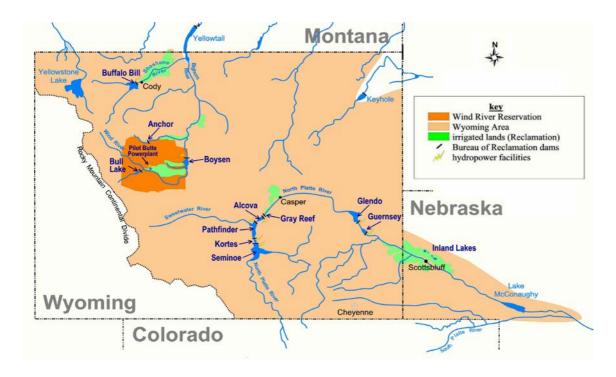
RECLAMATION Managing Water in the West

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

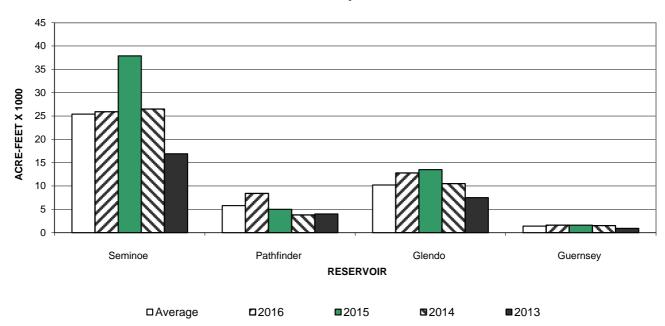
The January inflow was above average for Seminoe, Pathfinder, Glendo and Guernsey Reservoirs.

(1000 acre-feet)

		January Inflow			January Historical Inflow			Accumulated Inflow (October-January)		
Reservoir		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		25.9	25.4	102	37.9	26.5	16.9	96.5	110.6	87
Pathfinder	1, 2	8.4	5.8	145	5.0	3.8	4.0	16.6	19.0	87
Glendo	3	12.8	10.2	125	13.5	10.5	7.5	24.5	39.4	62
Guernsey	4	1.6	1.4	114	1.6	1.5	0.9	7.9	6.7	118

- 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 January



NORTH PLATTE RIVER BASIN OUTFLOW

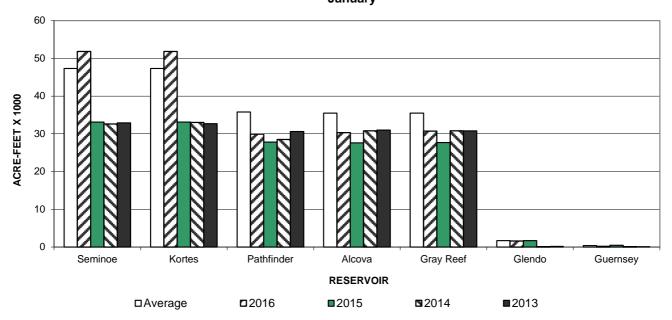
The January outflow was above average for Seminoe and Kortes Reservoirs.

(1000 acre-feet)

	January Outflow			January Historical Outflow			Accumulated Outflow (October-January)		
Reservoir	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	51.8	47.3	110	33.1	32.6	32.9	185.0	174.4	106
Kortes	51.8	47.3	110	33.1	33.0	32.7	184.9	174.4	106
Pathfinder	29.9	35.8	84	27.8	28.5	30.6	100.5	126.6	79
Alcova	30.3	35.5	85	27.6	30.8	31.0	122.1	150.0	81
Gray Reef	30.7	35.5	86	27.7	30.8	30.8	122.2	150.0	81
Glendo	1.6	1.7	94	1.7	0.1	0.2	6.4	6.9	93
Guernsey	0.2	0.4	50	0.5	0.1	0.1	0.9	9.6	9

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).

NORTH PLATTE RIVER BASIN RESERVOIR OUTFLOW January



^{2 30} year average (1986-2015).

