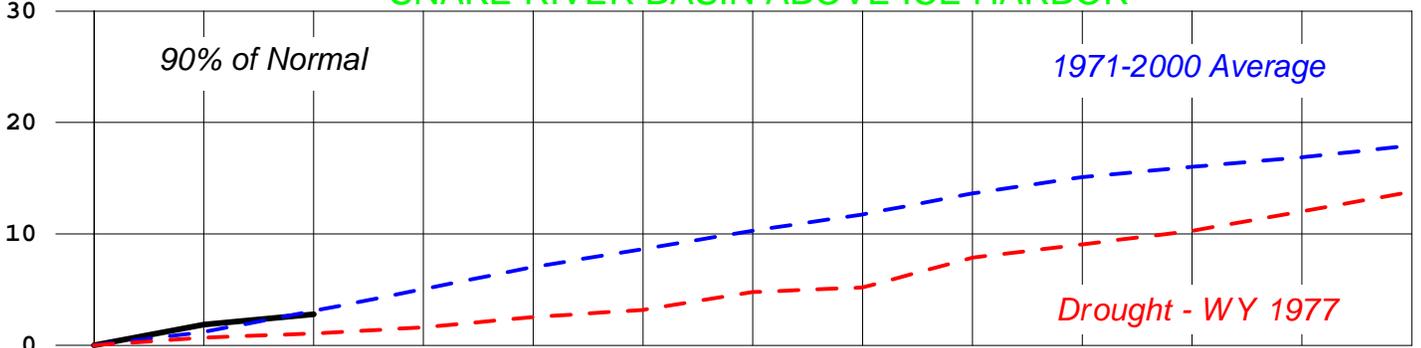


# CUMULATIVE PRECIPITATION WATER YEAR 2010

## 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

# Water Supply Precipitation Summary

## Weekly Divisional Precipitation Summary

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11/24/2009

### Columbia Basin Seasonal Precipitation Division Averages Northwest River Forecast Center

(Weekly Summary: 12Z nov 1 - 23, 2009)

DIVISION	..NOV TO DAY 23..			....OCT - NOV....		
	OBSD	DEP	PCT AV	OBSD	DEP	PCT AV
COLUMBIA ABOVE COULEE	1.46	-0.75	66.	4.50	0.44	111.
SNAKE RV AB ICE HARBOR	0.75	-0.70	52.	2.59	-0.05	98.
COLUMBIA AB THE DALLES	1.55	-0.62	72.	4.38	0.55	114.
COLUMBIA AB CASTLEGAR	2.62	-0.47	85.	7.25	1.36	123.
KOOTENAI	1.53	-0.84	65.	4.77	0.55	113.
CLARK FORK	0.66	-0.65	51.	2.38	-0.11	96.
FLATHEAD	0.99	-0.86	54.	3.54	0.01	100.
PEND OREILLE/ SPOKANE	1.57	-1.61	49.	5.03	-0.30	94.
NORTHEAST WASHINGTON	1.16	-0.54	68.	3.24	0.39	114.
OKANOGAN	1.28	-0.08	94.	3.07	0.71	130.
EAST SLOPES WASH CASC.	4.75	-0.30	94.	9.43	1.59	120.
CENTRAL WASHINGTON	0.36	-0.57	39.	1.41	-0.13	92.
UPPER SNAKE	0.56	-0.93	38.	2.78	-0.23	92.
SNAKE RIVER PLAIN	0.31	-0.52	37.	1.65	-0.04	98.
OWYHEE/ MALHEUR	0.58	-0.34	63.	1.86	0.20	112.
SALMON/ BOISE/ PAYETTE	1.07	-0.78	58.	3.47	0.38	112.
BURNT/ GRANDE RONDE	0.71	-0.81	47.	2.42	-0.15	94.
CLEARWATER	1.61	-1.17	58.	3.89	-1.05	79.
SOUTHEAST WASHINGTON	1.12	-0.83	57.	3.09	-0.31	91.
UPPER JOHN DAY	0.71	-0.64	53.	2.45	0.13	106.
UMATILLA/ LWR JOHN DAY	1.08	-0.58	65.	3.02	0.20	107.
UPR DESCHUTES/ CROOKED	0.98	-0.56	64.	2.83	0.38	115.
HOOD/ LOWER DESCHUTES	4.04	0.68	120.	7.34	1.91	135.
NW SLOPE WASH CASCADES	13.82	3.26	131.	26.42	8.50	147.
SW WA CASCADES/COWLITZ	10.03	1.56	118.	17.32	3.32	124.
WILLAMETTE VALLEY	7.11	-0.04	99.	12.80	1.36	112.
ROGUE/ UMPQUA	3.18	-1.25	72.	6.39	-0.61	91.
KLAMATH BASIN	1.33	-0.69	66.	2.80	-0.37	88.
LAKE COUNTY-GOOSE LAKE	0.75	-0.36	68.	1.86	-0.10	95.
HARNEY/ MALHEUR BASIN	0.59	-0.35	63.	1.93	0.20	112.

This precipitation summary for the Columbia River Basin is based on an 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.

