percent of Capacity
	W. Yr. 2016	30 Yr. Avg. ⁵	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013		
Kendrick	1091.6	850.5	128	878.2	775.8	950.7	1201.7	91
North Platte ¹	786.4	567.6	139	796.4	282.9	271.7	1115.6	70
Glendo	149.9	127.9	117	147.8	88.8	116.5	171.7	87
Inland Lakes ²	14.6	21.2	69	15.7	38.6	15.7	46.0	32
Cheyenne ³	9.3	7.1	131	6.1	3.8	7.9	10.0	93
PacifiCorp ⁴	2.0	1.8	111	2.0	2.0	2.0	2.0	100
WWDC	0.0	N/A	N/A	0.0	0.0	0.0	N/A	N/A
Other ⁶	16.9	6.2	273	12.2	2.8	10.5	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.

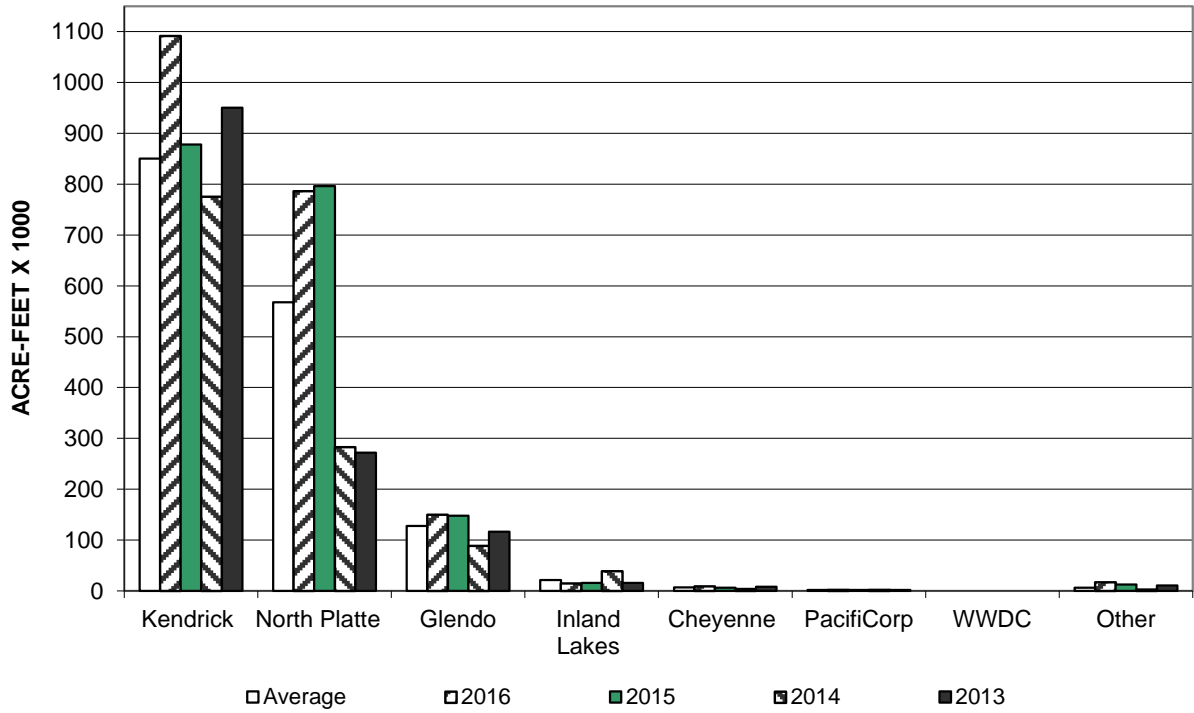
3 The City of Cheyenne has a storage contract to store water in Seminole Reservoir by exchange of Upper North Platte Basin water through a system of trans-basin diversions.

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

5 Average is based on the 1986-2015 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 2012 Natural Flow and Ownership Procedures, the operational account may contain up to 15,000 acre-feet. On February 29, 2016, the Operational account contained 5,087 Acre-feet, the Re-Regulation space contained 11,788 Acre-feet.

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



INLAND LAKES RESERVOIR STORAGE

(acre-feet)

Reservoir	Total Storage End of February	30 Year Average ⁵	Percent of Average	Total Storage Capacity
Lake Alice	1,676	400	419	11,034 ¹
Little Lake Alice	102	100 ⁶	102	1,166 ²
Lake Winters Creek	935	600 ⁶	156	1,746 ³
Lake Minatare	31,472	25,900	122	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. (1986-2015)
6 25 year average. (1991-2015)

