

April 1, 2008
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 March inflows were below average for all reservoirs in the North Platte Basin.

(1000 acre-feet)

Reservoir	March Inflow			March Historical Inflow			Accumulated Inflow (October - February)		
	W. Yr. 2008	30 Yr. Avg. ⁵	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005	W. Yr. 2008	30 Yr. Avg. ⁵	% of Avg.
Seminole	42.9	57.5	75	100.1	42.9	40.7	168.0	194.1	87
Pathfinder ^{1,2}	6.3	12.0	53	12.2	11.9	8.2	27.3	38.4	71
Glendo ³	7.7	17.9	43	16.5	10.0	7.4	30.5	73.3	42
Guernsey ⁴	1.0	1.5	67	1.0	0.8	1.0	4.4	10.1	44

1 It is assumed that there is no gain between Seminole and Kortes Dams.

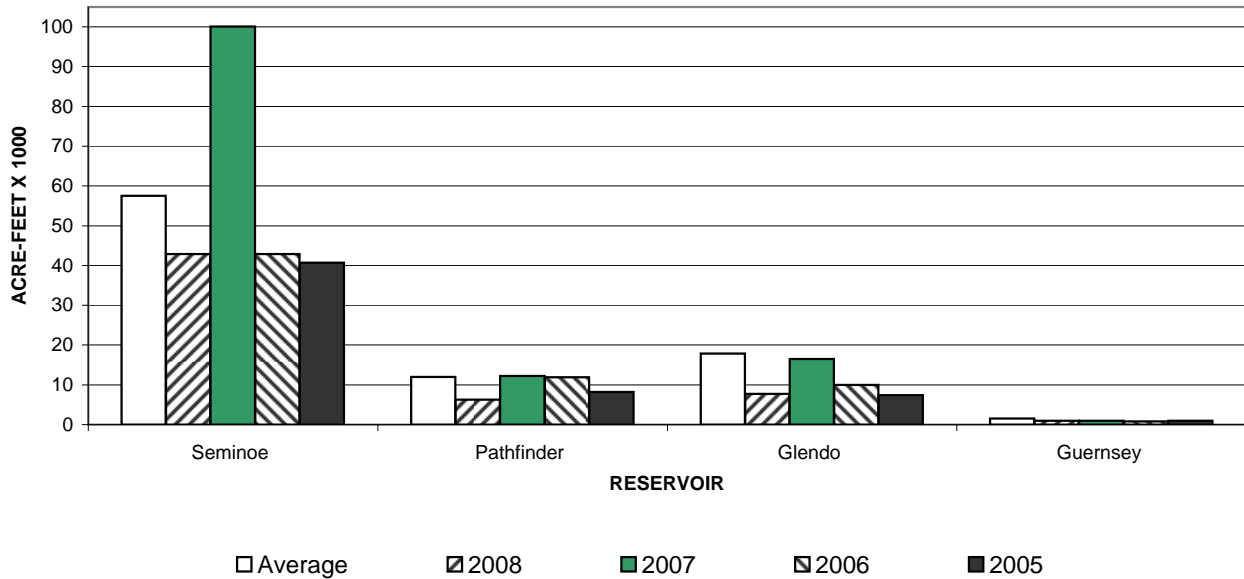
2 River gain between Kortes and Pathfinder Dams.

3 River gain between Pathfinder and Glendo Dams.

4 River gain between Glendo and Guernsey Dams.

5 30 year average. (1978-2007)

**NORTH PLATTE RIVER BASIN
RESERVOIR INFLOW
March**



NORTH PLATTE RIVER BASIN OUTFLOW

The March outflows for all the North Platte Reservoirs were below average.

