

Town of Star Valley Ranch
Water Status Report
 January, 2007

2008 No. 2

February 4, 2008

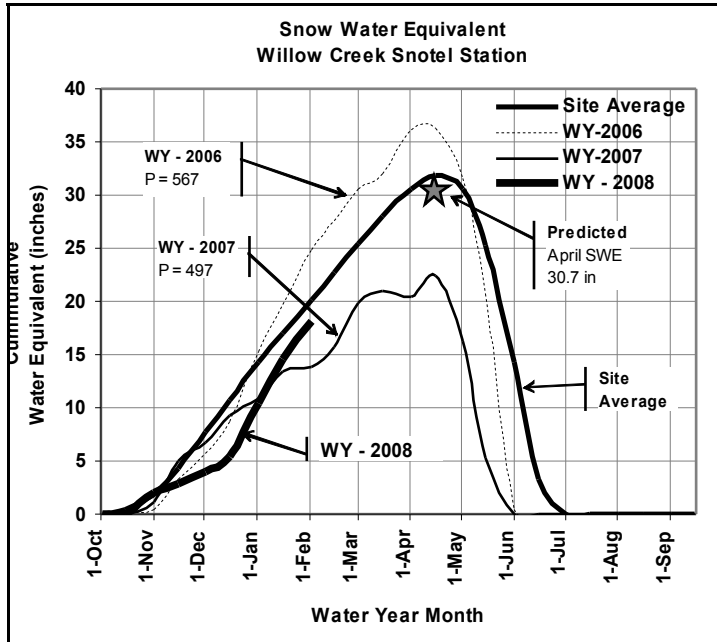


Figure 1. Accumulation of snow water equivalent for this water year (2008) compared to previous water years for the Willow Creek Snotel Station at 8380 feet southeast of Bedford, WY.

January

These snow reports for the winter of 2008 present the snow water equivalent, which is the amount of water released from the snow upon melting, at the Willow Creek Snotel station (see "Water Status Reports" below)

The dry winter is becoming wetter with an additional 8 inches of water added to the snow pack this month for a total snow water equivalent (SWE) on February 1 of 90% of average. It looks as if the 2008 water year will surpass last year but if the predicted SWE in mid-April (the peak accumulation) remains near 30 inches, 2008 will still be a drier than average year. Snow fall must remain this heavy during February and March for 2008 to become an average year. Last year the snow fall leveled off in March to make 2007 one of the driest years in the 25 year snotel record at Willow Creek.

Date	Water Year Snow Water Equivalent (inches)				Site Av.
	Site Av.	2005-06	2006-07	2007-08	
1-Oct	0.0	0.0	0.0	0.0	0%
15-Oct	0.4	0.1	0.0	0.0	0%
1-Nov	1.9	0.5	1.2	2.0	105%
15-Nov	4.3	3.3	5	2.9	67%
1-Dec	7.7	5.7	6.7	4.0	52%
15-Dec	10.7	8.7	9.3	5.5	51%
1-Jan	14.3	15.3	10.9	10.5	73%
15-Jan	17	19.7	13.4	14.6	86%
1-Feb	20.2	24.9	13.8	18.1	90%
15-Feb	22.7	27.6	15.7		
1-Mar	25.4	30.6	19.9		
15-Mar	28	32	21.2		
1-Apr	30.6	36.1	20.4		
15-Apr	31.9	36.3	0.0		
1-May	30.6	31.6	0.0		
15-May	25.3	20.7	0.0		
1-Jun	14.3	0.5	0.0		
15-Jun	3.3	0.0	0.0		
1-Jul	0	0	0	0%	0%

Water Status Reports

This water status report is based on snow moisture data from the automated Willow Creek Snotel station located at an elevation of 8380 feet in the Salt River Range near Bedford. Snow depth, air temperature, water stored in snow (snow water equivalent - SWE), and precipitation are measured hourly and reported here for the 1st and 15th of each month. Special Report No. 1 (December, 2006) describes methods to interpret the SWE data presented here.

About the Graph

The graph shows the monthly snow water equivalent for various water years (WY). A WY begins in October (the month with the lowest stream flow) of one calendar and continues to September of the following calendar year; it is named for the second calendar year. The **Site Average line** shows the average monthly SWE for the site since 1982. The **heavy black line** is the measured SWE for the current water year (WY-2008). The **WY-2006** and **2007** lines show the data for the last two water years. The **callouts** present the June discharge in gallons per minute (gpm) as measured at Prater Spring in 2006 and 2007.