

March 1, 2009
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 February inflow was above average for Seminoe and Guernsey Reservoirs.

(1000 acre-feet)

Reservoir	February Inflow			February Historical Inflow			Accumulated Inflow (October - February)		
	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	30.3	27.0	112	22.7	27.4	22.8	141.4	137.2	103
Pathfinder ^{1,2}	5.3	6.3	84	3.2	5.4	6.3	36.8	26.7	138
Glendo ³	11.9	13.3	89	9.1	9.2	4.5	20.3	54.8	37
Guernsey ⁴	1.5	1.2	125	0.3	0.8	0.2	6.3	8.3	76

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

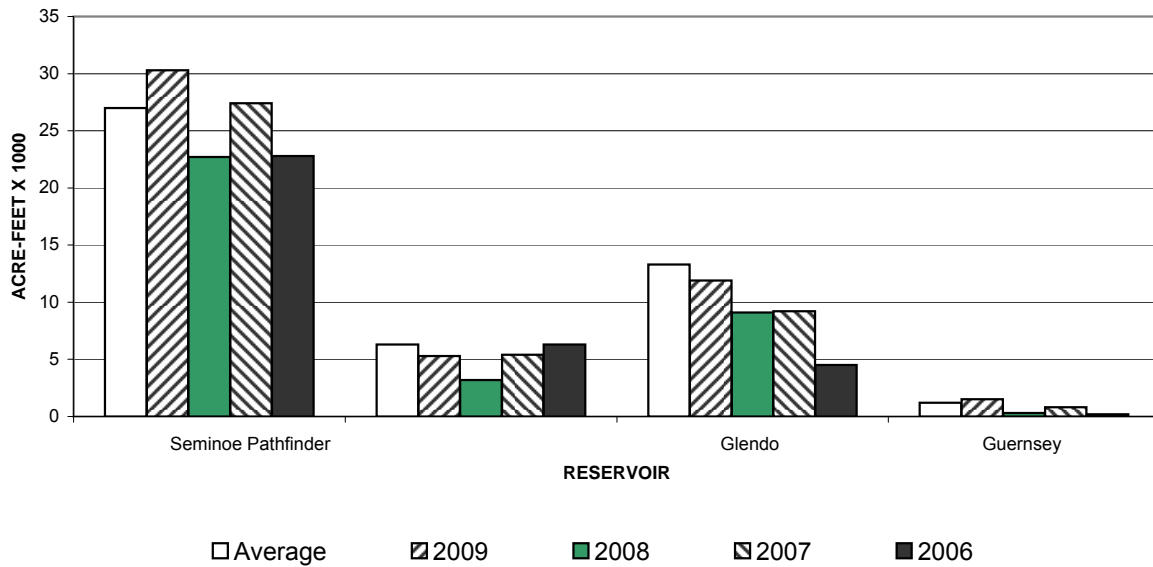
2 River gain between Kortes and Pathfinder Dams.

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
February**



NORTH PLATTE RIVER BASIN OUTFLOW

The February outflow was below average.

(1000 acre-feet)