(1000 acre-feet)

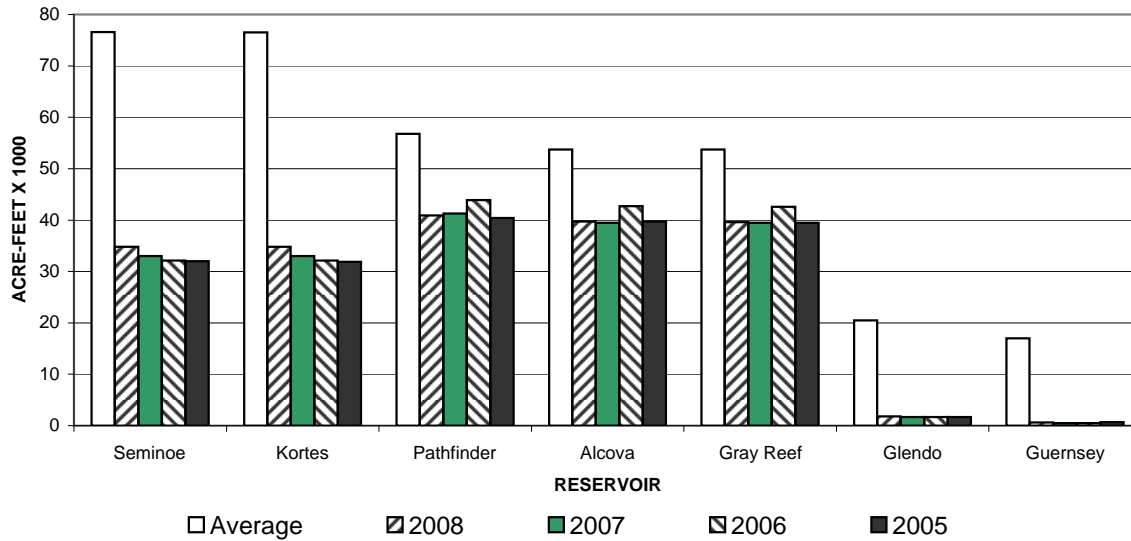
Reservoir	March Outflow			March Historical Outflow			Accumulated Outflow (October - January)		
	W. Yr. 2008	30 Yr. Avg. ²	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005	W. Yr. 2008	30 Yr. Avg. ²	% of Avg.
Seminole	34.8	76.6	45	33.0	32.1	32.0	197.6	364.5	54
Kortes	34.8	76.5	45	33.0	32.1	31.9	197.6	364.4	54
Pathfinder	40.9	56.8	72	41.3	43.9	40.4	178.8	251.1	71
Alcova	39.7	53.7	74	39.5	42.7	39.7	199.2	269.8	74
Gray Reef	39.6	53.7	74	39.5	42.6	39.5	199.4	269.6	74
Glendo ¹	1.8	20.5	9	1.7	1.7	1.7	11.2	34.1	33
Guernsey	0.6	17.0	4	0.5	0.5	0.7	1.9	32.2	6

1 In 1993 an outlet was constructed at Glendo Dam which is used to provide a flow of approximately 25 cubic feet per second.

2 30 year average (1978-2007).

