

United States  
 Department of  
 Agriculture

Natural Resources  
 Conservation  
 Service

National Water and  
 Climate Center  
 Portland, Oregon

WEEKLY SNOTEL SNOWPACK AND PRECIPITATION REPORT  
 As of Monday, June 21, 2010

The unusually cool wet weather across much of the northern tier of western states is creating unusually high percent of average snowpack numbers for many basins. Please visit state SNOTEL site web pages for a realistic view of the basin snowpack. Late season rains have also caused flooding or high runoff conditions in several basins. Most reservoirs across the West are nearing capacity for the year after catching the snowmelt runoff, and the unusual heavy late spring rains have created a few difficult water management situations.

The National Water and Climate Center creates and transmits the weekly Western US Basin snowpack and cumulative precipitation report every Monday. This report is based on an analysis of data collected at over 680 NRCS SNOTEL sites in the Western United States. A narrative description of significant changes and events will be included in this report as conditions warrant. Please contact one of the names below if you have any questions or comments.

WEEKLY SNOTEL SNOWPACK AND PRECIPITATION REPORT  
 As of Monday, June 21, 2010

STATE RIVER BASIN	Number of Sites	PERCENT OF AVERAGE Snow Water Equivalent	Accum Precip
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ALASKA			
ANCHORAGE/SHIP CREEK BASIN .....	4 of 4	0*	102
SUSITNA BASIN .....	4 of 6	*	72
NORTHERN KENAI MOUNTAINS .....	6 of 6	220*	116
SOUTHERN KENAI .....	3 of 6	*	91
COPPER BASIN .....	3 of 4	*	92
PRINCE WILLIAM SOUND .....	0 of 6	*	108
CHENA BASIN .....	6 of 6	*	66
UPPER TANANA .....	2 of 3	*	117
KOYUKUK BASIN .....	1 of 3	*	65
CENTRAL YUKON BASIN .....	0 of 3	*	63
SEWARD PENINSULA .....	0 of 2	*	80
KUPARUK RIVER BASIN .....	0 of 1	*	87
SOUTHEAST ALASKA BASIN .....	0 of 1	*	*
ARIZONA			
VERDE RIVER BASIN .....	5 of 7	*	118
SAN FRANCISCO PEAKS .....	0 of 1	*	69
CENTRAL MOGOLLON RIM .....	3 of 3	*	114
LITTLE COLORADO - SOUTHERN HEADWATERS .....	5 of 5	*	115
UPPER SALT RIVER BASIN / WHITE MOUNTAINS .....	6 of 7	*	102
SAN FRANCISCO RIVER BASIN .....	5 of 5	*	98
UPPER GILA RIVER BASIN .....	3 of 3	*	108
CALIFORNIA			
NORTHERN GREAT BASIN .....	3 of 4	39*	93