NORTH PLATTE RIVER BASIN RESERVOIR STORAGE

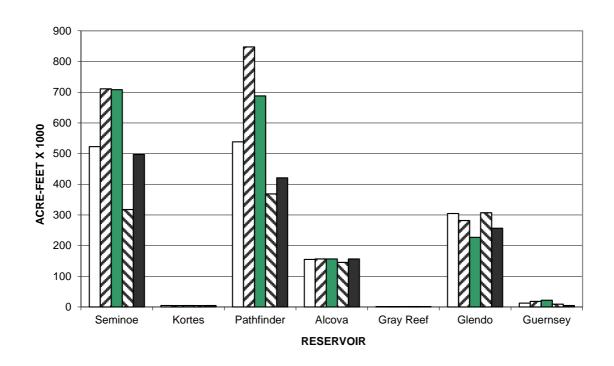
The January storage was below average for Gray Reef and Glendo Reservoirs.

(1000 acre-feet)

		otal Storag		End of January Historical Storage			Total Conservation	Percent of
Reservoir	W. Yr. 2016	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	Storage Capacity	Capacity
Seminoe	710.9	522.5	136	708.4	317.4	497.0	1017.3	70
Kortes	4.7	4.7	100	4.7	4.5	4.7	4.7	100
Pathfinder	847.5	538.3	157	688.1	368.3	421.0	1070.0	79
Alcova	156.7	155.0	101	156.7	145.0	156.9	184.4	85
Gray Reef	1.1	1.4	79	1.3	1.3	1.4	1.8	61
Glendo	281.8	304.6	93	226.8	306.9	256.8	492.0	57
Guernsey	18.2	12.6	144	22.4	9.2	5.1	45.6	40
Total	2020.9	1539.1	131	1808.4	1152.6	1342.9	2815.8	72

¹ Average is based on the 1986-2015 period.

NORTH PLATTE RIVER BASIN RESERVOIR STORAGE End of January



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE OWNERSHIP

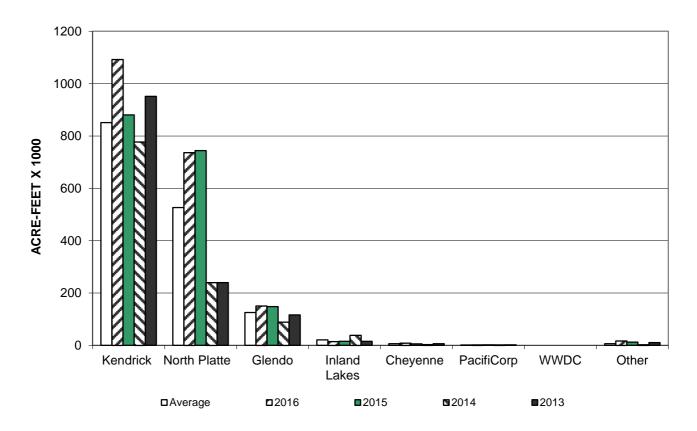
The January ownership was below average for Inland Lakes.

(1000 acre-feet)

		Ownership of water End of January				nd of Janua rical Owne	•	Total	Percent of
Ownership		W. Yr. 2016	30 Yr. Avg. ⁵	% of Avg.	W. Yr. W. Yr. W. Yr. 2015 2014 2013			Storage Capacity	Capacity
Kendrick		1092.4	851.4	128	880.4	777.3	951.6	1201.7	91
North Platte	1	736.2	526.3	140	744.2	239.6	239.8	1115.6	66
Glendo		150.4	125.8	120	148.3	88.9	116.7	171.7	88
Inland Lakes	2	14.6	21.3	69	15.7	38.6	15.7	46.0	32
Cheyenne	3	8.6	6.4	134	5.5	3.4	6.6	10.0	N/A
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	6.1	277	12.3	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 that 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 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 2014 Natural Flow and Ownership Procedures, the operational account may contain up to 15,000 acre-feet. On January 31, 2016, the Operational account contained 5,093 Acre-feet, and the Re-Regulation space contained 11,801 Acre-feet.

NORTH PLATTE RIVER BASIN OWNERSHIP OF WATER End of January



INLAND LAKES RESERVOIR STORAGE

(acre-feet)

	Total	30 Year	Percent of	Total
Reservoir	Storage	Average ⁵	Average	Storage
	End of January			Capacity
Lake Alice	1,800	500	360	11,034 1
Little Lake Alice	100	100	100	1,166 ²
Lake Winters Creek	1,000	600 ⁶	167	1,746 ³
Lake Minatare	31,700	26,200	121	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