## Monthly Divisional Precipitation Summary

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

11/2009

Columbia Basin Seasonal Precipitation Division Averages  
Northwest River Forecast Center

(Monthly Summary - nov 2009)

DIVISION	..NOV TO DAY 30..			....OCT - NOV....		
	OBSD	DEP	PCT AV	OBSD	DEP	PCT AV
COLUMBIA ABOVE COULEE	1.84	-1.04	64.	4.88	0.15	103.
SNAKE RV AB ICE HARBOR	0.93	-0.95	49.	2.77	-0.31	90.
COLUMBIA AB THE DALLES	1.84	-0.99	65.	4.67	0.18	104.
COLUMBIA AB CASTLEGAR	2.77	-1.26	69.	7.41	0.58	108.
KOOTENAI	1.79	-1.30	58.	5.03	0.09	102.
CLARK FORK	0.85	-0.86	50.	2.56	-0.33	89.
FLATHEAD	1.22	-1.19	50.	3.77	-0.32	92.
PEND OREILLE/ SPOKANE	3.11	-1.04	75.	6.56	0.27	104.
NORTHEAST WASHINGTON	1.76	-0.46	79.	3.84	0.47	114.
OKANOGAN	1.29	-0.48	73.	3.09	0.31	111.
EAST SLOPES WASH CASC.	5.41	-1.17	82.	10.09	0.72	108.
CENTRAL WASHINGTON	0.63	-0.58	52.	1.68	-0.14	92.
UPPER SNAKE	0.65	-1.30	33.	2.86	-0.60	83.
SNAKE RIVER PLAIN	0.31	-0.77	29.	1.65	-0.29	85.
OWYHEE/ MALHEUR	0.55	-0.65	46.	1.83	-0.11	94.
SALMON/ BOISE/ PAYETTE	1.17	-1.24	48.	3.57	-0.08	98.
BURNT/ GRANDE RONDE	0.97	-1.01	49.	2.68	-0.35	88.
CLEARWATER	2.31	-1.31	64.	4.60	-1.19	79.
SOUTHEAST WASHINGTON	1.33	-1.21	52.	3.30	-0.69	83.
UPPER JOHN DAY	0.86	-0.91	48.	2.59	-0.14	95.
UMATILLA/ LWR JOHN DAY	1.37	-0.79	63.	3.31	-0.02	100.
UPR DESCHUTES/ CROOKED	1.14	-0.86	57.	2.99	0.07	102.
HOOD/ LOWER DESCHUTES	4.08	-0.31	93.	7.37	0.92	114.
NW SLOPE WASH CASCADES	14.20	0.43	103.	26.80	5.67	127.
SW WA CASCADES/COWLITZ	10.19	-0.86	92.	17.48	0.90	105.
WILLAMETTE VALLEY	7.52	-1.80	81.	13.21	-0.40	97.
ROGUE/ UMPQUA	3.95	-1.83	68.	7.16	-1.18	86.
KLAMATH BASIN	1.59	-1.05	60.	3.07	-0.72	81.
LAKE COUNTY-GOOSE LAKE	0.88	-0.57	61.	1.99	-0.31	86.
HARNEY/ MALHEUR BASIN	0.67	-0.55	55.	2.01	0.00	100.

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

OCT 09

WEATHER SUMMARY

PROGRESSIVE COLD WEATHER SYSTEMS BROUGHT CHILLY TEMPERATURES AND COPIOUS RAIN AND SNOW TO THE COLUMBIA BASIN DURING THE FIRST HALF OF OCTOBER. DURING THE FIRST WEEK...COLD TEMPERATURES STAYED MAINLY EAST OF THE CASCADE MOUNTAINS... BUT MOVED INTO THE ENTIRE REGION BY THE SECOND WEEK AS A

ARCTIC FRONT MOVED THROUGH FROM THE NORTH. HIGH PRESSURE BROUGHT SOME RELIEF TO THE NORTHWEST AT THE BEGINNING OF THE THIRD WEEK...BUT THIS WAS SHORT LIVED. BY MID MONTH...A STRONG WARM SYSTEM BROUGHT ANOTHER SIGNIFICANT RAINFALL TO THE NORTHWEST U.S. AND SOUTHERN BRITISH COLUMBIA. PROGRESSIVE UPPER LEVEL FLOW BROUGHT A SERIES OF COLD FRONTAL SYSTEMS INTO THE REGION THROUGH THE THIRD AND FOURTH WEEKS.

#### PRECIPITATION SUMMARY

SEPTEMBER PRECIPITATION WAS: 114 PERCENT OF NORMAL (1971-2000) AT COLUMBIA ABOVE COULEE, 181 PERCENT OF NORMAL AT THE SNAKE RIVER ABOVE ICE HARBOR, AND 131 PERCENT OF NORMAL AT COLUMBIA ABOVE THE DALLES.