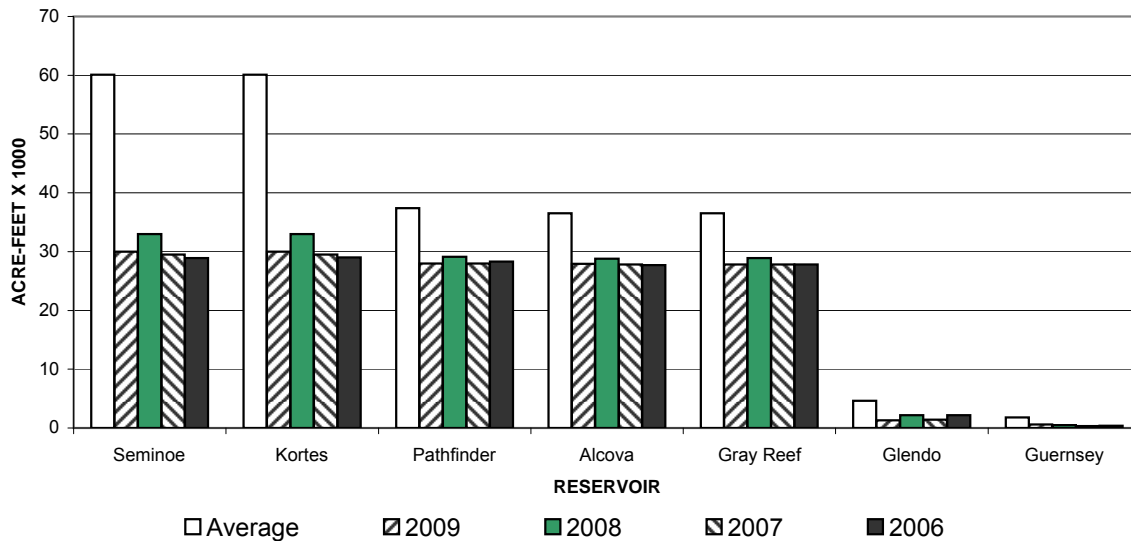
Reservoir	February Outflow			February Historical Outflow			Accumulated Outflow (October - February)		
	W. Yr. 2009	30 Yr. Avg. ²	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006	W. Yr. 2009	30 Yr. Avg. ²	% of Avg.
Seminoe	30.0	60.1	50	33.0	29.5	28.9	160.8	280.1	57
Kortes	30.0	60.1	50	33.0	29.5	29.0	160.8	280.0	57
Pathfinder	28.0	37.4	75	29.1	28.0	28.3	138.0	191.3	72
Alcova	27.9	36.5	76	28.8	27.8	27.7	161.1	213.1	76
Gray Reef	27.8	36.5	76	28.9	27.8	27.8	161.1	213.0	76
Glendo ¹	1.3	4.6	28	2.2	1.4	2.2	8.3	14.6	57
Guernsey	0.6	1.8	33	0.5	0.3	0.4	1.8	15.2	12

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

February



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE

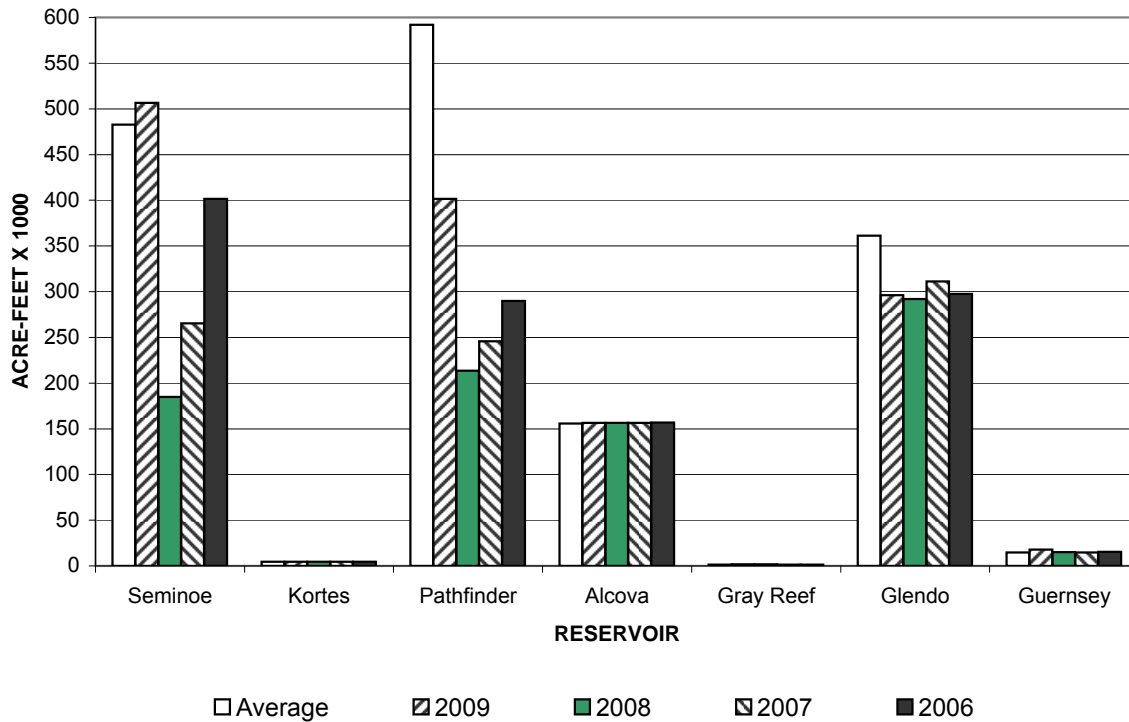
The February storage for Seminole reservoir was above average.

