

February 1, 2009
WATER SUPPLY AND UTILIZATION REPORT 1
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

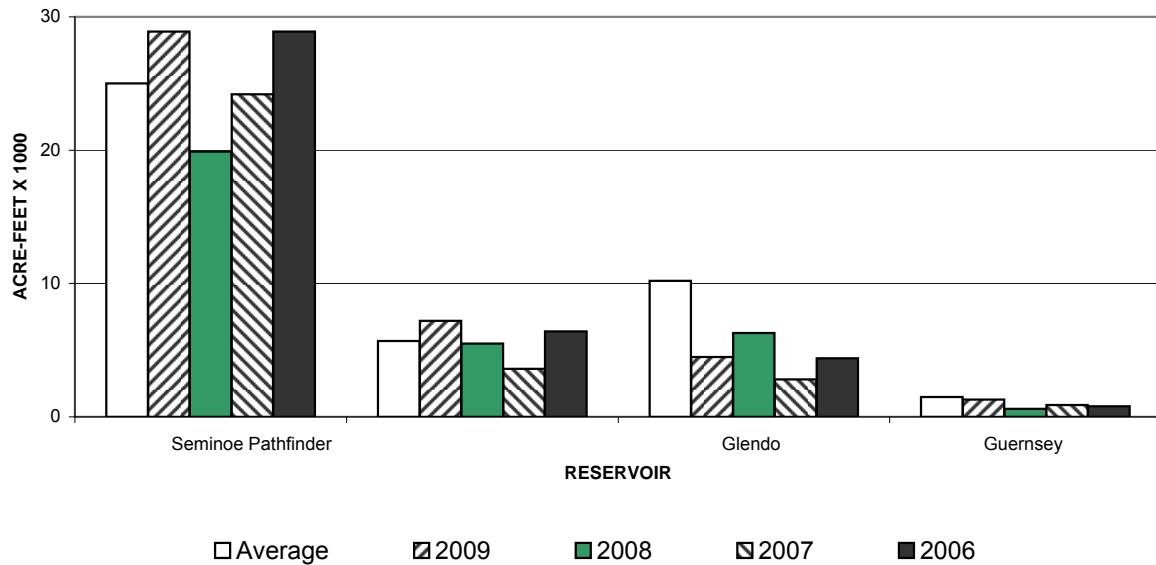
The January inflow was above average for Seminoe and Pathfinder Reservoirs.

(1000 acre-feet)

Reservoir	January Inflow			January Historical Inflow			Accumulated Inflow (October - January)		
	W. Yr. 2009	30 Yr. Avg. ⁵	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	30 Yr. Avg. ⁵	% of Avg.
Seminoe	28.9	25.0	116	19.9	24.2	28.9	111.1	110.2	101
Pathfinder ^{1,2}	7.2	5.7	126	5.5	3.6	6.4	31.5	20.4	154
Glendo ³	4.5	10.2	44	6.3	2.8	4.4	8.4	41.5	20
Guernsey ⁴	1.3	1.5	87	0.6	0.9	0.8	4.8	7.1	68

- 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. (1979-2008)

**NORTH PLATTE RIVER BASIN
RESERVOIR INFLOW
January**



NORTH PLATTE RIVER BASIN OUTFLOW

The January outflow for Glendo Reservoir was above average.

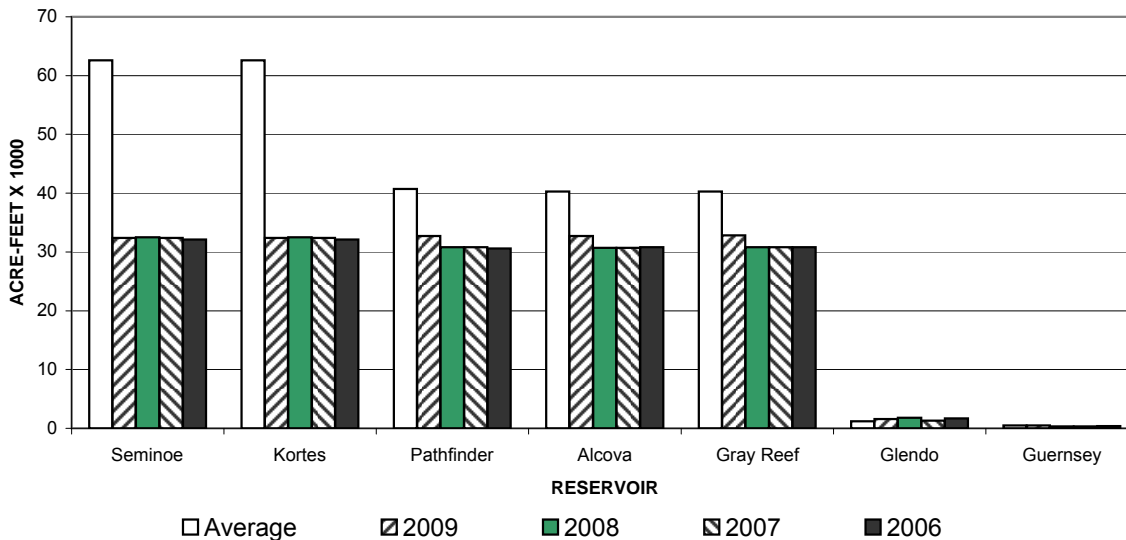
(1000 acre-feet)

