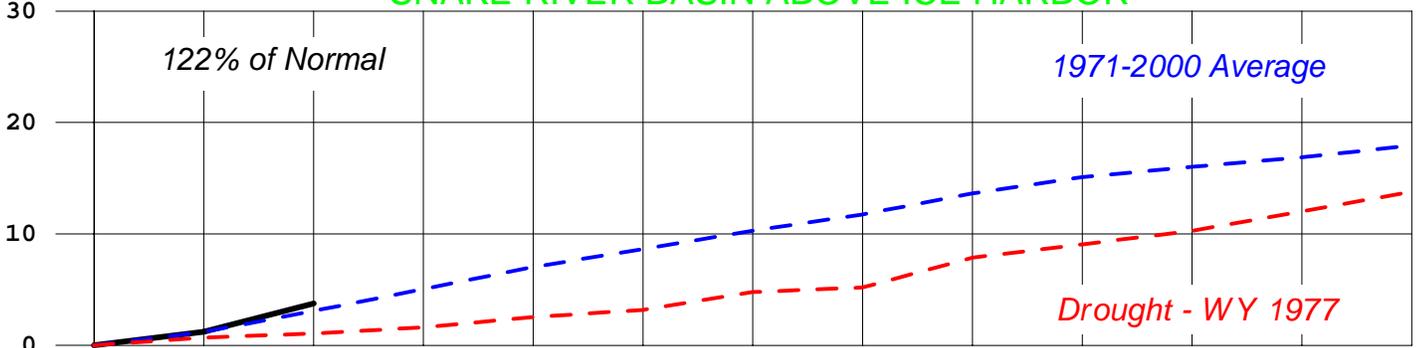


CUMULATIVE PRECIPITATION WATER YEAR 2007

COLUMBIA BASIN ABOVE GRAND COULEE



SNAKE RIVER BASIN ABOVE ICE HARBOR



COLUMBIA BASIN ABOVE THE DALLES



WILLAMETTE BASIN



ACCUMULATED PRECIPITATION IN INCHES

DIVISION	..NOV TO DAY 30..		OCT - NOV....		
	OBSD	DEP	PCT AV	OBSD	DEP	PCT AV
COLUMBIA ABOVE COULEE	5.24	2.36	182.	6.84	2.11	145.
SNAKE RV AB ICE HARBOR	2.54	0.66	135.	3.75	0.67	122.
COLUMBIA AB THE DALLES	4.98	2.15	176.	6.45	1.96	144.
COLUMBIA AB CASTLEGAR	6.39	2.36	159.	8.54	1.71	125.
KOOTENAI	6.01	2.92	195.	7.33	2.39	148.
CLARK FORK	3.33	1.62	195.	4.80	1.91	166.
FLATHEAD	4.54	2.13	188.	6.18	2.09	151.
PEND OREILLE/ SPOKANE	6.88	2.73	166.	8.30	2.01	132.
NORTHEAST WASHINGTON	3.58	1.36	161.	4.76	1.39	141.
OKANOGAN	3.59	1.82	203.	4.56	1.78	164.
EAST SLOPES WASH CASC.	16.12	9.54	245.	17.15	7.78	183.
CENTRAL WASHINGTON	1.59	0.38	131.	2.18	0.36	120.
UPPER SNAKE	2.12	0.17	109.	4.46	1.00	129.
SNAKE RIVER PLAIN	1.14	0.06	106.	2.17	0.23	112.
OWYHEE/ MALHEUR	1.24	0.04	103.	1.60	-0.34	83.
SALMON/ BOISE/ PAYETTE	3.47	1.06	144.	4.50	0.85	123.
BURNT/ GRANDE RONDE	2.52	0.54	127.	2.94	-0.09	97.
CLEARWATER	7.60	3.98	210.	9.08	3.29	157.
SOUTHEAST WASHINGTON	4.28	1.74	169.	5.06	1.07	127.
UPPER JOHN DAY	2.67	0.90	151.	3.65	0.92	134.
UMATILLA/ LWR JOHN DAY	3.70	1.54	171.	4.79	1.46	144.
UPR DESCHUTES/ CROOKED	3.20	1.20	160.	3.72	0.80	127.
HOOD/ LOWER DESCHUTES	10.83	6.44	247.	12.13	5.68	188.
NW SLOPE WASH CASCADES	27.34	13.57	199.	31.83	10.70	151.
SW WA CASCADES/COWLITZ	22.81	11.76	206.	25.78	9.20	156.
WILLAMETTE VALLEY	18.20	8.88	195.	20.37	6.76	150.
ROGUE/ UMPQUA	9.26	3.48	160.	10.02	1.68	120.
KLAMATH BASIN	4.19	1.55	159.	4.89	1.10	129.
LAKE COUNTY-GOOSE LAKE	1.66	0.21	114.	2.01	-0.29	88.
HARNEY/ MALHEUR BASIN	1.27	0.05	104.	1.97	-0.04	98.

