

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, March 23, 2009

The snowpack across the West is near to slightly below average today. There are a few scattered basins reporting much below average snowpack for this time.

In Alaska, the Mt. Redoubt volcano has erupted 5 times since 10:30 PM last night; fortunately the upper winds are taking the ash plume north of Anchorage. There are no SNOTEL sites affected by ashfall that we are aware of at this time.

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, March 23, 2009

STATE		Number	PERCENT OF AVERAGE	
RIVER BASIN		of Sites	Snow Water	Accum
			Equivalent	Precip
ALASKA				
ANCHORAGE/SHIP CREEK BASIN	4 of 4	4	87	92
SUSITNA BASIN	6 of 6	6	88	98
NORTHERN KENAI MOUNTAINS	6 of 6	6	73	79
SOUTHERN KENAI	6 of 6	6	81	62
COPPER BASIN	4 of 4	4	90	82
PRINCE WILLIAM SOUND	5 of 6	6	*	90
CHENA BASIN	6 of 6	6	99	82
UPPER TANANA	3 of 3	3	129	108
KOYUKUK BASIN	3 of 3	3	*	117
CENTRAL YUKON BASIN	3 of 3	3	*	94
SEWARD PENINSULA	2 of 2	2	*	158
KUPARUK RIVER BASIN	1 of 1	1	*	159
SOUTHEAST ALASKA BASIN	1 of 1	1	107	105
ARIZONA				
VERDE RIVER BASIN	5 of 7	7	22	101
SAN FRANCISCO PEAKS	1 of 1	1	139	60
CENTRAL MOGOLLON RIM	3 of 3	3	31	99
LITTLE COLORADO - SOUTHERN HEADWATERS	2 of 2	2	74	117
UPPER SALT RIVER BASIN / WHITE MOUNTAINS	6 of 7	7	53	87
SAN FRANCISCO RIVER BASIN	5 of 5	5	43	74
UPPER GILA RIVER BASIN	3 of 3	3	42	65
CALIFORNIA				
NORTHERN GREAT BASIN	4 of 4	4	75	91

TRUCKEE RIVER	8 of 8	86	91
LAKE TAHOE	8 of 8	80	89
CARSON RIVER	5 of 9	87	97
WALKER RIVER	5 of 6	87	98
KLAMATH	9 of 10	106	92
COLORADO			
GUNNISON RIVER BASIN	12 of 14	92	97
UPPER COLORADO RIVER BASIN	28 of 29	99	98
SOUTH PLATTE RIVER BASIN	15 of 16	82	89
LARAMIE AND NORTH PLATTE RIVER BASINS	13 of 13	93	95
YAMPA AND WHITE RIVER BASINS	17 of 19	96	98
ARKANSAS RIVER BASIN	6 of 9	94	89
UPPER RIO GRANDE BASIN	10 of 15	95	98
SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASIN	15 of 16	87	96
IDAHO			
NORTHERN PANHANDLE REGION	7 of 10	84	82
SPOKANE RIVER BASIN	9 of 10	83	92
CLEARWATER BASIN	14 of 15	90	96
SALMON BASIN	22 of 22	91	92
WEISER BASIN	2 of 4	89	93
PAYETTE BASIN	9 of 11	83	86
BOISE BASIN	8 of 10	82	90
BIG WOOD BASIN	9 of 9	83	89
LITTLE WOOD BASIN	4 of 5	90	103
BIG LOST BASIN	4 of 5	91	100
LITTLE LOST, BIRCH BASINS	4 of 4	93	100
MEDICINE LODGE, BEAVER, CAMAS BASINS	4 of 4	90	104
HENRYS FORK, TETON BASINS	7 of 8	82	86
SNAKE BASIN ABOVE PALISADES	17 of 18	91	95
WILLOW, BLACKFOOT, PORTNEUF BASINS	6 of 6	74	96
SNAKE BASIN ABOVE AMERICAN FALLS	28 of 30	86	93
OAKLEY BASIN	3 of 3	77	101
SALMON FALLS BASIN	5 of 5	86	106
BRUNEAU BASIN	5 of 5	91	108
OWYHEE BASIN	7 of 8	78	98
BEAR RIVER BASIN	15 of 15	79	89
MONTANA			
KOOTENAI RIVER BASIN	8 of 8	90	83
FLATHEAD RIVER BASIN	15 of 15	86	86
UPPER CLARK FORK RIVER BASIN	14 of 15	98	101
BITTERROOT RIVER BASIN	7 of 7	95	99
LOWER CLARK FORK RIVER BASIN	8 of 8	88	90
JEFFERSON RIVER BASIN	19 of 19	97	103
MADISON RIVER BASIN	11 of 11	92	94
GALLATIN RIVER BASIN	7 of 7	97	102
MISSOURI HEADWATERS	31 of 31	95	100
HEADWATERS MISSOURI MAINSTEM	5 of 5	102	105
SMITH, JUDITH, AND MUSSELSHELL RIVER BASINS ..	9 of 10	97	96
SUN, TETON AND MARIAS RIVER BASINS	6 of 6	82	84
MISSOURI MAINSTEM RIVER BASIN	20 of 21	92	94
ST. MARY AND MILK RIVER BASINS	3 of 3	79	80
UPPER YELLOWSTONE RIVER BASIN	23 of 24	102	103
WIND RIVER BASIN (WYOMING)	12 of 12	81	88
SHOSHONE RIVER BASIN (WYOMING)	6 of 6	93	104
BIGHORN RIVER BASIN (WYOMING)	16 of 16	95	101
TONGUE RIVER BASIN (WYOMING)	6 of 6	94	107

