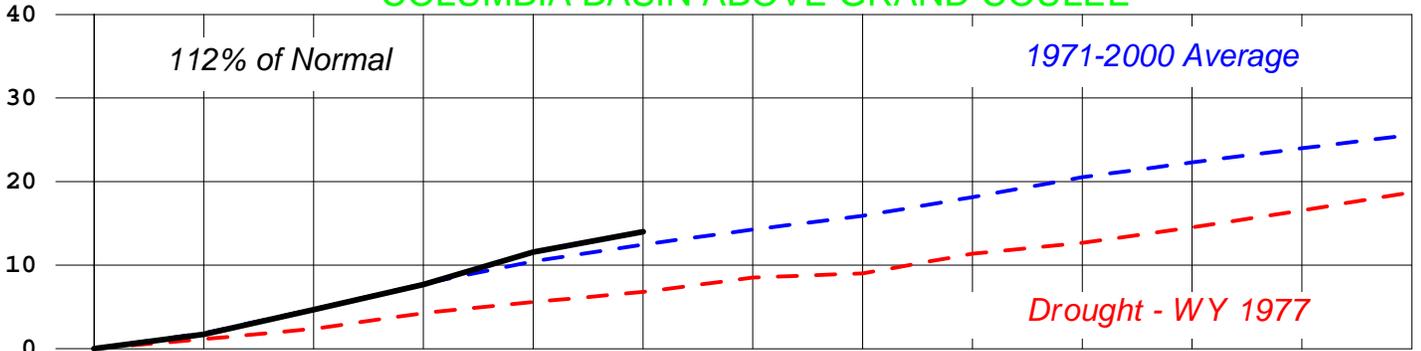
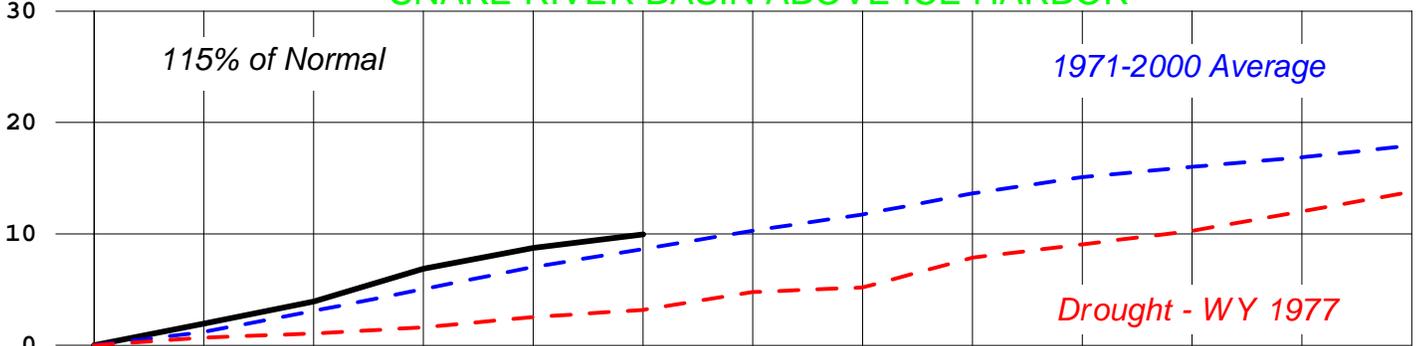