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.

GENERALLY MUCH ABOVE NORMAL PRECIPITATION ACROSS THE REGION, EXCEPT IN SOUTHERN IDAHO AND SW MONTANA, WHERE PRECIPITATION WAS HELD NEAR TO SOMEWHAT BELOW NORMAL. TEMPERATURES WERE GENERALLY ABOVE NORMAL, THOUGH A LATE MONTH COLD SPELL PUSHED MONTHLY AVERAGES TO SLIGHTLY BELOW NORMAL ACROSS NORTHERN WASHINGTON AND MONTANA.

PRECIPITATION SUMMARY

NOVEMBER 2006 WAS A MONTH FOR THE RECORD BOOKS ACROSS MANY AREAS OF THE PACIFIC NORTHWEST. AN ACTIVE PACIFIC JET STREAM KEPT THE PACIFIC NORTHWEST WET THROUGH MUCH OF THE MONTH. THE HEAVIEST PERIOD OF PRECIPITATION CAME BETWEEN NOVEMBER 3-7, WHEN REMNANT MOISTURE FROM WESTERN PACIFIC TYPHOON CIMARON BROUGHT RECORD RAINFALL TO WESTERN WASHINGTON AND NORTHWEST OREGON. DURING THE PEAK OF THE STORM, SOME RAIN GAGES IN THE NW OREGON COAST RANGE AND THE SOUTHERN WASHINGTON CASCADES REPORTED MORE THAN A FOOT OF RAIN IN 24 HOURS. THIS EXTREME RAINFALL PRODUCED WIDESPREAD FLOODING ACROSS WESTERN WASHINGTON AND NW OREGON, WITH SOME RIVERS RISING TO LEVELS ABOVE THEIR PREVIOUS FLOODS OF RECORD. MANY LOCATIONS IN THE CASCADES AND COAST RANGE REPORTED MONTHLY RAINFALL TOTALS IN EXCESS OF 30 INCHES. SEATTLE AND PORTLAND BOTH BROKE THEIR MONTHLY RAINFALL RECORDS FOR THE MONTH OF NOVEMBER, SEATTLE BROKE THEIR ALL TIME PRECIPITATION RECORD FOR ANY MONTH OF THE YEAR WITH 15.63 INCHES.

THE HEAVY PRECIPITATION WAS NOT CONFINED TO THE WESTSIDE. LOCATIONS ACROSS THE IDAHO PANHANDLE AND NORTHWESTERN MONTANA ALSO REPORTED PRECIPITATION TWO TO SIX TIMES NORMAL FOR THE MONTH OF NOVEMBER. HOWEVER, THE STORM TRACK GENERALLY REMAINED NORTH OF THE SNAKE RIVER VALLEY AND SOUTHWEST MONTANA, WHERE NOVEMBER 2006 PRECIPITATION TOTALS WERE NEAR TO BELOW NORMAL, ESPECIALLY IN VALLEY LOCATIONS.

THE WARM NATURE OF THE EARLY-MONTH STORM SYSTEMS INITIALLY HELD DOWN THE HEADWATERS SNOWPACK DESPITE THE HEAVY PRECIPITATION. HOWEVER, SNOWPACK QUICKLY CAUGHT UP TO NEAR TO SOMEWHAT ABOVE NORMAL AS TEMPERATURES TURNED COLDER LATE IN THE MONTH.