Reservoir	January Outflow			January Historical Outflow			Accumulated Outflow (October - January)		
	W. Yr. 2009	30 Yr. Avg. ²	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	30 Yr. Avg. ²	% of Avg.
Seminole	32.4	62.6	52	32.5	32.4	32.1	130.8	220.0	59
Kortes	32.4	62.6	52	32.5	32.4	32.1	130.8	219.9	59
Pathfinder	32.7	40.7	80	30.8	30.8	30.6	110.0	153.9	71
Alcova	32.7	40.3	81	30.7	30.7	30.8	133.2	176.6	75
Gray Reef	32.8	40.3	81	30.8	30.8	30.8	133.3	176.5	76
Glendo ¹	1.6	1.2	133	1.8	1.3	1.7	7.0	10.0	70
Guernsey	0.5	0.5	100	0.3	0.3	0.4	1.2	13.4	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, 15 year average (1994-2008).

2 30 year average (1979-2008).

NORTH PLATTE RIVER BASIN RESERVOIR OUTFLOW January



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE

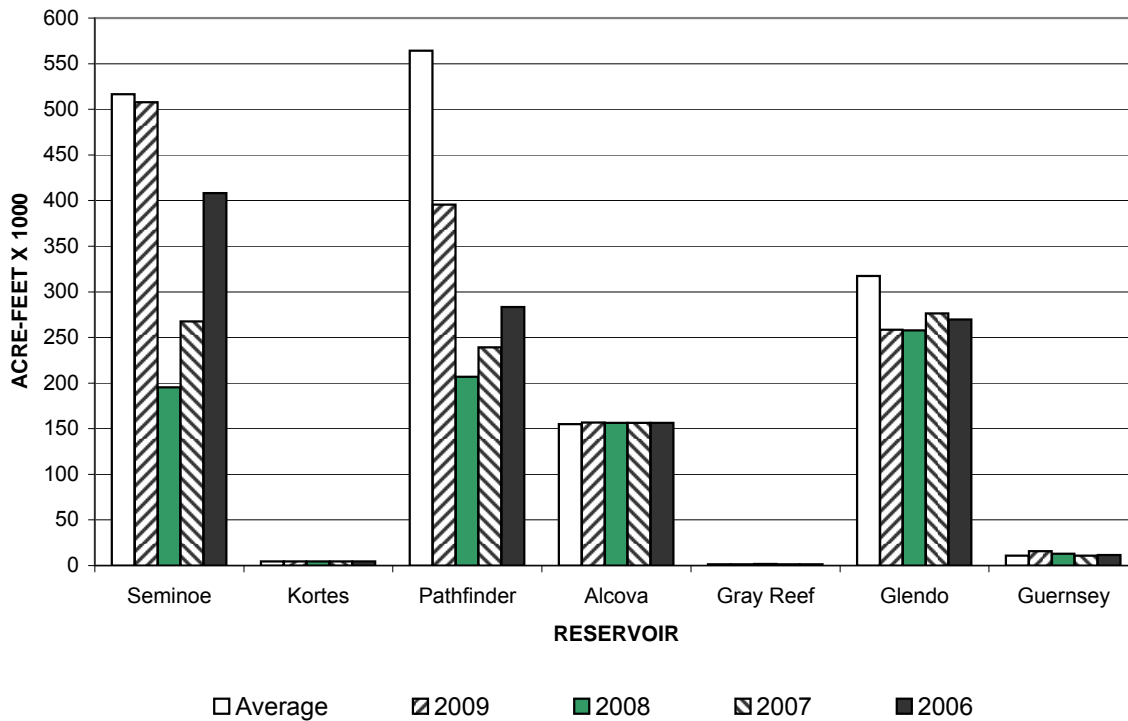
The January storage for the major reservoirs; Seminole and Pathfinder were below average.

