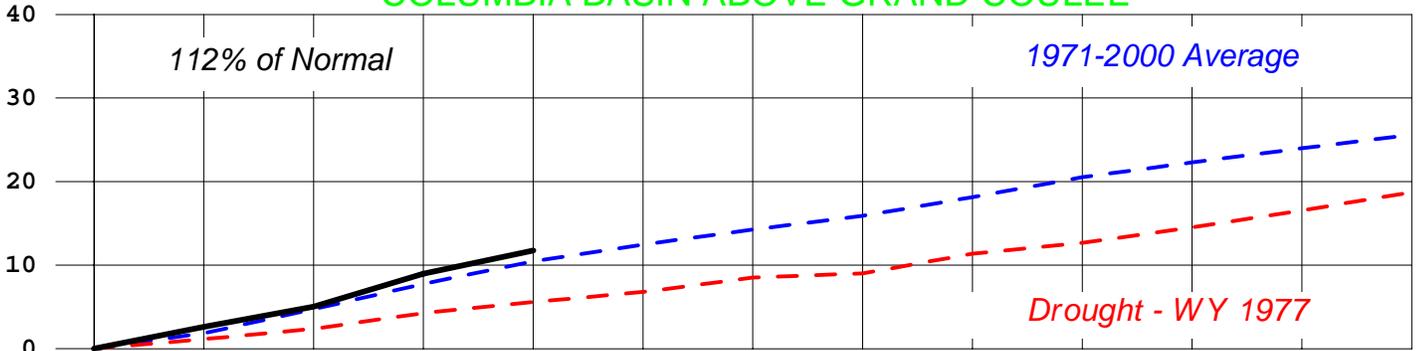
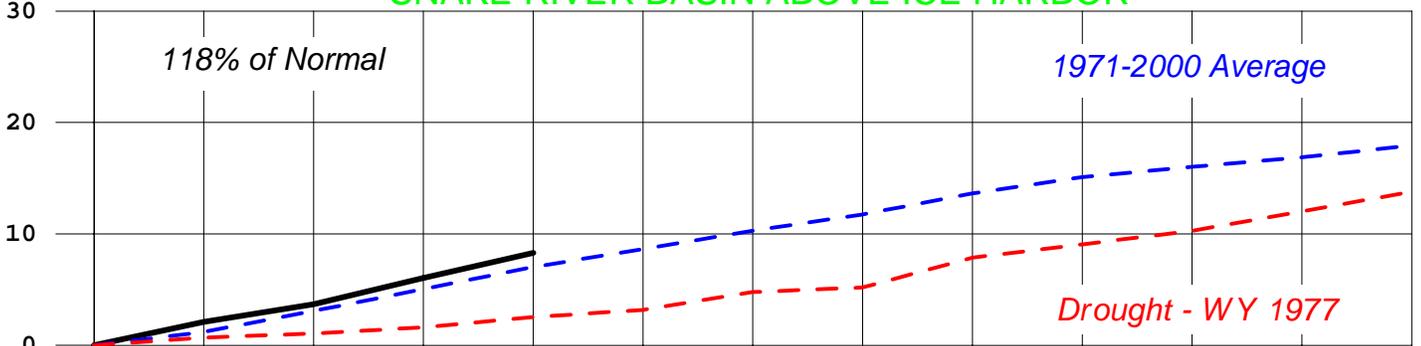


