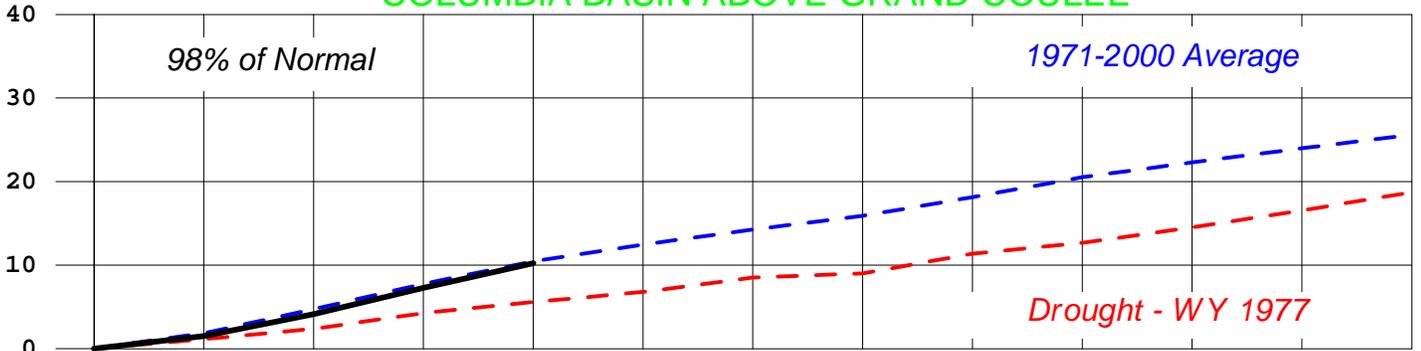
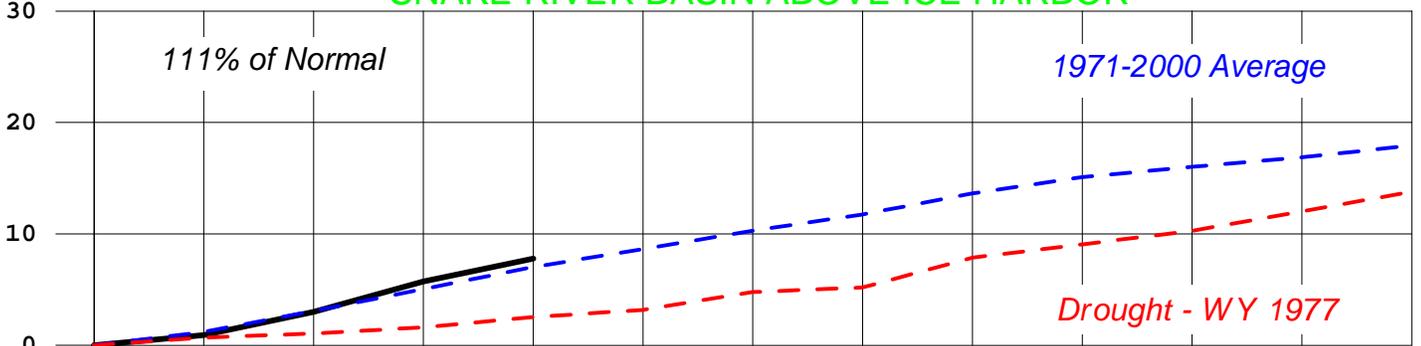


CUMULATIVE PRECIPITATION WATER YEAR 2009

COLUMBIA BASIN ABOVE GRAND COULEE



SNAKE RIVER BASIN ABOVE ICE HARBOR



COLUMBIA BASIN ABOVE THE DALLES



WILLAMETTE BASIN



ACCUMULATED PRECIPITATION IN INCHES

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP

Columbia Basin Seasonal Precipitation Division Averages
Northwest River Forecast Center

(Monthly Summary - jan 2009)