(1000 acre-feet)

Reservoir	Total Storage End of January			End of January Historical Storage			Total Conservation Storage Capacity	Percent of Capacity
	W. Yr. 2009	30 Yr. Avg. ¹	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006		
Seminole	507.8	516.6	98	195.4	267.7	408.1	1017.3	50
Kortes	4.7	4.6	102	4.7	4.7	4.7	4.7	100
Pathfinder	395.4	564.2	70	206.8	239.1	283.4	1016.5	39
Alcova	156.6	155.1	101	156.4	156.3	156.3	184.4	85
Gray Reef	1.5	1.4	107	1.6	1.5	1.5	1.8	83
Glendo	258.5	317.4	81	257.6	276.5	269.6	517.5	50
Guernsey	15.7	10.7	147	12.8	10.9	11.6	45.6	34
Total	1340.2	1570.0	85	835.3	956.7	1135.2	2787.8	48

¹ Average is based on the 1979-2008 period.

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



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE OWNERSHIP

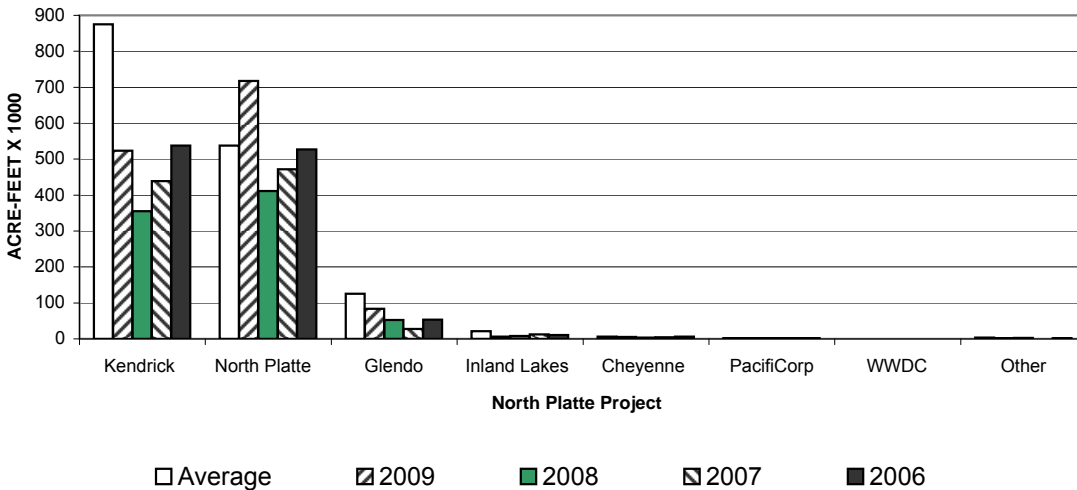
North Platte Ownership was above average for January.
 Kendrick Ownership at the end of January was the 5th lowest in the last 30 years.

(1000 acre-feet)