SEASONAL (OCTOBER THROUGH SEPTEMBER) PRECIPITATION WAS: 51 PERCENT OF NORMAL (1971-2000) AT COLUMBIA ABOVE COULEE, 25 PERCENT OF NORMAL AT THE SNAKE RIVER ABOVE ICE HARBOR, AND 47 PERCENT OF NORMAL AT COLUMBIA ABOVE THE DALLES.

#### TEMPERATURE SUMMARY

THE 37 STATION TEMPERATURE INDEX FOR THE PACIFIC NORTHWEST DEPARTED +0.7 DEGREES FROM NORMAL RELATIVE TO THE 1971-2000 NORMALS. MEAN TEMPERATURE DEPARTURES RANGED FROM -1.3 TO 2.7 DEGREES.

#### 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.

10/01 A RECORD LOW TEMPERATURE OF 16 DEGREES WAS SET AT BURNS OR.

10/02 A RECORD LOW TEMPERATURE OF 23 DEGREES WAS SET AT POCATELLO ID.

10/04 A RECORD RAINFALL FO 0.42 INCHES WAS SET AT PENDLETON OR.

10/06 A RECORD LOW TEMPERATURE OF 29 DEGREES WAS SET AT EUGENE OR.

10/08 A RECORD LOW TEMPERATURE OF 21 DEGREES WAS SET AT PULLMAN WA.  
A RECORD LOW TEMPERATURE OF 14 DEGREES WAS SET AT KALISPELL MT.

10/09 A RECORD LOW TEMPERATURE OF 10 DEGREES WAS SET AT KALISPELL MT.  
A RECORD SNOWFALL OF 1 INCH WAS SET AT MISSOULA MT TODAY

10/10 A RECORD LOW TEMPERATURE OF 10 DEGREES WAS SET AT MISSOULA MT.  
A RECORD LOW TEMPERATURE OF 5 DEGREES WAS SET AT KALISPELL MT.  
A RECORD LOW TEMPERATURE OF 23 DEGREES WAS SET AT SPOKANE WA.  
A RECORD LOW TEMPERATURE OF 11 DEGREES WAS SET AT PULLMAN WA.  
A RECORD LOW TEMPERATURE OF 19 DEGREES WAS SET AT COEUR D'ALENE ID.

10/11 A RECORD LOW TEMPERATURE OF 28 DEGREES WAS SET AT OLYMPIA WA.  
A RECORD LOW TEMPERATURE OF 17 DEGREES WAS SET AT MOSES LAKE WA.  
A RECORD LOW TEMPERATURE OF 8 DEGREES WAS SET AT PULLMAN WA.  
A RECORD LOW TEMPERATURE OF 20 DEGREES WAS SET AT SPOKANE WA.  
A RECORD LOW TEMPERATURE OF 23 DEGREES WAS SET AT WENATCHEE WA  
A RECORD LOW TEMPERATURE OF 11 DEGREES WAS SET AT MISSOULA MT.  
A RECORD LOW TEMPERATURE OF 11 DEGREES WAS SET AT BUTTE MT.  
A RECORD LOW TEMPERATURE OF 6 DEGREES WAS SET AT KALISPELL MT.  
A RECORD LOW TEMPERATURE OF 21 DEGREES WAS SET AT PENDLETON OR.  
A RECORD LOW TEMPERATURE OF 26 DEGREES WAS SET AT WALLA WALLA WA.  
A RECORD LOW TEMPERATURE OF 14 DEGREES WAS SET AT CHALLIS ID.

10/12 A RECORD LOW TEMPERATURE OF 25 DEGREES WAS SET AT BELLINGHAM WA.  
A RECORD LOW TEMPERATURE OF 8 DEGREES WAS SET AT MISSOULA MT.

A RECORD LOW TEMPERATURE OF 2 DEGREES WAS SET AT KALISPELL MT.  
A RECORD LOW TEMPERATURE OF 6 DEGREES WAS SET AT BUTTE MT.  
A RECORD LOW TEMPERATURE OF 18 DEGREES WAS SET AT COEUR D'ALENE ID.  
A RECORD LOW TEMPERATURE OF 13 DEGREES WAS SET AT PULLMAN WA.  
A RECORD LOW TEMPERATURE OF 29 DEGREES WAS SET AT WENATCHEE WA.  
A RECORD LOW TEMPERATURE OF 21 DEGREES WAS SET AT PENDLETON OR.

10/13 RECORD HIGH PRECIPITATION OF 0.28 INCHES WAS SET AT PENDLETON OR.

10/14 A RECORD RAINFALL OF 0.49 INCHES WAS SET AT HILLSBORO OR.

10/17 A RECORD LOW TEMPERATURE OF 23 DEGREES WAS SET AT PULLMAN WA.

A RECORD RAINFALL OF 1.24 INCHES WAS SET AT SEA-TAC WA.

A RECORD RAINFALL OF 1.19 INCHES WAS SET AT OLYMPIA WA.

10/19 A RECORD RAINFALL OF 0.76 INCHES WAS SET AT BUTTE MT.

10/26 A RECORD RAINFALL OF 1.17 INCHES WAS SET AT MULLAN PASS ID.

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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  
Telephone: 503-326-7401

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Last Modified: June 5, 2009