

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, May 11, 2009

Spring temperatures and snowmelt are now occurring across the Western US. The southwest is rapidly losing snowpack at this time. The northern tier states and especially Montana have good snowpacks at this time. While California had several good precipitation events in April, the snowpack in the Sierra Nevada Mountains remains below average. Most basins in Alaska, Arizona, California, Colorado, Nevada, New Mexico and Utah are now below average.

Due to record high air temperatures starting April 29th and much greater than average snow water contents across the northern and western part of Alaska and the headwaters of the Yukon River in the Yukon Territories, major ice jam flooding occurred at city of Eagle on the Yukon River. Currently there are flood warnings for Stevens Village, Rampart and Tanana on the Yukon River. More ice jam flooding is expected as the water moves downstream where the river is mostly ice. On the Kuskokwim River after minor flooding at McGrath and Aniak, the downstream villages of Tukluksak, Kwethluk, Akiak, Bethel and Napakiak have been issued flood warnings. For more information, go to the National Weather Service Alaska River Forecast Center web site: <http://aprfc.arh.noaa.gov/index.php>

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, May 11, 2009

STATE			PERCENT OF AVERAGE	
RIVER BASIN	Number	Snow Water	Accum	
	of Sites	Equivalent	Precip	

ALASKA				
ANCHORAGE/SHIP CREEK BASIN	4 of 4	48		89
SUSITNA BASIN	6 of 6	52		93
NORTHERN KENAI MOUNTAINS	6 of 6	61		83
SOUTHERN KENAI	6 of 6	0*		57
COPPER BASIN	4 of 4	46*		78
PRINCE WILLIAM SOUND	5 of 6	*		83
CHENA BASIN	6 of 6	73		81
UPPER TANANA	3 of 3	*		100
KOYUKUK BASIN	3 of 3	*		121
CENTRAL YUKON BASIN	3 of 3	*		91
SEWARD PENINSULA	2 of 2	*		154

KUPARUK RIVER BASIN	1 of 1	*	169
SOUTHEAST ALASKA BASIN	1 of 1	108	100
ARIZONA			
VERDE RIVER BASIN	4 of 7	*	*
SAN FRANCISCO PEAKS	1 of 1	0	57
CENTRAL MOGOLLON RIM	3 of 3	138*	*
LITTLE COLORADO - SOUTHERN HEADWATERS	1 of 2	*	102
UPPER SALT RIVER BASIN / WHITE MOUNTAINS	4 of 7	*	*
SAN FRANCISCO RIVER BASIN	3 of 5	18*	*
UPPER GILA RIVER BASIN	3 of 3	18*	61
CALIFORNIA			
NORTHERN GREAT BASIN	4 of 4	82	93
TRUCKEE RIVER	8 of 8	68	92
LAKE TAHOE	8 of 8	30	92
CARSON RIVER	5 of 9	68*	96
WALKER RIVER	5 of 6	79	95
KLAMATH	9 of 10	111	95
COLORADO			
GUNNISON RIVER BASIN	12 of 14	55	103
UPPER COLORADO RIVER BASIN	27 of 29	83	105
SOUTH PLATTE RIVER BASIN	15 of 16	99	100
LARAMIE AND NORTH PLATTE RIVER BASINS	13 of 13	93	103
YAMPA AND WHITE RIVER BASINS	17 of 19	82	105
ARKANSAS RIVER BASIN	4 of 9	*	97
UPPER RIO GRANDE BASIN	10 of 15	60	102
SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASIN	15 of 16	42	96
IDAHO			
NORTHERN PANHANDLE REGION	7 of 10	99	85
SPOKANE RIVER BASIN	9 of 10	99	94
CLEARWATER BASIN	14 of 15	111	100
SALMON BASIN	22 of 22	118	99
WEISER BASIN	3 of 4	84	92
PAYETTE BASIN	9 of 11	106	93
BOISE BASIN	9 of 10	93	96
BIG WOOD BASIN	9 of 9	91	94
LITTLE WOOD BASIN	4 of 5	103	100
BIG LOST BASIN	4 of 5	89	98
LITTLE LOST, BIRCH BASINS	4 of 4	123	107
MEDICINE LODGE, BEAVER, CAMAS BASINS	4 of 4	130	110
HENRYS FORK, TETON BASINS	7 of 8	112	99
SNAKE BASIN ABOVE PALISADES	17 of 18	120	107
WILLOW, BLACKFOOT, PORTNEUF BASINS	6 of 6	99	108
SNAKE BASIN ABOVE AMERICAN FALLS	28 of 30	117	105
OAKLEY BASIN	3 of 3	101	114
SALMON FALLS BASIN	5 of 5	93	114
BRUNEAU BASIN	5 of 5	92	112
OWYHEE BASIN	7 of 8	32	102
BEAR RIVER BASIN	15 of 15	98	101
MONTANA			
KOOTENAI RIVER BASIN	8 of 8	102	86
FLATHEAD RIVER BASIN	15 of 15	103	89
UPPER CLARK FORK RIVER BASIN	14 of 15	130	105
BITTERROOT RIVER BASIN	7 of 7	118	102
LOWER CLARK FORK RIVER BASIN	8 of 8	111	92
JEFFERSON RIVER BASIN	19 of 19	133	111
MADISON RIVER BASIN	11 of 11	124	107