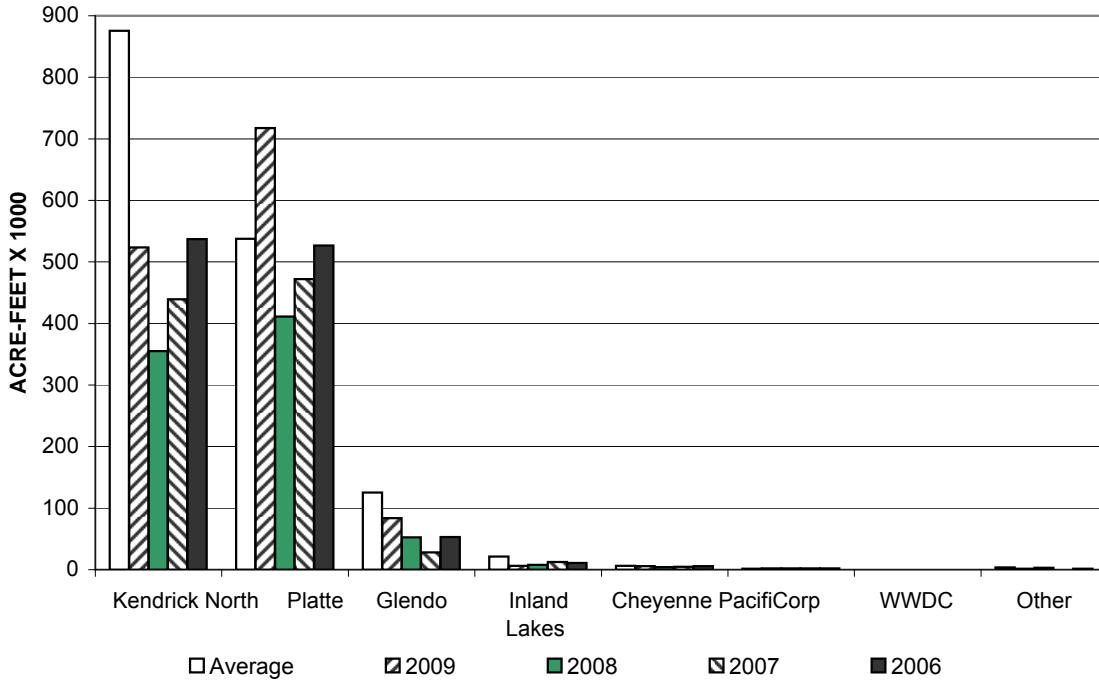
Ownership	Ownership of water End of January			End of January Historical Ownership			Total Storage Capacity	Percent of Capacity
	W. Yr. 2009	30 Yr. Avg. ⁵	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006		
Kendrick	523.7	875.5	60	354.9	439.1	537.3	1201.7	44
North Platte ¹	717.7	537.4	134	411.2	472.1	526.7	1062.1	68
Glendo	83.6	125.3	67	52.4	28.0	53.0	183.2	46
Inland Lakes ²	6.0	21.2	28	7.7	12.6	10.7	46.0	13
Cheyenne ³	5.7	6.1 ⁶	93	4.0	4.7	5.8	10.0	57
PacifiCorp ⁴	2.0	1.5	133	2.0	2.0	2.0	2.0	100
WWDC ⁸	0.0	N/A	N/A	0.0	0.0	0.0	N/A	N/A
Other ⁷	1.5	3.6	42	3.1	0.0	1.7	N/A	N/A

- This includes North Platte Guernsey and North Platte Pathfinder.
- 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.
- 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.
- PacifiCorp has a storage contract to store water in Glendo Reservoir for Dave Johnston Powerplant.
- Average is based on the 1979-2008 period.
- Average is based on the 1982-2008 period.
- 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 2008 Natural Flow and Ownership Procedures, the operational account may contain up to 15,000 acre-feet. On January 31, 2008, the Operational account contained 1,520 Acre-feet, the Re-Regulation space contained 0 Acre-feet.
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Ownership of Water



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



INLAND LAKES RESERVOIR STORAGE

(acre-feet)

Reservoir	Total Storage End of January	30 Year Average ⁵	Percent of Average	Total Storage Capacity
Lake Alice	392	400	98	11,034 ¹
Little Lake Alice	35	83 ⁶	42	1,166 ²
Lake Winters Creek	391	573 ⁶	68	1,746 ³
Lake Minatare	35,480	28,400	125	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. (1979-2008)

6 18 year average. (1991-2008)

NORTH PLATTE RIVER BASIN GROSS GENERATION

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

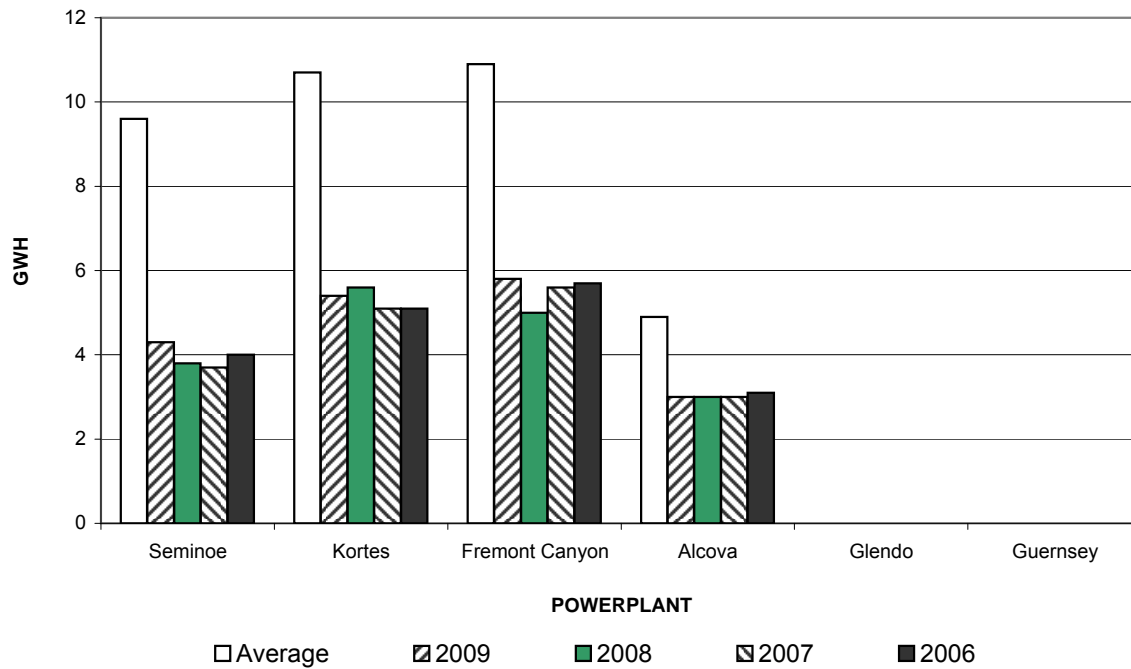
(Energy in giga-watt hours)