(1000 acre-feet)

Reservoir	Total Storage End of February			End of February 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	506.7	482.7	105	184.9	265.2	401.5	1017.3	50
Kortes	4.7	4.7	100	4.7	4.7	4.7	4.7	100
Pathfinder	401.5	592.1	68	213.7	245.6	290.0	1016.5	39
Alcova	156.5	155.7	101	156.6	156.4	156.7	184.4	85
Gray Reef	1.6	1.4	114	1.6	1.5	1.5	1.8	89
Glendo	296.3	361.3	82	292.0	311.3	297.7	517.5	57
Guernsey	17.8	14.6	122	14.9	14.6	15.4	45.6	39
Total	1385.1	1612.5	86	868.4	999.3	1167.5	2787.8	50

¹ Average is based on the 1979-2008 period.

NORTH PLATTE RIVER BASIN RESERVOIR STORAGE End of February



NORTH PLATTE RIVER BASIN RESERVOIR STORAGE OWNERSHIP

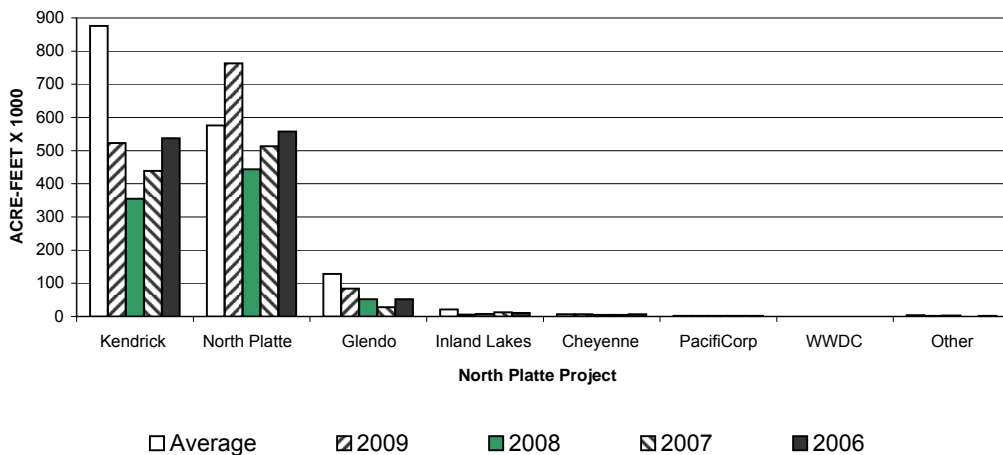
North Platte Ownership was above average for February.
Kendrick Ownership at the end of February was the 5th lowest in the last 30 years.

(1000 acre-feet)