POWDER RIVER BASIN (WYOMING)	6 of 6	104	104
LOWER YELLOWSTONE RIVER BASIN	32 of 32	89	98
NEVADA			
NORTHERN GREAT BASIN	4 of 4	75	91
SNAKE RIVER	3 of 3	86	104
OWYHEE RIVER	5 of 6	85	101
UPPER HUMBOLDT RIVER	5 of 5	76	103
LOWER HUMBOLDT RIVER	4 of 5	61	82
CLOVER VALLEY	0 of 1	*	104
EASTERN NEVADA	2 of 3	124	118
NEW MEXICO			
RIO CHAMA RIVER BASIN	4 of 4	101	89
UPPER RIO GRANDE BASIN	9 of 9	92	102
SANGRE DE CRISTO MOUNTAIN RANGE BASINS	9 of 9	76	95
JEMEZ RIVER BASIN	3 of 3	34	75
SAN FRANCISCO RIVER BASIN	3 of 3	43	75
GILA RIVER BASIN	3 of 3	42	65
MIMBRES RIVER BASIN	2 of 2	0	44
PECOS RIVER BASIN	1 of 1	73	81
SAN JUAN RIVER HEADWATERS	5 of 5	86	102
ANIMAS RIVER BASIN	7 of 7	88	95
CIMARRON RIVER BASIN	2 of 2	70	94
ZUNI/BLUEWATER RIVER BASIN	1 of 1	14	116
RIO HONDO BASIN	1 of 1	54	79
OREGON			
OWYHEE	7 of 8	78	98
MALHEUR	3 of 3	88	82
GRANDE RONDE, POWDER, BURNT, IMNAHA	15 of 17	89	96
UMATILLA, WALLA WALLA, WILLOW	7 of 8	97	97
JOHN DAY	13 of 13	87	86
UPPER DESCHUTES, CROOKED	14 of 14	105	89
HOOD, SANDY, LOWER DESCHUTES	7 of 8	134	93
COAST RANGE	1 of 2	7	63
WILLAMETTE	19 of 21	120	88
ROGUE, UMPQUA	11 of 12	102	93
KLAMATH	15 of 18	100	91
LAKE COUNTY, GOOSE LAKE	8 of 9	82	83
HARNEY	9 of 9	76	83
UTAH			
BEAR RIVER	8 of 10	80	90
WEBER-OGDEN RIVERS	14 of 17	84	92
PROVO R.-UTAH LAKE-JORDAN R.	13 of 15	83	93
TOOELE VALLEY-VERNON CREEK	3 of 3	74	100
GREEN RIVER	6 of 6	56	81
DUCHESNE RIVER	12 of 12	76	82
PRICE-SAN RAFAEL	5 of 6	70	88
DIRTY DEVIL	3 of 3	60	79
SOUTH EASTERN UTAH	3 of 3	65	76
SEVIER RIVER	14 of 16	72	99
BEAVER RIVER	2 of 2	119	125
ESCALANTE RIVER	2 of 3	65	75
VIRGIN RIVER	7 of 9	88	112
WASHINGTON			
NORTHERN PANHANDLE	7 of 10	84	82
SPOKANE	9 of 10	83	92
UPPER COLUMBIA	4 of 5	64	70
CENTRAL COLUMBIA	8 of 8	71	85

UPPER YAKIMA	5 of 5	76	96
LOWER YAKIMA	7 of 9	93	86
LOWER SNAKE	5 of 8	93	99
LOWER COLUMBIA	16 of 22	113	86
SOUTH PUGET SOUND	8 of 9	97	92
CENTRAL PUGET SOUND	9 of 9	106	100
NORTH PUGET SOUND	7 of 11	72	80
OLYMPIC	3 of 4	62	81
WYOMING			
SNAKE RIVER	14 of 16	92	95
UPPER YELLOWSTONE-MADISON	13 of 13	97	94
WIND RIVER	9 of 9	76	85
BIGHORN BASIN	16 of 16	95	101
SHOSHONE RIVER	7 of 7	93	105
POWDER-TONGUE	12 of 12	99	106
BELLE FOURCHE	3 of 3	79	141
UPPER N. PLATTE RIVER	11 of 11	95	103
LOWER N. PLATTE - SWEETWATER - LARAMIE	10 of 10	76	82
LITTLE SNAKE RIVER	5 of 5	99	105
UPPER GREEN RIVER	11 of 12	86	93
LOWER GREEN RIVER	7 of 7	68	80
UPPER BEAR RIVER	7 of 7	80	82

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:

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 770 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. 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
contact: Jolyne Lea - 503-414-3040, Jolyne.lea@por.usda.gov