DIVISION	..JAN TO DAY 31..		OCT - JAN....		
	OBSD	DEP	PCT AV	OBSD	DEP	PCT AV
COLUMBIA ABOVE COULEE	2.95	0.24	109.	10.21	-0.25	98.
SNAKE RV AB ICE HARBOR	2.06	0.08	104.	7.78	0.75	111.
COLUMBIA AB THE DALLES	3.05	0.26	109.	10.47	0.21	102.
COLUMBIA AB CASTLEGAR	3.72	-0.29	93.	14.70	-0.43	97.
KOOTENAI	2.82	0.05	102.	9.76	-1.11	90.
CLARK FORK	2.52	0.74	141.	7.96	1.48	123.
FLATHEAD	2.44	0.19	108.	8.40	-0.39	96.
PEND OREILLE/ SPOKANE	4.36	0.48	112.	13.12	-1.26	91.
NORTHEAST WASHINGTON	1.59	-0.27	86.	7.30	-0.31	96.
OKANOGAN	1.80	0.07	104.	6.01	-0.48	93.
EAST SLOPES WASH CASC.	8.41	1.72	126.	22.89	-0.34	99.
CENTRAL WASHINGTON	0.97	-0.09	91.	3.62	-0.60	86.
UPPER SNAKE	2.74	0.49	122.	9.50	1.65	121.
SNAKE RIVER PLAIN	0.87	-0.27	76.	4.25	0.15	104.
OWYHEE/ MALHEUR	1.07	-0.18	85.	4.70	0.28	106.
SALMON/ BOISE/ PAYETTE	1.95	-0.54	78.	7.92	-0.85	90.
BURNT/ GRANDE RONDE	2.16	0.31	117.	6.97	0.15	102.
CLEARWATER	5.58	1.97	155.	15.85	2.91	122.
SOUTHEAST WASHINGTON	2.68	0.44	120.	8.88	0.26	103.
UPPER JOHN DAY	1.18	-0.43	73.	5.42	-0.66	89.
UMATILLA/ LWR JOHN DAY	2.08	0.16	108.	7.59	0.43	106.
UPR DESCHUTES/ CROOKED	1.02	-1.08	49.	5.94	-1.12	84.
HOOD/ LOWER DESCHUTES	4.78	0.46	111.	16.88	1.48	110.
NW SLOPE WASH CASCADES	14.42	1.76	114.	44.22	-2.80	94.
SW WA CASCADES/COWLITZ	12.23	1.91	119.	36.59	-1.39	96.
WILLAMETTE VALLEY	5.49	-3.09	64.	25.52	-6.11	81.
ROGUE/ UMPQUA	2.55	-2.56	50.	16.36	-2.81	85.
KLAMATH BASIN	1.32	-1.50	47.	7.82	-1.65	83.
LAKE COUNTY-GOOSE LAKE	0.81	-0.61	57.	3.52	-1.62	69.
HARNEY/ MALHEUR BASIN	0.78	-0.41	66.	3.95	-0.52	88.

Columbia River Basin division values are computed by utilizing un-weighted precipitation amounts from key stations in each area. Precipitation normals are based on 1971-2000 historical data. Please contact NWRFC for further information: (503) 326-7291.

NORTHWEST RIVER FORECAST CENTER PORTLAND OR
PRECIPITATION, TEMPERATURE, SNOW, AND STREAMFLOW SUMMARIES
January 2009

WEATHER SUMMARY

January had near to below normal precipitation and near normal temperatures amounts.

a strong storm system brought copious precipitation and relatively cold temperatures to the pacific northwest at the beginning of the month. another strong system brought more problems to the northwest during the second week of the month. this second system brought another dose of heavy rain and warm temperatures...which helped rivers rise through western washington. the last three weeks of the month saw fairly beign weather...with drier and warmer than normal conditions.

PRECIPITATION SUMMARY

January precipitation was: 109 percent of normal (1971-2000) at Columbia above Coulee, 104 percent of normal at the Snake River above Ice Harbor, and

109 percent of normal at Columbia above the Dalles.

Seasonal (October through January) precipitation was: 98 percent of normal (1971-2000) at Columbia above Coulee, 111 percent of normal at the Snake River above Ice Harbor, and 102 percent normal at Columbia above the Dalles.

TEMPERATURE SUMMARY

The 31 station temperature index for the Pacific Northwest departed -0.8 degrees from normal relative to the 1971-2000 normals. Mean temperature departures ranged from -2.7 to 7.5 degrees.