TRUCKEE RIVER .....	8 of 8	66*	99
LAKE TAHOE .....	8 of 8	0*	99
CARSON RIVER .....	5 of 9	63*	100
WALKER RIVER .....	5 of 6	117*	107
KLAMATH .....	8 of 10	800*	84
COLORADO			
GUNNISON RIVER BASIN .....	10 of 15	19*	95
UPPER COLORADO RIVER BASIN .....	26 of 30	12*	92
SOUTH PLATTE RIVER BASIN .....	13 of 17	62*	94
LARAMIE AND NORTH PLATTE RIVER BASINS .....	12 of 13	47*	98
YAMPA AND WHITE RIVER BASINS .....	15 of 19	23*	95
ARKANSAS RIVER BASIN .....	4 of 9	*	*
UPPER RIO GRANDE BASIN .....	9 of 15	2*	*
SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASIN .....	14 of 16	6*	82
IDAHO			
NORTHERN PANHANDLE REGION .....	7 of 10	28*	94
SPOKANE RIVER BASIN .....	9 of 10	48*	85
CLEARWATER BASIN .....	14 of 16	41*	83
SALMON BASIN .....	22 of 22	99*	91
WEISER BASIN .....	3 of 4	*	106
PAYETTE BASIN .....	9 of 11	0*	91
BOISE BASIN .....	9 of 10	40*	92
BIG WOOD BASIN .....	9 of 9	55*	86
LITTLE WOOD BASIN .....	4 of 5	*	91
BIG LOST BASIN .....	4 of 5	*	90
LITTLE LOST, BIRCH BASINS .....	4 of 4	*	100
MEDICINE LODGE, BEAVER, CAMAS BASINS .....	4 of 4	*	93
HENRYS FORK, TETON BASINS .....	7 of 8	38*	83
SNAKE BASIN ABOVE PALISADES .....	16 of 18	74*	85
WILLOW, BLACKFOOT, PORTNEUF BASINS .....	6 of 6	*	89
SNAKE BASIN ABOVE AMERICAN FALLS .....	26 of 29	69*	85
OAKLEY BASIN .....	3 of 3	*	96
SALMON FALLS BASIN .....	5 of 5	*	98
BRUNEAU BASIN .....	5 of 5	*	100
OWYHEE BASIN .....	7 of 8	*	95
BEAR RIVER BASIN .....	15 of 15	4*	88
MONTANA			
KOOTENAI RIVER BASIN .....	8 of 8	72*	91
FLATHEAD RIVER BASIN .....	15 of 15	167*	97
UPPER CLARK FORK RIVER BASIN .....	14 of 15	195*	89
BITTERROOT RIVER BASIN .....	7 of 7	2*	80
LOWER CLARK FORK RIVER BASIN .....	8 of 8	99*	84
JEFFERSON RIVER BASIN .....	19 of 19	208*	97
MADISON RIVER BASIN .....	11 of 11	115*	94
GALLATIN RIVER BASIN .....	7 of 7	85*	101
MISSOURI HEADWATERS .....	31 of 31	143*	96
HEADWATERS MISSOURI MAINSTEM .....	5 of 5	256*	103
SMITH, JUDITH, AND MUSSELSHELL RIVER BASINS ..	9 of 10	616*	123
SUN, TETON AND MARIAS RIVER BASINS .....	6 of 6	127*	80
MISSOURI MAINSTEM RIVER BASIN .....	20 of 21	257*	104
ST. MARY AND MILK RIVER BASINS .....	3 of 3	130*	96
UPPER YELLOWSTONE RIVER BASIN .....	23 of 24	70*	94
WIND RIVER BASIN (WYOMING) .....	12 of 12	113*	108
SHOSHONE RIVER BASIN (WYOMING) .....	6 of 6	54*	98
BIGHORN RIVER BASIN (WYOMING) .....	16 of 16	61*	98
TONGUE RIVER BASIN (WYOMING) .....	6 of 6	0*	107

POWDER RIVER BASIN (WYOMING) .....	6 of 6	0*	103
LOWER YELLOWSTONE RIVER BASIN .....	32 of 32	76*	104
NEVADA			
NORTHERN GREAT BASIN .....	3 of 4	39*	93
SNAKE RIVER .....	3 of 3	*	96
OWYHEE RIVER .....	5 of 6	*	92
UPPER HUMBOLDT RIVER .....	5 of 5	0*	98
LOWER HUMBOLDT RIVER .....	4 of 6	0*	87
CLOVER VALLEY .....	1 of 1	*	95
EASTERN NEVADA .....	2 of 3	0*	114
NEW MEXICO			
RIO CHAMA RIVER BASIN .....	4 of 4	0*	86
UPPER RIO GRANDE BASIN .....	8 of 9	2*	92
SANGRE DE CRISTO MOUNTAIN RANGE BASINS .....	9 of 9	*	103
JEMEZ RIVER BASIN .....	3 of 3	*	88
SAN FRANCISCO RIVER BASIN .....	3 of 3	*	103
GILA RIVER BASIN .....	3 of 3	*	108
MIMBRES RIVER BASIN .....	1 of 2	*	112
PECOS RIVER BASIN .....	1 of 1	*	89
SAN JUAN RIVER HEADWATERS .....	4 of 5	4*	88
ANIMAS RIVER BASIN .....	6 of 7	4*	79
CIMARRON RIVER BASIN .....	2 of 2	*	112
ZUNI/BLUEWATER RIVER BASIN .....	1 of 1	*	*
RIO HONDO BASIN .....	1 of 1	*	162
OREGON			
OWYHEE .....	7 of 8	*	95
MALHEUR .....	3 of 3	*	100
GRANDE RONDE, POWDER, BURNT, IMNAHA .....	10 of 17	243*	102
UMATILLA, WALLA WALLA, WILLOW .....	6 of 8	*	97
JOHN DAY .....	9 of 13	*	101
UPPER DESCHUTES, CROOKED .....	11 of 14	143*	91
HOOD, SANDY, LOWER DESCHUTES .....	7 of 8	131*	93
COAST RANGE .....	1 of 2	*	87
WILLAMETTE .....	18 of 21	133*	93
ROGUE, UMPQUA .....	8 of 12	262*	92
KLAMATH .....	13 of 18	575*	86
LAKE COUNTY, GOOSE LAKE .....	8 of 9	39*	91
HARNEY .....	9 of 9	368*	101
UTAH			
BEAR RIVER .....	8 of 14	0*	89
WEBER-OGDEN RIVERS .....	14 of 17	0*	88
PROVO R.-UTAH LAKE-JORDAN R. ....	13 of 15	0*	92
TOOELE VALLEY-VERNON CREEK .....	3 of 3	0*	98
GREEN RIVER .....	6 of 7	14*	102
DUCHESNE RIVER .....	12 of 13	0*	80
PRICE-SAN RAFAEL .....	5 of 6	0*	83
DIRTY DEVIL .....	3 of 3	*	93
SOUTH EASTERN UTAH .....	3 of 3	*	103
SEVIER RIVER .....	14 of 16	0*	105
BEAVER RIVER .....	2 of 2	129	107
ESCALANTE RIVER .....	2 of 3	*	100
VIRGIN RIVER .....	7 of 9	0*	113
WASHINGTON			
NORTHERN PANHANDLE .....	7 of 10	28*	94
SPOKANE .....	9 of 10	48*	85
UPPER COLUMBIA .....	5 of 5	14*	103
CENTRAL COLUMBIA .....	5 of 8	135*	94