CUMULATIVE PRECIPITATION WATER YEAR 2011

COLUMBIA BASIN ABOVE GRAND COULEE



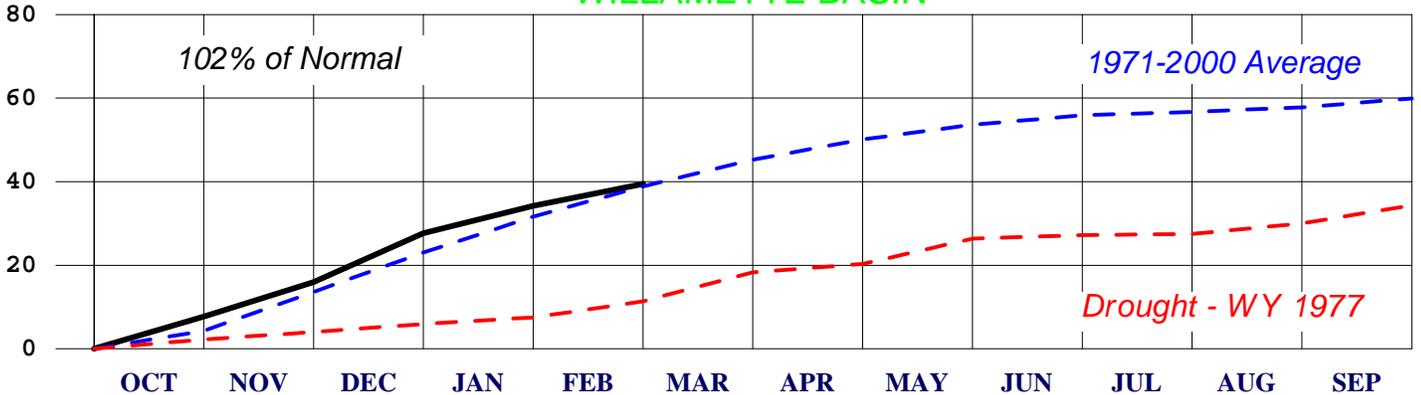
SNAKE RIVER BASIN ABOVE ICE HARBOR



COLUMBIA BASIN ABOVE THE DALLES



WILLAMETTE BASIN



ACCUMULATED PRECIPITATION IN INCHES



Northwest River Forecast Center

Seasonal Divisional Precipitation Summary

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Monthly Divisional Precipitation Summary

Columbia Basin Seasonal Precipitation Division Averages
Northwest River Forecast Center

(Monthly Summary - feb 2011)

DIVISION	..FEB TO DAY 28..		OCT - FEB....		
	OBSD	DEP	PCT AV	OBSD	DEP	PCT AV
COLUMBIA ABOVE COULEE	2.43	0.43	122.	14.00	1.54	112.
SNAKE RV AB ICE HARBOR	1.21	-0.40	75.	9.96	1.32	115.
COLUMBIA AB THE DALLES	2.10	-0.01	100.	13.73	1.36	111.
COLUMBIA AB CASTLEGAR	3.41	0.58	121.	18.46	0.50	103.
KOOTENAI	2.42	0.48	125.	13.69	0.88	107.
CLARK FORK	1.52	0.21	116.	9.57	1.78	123.
FLATHEAD	2.22	0.46	126.	13.51	2.96	128.
PEND OREILLE/ SPOKANE	2.80	-0.24	92.	19.40	1.98	111.
NORTHEAST WASHINGTON	1.05	-0.54	66.	9.60	0.40	104.
OKANOGAN	1.41	0.04	103.	8.06	0.20	103.
EAST SLOPES WASH CASC.	3.70	-1.23	75.	23.93	-4.23	85.
CENTRAL WASHINGTON	0.36	-0.50	42.	4.72	-0.36	93.
UPPER SNAKE	1.40	-0.36	80.	11.91	2.30	124.
SNAKE RIVER PLAIN	0.55	-0.33	63.	6.15	1.17	123.
OWYHEE/ MALHEUR	0.77	-0.23	77.	7.23	1.81	133.
SALMON/ BOISE/ PAYETTE	1.08	-0.98	52.	11.13	0.30	103.
BURN/ GRANDE RONDE	1.13	-0.27	81.	8.78	0.56	107.
CLEARWATER	3.18	0.31	111.	18.59	2.78	118.
SOUTHEAST WASHINGTON	1.68	-0.27	86.	11.77	1.20	111.
UPPER JOHN DAY	0.94	-0.27	78.	8.92	1.63	122.
UMATILLA/ LWR JOHN DAY	1.49	-0.08	95.	10.80	2.07	124.
UPR DESCHUTES/ CROOKED	1.43	-0.09	94.	10.72	2.14	125.
HOOD/ LOWER DESCHUTES	2.64	-0.79	77.	20.88	2.05	111.
NW SLOPE WASH CASCADES	9.17	-0.62	94.	58.33	1.52	103.
SW WA CASCADES/COWLITZ	6.42	-1.99	76.	46.27	-0.12	100.
WILLAMETTE VALLEY	5.28	-1.97	73.	39.47	0.59	102.
ROGUE/ UMPQUA	3.43	-1.09	76.	23.43	-0.26	99.
KLAMATH BASIN	1.20	-0.94	56.	12.15	0.54	105.
LAKE COUNTY-GOOSE LAKE	1.05	-0.16	86.	7.87	1.52	124.
HARNEY/ MALHEUR BASIN	0.74	-0.24	75.	7.40	1.95	136.