NOVEMBER PRECIPITATION WAS: 182 PERCENT OF NORMAL (1971-2000) AT COLUMBIA ABOVE COULEE, 135 PERCENT OF NORMAL AT THE SNAKE RIVER ABOVE ICE HARBOR, AND 176 PERCENT OF NORMAL AT COLUMBIA ABOVE THE DALLES.

SEASONAL (OCTOBER THROUGH NOVEMBER) PRECIPITATION WAS: 145 PERCENT OF NORMAL (1971-2000) AT COLUMBIA ABOVE COULEE, 122 PERCENT OF NORMAL AT THE SNAKE RIVER ABOVE ICE HARBOR, AND 144 PERCENT OF NORMAL AT COLUMBIA ABOVE THE DALLES.

NEW PRECIPITATION RECORDS

THE MONTH OF NOVEMBER 2006 WAS CERTAINLY ONE FOR THE RECORD BOOKS. NEW ALL-TIME MONTHLY RECORDS WERE SET FOR PRECIPITATION AT MANY LOCATIONS. A POWERFUL STORM IMPACTED WESTERN WASHINGTON AND NORTHWEST OREGON NOVEMBER 5-7, BREAKING THE ALL-TIME 24-HOUR PRECIPITATION RECORD FOR THE STATE OF OREGON NOVEMBER 6. IN ADDITION TO THE HEAVY PRECIPITATION, A WARM TROPICAL AIRMASS SENT TEMPERATURES TO RECORD HIGH LEVELS DURING THIS PERIOD. WHILE MOST OF THE MONTH WAS WARMER THAN NORMAL, A STRONG ARCTIC OUTBREAK SET RECORD LOW TEMPERATURES ACROSS THE REGION TOWARD THE END OF THE MONTH.

BELOW IS A LIST SUMMARIZING SOME OF THE RECORDS BROKEN DURING THE MONTH OF NOVEMBER 2006,

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.

MONTHLY MAXIMUM PRECIPITATION RECORDS

WETTEST MONTH ON RECORD (ANY MONTH OF THE YEAR) FOR THE FOLLOWING:

LOCATION	NEW RECORD	PREVIOUS RECORD
LAUREL MOUNTAIN, OR	49.59 INCHES	49.57 INCHES IN FEB 1996
SEATTLE, WA	15.63 INCHES	15.33 INCHES IN DEC 1933

WETTEST NOVEMBER ON RECORD FOR THE FOLLOWING:

LOCATION	NEW RECORD	PREVIOUS RECORD
LAUREL MOUNTAIN, OR	49.59 INCHES	36.99 INCHES IN NOV 1995
ASTORIA, OR	21.07 INCHES	19.60 INCHES IN NOV 1998

OLYMPIA, WA	19.68 INCHES	15.51 INCHES IN NOV 1962
SEATTLE, WA	15.63 INCHES	11.62 INCHES IN NOV 1998
VANCOUVER, WA	13.31 INCHES	12.92 INCHES IN NOV 1942
TROUTDALE, OR	12.98 INCHES	11.80 INCHES IN NOV 1960
HILLSBORO, OR	12.92 INCHES	12.76 INCHES IN NOV 1973
PORTLAND, OR	11.92 INCHES	11.57 INCHES IN NOV 1942

DAILY MAXIMUM PRECIPITATION RECORDS

ON NOVEMBER 2, 2006

LOCATION	NEW RECORD	PREVIOUS RECORD
NORTH BEND, OR	1.51 INCHES	1.31 INCHES IN 1984
SEATTLE NWS WFO, WA	0.99 INCHES	0.64 INCHES IN 1988

ON NOVEMBER 3, 2006

LOCATION	NEW RECORD	PREVIOUS RECORD
SEATTLE NWS WFO, WA	0.50 INCHES	0.45 INCHES IN 2005

ON NOVEMBER 4, 2006

LOCATION	NEW RECORD	PREVIOUS RECORD
SEATAC AIRPORT, WA	1.91 INCHES	1.54 INCHES IN 1969
MULLAN PASS, ID	0.82 INCHES	0.81 INCHES IN 1943
SEATTLE NWS WFO, WA	0.83 INCHES	0.64 INCHES IN 1991