NORTH PLATTE RIVER BASIN GROSS GENERATION

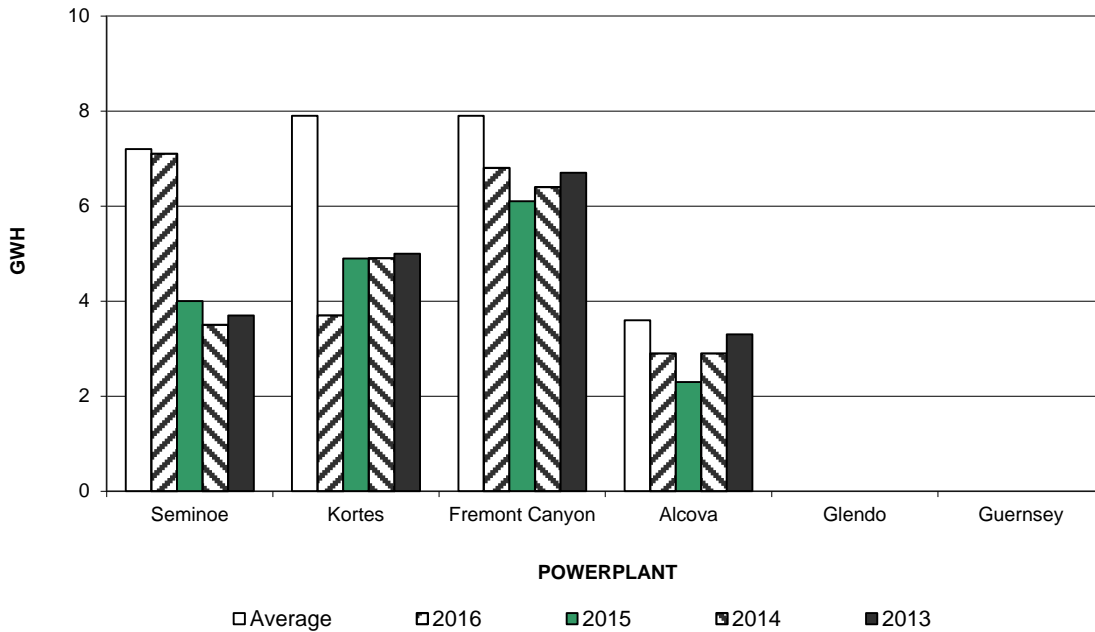
(Energy in giga-watt hours)

Powerplant	February Gross Generation			February Historical Generation			Accumulated Gross Gen. (October - February)		
	W. Yr. 2016	30 Yr. Avg. ²	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	W. Yr. 2016	30 Yr. Avg. ²	% of Avg.
Seminoe	7.1	7.2	99	4.0	3.5	3.7	29.6	32.7	91
Kortes	3.7	7.9	47	4.9	4.9	5.0	37.2	36.2	103
Fremont Canyon ¹	6.8	7.9	86	6.1	6.4	6.7	29.8	38.7	77
Alcova	2.9	3.6	81	2.3	2.9	3.3	14.2	20.9	68
Glendo	0.0	0.0	N/A	0.0	0.0	0.0	0.0	0.3	0
Guernsey	0.0	0.0	N/A	0.0	0.0	0.0	0.0	0.4	0

¹ The powerplant for Pathfinder Dam is Fremont Canyon.

² Average is based on the 1986-2015 period.

**NORTH PLATTE RIVER BASIN
GROSS GENERATION
February**



NORTH PLATTE ESTIMATED APRIL-JULY RUNOFF

The March 1, 2016, water supply forecast indicates below average April - July runoff for the North Platte River system, shown in the two tables below.

(1000 acre-feet)

Forecast Points	March 1, 2016 Forecast of April-July Runoff			30 Yr. April-July Runoff Avg. ²	Expected % of Avg.	Comparative Actual April - July Runoff			
	Reasonable Minimum ¹	Expected	Reasonable Maximum ¹			W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	W. Yr. 2012
Seminole Reservoir	300	600	900	694	86	654	1100	328	268
Sweetwater River Above Pathfinder Reservoir	20	30	50	53	57	41	42	10	24
Alcova to Glendo	70	120	170	124	97	196	238	50	47

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 1986-2015 period.

(1000 acre-feet)

Forecast Points	March 1, 2016 Forecast of April-July Runoff						30 Yr. April-July Runoff Avg. ¹
	Chance of Exceeding						
	95%	75%	50%	% of Avg	25%	5%	
Seminole Reservoir	300	477	600	86	723	900	694
Sweetwater River Above Pathfinder Reservoir	20	26	30	57	38	50	53
Alcova to Glendo Gain	70	100	120	97	140	170	124

¹ Average is based on the 1986-2015 period.

NORTH PLATTE SNOWPACK WATER CONTENT

The tables shown below display the Snotel Sites used in the development of the April-July snowmelt runoff forecasts displayed on page eight of this report.

SWE in inches ¹

WATERSHED	March 1, 2016 snow-water content			Comparative March 1 snow-water content		
	W. Yr. 2016	30 Yr. Median ²	% of Median	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013
Seminole Reservoir	16.5	18.9	87	14.4	19.2	8.7
Pathfinder Reservoir	8.3	11.1	74	8.4	10.5	5.5
Glendo Reservoir	8.0	8.4	95	6.6	9.8	1.9

Seminole Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content	30 Yr. Median ²
Brooklyn Lake (10,240)	16.8	15.0
Columbine (9,160)	17.8	19.8
Divide Peak (8,880)	14.4	15.8
Joe Wright (10,120)	11.4	16.6
North French (10,130)	18.7	21.1
Old Battle (10,000)	20.9	23.9
Sand Lake (10,050)	18.8	21.2
South Brush (8,440)	9.1	10.3
Tower (10,500)	27.0	36.3
Webber Springs (9,250)	15.7	18.7
Willow Creek Pass (9,540)	10.5	9.5
Watershed Median	16.5	18.9

Pathfinder Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content	30 Yr. Median ²
South Pass (9,040)	7.6	11.4
Deer Park (9,700)	8.9	10.8
Watershed Average	8.3	11.1

Glendo Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content	30 Yr. Median ²
Casper (7,900)	8.9	10.2
Laprele Creek (8,375)	7.0	7.8
Reno Hill (8,500)	9.9	10.0
Windy Peak (7,900)	6.2	5.7
Watershed Median	8.0	8.4

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

² Median for the 1981-2010 period