CUMULATIVE PRECIPITATION WATER YEAR 2008

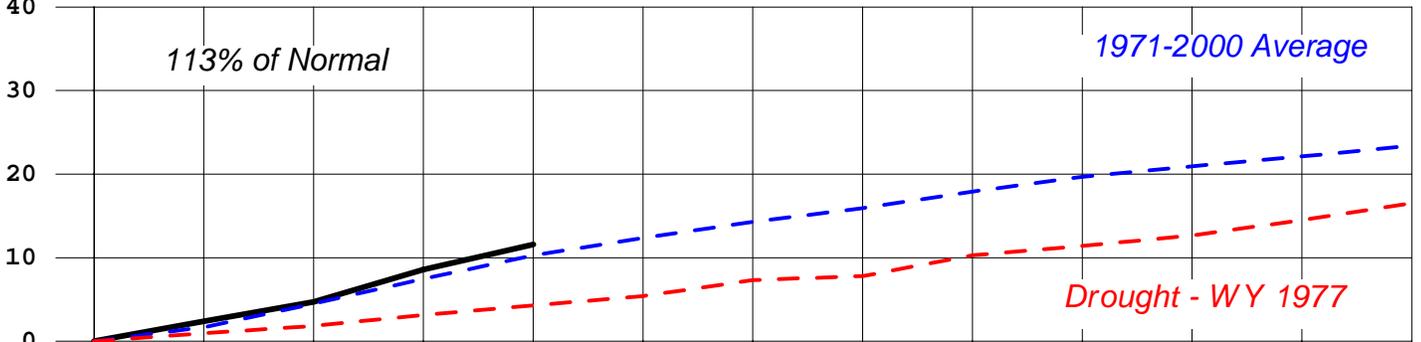
COLUMBIA BASIN ABOVE GRAND COULEE



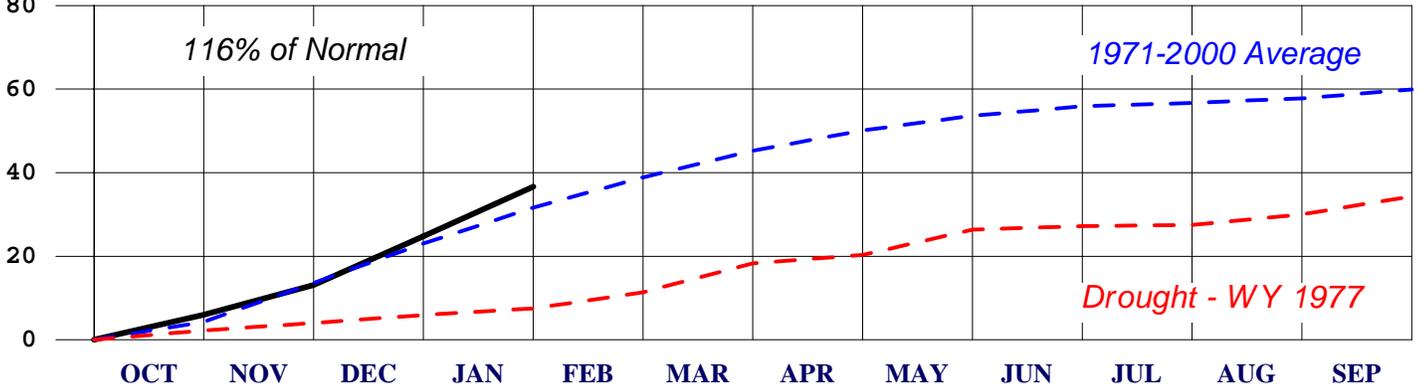
SNAKE RIVER BASIN ABOVE ICE HARBOR



COLUMBIA BASIN ABOVE THE DALLES



WILLAMETTE BASIN



ACCUMULATED PRECIPITATION IN INCHES

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

ROGUE/ UMPQUA	2.16	-1.73	55.	26.10	3.03	113.
KLAMATH BASIN	0.98	-0.87	53.	12.33	1.02	109.
LAKE COUNTY-GOOSE LAKE	0.51	-0.54	49.	5.76	-0.42	93.
HARNEY/ MALHEUR BASIN	0.77	-0.07	91.	5.62	0.30	106.

This precipitation summary for the Columbia River Basin is based on analysis using a limited number of reporting stations. Final values depicted in this narrative are prorated by the number of elapsed days in the month.

Precipitation normals are based on 1971-2000 historical data.