UPPER YAKIMA .....	5 of 5	84*	89
LOWER YAKIMA .....	7 of 9	184*	100
LOWER SNAKE .....	15 of 22	59*	87
LOWER COLUMBIA .....	15 of 22	165*	97
SOUTH PUGET SOUND .....	6 of 8	112*	88
CENTRAL PUGET SOUND .....	7 of 9	80*	91
NORTH PUGET SOUND .....	8 of 12	70*	100
OLYMPIC .....	3 of 4	7067*	151
WYOMING			
SNAKE RIVER .....	13 of 16	87*	87
UPPER YELLOWSTONE-MADISON .....	13 of 13	72*	86
WIND RIVER .....	9 of 9	117*	110
BIGHORN BASIN .....	16 of 16	61*	98
SHOSHONE RIVER .....	7 of 7	53*	98
POWDER-TONGUE .....	12 of 12	0*	105
BELLE FOURCHE .....	3 of 3	*	132
UPPER N. PLATTE RIVER .....	10 of 11	118*	112
LOWER N. PLATTE - SWEETWATER - LARAMIE .....	10 of 10	140*	112
LITTLE SNAKE RIVER .....	4 of 5	158*	111
UPPER GREEN RIVER .....	11 of 13	12*	81
LOWER GREEN RIVER .....	7 of 7	24*	98
UPPER BEAR RIVER .....	7 of 7	0*	86

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The Snow Water Equivalent Percent of Average represents the snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. The Accumulated Precipitation Percent of Average represents the total precipitation beginning October 1st) found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day.

\* = Data are not available or data may not provide a valid measure of conditions for over half of the sites within the basin. Refer to the individual state reports for a complete data listing and basin analysis.

Units = inches for the Current and Average Snow Water Equivalent and Total Precipitation values

Reference period for average conditions is 1971-2000.  
Provisional data, subject to revision.

#### Report Overview:

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Individual SNOTEL site current year graphs:

<http://www.wcc.nrcs.usda.gov/cgi-bin/site-wygraph-multi.pl>

SNOTEL Precipitation Maps (NEW):

[ftp://ftp.wcc.nrcs.usda.gov/data/water/wcs/gis/maps/west\\_mtdprecpcntnormal\\_update.pdf](ftp://ftp.wcc.nrcs.usda.gov/data/water/wcs/gis/maps/west_mtdprecpcntnormal_update.pdf)

SNOTEL Snow Water Equivalent Maps (NEW):

[ftp://ftp.wcc.nrcs.usda.gov/data/water/wcs/gis/maps/west\\_swepctnormal\\_update.pdf](ftp://ftp.wcc.nrcs.usda.gov/data/water/wcs/gis/maps/west_swepctnormal_update.pdf)

SNOTEL Precipitation Maps (Western Regional Climate Center):

<http://www.wrcc.dri.edu/snotelanom/basinpre.html>] (color)

<http://www.wrcc.dri.edu/snotelanom/basinpren.html> (numeric)  
SNOTEL Snow Water Equivalent Maps (Western Regional Climate Center):  
<http://www.wrcc.dri.edu/snotelanom/basinswe.html> (color)  
<http://www.wrcc.dri.edu/snotelanom/basinswen.html> (numeric)  
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You can view this report on the National Water and Climate Center Homepage:  
<ftp://ftp.wcc.nrcs.usda.gov/data/snow/update/ws.txt>

For questions, comments and more information about this report please  
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