

CUMULATIVE PRECIPITATION WATER YEAR 2009

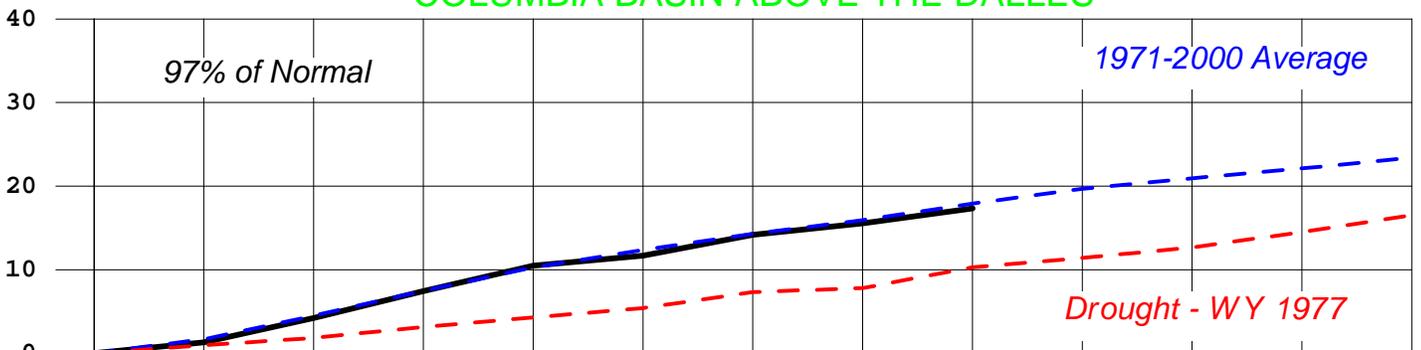
COLUMBIA BASIN ABOVE GRAND COULEE



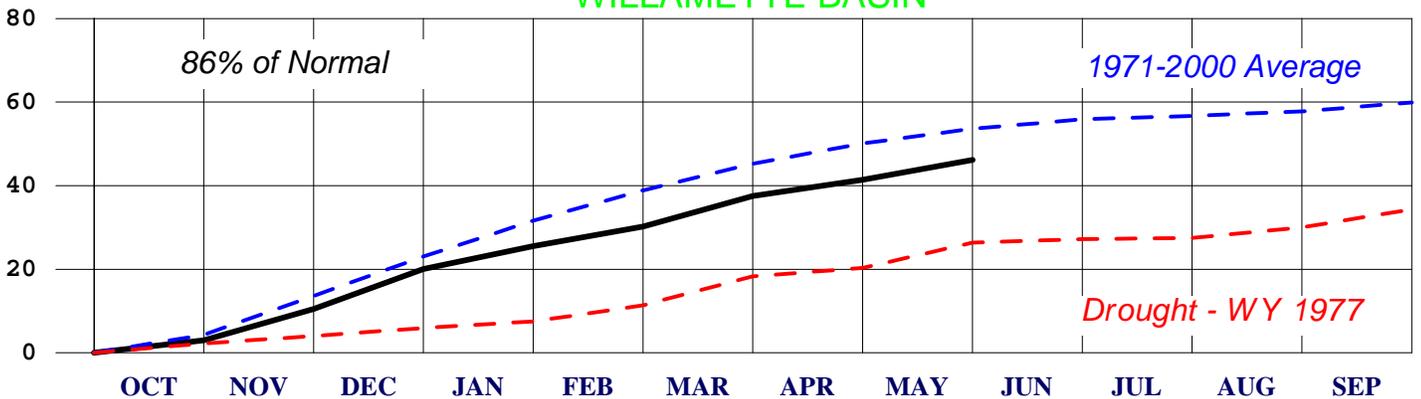
SNAKE RIVER BASIN ABOVE ICE HARBOR



COLUMBIA BASIN ABOVE THE DALLES



WILLAMETTE BASIN



ACCUMULATED PRECIPITATION IN INCHES

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

(Monthly Summary - may 2009)

