

Columbia\_Monthly\_Precipitation\_Summary

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 NORTHWEST RIVER FORECAST CENTER - PORTLAND, OREGON

COLUMBIA BASIN PRECIPITATION (MONTHLY SUMMARY - jul 1999)

NWS PORTLAND RIVER FORECAST CENTER

COLUMBIA BASIN DIVISION AVERAGES OF SEASONAL PRECIPITATION

DIVISION	..JUL TO DAY 31..			....OCT - JUL....			
	OBSD	DEP	PCT AV	OBSD	DEP	PCT	AV
COLUMBIA ABOVE COULEE	1.41	-.19	88.	22.89	.69	103.	
SNAKE RV AB ICE HARBOR	.26	-.55	32.	16.09	.13	101.	
COLUMBIA AB THE DALLES	.81	-.28	74.	21.47	.82	104.	
COLUMBIA AB CASTLEGAR	2.87	.41	117.	34.60	5.11	117.	
KOOTENAI	1.39	-.30	82.	22.72	.34	102.	
CLARK FORK	.34	-.70	33.	14.11	-1.28	92.	
FLATHEAD	1.16	-.27	81.	18.76	-1.72	92.	
PEND OREILLE/ SPOKANE	.64	-.38	63.	30.83	3.68	114.	
NORTHEAST WASHINGTON	1.17	.10	109.	19.71	2.94	118.	
OKANOGAN	.84	-.17	83.	14.59	1.31	110.	
EAST SLOPES WASH CASC.	1.10	.44	166.	44.59	8.36	123.	
CENTRAL WASHINGTON	.32	.03	110.	7.51	-.41	95.	
UPPER SNAKE	.74	-.54	58.	19.12	.79	104.	
SNAKE RIVER PLAIN	.15	-.44	25.	10.56	.47	105.	
OWYHEE/ MALHEUR	.11	-.36	22.	9.14	-1.22	88.	
SALMON/ BOISE/ PAYETTE	.13	-.56	19.	18.06	-.35	98.	
BURNT/ GRANDE RONDE	.19	-.47	29.	13.58	-.96	93.	
CLEARWATER	.43	-.69	38.	27.35	-.46	98.	
SOUTHEAST WASHINGTON	.11	-.52	18.	17.00	.11	101.	
UPPER JOHN DAY	.36	-.26	58.	11.93	-1.63	88.	
UMATILLA/ LWR JOHN DAY	.12	-.34	25.	12.32	-2.32	84.	
UPR DESCHUTES/ CROOKED	.22	-.29	43.	14.90	1.33	110.	
HOOD/ LOWER DESCHUTES	.24	-.17	59.	31.55	4.84	118.	
NW SLOPE WASH CASCADES	2.07	.10	105.	92.39	11.80	115.	
SW WA CASCADES/COWLITZ	1.46	.19	115.	80.41	14.88	123.	
WILLAMETTE VALLEY	.50	-.24	68.	68.21	12.78	123.	
ROGUE/ UMPQUA	.33	-.03	92.	39.73	5.97	118.	
KLAMATH BASIN	.03	-.37	8.	21.53	4.70	128.	
LAKE COUNTY-GOOSE LAKE	.06	-.37	13.	12.06	.44	104.	
HARNEY/ MALHEUR BASIN	.10	-.35	21.	9.39	-1.36	87.	

DIVISION VALUES ARE COMPUTED BY UTILIZING UN-WEIGHTED PRECIPITATION AMOUNTS FROM KEY STATIONS IN EACH AREA. NORMALS BASED ON 1961-1990. FOR FURTHER INFORMATION CONTACT: NWRFC (503) 326-7291.

COOLER AND DRIER THAN NORMAL JULY... THE BASIN EXPERIENCED COOLER AND DRIER THAN

NORMAL CONDITIONS WITH THE EXCEPTION TO AREAS WEST OF THE CASCADES, NORTHERN WASHINGTON, AND PORTIONS OF SOUTHERN CANADA. THE LARGEST MONTH PRECIPITATION ACCUMULATIONS OCCURED ALONG THE THE NORTHERN CASCADES, BRITISH COLUMBIA, AND THE MONTANA ROCKIES.

THE MONTH BEGAN WITH UNSETTLED SHOWERY COOL WEATHER IN MUCH OF THE NORTHERN PORTION OF THE BASIN. BY MID MONTH THE JET STREAM RETREATED TO SOUTHERN CANADA AND THE BASIN BEGAN TO EXPERIENCE SOME RIDGING WITH THE MAIN TROUGH CENTERED OFF THE OREGON COAST. THIS PATTERN CONTINUED TO THE END OF THE MONTH. MONSOONAL MOISTURE FROM THE SOUTH INVADED EASTERN IDAHO AND WESTERN MONTANA LATE IN THE MONTH.

PACIFIC NORTHWEST MEAN TEMPERATURES DEPARTED -2.5 DEGREES FROM NORMAL RELATIVE TO 1961-1990 NORMALS (31 STATIONS). MEAN TEMPERATURE DEPARTURES RANGED FROM -7.4 TO 1.7 DEGREES.

DAILY RECORD MINIMUM TEMPERATURES WERE BROKEN AT EUGENE (43 DEG ON THE 14TH), KALISPELL (30 DEG ON THE 3RD - ALSO THE COLDEST TEMPERATURE ON RECORD FOR THE MONTH OF JULY).

NO DAILY RAINFALL RECORDS OCCURRED DURING JULY.

FOR JULY, PRECIPITATION WAS 88 PERCENT OF NORMAL (1961-1990) AT COLUMBIA ABOVE COULEE; 32 PERCENT OF NORMAL AT THE SNAKE RIVER ABOVE ICE HARBOR; AND 74 PERCENT AT COLUMBIA ABOVE THE DALLES.

END/NWRFC/jrs  
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