Please contact NWRFC for further information: (503) 326-7291.

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Monthly Divisional Precipitation Summary

[Click on date to display forecast:](#)

1/2008	Select Date
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COLUMBIA BASIN SEASONAL PRECIPITATION DIVISION AVERAGES NORTHWEST RIVER FORECAST CENTER

(MONTHLY SUMMARY - JAN 2008)

DIVISION	..JAN TO DAY 31..		OCT - JAN....			
	OBSD	DEP	PCT AV	OBSD	DEP	PCT	AV
COLUMBIA ABOVE COULEE	2.80	0.09	103.	11.76	1.30	112.	
SNAKE RV AB ICE HARBOR	2.27	0.29	115.	8.30	1.26	118.	
COLUMBIA AB THE DALLES	2.95	0.16	106.	11.58	1.32	113.	
COLUMBIA AB CASTLEGAR	3.14	-0.87	78.	16.65	1.52	110.	
KOOTENAI	2.94	0.17	106.	11.51	0.64	106.	
CLARK FORK	1.81	0.03	102.	7.38	0.90	114.	
FLATHEAD	2.78	0.53	124.	9.05	0.26	103.	
PEND OREILLE/ SPOKANE	4.91	1.03	126.	17.16	2.78	119.	
NORTHEAST WASHINGTON	2.46	0.60	132.	8.16	0.55	107.	
OKANOGAN	1.75	0.02	101.	7.16	0.67	110.	
EAST SLOPES WASH CASC.	5.63	-1.06	84.	23.72	0.49	102.	
CENTRAL WASHINGTON	0.94	-0.12	89.	3.60	-0.62	85.	
UPPER SNAKE	3.47	1.22	154.	10.36	2.51	132.	
SNAKE RIVER PLAIN	0.78	-0.36	68.	4.07	-0.03	99.	
OWYHEE/ MALHEUR	1.30	0.05	104.	4.48	0.06	101.	
SALMON/ BOISE/ PAYETTE	3.02	0.53	121.	10.85	2.08	124.	
BURNT/ GRANDE RONDE	1.79	-0.06	97.	8.19	1.37	120.	
CLEARWATER	3.53	-0.08	98.	13.89	0.95	107.	
SOUTHEAST WASHINGTON	2.34	0.10	105.	8.72	0.10	101.	
UPPER JOHN DAY	2.43	0.82	151.	7.45	1.37	123.	
UMATILLA/ LWR JOHN DAY	2.59	0.67	135.	9.48	2.32	132.	
UPR DESCHUTES/ CROOKED	2.62	0.52	125.	8.23	1.17	117.	
HOOD/ LOWER DESCHUTES	4.65	0.33	108.	18.50	3.10	120.	

NW SLOPE WASH CASCADES	9.86	-2.80	78.	42.58	-4.44	91.
SW WA CASCADES/COWLITZ	9.69	-0.62	94.	37.01	-0.97	97.
WILLAMETTE VALLEY	11.91	3.33	139.	36.68	5.05	116.
ROGUE/ UMPQUA	7.90	2.79	155.	23.94	4.77	125.
KLAMATH BASIN	3.94	1.12	140.	11.36	1.89	120.
LAKE COUNTY-GOOSE LAKE	1.72	0.30	121.	5.26	0.11	102.
HARNEY/ MALHEUR BASIN	1.81	0.62	152.	4.85	0.38	108.

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.

AFTER A WARM START TO THE MONTH, JANUARY 2008 ENDED UP COLDER THAN NORMAL FOR NEARLY THE ENTIRE NWRFC AREA. DURING THE MID-MONTH PERIOD A SIGNIFICANT PATTERN TRANSITION OCCURRED, AND COLD NORTH TO NORTHWEST FLOW BEGAN TO PREVAIL ACROSS THE PACIFIC NORTHWEST. VERY COLD ARCTIC AIRMASSSES BEGAN TO CHANNEL SOUTHWARD THROUGH THE MOUNTAIN VALLEYS OF BRITISH COLUMBIA, AND INTO INTERIOR PORTIONS OF THE NORTHWESTERN UNITED STATES. AS A RESULT SNOW LEVELS WERE AT OR NEAR VALLEY FLOORS EAST OF THE CASCADES AND JUST ABOVE VALLEY FLOORS WEST OF THE CASCADES FOR MUCH OF THE LATTER HALF OF JANUARY.