NORTH PLATTE RIVER BASIN RESERVOIR OUTFLOW

March



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE

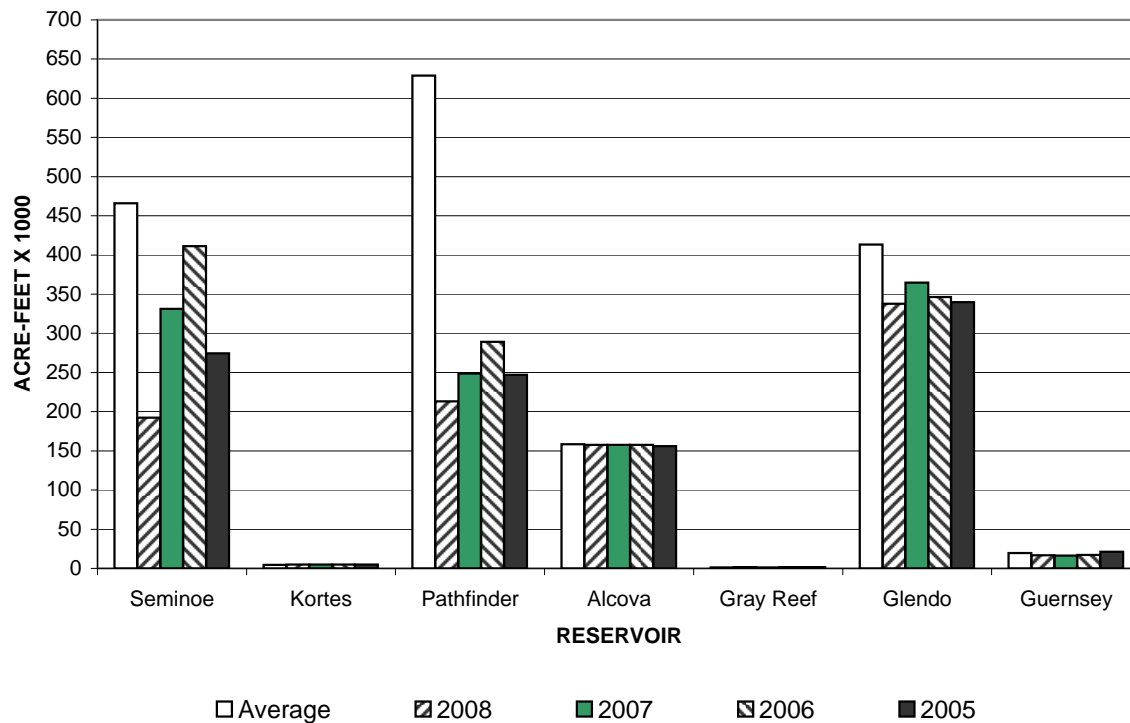
The March storage for the major reservoirs; Seminoe, Pathfinder and Glendo were below average.

(1000 acre-feet)

Reservoir	Total Storage End of March			End of March Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr. 2008	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005		
Seminoe	192.4	466.0	41	331.3	411.1	274.5	1017.3	19
Kortes	4.7	4.6	102	4.7	4.7	4.7	4.7	100
Pathfinder	213.1	628.8	34	248.6	289.1	247.1	1016.5	21
Alcova	157.5	158.4	99	157.8	157.6	156.1	184.4	85
Gray Reef	1.6	1.4	114	1.4	1.6	1.6	1.8	89
Glendo	337.7	413.5	82	364.6	346.3	339.9	517.5	65
Guernsey	16.9	19.4	87	16.5	17.3	21.1	45.6	37
Total	923.9	1692.1	55	1124.9	1227.7	1045.0	2787.8	33

¹ Average is based on the 1978-2007 period.

NORTH PLATTE RIVER BASIN RESERVOIR STORAGE End of March



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE OWNERSHIP

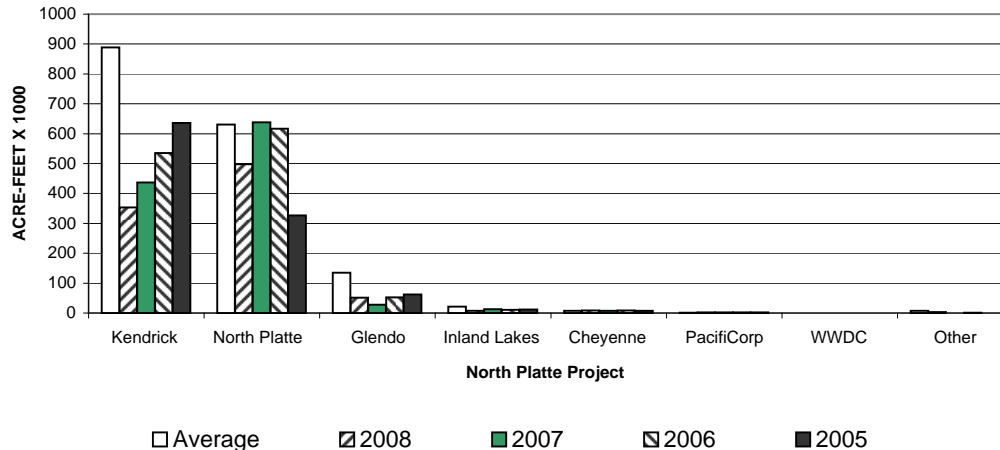
Kendrick ownership was the lowest for the end of March in the last 30 years.
 Glendo ownership at the end of March was the third lowest in the last 30 years.

