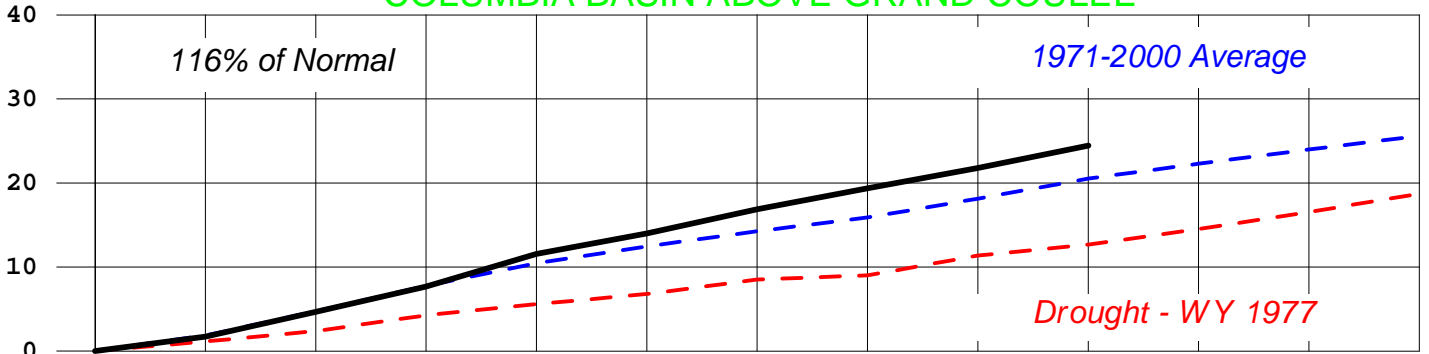
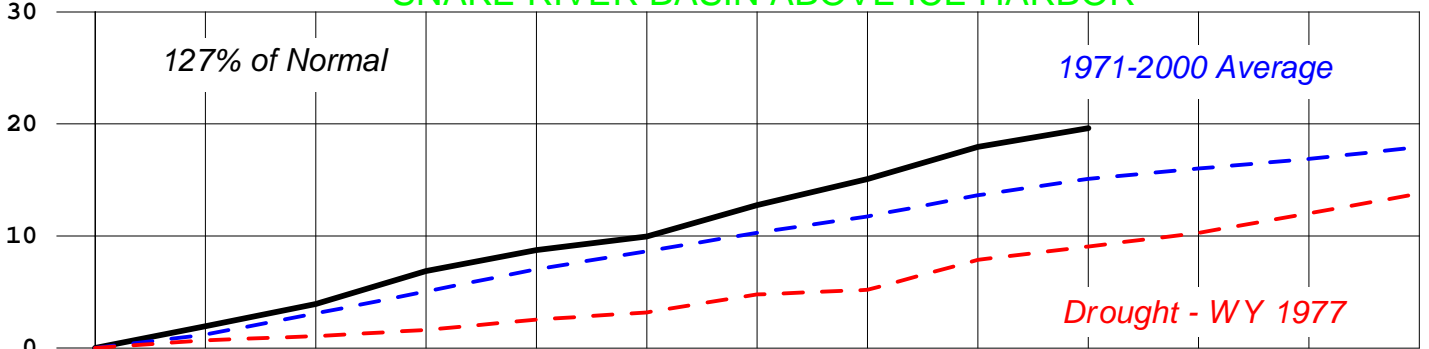