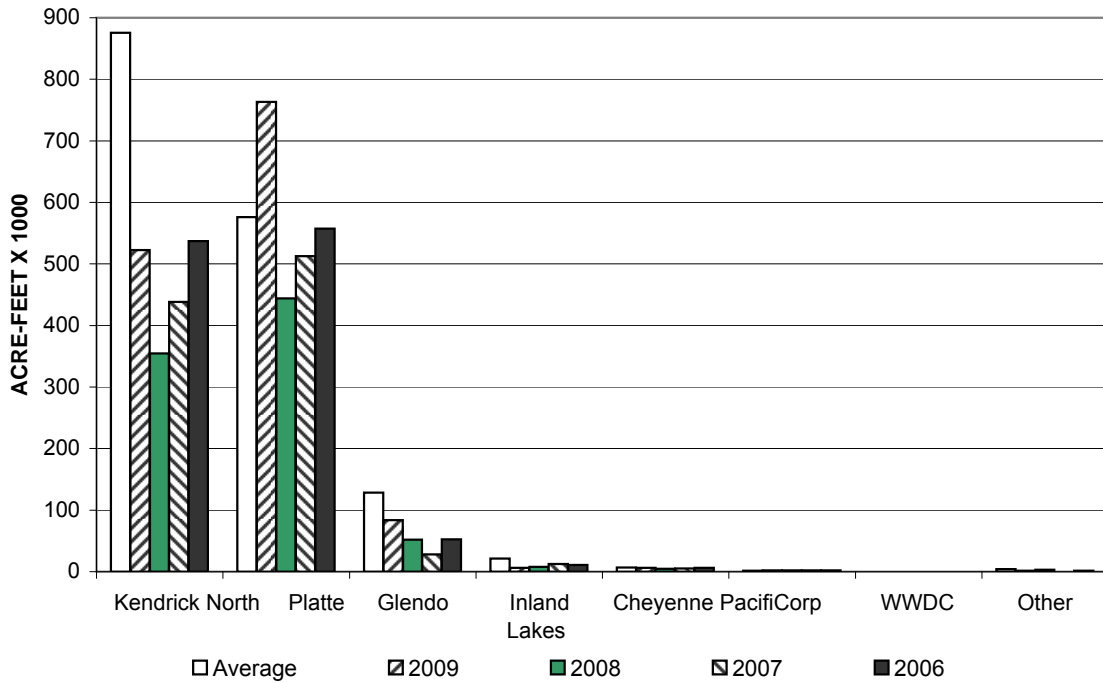
Ownership	Ownership of water End of February			End of February Historical Ownership			Total Storage Capacity	Percent of Capacity
	W. Yr. 2009	30 Yr. Avg. ⁵	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006		
Kendrick	522.4	875.5	60	354.6	438.5	536.9	1201.7	43
North Platte ¹	763.4	576.0	133	444.2	512.9	557.5	1062.1	72
Glendo	83.6	128.3	65	52.1	27.9	52.5	183.2	46
Inland Lakes ²	6.0	21.2	28	7.7	12.6	10.7	46.0	13
Cheyenne ³	6.3	6.7 ⁶	94	4.6	5.2	6.3	10.0	63
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	3.9	38	3.1	0.0	1.7	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 1979-2008 period.
- 6 Average is based on the 1982-2008 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 2008 Natural Flow and Ownership Procedures, the operational account may contain up to 15,000 acre-feet. On February 28, 2009, the Operational account contained 1,518 Acre-feet, the Re-Regulation space contained 0 Acre-feet.

Ownership of Water



**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	392	300	131	11,034 ¹
Little Lake Alice	35	63 ⁶	56	1,166 ²
Lake Winters Creek	392	547 ⁶	72	1,746 ³
Lake Minatare	35,079	28,100	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.

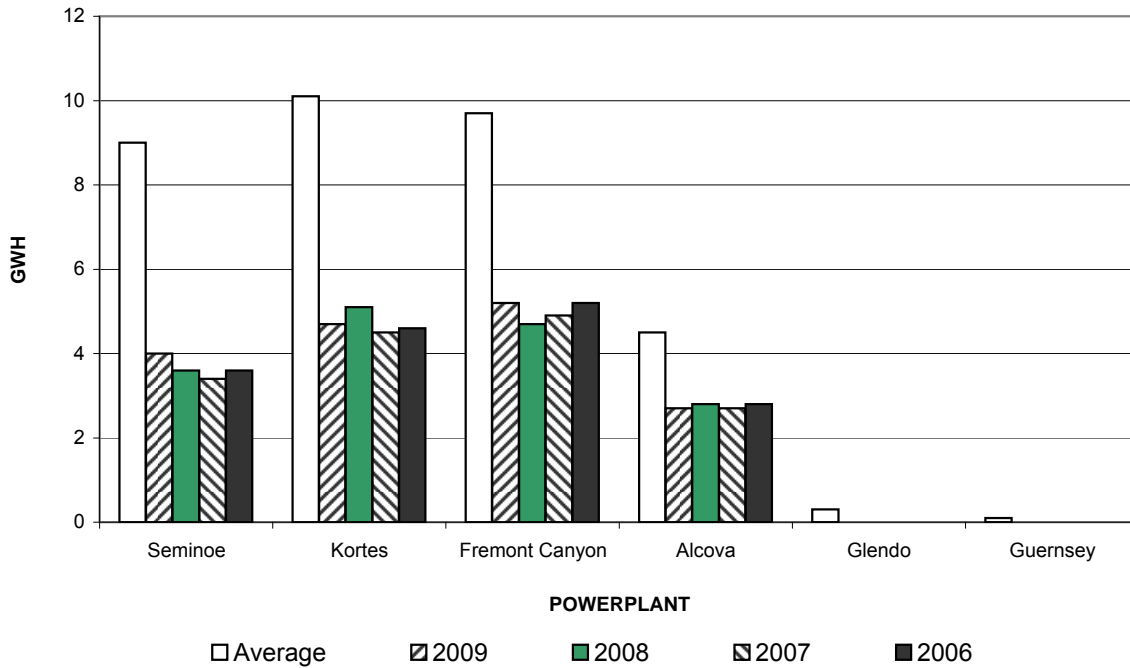
(Energy in giga-watt hours)