ON NOVEMBER 5, 2006

LOCATION	NEW RECORD	PREVIOUS RECORD
OLYMPIA AIRPORT, WA	1.88 INCHES	1.08 INCHES IN 1988
MULLAN PASS, ID	0.70 INCHES	0.43 INCHES IN 2005
STANLEY, ID	0.28 INCHES	0.22 INCHES IN 1983

ON NOVEMBER 6, 2006

LEES CAMP, OREGON BROKE THE ALL-TIME 24-HOUR RAINFALL RECORD FOR THE STATE OF OREGON WITH 14.30 INCHES OF RAIN. THE

PREVIOUS STATE RECORD WAS HELD BY ELK RIVER FISH HATCHERY,
LOCATED 5 MILES EAST OF PORT ORFORD, WHICH RECORDED 11.65
INCHES ON NOV 19 1996.

LOCATION	NEW RECORD	PREVIOUS RECORD
ASTORIA, OR	2.65 INCHES	1.89 INCHES IN 1980
VANCOUVER, WA	2.90 INCHES	2.36 INCHES IN 1903
HILLSBORO, OR	2.30 INCHES	0.74 INCHES IN 1934
PORTLAND, OR	2.53 INCHES	1.31 INCHES IN 1980
TROUTDALE, OR	1.70 INCHES	1.00 INCHES IN 1988
SALEM, OR	1.67 INCHES	1.42 INCHES IN 1974
BELLINGHAM AIRPORT, WA	1.78 INCHES	1.11 INCHES IN 1989
HOQUIAM AIRPORT, WA	2.69 INCHES	1.65 INCHES IN 1999
OLYMPIA AIRPORT, WA	4.31 INCHES	1.74 INCHES IN 1980
QUILLAYUTE AIRPORT, WA	2.38 INCHES	1.92 INCHES IN 1999
SEATAC AIRPORT, WA	3.29 INCHES	0.99 INCHES IN 1980
SEATTLE NWS WFO, WA	1.13 INCHES	0.58 INCHES IN 2002
STAMPEDE PASS, WA	8.22 INCHES	2.84 INCHES IN 1958*
KALISPELL, MT	0.43 INCHES	0.39 INCHES IN 1958
SANDPOINT, ID	2.42 INCHES	1.28 INCHES IN 1963
PLAIN, WA	3.78 INCHES	1.18 INCHES IN 1988
BONNERS FERRY, ID	1.58 INCHES	0.89 INCHES IN 1988
MAZAMA, WA	2.50 INCHES	0.44 INCHES IN 2005
WINTHROP, WA	1.31 INCHES	0.73 INCHES IN 1958
MULLAN PASS, ID	3.29 INCHES	0.46 INCHES IN 1953
WENATCHEE, WA	0.83 INCHES	0.48 INCHES IN 1980
MEACHAM, OR	1.19 INCHES	0.93 INCHES IN 1958
SATUS PASS, WA	1.72 INCHES	0.72 INCHES IN 1963
THE DALLES, OR	0.47 INCHES	0.38 INCHES IN 1948
WALLA WALLA, WA	1.09 INCHES	0.71 INCHES IN 1949

* STAMPEDE PASS BROKE THEIR ALL-TIME 24-HOUR RAINFALL RECORD.
THE PREVIOUS ALL-TIME RECORD WAS 7.29 INCHES SET ON NOV 19 1962.

ON NOVEMBER 7, 2006

LOCATION	NEW RECORD	PREVIOUS RECORD
MULLAN PASS, ID	2.28 INCHES	1.14 INCHES IN 1945
NORTH BEND, OR	2.61 INCHES	2.54 INCHES IN 1942