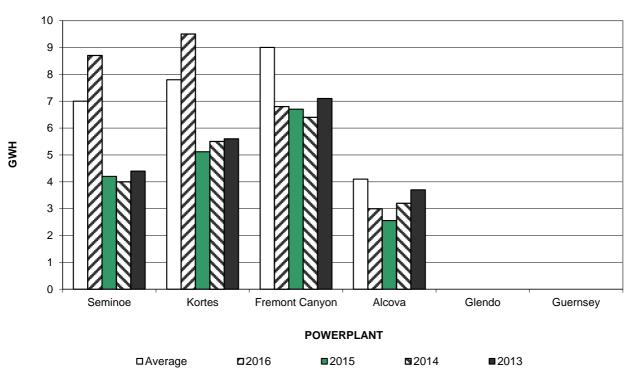
The January Power generation was above average for Seminoe and Kortes powerplants

(Energy in giga-watt hours)

	Gr	January oss Genera		January Historical Generation			Accumulated Gross Gen. (October - January)			
Powerplant	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	8.7	7.0	124	4.2	4.0	4.4	0.0	25.5	0	
Kortes	9.5	7.8	122	5.1	5.5	5.6	0.0	28.3	0	
Fremont Canyon ¹	6.8	9.0	76	6.7	6.4	7.1	0.0	30.8	0	
Alcova	3.0	4.1	73	2.6	3.2	3.7	0.0	17.3	0	
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.

NORTH PLATTE RIVER BASIN GROSS GENERATION January



² Average is based on the 1986-2015 period.

NORTH PLATTE ESTIMATED APRIL-JULY RUNOFF

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

(1000 acre-feet)

Forecast		ary 1, 2016 Fo April-July Rur	30 Yr. April-July	Expected		omparat April - Ju			
Points	Reasonable Minimum ¹	Expected	Reasonable Maximum ¹	Runoff Avg. ²	% of Avg.	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	W. Yr. 2012
Seminoe Reservoir	300	600	900	690	87	654	1100	328	268
Sweetwater River Above Pathfinder									
Reservoir	20	30	50	52.5	57	41	42	10	24
Alcova to Glendo	70	120	170	129.6	93	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.

(1000 acre-feet

							(1000 acre-feet)			
Forecast Points		February 1, 2016 Forecast of April-July Runoff Chance of Exceeding								
95% 75% 50% % of Avg 25%						5%	Avg. 1			
Seminoe										
Reservoir	300	477	600	87	723	900	690			
Sweetwater River										
Above Pathfinder										
Reservoir	20	26	30	57	38	50	52.5			
Alcova to Glendo										
Gain	70	100	120	93	140	170	129.6			

¹ Average is based on the 1986-2015 period.

² 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

	February 1, 2016 snow-water content			Comparative February 1 snow-water content		
WATERSHED	W. Yr. 2016	30 Yr. Median ²	W. Yr. 2015	W. Yr. 2014	W. Yr. 2013	
Seminoe Reservoir	14.1	14.5	97	10.9	13.8	8.7
Pathfinder Reservoir	6.1	9.2	67	6.4	5.8	5.5
Glendo Reservoir	6.6	6.2	107	4.6	7.8	1.9

Seminoe Reservoir Watershed

SWE in inches 1

Stations	Water	30 Yr.
(Elevation)	Content	Median ²
Brooklyn Lake (10,240)	13.5	12.0
Columbine (9,160)	14.9	14.7
Divide Peak (8,880)	12.5	12.3
Joe Wright (10,120)	10.2	13.0
North French (10,130)	16.2	16.0
Old Battle (10,000)	18.0	19.1
Sand Lake (10,050)	16.4	16.5
South Brush (8,440)	7.4	7.3
Tower (10,500)	23.0	27.5
Webber Springs (9,250)	13.5	13.7
Willow Creek Pass (9,540)	9.5	7.6
Watershed Median	14.1	14.5

Pathfinder Reservoir Watershed

SWE in inches 1

Stations (Elevation)	Water Content	30 Yr. Median ²
South Pass (9,040)	5.5	8.9
Deer Park (9,700)	6.7	9.4
Watershed Average	6.1	9.2

Glendo Reservoir Watershed

SWE in inches 1

Stations	Water	30 Yr.
(Elevation)	Content	Median ²
Casper (7,900)	7.5	7.5
Laprele Creek (8,375)	5.5	5.4
Reno Hill (8,500)	8.4	7.7
Windy Peak (7,900)	5.1	4.2
Watershed Median	6.6	6.2

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

² Median for the 1981-2010 period

¹ Average is based on the 1986-2015 period.