Powerplant	February Gross Generation			February Historical Generation			Accumulated Gross Gen. (October - February)		
	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	4.0	9.0	44	3.6	3.4	3.6	21.8	42.8	51
Kortes	4.7	10.1	47	5.1	4.5	4.6	26.2	46.9	56
Fremont Canyon ¹	5.2	9.7	54	4.7	4.9	5.2	22.9	50.2	46
Alcova	2.7	4.5	60	2.8	2.7	2.8	14.2	25.8	55
Glendo	0.0	0.3	0	0.0	0.0	0.0	0.0	0.6	0
Guernsey	0.0	0.1	0	0.0	0.0	0.0	0.0	0.6	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
February**



NORTH PLATTE ESTIMATED MAY-JULY RUNOFF

The March 1, 2009, water supply forecast indicates 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	March 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	700	500	704	99	956	425	546	733
Sweetwater River Above Pathfinder Reservoir	65	25	15	61	41	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	March 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	500	618	700	99	802	950	704
Sweetwater River Above Pathfinder Reservoir	15	21	25	41	41	65	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 inches¹

WATERSHED	March 1, 2009 snow-water content			Comparative March 1 snow-water content		
	W. Yr. 2009	30 Yr. Avg. ²	% of Avg.	W. Yr. 2008	W. Yr. 2007	W. Yr. 2006
Seminole Reservoir	18.3	17.4	105	18.7	14.9	16.7
Pathfinder Reservoir	6.6	12.2	54	9.9	7.7	9.6
Glendo Reservoir	7.9	9.2	86	7.9	8.3	7.8

Seminole Reservoir Watershed

SWE in inches¹

Stations (Elevation)	Water Content	30 Yr. Avg. ²
Cameron Pass (10,300) ³	23.0	21.5
Columbine Lodge(9,300) ³	20.4	21.9
Park View (9,200) ³	7.7	7.8
Brooklyn (10,200) ⁴	18.5	19.0
Fox Park (9,060) ³	6.9	6.3
North Barrett (9,400) ³	19.4	17.5
North French (10,130) ⁴	28.3	22.7
Old Battle (9,800) ⁴	27.0	26.3
Ryan Park (8,400) ³	11.0	9.9
Webber Springs (9,250) ⁴	20.6	21.3
Watershed Average	18.3	17.4

Pathfinder Reservoir Watershed

SWE in inches¹

Stations (Elevation)	Water Content	30 Yr. Avg. ²
South Pass (9,040) ⁴	8.3	14.0
Grannier Meadows (8,860) ³	6.5 ⁵	11.7
Larsen Creek (9,020) ³	4.9	11.0
Watershed Average	6.6	12.2

Glendo Reservoir Watershed

SWE in inches¹

Stations (Elevation)	Water Content	30 Yr. Avg. ²
Casper (7,900) ⁴	8.3	11.3
Laprele Creek (8,375) ⁴	7.6	8.9
Reno Hill (8,500) ⁴	9.0	10.4
Windy Peak (7,900) ⁴	6.7	6.0
Watershed Average	7.9	9.2

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.

⁵ Shown as estimate by NRCS on March 5, 2009.