CUMULATIVE PRECIPITATION WATER YEAR 2011

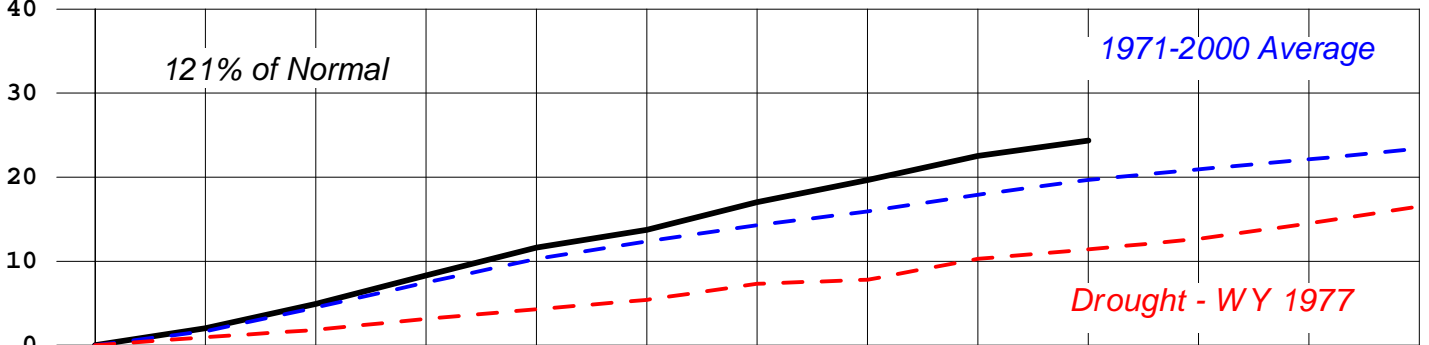
COLUMBIA BASIN ABOVE GRAND COULEE



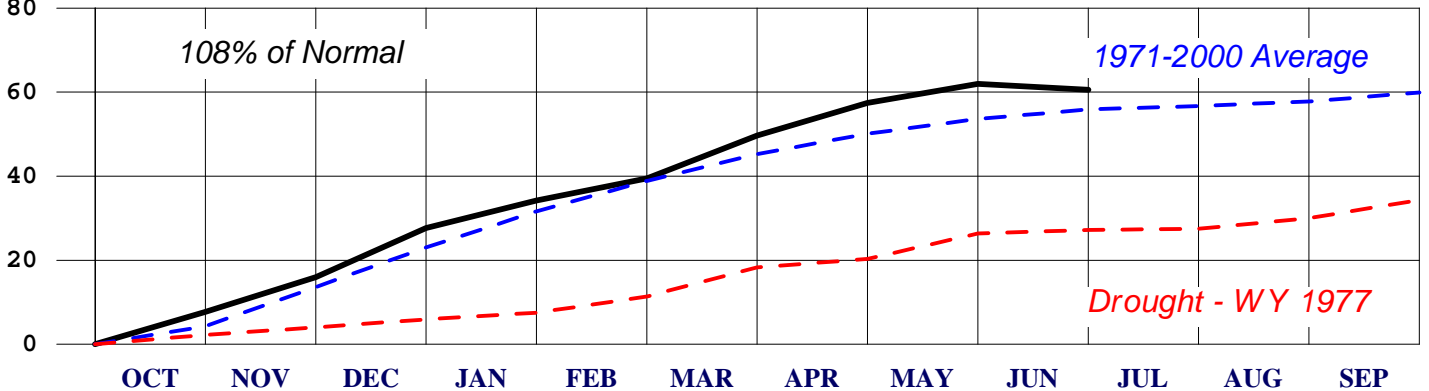
SNAKE RIVER BASIN ABOVE ICE HARBOR



COLUMBIA BASIN ABOVE THE DALLES



WILLAMETTE BASIN



ACCUMULATED PRECIPITATION IN INCHES

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



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 - jun 2011)