(1000 acre-feet)

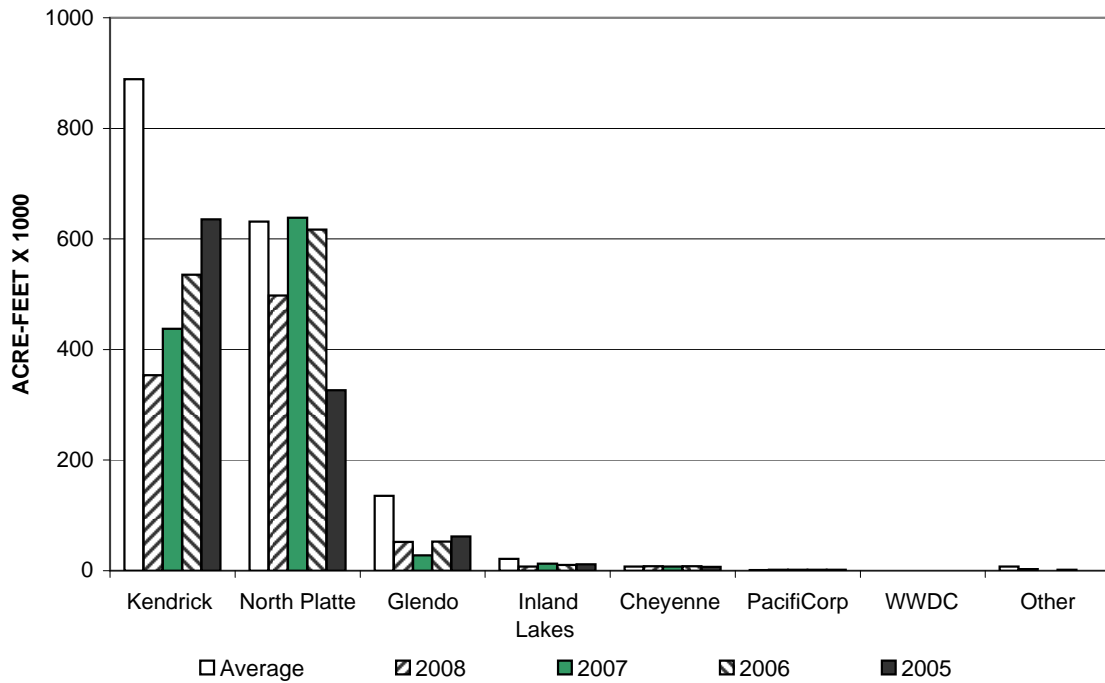
Ownership	Ownership of water End of March			End of March Historical Ownership			Total Storage Capacity	Percent of Capacity
	W. Yr. 2008	30 Yr. Avg. ⁵	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005		
Kendrick	353.8	888.7	40	437.3	535.3	635.6	1201.7	29
North Platte ¹	497.7	631.1	79	638.1	617.0	326.3	1062.1	47
Glendo	51.8	135.2	38	27.5	52.6	62.1	183.2	28
Inland Lakes ²	7.7	21.6	36	12.6	10.7	11.8	46.0	17
Cheyenne ³	8.1	7.5 ⁶	108	7.6	8.3	7.2	10.0	81
PacifiCorp ⁴	1.9	1.4	136	2.0	2.0	2.0	2.0	95
WWDC ⁸	0.0	N/A	N/A	0.0	0.0	0.0	N/A	N/A
Other ⁷	3.1	7.5	41	0.0	1.6	0.0	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 Pacific Power has a storage contract to store water in Glendo Reservoir for Dave Johnston Powerplant.
- 5 Average is based on the 1978-2007 period.
- 6 Average is based on the 1982-2007 period.
- 7 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 2007 Natural Flow and Ownership Procedures, the operational account may contain up to 15,000 acre-feet. On March 31, 2008, the Operational account contained 3,116 Acre-feet and Re-Regulation space contained 0 Acre-feet.