DESPITE THE COLD NORTH TO NORTHWEST FLOW ALOFT, THE FLOW AT LOWER LEVELS STILL HAD ENOUGH OVERWATER TRAJECTORY TO BRING PLENTY OF MOISTURE INTO SOUTHERN WASHINGTON AND OREGON. THE COMBINATION OF ONSHORE FLOW AND COLD AIR ALLOWED UNUSUALLY LARGE AMOUNTS OF SNOW TO PILE UP ON RELATIVELY LOW ELEVATIONS OF THE OREGON CASCADES AND COAST RANGE. DISTURBANCES WHICH TRACKED ACROSS OREGON AND SOUTHERN WASHINGTON THEN MOVED INLAND, BRINGING PLENTY OF SNOW TO MUCH OF IDAHO, AS WELL AS THE INTERIOR OF WASHINGTON AND OREGON.

PRECIPITATION SUMMARY

EARLY IN THE MONTH, WHEN TEMPERATURES WERE MILD, A STRONG STORM SYSTEM MOVED INTO THE PACIFIC NORTHWEST JANUARY 2-4. THIS SYSTEM BROUGHT SIGNIFICANT RAIN TO WESTERN WASHINGTON AND WESTERN OREGON, BUT THE HEAVIEST PRECIPITATION FELL AS THE FRONTAL SYSTEM MOVED INTO CENTRAL AND SOUTHERN OREGON. ALSO, LOCALLY HEAVY PRECIPITATION SPREAD INTO INTERIOR WASHINGTON AND OREGON, AS WELL AS PORTIONS OF NORTHERN AND CENTRAL IDAHO. THIS SYSTEM WAS PRIMARILY RESPONSIBLE FOR THE ABOVE-NORMAL JAN 2008 PRECIPITATION TOTALS IN SOUTHERN OREGON.

SEASONABLY COOL ONSHORE FLOW PREVAILED THROUGH THE SECOND WEEK OF JANUARY, WITH SNOW CONTINUING TO PILE UP IN THE CASCADES AND INTERIOR MOUNTAINS. DURING THE MID-MONTH PERIOD A PATTERN TRANSITION OCCURRED TO A COLDER, DRIER MODIFIED ARCTIC AIRMASS. TEMPERATURES PLUMMETED ACROSS MUCH OF THE NWRFC AREA AND PRECIPITATION BECAME SCARCE. SEVERAL DRY DAYS OCCURRED WEST OF THE CASCADES AS COLD OFFSHORE FLOW DEVELOPED. FLOW EVENTUALLY TURNED BACK ONSHORE TOWARD THE END OF THE MONTH, AND COUPLED WITH THE COLD AIRMASS IN PLACE TO GENERATE PERSISTENT SNOW TO LOW ELEVATIONS.

EAST OF THE CASCADES, OCCASIONAL DISTURBANCES TRACKED INTO THE SPOKANE AREA AND NORTH-CENTRAL IDAHO, BRINGING ABUNDANT

PRECIPITATION TO THE INTERIOR. ONLY PORTIONS OF THE MID-UPPER SNAKE PLAIN, THE SALMON AREA OF IDAHO, AND WEST-CENTRAL MONTANA MISSED OUT ON THE HEAVIER PRECIPITATION. ALSO THE COLUMBIA HEADWATERS AND PORTIONS OF THE MID-COLUMBIA BASIN FELL SHORT OF MONTHLY PRECIPITATION NORMALS AS MOST DISTURBANCES TRACKED WELL SOUTH OF THE US/CANADA BORDER. JUST ABOUT EVERYONE ELSE RECEIVED NEAR TO ABOVE NORMAL PRECIPITATION ACROSS THE INTERIOR.