DIVISION	..JUL TO DAY 11..		OCT - JUL....		
	OBSD	DEP	PCT AV	OBSD	DEP	PCT AV
COLUMBIA ABOVE COULEE	0.42	-0.21	66.	24.46	3.31	116.
SNAKE RV AB ICE HARBOR	0.07	-0.26	22.	19.63	4.20	127.
COLUMBIA AB THE DALLES	0.19	-0.25	44.	24.36	4.23	121.
COLUMBIA AB CASTLEGAR	1.13	0.20	121.	30.21	1.78	106.
KOOTENAI	0.42	-0.25	63.	24.09	2.39	111.
CLARK FORK	0.05	-0.37	13.	17.84	3.21	122.
FLATHEAD	0.23	-0.33	41.	24.59	5.18	127.
PEND OREILLE/ SPOKANE	0.08	-0.41	17.	32.83	5.09	118.
NORTHEAST WASHINGTON	0.09	-0.40	18.	18.51	1.63	110.
OKANOGAN	0.15	-0.27	36.	15.78	2.32	117.
EAST SLOPES WASH CASC.	0.02	-0.25	6.	37.98	1.10	103.
CENTRAL WASHINGTON	0.00	-0.13	2.	9.06	0.97	112.
UPPER SNAKE	0.16	-0.33	32.	24.12	6.56	137.
SNAKE RIVER PLAIN	0.07	-0.14	32.	12.26	2.45	125.
OWYHEE/ MALHEUR	0.04	-0.13	26.	14.54	4.66	147.
SALMON/ BOISE/ PAYETTE	0.05	-0.24	16.	20.19	2.27	113.
BURNT/ GRANDE RONDE	0.05	-0.22	19.	17.43	3.11	122.
CLEARWATER	0.07	-0.45	13.	35.01	7.71	128.
SOUTHEAST WASHINGTON	0.05	-0.21	20.	20.50	2.98	117.
UPPER JOHN DAY	0.01	-0.25	5.	17.23	4.27	133.
UMATILLA/ LWR JOHN DAY	0.01	-0.17	4.	20.20	5.50	137.
UPR DESCHUTES/ CROOKED	0.01	-0.21	4.	16.96	3.90	130.
HOOD/ LOWER DESCHUTES	0.01	-0.17	3.	33.39	6.77	125.
NW SLOPE WASH CASCADES	0.07	-0.68	9.	89.47	8.62	111.
SW WA CASCADES/COWLITZ	0.02	-0.47	5.	71.24	5.18	108.
WILLAMETTE VALLEY	0.02	-0.27	7.	60.76	4.58	108.
ROGUE/ UMPQUA	0.00	-0.17	0.	39.95	6.20	118.
KLAMATH BASIN	0.00	-0.16	3.	19.54	2.51	115.
LAKE COUNTY-GOOSE LAKE	0.01	-0.17	6.	14.64	3.27	129.
HARNEY/ MALHEUR BASIN	0.03	-0.14	15.	13.87	3.73	137.

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

JUN 11

WEATHER SUMMARY

THE JET STREAM MOVED NORTH UP INTO BRITISH COLUMBIA THROUGH JUNE...BUT STILL HELPED BRING COOL WET STORMS TO SOUTHERN BRITISH COLUMBIA AND THE NORTHWEST U.S. FAIRLY WIDESPREAD ACCUMULATING SNOW CONTINUED THROUGH THE NORTHERN U.S. AND SOUTHERN CANADIAN ROCKIES THROUGH THE THIRD WEEK OF THE MONTH. GENERALLY...WARMER CONDITIONS PREVAILED THE LAST WEEK OF THE MONTH...HELPING TO MELT SNOW AND BRING HIGH STAGES TO MANY RIVERS.

PRECIPITATION SUMMARY

JUNE PRECIPITATION WAS: 111 PERCENT OF NORMAL (1971-2000) AT COLUMBIA ABOVE COULEE, 126 PERCENT OF NORMAL AT THE SNAKE RIVER ABOVE ICE HARBOR, AND 112 PERCENT OF NORMAL AT COLUMBIA ABOVE THE DALLES.

SEASONAL (OCTOBER THROUGH JUNE) PRECIPITATION WAS: 119 PERCENT OF NORMAL (1971-2000) AT COLUMBIA ABOVE COULEE, 131 PERCENT OF NORMAL AT THE SNAKE RIVER ABOVE ICE HARBOR, AND 125 PERCENT OF NORMAL AT COLUMBIA ABOVE THE DALLES.

TEMPERATURE SUMMARY

THE 37 STATION TEMPERATURE INDEX FOR THE PACIFIC NORTHWEST DEPARTED -2.2 DEGREES FROM NORMAL RELATIVE TO THE 1971-2000 NORMALS. MEAN TEMPERATURE DEPARTURES RANGED FROM -5.0 TO 0.1 DEGREES.

GENERAL SUMMARY

SLIGHTLY ABOVE AVERAGE JUNE PRECIPITATION COUPLED WITH ACTIVE LATE SEASON SNOW MELT IMPROVED THE SEASONAL STREAMFLOW FORECASTS SOMEWHAT. THE JANUARY-JULY FORECAST FOR THE COLUMBIA RIVER AT THE DALLES IS 142 MILLION ACRE FEET OR 132 PERCENT OF THE 30-YEAR AVERAGE. THIS PLACES THE 2011 SEASONAL STREAMFLOW AT THE THIRD HIGHEST FLOW IN THE LAST 40 YEARS.