Ownership of Water



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



INLAND LAKES RESERVOIR STORAGE

(acre-feet)

Reservoir	Total Storage End of March	30 Year Average ⁵	Percent of Average	Total Storage Capacity
Lake Alice	27	300	9	11,034 ¹
Little Lake Alice	22	47 ⁶	47	1,166 ²
Lake Winters Creek	326	485 ⁶	67	1,746 ³
Lake Minatare	16,341	27,800	59	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. (1978-2007)

6 17 year average. (1991-2007)

NORTH PLATTE RIVER BASIN GROSS GENERATION

Power generation was below average for all powerplants in the North Platte Basin.

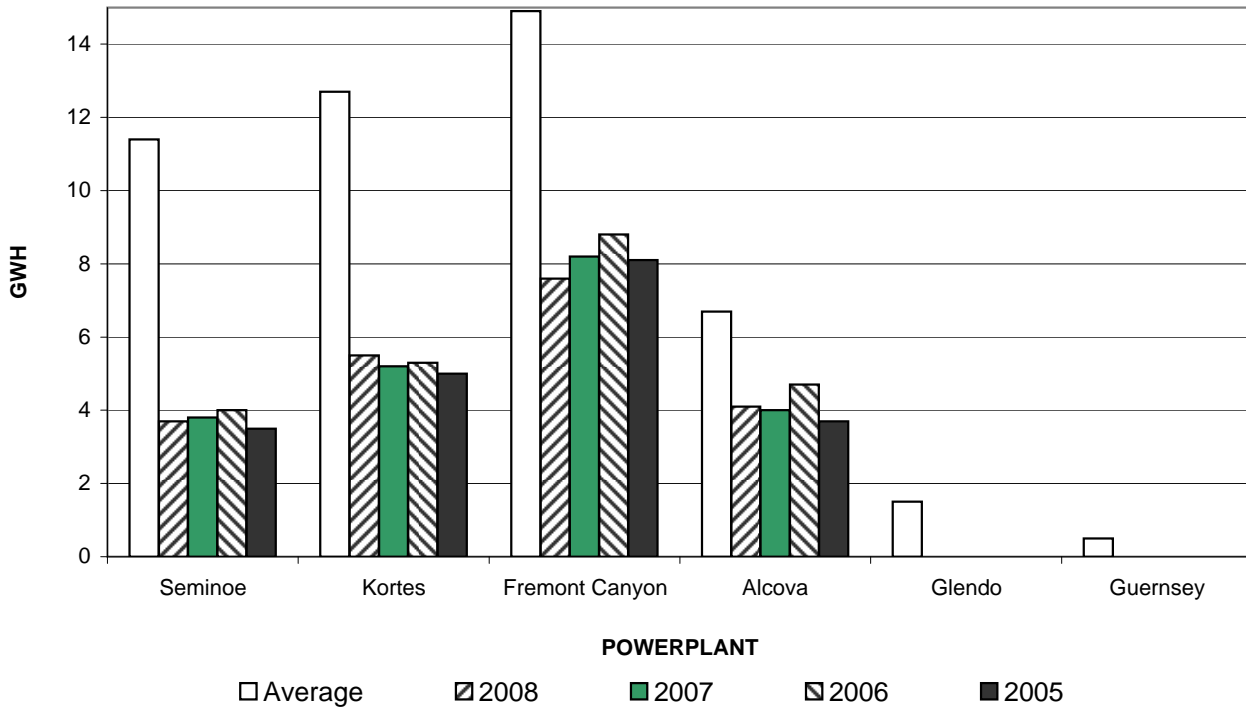
(Energy in giga-watt hours)