DIVISION	..MAY TO DAY 31..		OCT - MAY....			
	OBSD	DEP	PCT AV	OBSD	DEP	PCT	AV
COLUMBIA ABOVE COULEE	1.83	-0.40	82.	16.48	-1.65	91.	
SNAKE RV AB ICE HARBOR	1.72	-0.17	91.	14.00	0.36	103.	
COLUMBIA AB THE DALLEES	1.79	-0.18	91.	17.33	-0.57	97.	
COLUMBIA AB CASTLEGAR	2.04	-0.22	90.	21.63	-3.01	88.	
KOOTENAI	1.88	-0.34	85.	15.99	-2.57	86.	
CLARK FORK	1.50	-0.55	73.	12.83	0.55	105.	
FLATHEAD	1.92	-0.52	79.	14.80	-1.40	91.	
PEND OREILLE/ SPOKANE	2.65	0.04	101.	23.53	-1.53	94.	
NORTHEAST WASHINGTON	1.41	-0.74	65.	11.95	-2.54	82.	
OKANOGAN	1.25	-0.23	84.	9.77	-1.71	85.	
EAST SLOPES WASH CASC.	2.25	0.70	145.	32.16	-3.12	91.	
CENTRAL WASHINGTON	0.66	-0.11	85.	6.38	-0.94	87.	
UPPER SNAKE	2.17	-0.22	91.	17.46	2.13	114.	
SNAKE RIVER PLAIN	1.17	-0.31	79.	7.99	-0.64	93.	
OWYHEE/ MALHEUR	1.33	0.07	105.	8.58	-0.20	98.	
SALMON/ BOISE/ PAYETTE	1.59	-0.20	89.	14.16	-2.00	88.	
BURNT/ GRANDE RONDE	1.71	0.03	102.	12.80	0.15	101.	
CLEARWATER	2.61	-0.42	86.	26.40	2.10	109.	
SOUTHEAST WASHINGTON	1.65	-0.24	87.	16.33	0.29	102.	
UPPER JOHN DAY	1.60	0.04	103.	10.89	-0.61	95.	
UMATILLA/ LWR JOHN DAY	1.58	0.01	100.	14.51	1.09	108.	
UPR DESCHUTES/ CROOKED	1.52	0.44	140.	11.89	-0.12	99.	
HOOD/ LOWER DESCHUTES	3.05	1.44	190.	30.09	4.81	119.	
NW SLOPE WASH CASCADES	6.38	1.64	135.	69.73	-6.69	91.	
SW WA CASCADES/COWLITZ	5.73	1.94	151.	57.66	-4.95	92.	
WILLAMETTE VALLEY	4.74	1.21	134.	46.15	-7.49	86.	
ROGUE/ UMPQUA	2.70	0.72	136.	28.23	-4.35	87.	
KLAMATH BASIN	2.08	0.90	177.	14.61	-1.46	91.	
LAKE COUNTY-GOOSE LAKE	1.62	0.26	119.	8.06	-2.11	79.	
HARNEY/ MALHEUR BASIN	1.33	0.00	100.	7.74	-1.32	85.	

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

may 09

WEATHER SUMMARY

A LARGE SCALE UPPER LEVEL TROUGH BROUGHT COOL WET CONDITIONS TO THE REGION FOR MUCH OF THE FIRST WEEK OF MAY. THIS TROUGH SHIFTED NORTH OVER THE SECOND WEEK...BRINGING CONTINUED COOL BUT DRIER CONDITIONS TO MUCH OF THE REGION. BY MID MONTH A HIGH PRESSURE RIDGE BUILT OVER THE NORTHWEST...BRING DRY AND WARM CONDITIONS TO THE REGION. HIGH PRESSURE DOMINATED THE WEATHER FOR THE SECOND HALF OF MAY...ONLY INTERRUPTED BY A STRONG COLD FRONT THAT MOVED THROUGH THE 19TH THROUGH THE 21ST. BY THE END OF THE MONTH...MONSOONAL MOISTURE TRAINED OVER SOUTHERN IDAHO AND OREGON...BRINGING SHOWERS AND THUNDERSTORMS TO THE REGION.

PRECIPITATION SUMMARY

May precipitation was: 82 percent of normal (1971-2000) at Columbia above Coulee, 91 percent of normal at the Snake River above Ice Harbor, and 91 percent of normal at Columbia above the Dalles.

Seasonal (October through May) precipitation was: 91 percent of normal (1971-2000) at Columbia above Coulee, 103 percent of normal at the Snake River above Ice Harbor, and 97 percent of normal at Columbia above the Dalles.

TEMPERATURE SUMMARY

The 37 station temperature index for the Pacific Northwest departed +1.4 degrees from normal relative to the 1971-2000 normals. Mean temperature departures ranged from -1.2 to 5.5 degrees.

General Summary !

May was a month of contrasts, cool and wet for half a month and then warm and dry as the month ended. May precipitation for areas east of the Cascade Range was slightly above average. An above average high elevation snowpack began to melt actively at month's end. Overall, in most northern portions of the Columbia basin, streamflow forecasts improved slightly while streamflow forecasts for most Snake river area decreased slightly.

Snow Summary !