BOUNDARY DAM, WA	0.68 INCHES	0.62 INCHES IN 1995
ON NOVEMBER 10, 2006		
LOCATION	NEW RECORD	PREVIOUS RECORD
QUILLAYUTE AIRPORT, WA	2.10 INCHES	1.80 INCHES IN 1987
ON NOVEMBER 11, 2006		
LOCATION	NEW RECORD	PREVIOUS RECORD
NORTH BEND, OR	2.30 INCHES	1.68 INCHES IN 1995
ROSEBURG, OR	1.00 INCH	0.76 INCHES IN 1983
ON NOVEMBER 13, 2006		
LOCATION	NEW RECORD	PREVIOUS RECORD
BONNERS FERRY, ID	2.00 INCHES	0.99 INCHES IN 1941
ON NOVEMBER 15, 2006		
LOCATION	NEW RECORD	PREVIOUS RECORD
SEATTLE NWS WFO, WA	0.86 INCHES	0.52 INCHES IN 1994
ON NOVEMBER 16, 2006		
LOCATION	NEW RECORD	PREVIOUS RECORD
STANLEY, ID	0.38 INCHES	0.10 INCHES IN 2003
ON NOVEMBER 21, 2006		
LOCATION	NEW RECORD	PREVIOUS RECORD
STANLEY, ID	1.61 INCHES	0.47 INCHES IN 1991
ON NOVEMBER 23, 2006		
LOCATION	NEW RECORD	PREVIOUS RECORD
POMEROY, WA	0.55 INCHES	0.43 INCHES IN 1970
ON NOVEMBER 26, 2006		

LOCATION	NEW RECORD	PREVIOUS RECORD
PORTHILL, ID	0.66 INCHES	0.60 INCHES IN 1897
ON NOVEMBER 27, 2006		

LOCATION	NEW RECORD	PREVIOUS RECORD
KAMIAH, ID	0.77 INCHES	0.60 INCHES IN 1949

TEMPERATURE SUMMARY

THE 31 STATION TEMPERATURE INDEX FOR THE PACIFIC NORTHWEST DEPARTED +0.6 DEGREES FROM NORMAL RELATIVE TO THE 1971-2000 NORMALS. MEAN TEMPERATURE DEPARTURES RANGED FROM -2.7 TO 3.1 DEGREES.

NEW TEMPERATURE RECORDS

THE FOLLOWING IS A LIST SUMMARIZING SOME OF THE TEMPERATURE RECORDS BROKEN DURING THE MONTH OF NOVEMBER 2006:

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 NOVEMBER WERE:

ON NOVEMBER 6, 2006:

LOCATION	NEW RECORD	PREVIOUS RECORD
MONUMENT, OR	80*	71 SET IN 1987
PENDLETON, OR	76	71 SET IN 1987
HERMISTON, OR	75	68 SET IN 1934
PRIEST RAPIDS DAM, WA	75	66 SET IN 2001
SUNNYSIDE, WA	74	65 SET IN 1989
KENNEWICK, WA	73	67 SET IN 1988
PELTON DAM, OR	73	67 SET IN 1980
WALLA WALLA, WA	73	66 SET IN 1980
MORO, OR	72	65 SET IN 1931

THE DALLES, OR	72	65 SET IN 1958
YAKIMA, WA	71	68 SET IN 1921
REDMOND, OR	71	69 SET IN 1999
EUGENE, OR	70	69 SET IN 1939
MOSES LAKE, WA	69	59 SET IN 1958
SALEM, OR	69	65 SET IN 1980
PORTLAND, OR	68	67 SET IN 1980
EPHRATA, WA	68	62 SET IN 1958
TROUTDALE, OR	68	65 SET IN 1987
KLAMATH FALLS, OR	68 (T)	68 SET IN 1978
VANCOUVER, WA	67 (T)	67 SET IN 1941
QUINCY, WA	67	62 SET IN 1987
LACROSSE, WA	66	63 SET IN 1978
COEUR D ALENE, ID	62	59 SET IN 1980
LIND, WA	62	60 SET IN 1987
SEATTLE NWS WFO, WA	61	60 SET IN 1997
SATUS PASS, WA	60	57 SET IN 1956
BONNERS FERRY, ID	58	56 SET IN 1980
GRAND COULEE, WA	58 (T)	58 SET IN 1941
SANDPOINT, ID	58	56 SET IN 1931
PORTHILL, ID	57 (T)	57 SET IN 1988

* MONUMENT SET A NEW HIGH TEMPERATURE RECORD FOR THE MONTH OF NOVEMBER.