Powerplant	March Gross Generation			Marchy Historical Generation			Accumulated Gross Gen. (October - January)		
	W. Yr. 2008	30 Yr. Avg. ²	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005	W. Yr. 2008	30 Yr. Avg. ²	% of Avg.
Seminoe	3.7	11.4	32	3.8	4.0	3.5	22.3	55.4	40
Kortes	5.5	12.7	43	5.2	5.3	5.0	32.6	61.0	53
Fremont Canyon ¹	7.6	14.9	51	8.2	8.8	8.1	30.7	66.2	46
Alcova	4.1	6.7	61	4.0	4.7	3.7	20.1	33.2	61
Glendo	0.0	1.5	0	0.0	0.0	0.0	0.0	1.8	0
Guernsey	0.0	0.5	0	0.0	0.0	0.0	0.0	1.0	0

1 The powerplant for Pathfinder Dam is Fremont Canyon.

2 Average is based on the 1978-2007 period.

NORTH PLATTE RIVER BASIN GROSS GENERATION March



NORTH PLATTE ESTIMATED APRIL-JULY RUNOFF

The April 1, 2008, water supply forecast indicates near or below average April - July runoff can be expected as shown below.

(1000 acre-feet)

Forecast Points	April 1, 2008 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. 2007	W. Yr. 2006	W. Yr. 2005	W. Yr. 2004
Seminole Reservoir	1000	750	500	704	107	425	546	733	277
Sweetwater River Above Pathfinder Reservoir	70	50	30	62	81	24	32	66	34
Alcova to Glendo	140	100	60	121	83	102	45	39	34

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 1978-2007 period.

(1000 acre-feet)

Forecast Points	April 1, 2008 Forecast of April-July Runoff						30 Yr. April-July Runoff Avg. ¹
	Chance of Exceeding						
	95%	75%	50%	% of Avg	25%	5%	
Seminole Reservoir	500	648	750	107	852	1000	704
Sweetwater River Above Pathfinder Reservoir	30	42	50	81	58	70	62
Alcova to Glendo Gain	60	84	100	83	116	140	121

¹ Average is based on the 1978-2007 period.

NORTH PLATTE SNOWPACK WATER CONTENT

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

SWE in inches ¹

WATERSHED	April 1, 2008 snow-water content			Comparative April 1 snow-water content		
	W. Yr. 2008	30 Yr. Avg. ²	% of Avg.	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005
Seminole Reservoir	21.8	21.4	102	14.9	16.7	12.1
Pathfinder Reservoir	11.1	14.5	76	7.7	9.6	11.5
Glendo Reservoir	11.3	12.0	94	8.3	7.8	4.9

Seminole Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content	30 Yr. Avg. ²
Cameron Pass (10,300) ³	28.0	27.2
Columbine Lodge(9,300) ³	26.7	25.0
Park View (9,200) ³	9.2	9.3
Brooklyn (10,200) ⁴	21.5	23.9
Fox Park (9,060) ³	7.9	7.6
North Barrett (9,400) ³	21.6	21.5
North French (10,130) ⁴	31.2	29.5
Old Battle (9,800) ⁴	33.8	32.4
Ryan Park (8,400) ³	11.4	10.8
Webber Springs (9,250) ⁴	26.6	26.4
Watershed Average	21.8	21.4

Pathfinder Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content	30 Yr. Avg. ²
South Pass (9,040) ⁴	14.7	16.7
Grannier Meadows (8,860) ³	11.1	14.1
Larsen Creek (9,020) ³	7.4	12.7
Watershed Average	11.1	14.5

Glendo Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content	30 Yr. Avg. ²
Casper (7,900) ⁴	14.4	14.6
Laprele Creek (8,375) ⁴	8.4	11.0
Reno Hill (8,500) ⁴	13.9	14.3
Windy Peak (7,900) ⁴	8.6	8.1
Watershed Average	11.3	12.0

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

² Average is based on the 1971-2000 period

³ Represents a Natural Resources Conservation Service (NRCS) Snow Course Site.

⁴ Represents a NRCS Snowpack Telemetry Network (SNOTEL) Site.