At the end of May only high elevation snow remains-generally above 5000 to 6000 feet. The high elevation snowpack was at 100 to 130 percent of the June 1st average. In the Canadian portion of the Columbia river basin snow water equivalents (SWE's) continued to accumulate until the middle of May. The best June 1st SWE's are on the Clark Fork and Bitterroot rivers at 110 to 140 percent of average. West of the Cascades an above average high elevation snowpack produced some active snowmelt especially in Western Washington.

Streamflow Summary !

May streamflow was above average for most areas of the Columbia basin due to rainfall and snowmelt. The only areas with below average May streamflow were the Columbia-Kootenai rivers at 60 to 70 percent, the East slopes of the Cascade Range at 60 to 80 percent and South Central Idaho and Southeast Oregon at 50 to 80 percent. The best May streamflow was on the Clark Fork in Montana at 130 percent, the Yakima in Eastern Washington at 120 to 130 percent, the Salmon-Clearwater rivers in Idaho at 110 to 120 percent and the Blue Mountain tributaries in Northeast Oregon at 120 to 150 percent. Active snowmelt at the month's end brought flooding to the Naches River on the Yakima system and on the Bitterroot river in Montana.

The forecast streamflow for June 1st is near the May 1st forecast levels for the major forecast locations in the Columbia basin. Forecast values improved on the Clark Fork river in Montana, on the Spokane river and the Yakima rivers in Eastern Washington. In contrast, some Middle Snake tributaries decreased in forecast streamflow. West of the Cascades streamflow forecasts improved from May 1st due to rainfall and some snowmelt runoff.

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.

5/2 A RECORD RAINFALL OF 0.63 INCHES WAS SET AT BOISE ID.

A RECORD RAINFALL OF 0.36 INCHES WAS SET AT BURNS OR.

5/03 A RECORD RAINFALL OF 0.90 INCH(ES) WAS SET AT MEDFORD OR.
A RECORD RAINFALL OF 0.61 INCHES WAS SET AT BURLEY ID.

5/04 A RECORD RAINFALL OF 0.78 INCHES WAS SET AT OLYMPIA WA.

5/05 A RECORD RAINFALL OF 0.59 INCHES WAS SET AT SEATTLE-TACOMA WA.

5/06 A RECORD RAINFALL OF 1.01 INCHES WAS SET AT OLYMPIA WA.
A RECORD RAINFALL OF 0.89 INCHES WAS SET AT SEATTLE-TACOMA WA.
A RECORD RAINFALL OF 0.98 INCHES WAS SET AT ASTORIA OR.

5/08 A RECORD LOW TEMPERATURE OF 25 DEGREES WAS SET AT POCATELLO ID.
A RECORD LOW TEMPERATURE OF 24 DEGREES WAS SET AT IDAHO FALLS ID.

5/09 A RECORD LOW TEMPERATURE OF 16 DEGREES WAS REPORTED IN CHALLIS ID.
A RECORD LOW TEMPERATURE OF 16 DEGREES WAS REPORTED IN STANLEY ID.

5/13 A RECORD LOW TEMPERATURE OF 28 DEGREES WAS SET AT OMAK WA.
A RECORD LOW TEMPERATURE OF 36 DEGREES WAS SET AT THE DALLES OR.
A RECORD LOW TEMPERATURE OF 25 DEGREES WAS REPORTED IN IDAHO FALLS ID.
A RECORD LOW TEMPERATURE OF 18 DEGREES WAS SET AT MCCALL ID.
A RECORD RAINFALL OF 0.44 INCHES WAS SET AT SEATTLE-TACOMA WA
A RECORD RAINFALL OF 0.83 INCHES WAS SET AT OLYMPIA WA.

5/18 A RECORD HIGH TEMPERATURE OF 91 DEGREES WAS SET AT POCATELLO ID.
A RECORD HIGH TEMPERATURE OF 88 DEGREES WAS SET AT MISSOULA MT.
A RECORD HIGH TEMPERATURE OF 95 DEGREES WAS SET AT BOISE ID.

5/20 A RECORD LOW TEMPERATURE OF 25 DEGREES WAS SET AT BURNS OR.

5/21 A RECORD LOW TEMPERATURE OF 28 DEGREES WAS SET AT MISSOULA MT.

5/24 A RECORD RAINFALL OF 0.60 INCHES WAS SET AT POCATELLO ID.

5/29 A RECORD HIGH TEMPERATURE OF 92 DEGREES WAS SET AT OMAK WA.

5/30 A RECORD RAINFALL OF 1.01 INCHES WAS SET AT BURNS OR.

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