GALLATIN RIVER BASIN	7 of 7	140	110
MISSOURI HEADWATERS	31 of 31	132	109
HEADWATERS MISSOURI MAINSTEM	5 of 5	145	110
SMITH, JUDITH, AND MUSSELSHELL RIVER BASINS ..	9 of 10	150	268
SUN, TETON AND MARIAS RIVER BASINS	5 of 6	115	93
MISSOURI MAINSTEM RIVER BASIN	19 of 21	136	171
ST. MARY AND MILK RIVER BASINS	3 of 3	76	83
UPPER YELLOWSTONE RIVER BASIN	23 of 24	126	126
WIND RIVER BASIN (WYOMING)	12 of 12	118	104
SHOSHONE RIVER BASIN (WYOMING)	6 of 6	107	112
BIGHORN RIVER BASIN (WYOMING)	16 of 16	108	106
TONGUE RIVER BASIN (WYOMING)	6 of 6	111	106
POWDER RIVER BASIN (WYOMING)	6 of 6	112	101
LOWER YELLOWSTONE RIVER BASIN	32 of 32	111	105
NEVADA			
NORTHERN GREAT BASIN	4 of 4	82	93
SNAKE RIVER	3 of 3	100	108
OWYHEE RIVER	5 of 6	39	102
UPPER HUMBOLDT RIVER	5 of 5	53	110
LOWER HUMBOLDT RIVER	4 of 5	70	87
CLOVER VALLEY	1 of 1	0	107
EASTERN NEVADA	3 of 3	94	120
NEW MEXICO			
RIO CHAMA RIVER BASIN	4 of 4	67	90
UPPER RIO GRANDE BASIN	9 of 9	61	105
SANGRE DE CRISTO MOUNTAIN RANGE BASINS	9 of 9	47	97
JEMEZ RIVER BASIN	3 of 3	33*	81
SAN FRANCISCO RIVER BASIN	2 of 3	18*	78
GILA RIVER BASIN	3 of 3	18*	61
MIMBRES RIVER BASIN	2 of 2	*	40
PECOS RIVER BASIN	1 of 1	1	82
SAN JUAN RIVER HEADWATERS	5 of 5	51	101
ANIMAS RIVER BASIN	7 of 7	44	96
CIMARRON RIVER BASIN	2 of 2	0*	92
ZUNI/BLUEWATER RIVER BASIN	1 of 1	*	127
RIO HONDO BASIN	1 of 1	*	76
OREGON			
OWYHEE	7 of 8	32	102
MALHEUR	3 of 3	4*	87
GRANDE RONDE, POWDER, BURNT, IMNAHA	15 of 17	132	106
UMATILLA, WALLA WALLA, WILLOW	6 of 8	187*	110
JOHN DAY	11 of 13	53*	94
UPPER DESCHUTES, CROOKED	14 of 14	113	94
HOOD, SANDY, LOWER DESCHUTES	7 of 8	195	101
COAST RANGE	1 of 2	*	66
WILLAMETTE	18 of 21	134	94
ROGUE, UMPQUA	11 of 12	100	93
KLAMATH	14 of 18	100*	94
LAKE COUNTY, GOOSE LAKE	8 of 9	75*	88
HARNEY	8 of 9	64	91
UTAH			
BEAR RIVER	8 of 10	96	103
WEBER-OGDEN RIVERS	14 of 17	94	107
PROVO R.-UTAH LAKE-JORDAN R.	13 of 15	90	110
TOOELE VALLEY-VERNON CREEK	3 of 3	57	111
GREEN RIVER	6 of 6	43	100
DUCHESNE RIVER	12 of 12	61	96

PRICE-SAN RAFAEL	5 of 6	37	105
DIRTY DEVIL	3 of 3	0	92
SOUTH EASTERN UTAH	3 of 3	0	77
SEVIER RIVER	14 of 16	34	103
BEAVER RIVER	2 of 2	86	117
ESCALANTE RIVER	2 of 3	0	79
VIRGIN RIVER	7 of 9	51*	104
WASHINGTON			
NORTHERN PANHANDLE	7 of 10	99	85
SPOKANE	9 of 10	99	94
UPPER COLUMBIA	4 of 5	84	83
CENTRAL COLUMBIA	8 of 8	89	92
UPPER YAKIMA	5 of 5	103	100
LOWER YAKIMA	7 of 9	117	92
LOWER SNAKE	5 of 8	135	107
LOWER COLUMBIA	16 of 22	152	93
SOUTH PUGET SOUND	8 of 9	128	101
CENTRAL PUGET SOUND	9 of 9	170	105
NORTH PUGET SOUND	7 of 11	88	85
OLYMPIC	3 of 4	80	85
WYOMING			
SNAKE RIVER	14 of 16	125	108
UPPER YELLOWSTONE-MADISON	13 of 13	127	105
WIND RIVER	9 of 9	118	102
BIGHORN BASIN	16 of 16	108	106
SHOSHONE RIVER	7 of 7	109	113
POWDER-TONGUE	12 of 12	112	104
BELLE FOURCHE	3 of 3	18	130
UPPER N. PLATTE RIVER	11 of 11	98	113
LOWER N. PLATTE - SWEETWATER - LARAMIE	10 of 10	102	97
LITTLE SNAKE RIVER	5 of 5	113	117
UPPER GREEN RIVER	11 of 12	106	104
LOWER GREEN RIVER	7 of 7	81	98
UPPER BEAR RIVER	7 of 7	92	96

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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significant changes and events will be included in this report as conditions warrant. Additional SNOTEL graphics are available at the following links:

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_mtdprecpcnormal_update.pdf

SNOTEL Snow Water Equivalent Maps (NEW):

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)

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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