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

FEB 11

WEATHER SUMMARY

FEBRUARY STARTED OUT WARM ON THE WEST SIDE AND COOLER THAN NORMAL ON THE EAST SIDE AS HIGH PRESSURE RESIDED OVER THE REGION. THIS QUICKLY CHANGED TO MORE OF A PROGRESSIVE UPPER LEVEL FLOW BY MID WEEK THAT BROUGHT COOL WET WEATHER TO THE REGION. HIGH PRESSURE BUILT AGAIN FOR A SHORT TIME DURING THE SECOND WEEK BEFORE COLD NORTHERLY FLOW AT THE SURFACE AND WESTERLY FLOW ALOFT SET UP BY THE THIRD WEEK. THIS BROUGHT COLD TEMPERATURES AND SOME HEAVY PRECIPITATION TO THE REGION. PROGRESSIVE UPPER LEVEL FLOW HELPED KEEP CONDITIONS STORMY THROUGH THE END OF THE MONTH.

PRECIPITATION SUMMARY

FEBRUARY PRECIPITATION WAS: 115 PERCENT OF NORMAL (1971-2000) AT COLUMBIA ABOVE COULEE, 75 PERCENT OF NORMAL AT THE SNAKE RIVER ABOVE ICE HARBOR, AND 98 PERCENT OF NORMAL AT COLUMBIA ABOVE THE DALLES.

SEASONAL (OCTOBER THROUGH FEBRUARY) PRECIPITATION WAS: 111 PERCENT OF NORMAL (1971-2000) AT COLUMBIA ABOVE COULEE, 115 PERCENT OF NORMAL AT THE SNAKE RIVER ABOVE ICE HARBOR, AND 111 PERCENT OF NORMAL AT COLUMBIA ABOVE THE DALLES.

TEMPERATURE SUMMARY

THE 37 STATION TEMPERATURE INDEX FOR THE PACIFIC NORTHWEST DEPARTED +1.6 DEGREES FROM NORMAL RELATIVE TO THE 1971-2000 NORMALS. MEAN TEMPERATURE DEPARTURES RANGED FROM -4.4 TO 4.8 DEGREES.

GENERAL SUMMARY

SNOW WATER EQUIVALENT (SWE) ACCUMULATIONS AND PRECIPITATION WERE BOTH NEAR AVERAGE DURING FEBRUARY. ONLY WESTERN MONTANA AND NORTHERN IDAHO DRAINAGES HAD ABOVE AVERAGE FEBRUARY PRECIPITATION AND SWE ACCUMULATIONS. THEREFORE STREAM FLOW FORECASTS ARE LITTLE CHANGED TO SLIGHTLY HIGHER THAN FEBRUARY 1ST. THE MARCH 1ST FORECAST FOR THE COLUMBIA RIVER AT THE DALLES CONTINUES AT NEAR THE THIRTY-YEAR AVERAGE.

SNOW SUMMARY

FOR MOST OF THE COLUMBIA-SNAKE BASIN AREA SWE'S INCREASED AT THE AVERAGE RATE DURING FEBRUARY. THE EXCEPTION IS IN WESTERN MONTANA AND ON THE CLEARWATER DRAINAGE IN NORTHERN IDAHO WHERE SWE'S INCREASED BY 10 TO 30 PERCENT. MARCH 1ST SNOW WATER EQUIVALENTS RANGE FROM 130 PERCENT IN MONTANA TO TO 80 PERCENT IN SOUTHERN IDAHO. SWE'S ON MARCH 1ST WEST OF THE CASCADES IMPROVED DURING FEBRUARY AND MEASURE 70 TO 100 PERCENT OF THE 30-YEAR AVERAGE.

STREAMFLOW SUMMARY

FEBRUARY STREAM FLOW WAS NEAR AVERAGE OVER MOST OF THE COLUMBIA RIVER AREA EXCEPT FOR THE SOUTHERN SNAKE AREA WHERE STREAM FLOWS RANGED FROM 60 TO 90 PERCENT. WEST OF THE CASCADES STREAM FLOWS WERE NEAR AVERAGE IN NORTHWEST WASHINGTON AND BELOW AVERAGE IN OTHER WEST SIDE AREAS.