Powerplant	January Gross Generation			January Historical Generation			Accumulated Gross Gen. (October - January)		
	W. Yr. 2009	30 Yr. Avg. ²	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	30 Yr. Avg. ²	% of Avg.
Seminole	4.3	9.6	45	3.8	3.7	4.0	17.8	33.8	53
Kortes	5.4	10.7	50	5.6	5.1	5.1	21.5	36.8	58
Fremont Canyon ¹	5.8	10.9	53	5.0	5.6	5.7	17.7	40.5	44
Alcova	3.0	4.9	61	3.0	3.0	3.1	11.5	21.3	54
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	0.5	0

1 The powerplant for Pathfinder Dam is Fremont Canyon.

2 Average is based on the 1979-2008 period.

**NORTH PLATTE RIVER BASIN
GROSS GENERATION
January**



NORTH PLATTE ESTIMATED MAY-JULY RUNOFF

The February 1, 2009, water supply forecast indicates above average April - July runoff for Seminoe Reservoir and below average for the rest of the system. The forecast for the North Platte River system is shown in the two tables below.

(1000 acre-feet)

Forecast Points	February 1, 2009 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. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2005
Seminoe Reservoir	950	750	550	704	107	956	425	546	733
Sweetwater River Above Pathfinder Reservoir	70	40	20	61	66	52	24	32	66
Alcova to Glendo	130	85	40	122	70	209	102	45	39

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 1979-2008 period.

(1000 acre-feet)

Forecast Points	February 1, 2009 Forecast of April-July Runoff						30 Yr. April-July Runoff Avg. ¹
	Chance of Exceeding						
	95%	75%	50%	% of Avg	25%	5%	
Seminoe Reservoir	550	668	750	107	832	950	704
Sweetwater River Above Pathfinder Reservoir	20	32	40	66	52	70	61
Alcova to Glendo Gain	40	67	85	70	103	130	122

¹ Average is based on the 1979-2008 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	February 1, 2009 snow-water content			Comparative February 1 snow-water content		
	W. Yr. 2009	30 Yr. Avg. ²	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006
Seminole Reservoir	14.3	13.3	108	22.8	11.0	16.7
Pathfinder Reservoir	5.9	9.6	61	11.6	5.9	9.6
Glendo Reservoir	5.9	7.3	80	10.8	6.5	7.8

Seminole Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content	30 Yr. Avg. ²
Cameron Pass (10,300) ³	19.5	16.8
Columbine Lodge(9,300) ³	15.5	15.3
Park View (9,200) ³	6.1	5.9
Brooklyn (10,200) ⁴	14.4	15.3
Fox Park (9,060) ³	4.9	4.9
North Barrett (9,400) ³	15.0	12.8
North French (10,130) ⁴	21.5	18.4
Old Battle (9,800) ⁴	20.9	20.0
Ryan Park (8,400) ³	9.8	7.4
Webber Springs (9,250) ⁴	15.8	16.1
Watershed Average	14.3	13.3

Pathfinder Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content	30 Yr. Avg. ²
South Pass (9,040) ⁴	7.0	11.4
Grannier Meadows (8,860) ³	6.1	9.1
Larsen Creek (9,020) ³	4.5	8.4
Watershed Average	5.9	9.6

Glendo Reservoir Watershed

SWE in inches ¹

Stations (Elevation)	Water Content	30 Yr. Avg. ²
Casper (7,900) ⁴	5.9	9.0
Laprele Creek (8,375) ⁴	5.3	7.3
Reno Hill (8,500) ⁴	7.1	8.4
Windy Peak (7,900) ⁴	5.1	4.5
Watershed Average	5.9	7.3

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.