JANUARY PRECIPITATION WAS: 103 PERCENT OF NORMAL (1971-2000) AT COLUMBIA ABOVE COULEE, 115 PERCENT OF NORMAL AT THE SNAKE RIVER ABOVE ICE HARBOR, AND 106 PERCENT OF NORMAL AT COLUMBIA ABOVE THE DALLES.

SEASONAL (OCTOBER THROUGH JANUARY) PRECIPITATION WAS: 112 PERCENT OF NORMAL (1971-2000) AT COLUMBIA ABOVE COULEE, 118 PERCENT OF NORMAL AT THE SNAKE RIVER ABOVE ICE HARBOR, AND 113 PERCENT OF NORMAL AT COLUMBIA ABOVE THE DALLES.

.END

LISTED BELOW IS AN UNOFFICIAL SUMMARY OF NEW PRECIPITATION RECORDS REPORTED BY NWS FORECAST OFFICES DURING THE MONTH OF JANUARY 2008. FOR OFFICIAL INFORMATION, PLEASE CONTACT YOUR LOCAL FORECAST OFFICE OR THE NATIONAL CLIMATIC DATA CENTER.

DAILY MAXIMUM PRECIPITATION RECORDS

ON JANUARY 3, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
SEATTLE, WA	0.58 INCHES	0.48 INCHES IN 1987

ON JANUARY 4, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
WINTHROP, WA	1.40 INCHES	0.67 INCHES IN 1914
WENATCHEE, WA	0.46 INCHES	0.18 INCHES IN 2003
CHIEF JOSEPH DAM, WA	0.45 INCHES (T)	0.45 INCHES IN 1986
GRAND COULEE DAM, WA	0.30 INCHES	0.25 INCHES IN 2003

ON JANUARY 9, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
COEUR D'ALENE, ID	0.54 INCHES	0.45 INCHES IN 1970

ON JANUARY 26, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
MULLAN PASS, ID	0.94 INCHES	0.69 INCHES IN 1954

ON JANUARY 27, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
COEUR D'ALENE, ID	1.70 INCHES	1.27 INCHES IN 1970
MULLAN PASS, ID	1.41 INCHES	0.73 INCHES IN 1954
KELLOGG, ID	0.95 INCHES	0.71 INCHES IN 1992
LACROSSE, WA	0.75 INCHES	0.49 INCHES IN 1954
RITZVILLE, WA	0.54 INCHES	0.48 INCHES IN 1970
PRIEST RAPIDS DAM, WA	0.15 INCHES	0.10 INCHES IN 1959

ON JANUARY 31, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
STANLEY, ID	0.43 INCHES	0.12 INCHES IN 1980
ELKO, NV	0.37 INCHES	0.30 INCHES IN 1952

TEMPERATURE SUMMARY

EARLY IN THE MONTH, TEMPERATURES AVERAGED NEAR TO A FEW DEGREES ABOVE NORMAL FOR THE PACIFIC NORTHWEST. ONCE THE MID-MONTH PATTERN TRANSITION OCCURRED, SEVERAL DAYS OF 10 TO 20 DEGREE BELOW NORMAL TEMPERATURES WERE OBSERVED AT MOST REPORTING STATIONS IN THE PACIFIC NORTHWEST. WITH FRESH SNOW COVER AND AN ARCTIC AIRMASS IN PLACE, TEMPERATURES OFTEN BOTTOMED OUT OVERNIGHT WHEN SKIES CLEARED. WIDESPREAD SUBZERO LOW TEMPERATURES WERE OFTEN REPORTED FROM THE CASCADES EAST AFTER JANUARY 20. TEMPERATURES IN THE COLDEST VALLEYS OCCASIONALLY DIPPED AS LOW AS -30 TO -40 DEGREES FAHRENHEIT. THE EXTREME COLD CREATED IDEAL CONDITIONS FOR SNOWPACK BUILDING, AND ALSO GENERATED PLENTY OF RIVER ICE IN INTERIOR DRAINAGES.