GENERAL SUMMARY

Below average precipitation during January for most Columbia-Snake basins and snow water equivalents (SWE's) accumulating at less than the normal rate have produced a slight decrease in forecast streamflows for the February 1st date. Of particular note was the precipitation catch during January in the Upper Columbia and Kootenai area at 70 to 75 percent. Also the SWE's in that major water producing area is in the 80 percent range.

SNOW SUMMARY

Snow water equivalents (SWE's) increased in almost all areas of the basin in January. However the accumulations were at less than the normal rate. Most February 1st SWE's are in the 80 to 90 percent range. Lowest February 1st SWE's are in an area from the North Cascades in Washington eastward into the Idaho panhandle at 60 to 80 percent. The best February 1st SWE's are in a swath from the Clearwater river in Idaho into the Upper Clark Fork river in Montana at 90 to 110 percent of average.

STREAMFLOW SUMMARY

Streamflow during January was quite varied across the Columbia-Snake basin. Lowest streamflow was in the Middle Snake area and in the Malheur river area in Oregon at 50 to 60 percent. The highest January streamflow was in streams draining from the Cascades in Washington, and in Southwest Washington. Other areas with high January streamflow were in Northeast Oregon, the Clearwater and Spokane river tributaries in Idaho and on the Clark Fork in Montana. Major flooding occurred in Western Washington and on the Yakima river in eastern Washington. Also, minor flooding happened on tributaries of the Spokane river and on the Upper Palouse river in Idaho. The flood events in those two areas were complicated by ice jam releases during the storm. Record flooding was observed on the Stillaguamish, Snohomish and Naselle rivers in Western Washington. On the Chehalis river water once again flooded the Interstate-5 highway between Portland and Seattle.

The forecast streamflows for the February 1st analysis generally decreased one to five percent from the January 1st forecast. Lowest forecast values are on the main stem of the Snake river from Swan Falls to Brownlee Dam at 50 to 60 percent. The best forecast streamflows are on the Clark Fork in Montana, in the Upper Snake and Clearwater basins in Idaho at 90 to 110 percent.

http://www.nwrfc.noaa.gov/water_supply/ws_fcst.cgi
has detailed water supply forecasts.

MONTHLY PRECIPITATION AND TEMPERATURE RECORDS

Partial list of record high and low temperatures in degrees (F) are listed below. Precipitation is reported in inches. Please see the complete list of records at the National Weather Service Field Offices Climatology Web pages.

1/11 A RECORD HIGH TEMPERATURE OF 55 DEGREES WAS SET AT THE DALLES OR.

1/12 A RECORD HIGH TEMPERATURE OF 62 DEGREES WAS SET AT THE DALLES OR.
1/13 A RECORD HIGH TEMPERATURE OF 58 DEGREES WAS SET AT ROME OR.
A RECORD HIGH TEMPERATURE OF 52 DEGREES WAS SET AT MEACHAM OR.
1/14 A RECORD HIGH TEMPERATURE OF 62 DEGREES WAS SET AT REDMOND OR.
1/17 A RECORD HIGH TEMPERATURE OF 43 DEGREES WAS SET AT MULLAN PASS ID.
A RECORD HIGH TEMPERATURE OF 62 DEGREES WAS SET AT QUILLAYUTE WA.
1/18 A RECORD HIGH TEMPERATURE OF 49 DEGREES WAS SET AT MULLAN PASS ID.
1/19 A RECORD HIGH TEMPERATURE OF 52 DEGREES WAS SET AT MULLAN PASS ID.
1/21 A RECORD HIGH TEMPERATURE OF 39 DEGREES WAS SET AT MULLAN PASS ID.
1/23 A RECORD DAILY RAINFALL OF 0.34 INCHES WAS SET AT IDAHO FALLS ID.
1/24 A RECORD DAILY RAINFALL OF 0.26 INCHES WAS SET AT IDAHO FALLS ID.
1/25 A RECORD DAILY RAINFALL OF 0.45 INCHES WAS SET AT ROME OR.
1/26 A RECORD LOW TEMPERATURE OF -18 DEGREES WAS SET AT IDAHO FALLS ID.
1/27 A RECORD LOW TEMPERATURE OF -29 DEGREES WAS SET AT IDAHO FALLS ID.
A RECORD LOW TEMPERATURE OF -18 DEGREES WAS SET AT MEACHAM OR.

US Dept of Commerce
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National Weather Service
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