SEASONAL FORECASTS ON MARCH 1ST CHANGED VERY LITTLE FROM LAST MONTH'S FORECASTS. ONLY THE UPPER AND MIDDLE SNAKE DRAINAGES HAVE A SLIGHT DECREASE IN EXPECTED SEASONAL STREAM FLOW. THE COLUMBIA RIVER ABOVE THE DALLES WILL BE NEAR THE 30-YEAR AVERAGE VALUE.

SEE [HTTP://WWW.NWRFC.NOAA.GOV/WATER_SUPPLY/WS_FCST.CGI](http://www.nwrfc.noaa.gov/water_supply/ws_fcst.cgi) FOR 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.

02/02 A RECORD LOW TEMPERATURE OF -21 DEGREES WAS SET AT IDAHO FALLS ID.

02/03 A RECORD HIGH TEMPERATURE OF 59 DEGREES WAS REPORTED AT THE DALLES OR.
 A RECORD HIGH TEMPERATURE OF 63 DEGREES WAS REPORTED AT YAKIMA WA.

02/04 A RECORD HIGH TEMPERATURE OF 60 DEGREES WAS SET AT EUGENE OR.

02/12 A RECORD HIGH TEMPERATURE OF 61 DEGREES WAS SET AT BOISE ID.
A RECORD HIGH TEMPERATURE OF 59 DEGREES WAS SET AT WENATCHEE WA.

02/15 A RECORD HIGH TEMPERATURE OF 55 DEGREES WAS SET AT PULLMAN WA.
A RECORD RAINFALL OF 0.92 INCHES WAS SET AT LEWISTON IDAHO.
A RECORD HIGH TEMPERATURE OF 64 DEGREES WAS SET AT BOISE ID.
A RECORD RAINFALL OF 0.84 INCHES WAS SET AT PENDLETON OR.

02/16 A RECORD RAINFALL OF 0.32 INCHES WAS SET AT MISSOULA MT.

02/20 A RECORD SNOWFALL OF 2.4 INCHES WAS SET AT MISSOULA MT.
A RECORD LOW TEMPERATURE OF 25 DEGREES WAS SET AT ASTORIA OR.
A RECORD LOW TEMPERATURE OF 19 DEGREES WAS TIED AT OLYMPIA WA.

02/23 A RECORD SNOWFALL OF 6.8 INCHES WAS SET AT SPOKANE WA.
A RECORD LOW TEMPERATURE OF 27 DEGREES WAS SET AT SEATAC WA.

02/24 A RECORD LOW TEMPERATURE OF 24 DEGREES WAS SET AT SEATAC WA.
A RECORD SNOWFALL OF 5.4 INCHES WAS SET AT SPOKANE WA.
A RECORD LOW TEMPERATURE OF 3 DEGREES WAS SET AT SPOKANE WA.
A RECORD LOW TEMPERATURE OF 4 DEGREES WAS SET AT PULLMAN WA.

02/25 A RECORD LOW TEMPERATURE OF 12 DEGREES WAS SET AT LEWISTON ID.
A RECORD LOW TEMPERATURE OF -12 DEGREES WAS SET AT PULLMAN WA.
A RECORD LOW TEMPERATURE OF -10 DEGREES WAS SET AT SPOKANE WA.
A RECORD LOW TEMPERATURE OF 6 DEGREES WAS SET AT PENDLETON OR.
A RECORD LOW TEMPERATURE OF 16 DEGREES WAS SET AT BELLINGHAM WA.
A RECORD LOW TEMPERATURE OF 5 DEGREES WAS SET AT OLYMPIA WA.

02/26 A RECORD LOW TEMPERATURE OF 8 DEGREES WAS SET AT OLYMPIA WA.
A RECORD LOW TEMPERATURE OF 9 DEGREES WAS SET AT THE DALLES OR.
A RECORD LOW TEMPERATURE OF 4 DEGREES WAS SET AT YAKIMA WA.
A RECORD LOW TEMPERATURE OF -16 DEGREES WAS SET AT MCCALL ID.