THE 31 STATION TEMPERATURE INDEX FOR THE PACIFIC NORTHWEST DEPARTED -2.1 DEGREES FROM NORMAL RELATIVE TO THE 1971-2000 NORMALS. MEAN TEMPERATURE DEPARTURES RANGED FROM -7.9 TO 1.1 DEGREES.

THE FOLLOWING IS A LIST SUMMARIZING SOME OF THE TEMPERATURE RECORDS BROKEN DURING THE MONTH OF JANUARY 2008:

NOTE: THE FOLLOWING IS AN UNOFFICIAL SUMMARY BASED ON RECORD EVENT REPORTS ISSUED BY LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICES. FOR OFFICIAL INFORMATION, PLEASE CONTACT YOUR LOCAL FORECAST OFFICE OR THE NATIONAL CLIMATIC DATA CENTER.

RECORD HIGH TEMPERATURES (DEGREES F) TIED OR BROKEN IN JANUARY WERE

ON JANUARY 4, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
WALLA WALLA, WA	60	59 SET IN 1994
IDAHO FALLS, ID	44	43 SET IN 1994

ON JANUARY 5, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
NORTHPORT, WA	45	42 SET IN 1933

RECORD LOW TEMPERATURES (DEGREES F) TIED OR BROKEN IN JANUARY WERE:

ON JANUARY 16, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
PLUMMER, ID	7	8 SET IN 1997

ON JANUARY 21, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
POTOMAC, MT	-34	-25 SET IN 1982
LIBBY 32 SSE, MT	-33	-5 SET IN 2007
OLNEY, MT	-28	-16 SET IN 1982
MEACHAM, OR	-19	-12 SET IN 1962
BOUNDARY DAM, WA	-9 (T)	-9 SET IN 1969
SHOUP, ID	-7	-6 SET IN 1984
HOLDEN VILLAGE, WA	-6	-2 SET IN 1969
SEATTLE, WA	26	29 SET IN 1991

ON JANUARY 22, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
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STANLEY, ID	-30	-24 SET IN 1995
MEACHAM, OR	-23	-6 SET IN 1962
EPHRATA, WA	-5	0 SET IN 1962
MADRAS, OR	4	9 SET IN 1979
SEATTLE, WA	25	29 SET IN 1991

ON JANUARY 23, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
OMAK, WA	-9 (T)	-9 SET IN 1932
LA GRANDE, OR	-4	0 SET IN 1979
MADRAS, OR	4	10 SET IN 1979
SEATTLE, WA	28 (T)	28 SET IN 1989

ON JANUARY 24, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
REDMOND, OR	-1	0 SET IN 1969
WHITMAN MISSION, WA	4	8 SET IN 1969
MADRAS, OR	4	5 SET IN 1957
SEATTLE, WA	26	31 SET IN 1999

ON JANUARY 25, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
BOUNDARY DAM, WA	-8	-3 SET IN 1969
WENATCHEE, WA	4	7 SET IN 1969
PLUMMER, ID	10	13 SET IN 1999
SEATTLE, WA	24	27 SET IN 1997

ON JANUARY 26, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
BOUNDARY DAM, WA	-5	-3 SET IN 1979

ON JANUARY 27, 2008:

LOCATION	NEW RECORD	PREVIOUS RECORD
BOUNDARY DAM, WA	-5	-3 SET IN 1979
WENATCHEE, WA	4	7 SET IN 1969
PLAIN, WA	14	15 SET IN 1972

US Dept of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
Northwest River Forecast Center (NWRFC)
5241 NE 122nd Avenue
Portland, Oregon 97230-1089
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