SNOW SUMMARY

MOST NOTEWORTHY DURING JUNE WAS THE FACT THAT SNOW WATER EQUIVALENTS (SWE'S) CONTINUED TO INCREASE IN MONTANA...SOUTHEAST IDAHO AND WYOMING INTO JUNE.

FORTY TO SEVENTY INCHES OF SWE STILL REMAINED AT MANY MID TO HIGH ELEVATION MEASURING SITES. EVEN IN THE WASHINGTON CASCADES SUBSTANTIAL AMOUNTS OF SWE REMAINED AT THE BEGINNING OF JUNE AT 5000 FEET AND ABOVE.

STREAMFLOW SUMMARY

STREAMFLOW WAS ABOVE TO WELL ABOVE AVERAGE IN ALL SECTIONS OF THE COLUMBIA-SNAKE BASIN. SEVERAL AREAS IN MONTANA...IDAHO AND EASTERN OREGON HAD JUNE STREAMFLOWS GREATER THAN 200 PERCENT. THE JUNE STREAMFLOW FOR THE COLUMBIA RIVER AT THE DALLES WAS 157 PERCENT OF AVERAGE.

JUNE WAS AN ACTIVE FLOOD MONTH WITH SEVERAL AREAS EXPERIENCING MAJOR FLOODING. THE MOST SEVERE FLOODING WAS ON THE CLARK FORK RIVER IN MONTANA. FLOODING WAS ALSO CONSIDERABLE THROUGH THE OKANOGAN...SPOKANE AND YAKIMA RIVERS IN WASHINGTON...THE GRANDE RONDE...UMATILLA AND JOHN DAY RIVERS IN OREGON...AND IN THE UPPER SNAKE AREA ON THE HENRY'S FORK...PORTNEUF AND BRUNEAU RIVERS. MAJOR FLOODING ALSO HAPPENED ON THE MAIN STEM OF THE SNAKE RIVER AT SHELLY AND BLACKFOOT. ON THE MAIN STEM COLUMBIA RIVER AT VANCOUVER THE SPRING CREST WAS 17.4 FEET ON JUNE 2. THE RIVER WAS ABOVE FLOOD STAGE FOR 24 DAYS.

THE JULY 1ST STREAMFLOW FORECASTS IMPROVED SLIGHTLY FROM THE JUNE 1ST LEVELS. JUNE PRECIPITATION WAS ABOVE AVERAGE AND THE RECORD HIGH ELEVATION SNOW PACK AUGMENTED THE SEASONAL STREAMFLOW. THE JANUARY-JULY FORECAST FOR THE COLUMBIA RIVER AT THE DALLES FOR JULY 1ST IS 142.0 MILLION ACRE FEET OR 132 PERCENT OF THE 30-YEAR AVERAGE. THIS PLACES THE DALLES STREAMFLOW AT THE THIRD HIGHEST IN THE LAST 40 YEARS.

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.

06/03 A RECORD LOW TEMPERATURE OF 41 DEGREES WAS SET AT PENDLETON OR.

06/04 A RECORD LOW TEMPERATURE OF 33 DEGREES WAS SET AT POCA TELLO ID.

06/09 A RECORD LOW TEMPERATURE OF 39 DEGREES WAS SET AT SPOKANE WA.

06/16 A RECORD LOW TEMPERATURE OF 42 DEGREES WAS SET AT PENDLETON OR.

06/17 A RECORD LOW TEMPERATURE OF 33 DEGREES WAS SET AT POCA TELLO ID.

06/17 A RECORD LOW TEMPERATURE OF 38 DEGREES WAS TIED AT OLYMPIA WA.

06/18 A RECORD RAINFALL OF 0.41 INCHES WAS SET AT SEATAC WA.

06/20 A RECORD LOW TEMPERATURE OF 37 DEGREES WAS SET NEAR MADRAS OR.

06/27 A RECORD LOW TEMPERATURE OF 36 DEGREES WAS SET AT POCA TELLO ID.