ON NOVEMBER 7, 2006:

LOCATION	NEW RECORD	PREVIOUS RECORD
BURLEY, ID	74 (T)	74 SET IN 1980
CHALLIS, ID	72	68 SET IN 1934
PENDLETON, OR	71 (T)	71 SET IN 1978
POCATELLO, ID	70 (T)	70 SET IN 1980
IDAHO FALLS, ID	67	66 SET IN 1999
YAKIMA, WA	66	65 SET IN 1921
MOSES LAKE, WA	63	59 SET IN 1953
LIND, WA	63	61 SET IN 1965
COLVILLE, WA	62	56 SET IN 1922
GRAND COULEE, WA	62	61 SET IN 1965
MISSOULA, MT	62 (T)	62 SET IN 1931

BONNERS FERRY, ID	61	59 SET IN 1980
SPOKANE AIRPORT, WA	60	58 SET IN 2002
WENATCHEE, WA	60	59 SET IN 1994
STANLEY, ID	60 (T)	60 SET IN 1997
PORTHILL, ID	59	56 SET IN 1978
COEUR D ALENE, ID	59 (T)	59 SET IN 1978
KAMIAH, ID	55	51 SET IN 1998

ON NOVEMBER 8, 2006:

LOCATION	NEW RECORD	PREVIOUS RECORD
COEUR D ALENE, ID	59	57 SET IN 1989

ON NOVEMBER 21, 2006

LOCATION	NEW RECORD	PREVIOUS RECORD
POCATELLO, ID	57	55 SET IN 2002

ON NOVEMBER 22, 2006:

LOCATION	NEW RECORD	PREVIOUS RECORD
KAMIAH, ID	49 (T)	49 SET IN 2002

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

ON NOVEMBER 1, 2006:

LOCATION	NEW RECORD	PREVIOUS RECORD
MOUNMENT, OR	10	11 SET IN 1995
PENDLETON, OR	11	12 SET IN 2003
COVE, OR	12	15 SET IN 1995
QUINCY, WA	13	18 SET IN 2003
QUILLAYUTE, WA	25	27 SET IN 1973

ON NOVEMBER 2, 2006:

LOCATION	NEW RECORD	PREVIOUS RECORD
PENDLETON, OR	10	12 SET IN 2002

ON NOVEMBER 27, 2006:

LOCATION	NEW RECORD	PREVIOUS RECORD
SEATTLE NWS WFO, WA	27	33 SET IN 2005

ON NOVEMBER 28, 2006:

LOCATION	NEW RECORD	PREVIOUS RECORD
PULLMAN, WA	-2	0 SET IN 1985
SEATTLE NWS WFO, WA	20	29 SET IN 2005
QUILLAYUTE, WA	21 (T)	21 SET IN 1985

ON NOVEMBER 29, 2006:

LOCATION	NEW RECORD	PREVIOUS RECORD
STANLEY, ID	-21	-20 SET IN 1981
DAVENPORT, WA	-12	-2 SET IN 1985
NORTHPORT, WA	-12	-3 SET IN 1985
LACROSSE, WA	-9	0 SET IN 1952
RITZVILLE, WA	-2	2 SET IN 1985
PULLMAN, WA	-2	0 SET IN 1977
MEACHAM, OR	-2	-1 SET IN 2004
CHIEF JOSEPH DAM, WA	0	3 SET IN 1985
KLAMATH FALLS, OR	1	7 SET IN 2004
REDMOND, OR	3	5 SET IN 1985
LA GRANDE, OR	8	9 SET IN 1985
MONUMENT, OR	8	10 SET IN 1969
BELLINGHAM AIRPORT, WA	12	16 SET IN 1985
SEATAC AIRPORT, WA	18	22 SET IN 1975
KAMIAH, ID	19	20 SET IN 2004
SEATTLE NWS WFO, WA	20	34 SET IN 1991
HOQUIAM AIRPORT, WA	25	26 SET IN 1970
ASTORIA, OR	25	26 SET IN 1985

ON NOVEMBER 30, 2006:

LOCATION	NEW RECORD	PREVIOUS RECORD
OMAK, WA	-5	6 SET IN 1952

RITZVILLE, WA	3	5 SET IN 1985
LA GRANDE, OR	8	9 SET IN 1985
YAKIMA, WA	8	10 SET IN 1985
MONUMENT, OR	10 (T)	10 SET IN 1985
MULLAN PASS, ID	10	11 SET IN 1954

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