



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service Western Region
P. O. Box 11188 Federal Building
Salt Lake City, Utah 84147

December 16, 1991

W/WR3:KBM

MEMORANDUM FOR: Recipients of Western Region Technical Memorandums

Ken Mielke

FROM: W/WR3 - Kenneth B. Mielke

SUBJECT: NOAA Technical Memorandum NWS WR-28 - Weather
Extremes (Revised October 1991)

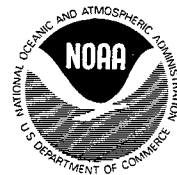
Please make the following pen and ink changes to Technical Memorandum NWS WR-28
(Revised October 1991). The bolding indicates the actual corrections.

TABLE 2

UTAH	-69	PETER SINK (LOGAN CANYON) FEB 1 1985
WASHINGTON	-48	MAZAMA DEC 30 1968; WINTHROP DEC 30 1968

TABLE 4

NEVADA	7.40	LEWER'S RANCH MAR 19 1907
WASHINGTON	14.26	MT. MITCHELL #2 NOV 23-24 1986



NOAA Technical Memorandum NWS WR-28



WEATHER EXTREMES

**Robert J. Schmidli
National Weather Service
Weather Service Forecast Office
Phoenix, Arizona**

**February 1986 (Revised)
October 1991 (Revised)**

**U.S. DEPARTMENT OF
COMMERCE**

/ National Oceanic and
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/ National Weather
Service



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NOAA Technical Memorandum NWS WR-28

WEATHER EXTREMES

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Weather Service Forecast Office
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First Printed April 1968
Revised February 1986
Second Revision October 1991

UNITED STATES
DEPARTMENT OF COMMERCE
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This publication has been reviewed
and is approved for publication by
Scientific Services Division,
Western Region.



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TABLE OF CONTENTS

	PAGE
Preface	iv
Table 1. Highest Temperature (Fahrenheit)	1
Table 2. Lowest Temperature (Fahrenheit)	2
Table 3. Greatest Precipitation in One Hour (Inches)	3
Table 4. Greatest Precipitation in Twenty-four Hours (Inches)	4
Table 5. Greatest Precipitation in One Calendar Month (Inches)	5
Table 6. Greatest Precipitation in One Calendar Year (Inches)	6
Table 7. Least Precipitation in One Calendar Year (Inches)	7
Table 8. Greatest Snowfall in Twenty-four Hours (Inches)	8
Table 9. Greatest Snowfall in One Storm (Inches)	9
Table 10. Greatest Snowfall in One Calendar Month (Inches)	10
Table 11. Greatest Snowfall in One Season (Inches)	11
Table 12. Greatest Depth of Snow on the Ground (Inches)	12
Table 13. Highest Sea-Level Pressure (Millibars and Inches)	13
Table 14. Lowest Sea-Level Pressure (Millibars and Inches)	14
Table 15. Highest Wind Speed (Miles per Hour)	15

PREFACE

The purpose of this publication is to provide National Weather Service personnel with a ready reference of information that may be useful when preparing weather stories and radio scripts, when talking to mass-media reporters, and when answering questions from the general public. This eighth revision differs from the seventh revised tabulation in that a number of new extremes have been updated and previous errors have been corrected.

The memorandum is organized into fifteen categories covering the elements of temperature, precipitation, snowfall, atmospheric pressure, and wind. The fourteen western cities, thirteen western states, United States, North America, and world are each listed in the various categories.

Only official observations are included in this memorandum. The exception being, a few well-accepted unofficial extremes, such as the twenty-four hour precipitation of 38.70 inches at Yankeetown, Florida, the 38.20 inches at Thrall, Texas, and the 43.00 inches at Alvin, Texas.

Several unofficial observations of maximum rainfall amounts far exceed the data published here but were excluded largely on the advice of state climatologists.

An example of such an unofficial extreme was found in the August 1898 "Climate and Crop Service". It was the account of the observer at Fort Mohave, Arizona. "On the 28th, we had the biggest rain in 10 or 15 years, and to my regret, between the rain and the furious wind, my rain gauge was upset. To give an idea of the amount of rain that fell, and which lasted only 45 minutes, I had a wash tub set out on the mesa, clear of everything, and the water after the rain, measured 8 inches."

There was some question regarding the greatest snowfall in one storm for a few states. The problem is one of separating storms. When does one end and another begin? For example, the 84.6 inches of snowfall at Flagstaff, Arizona, in December 1967 was not included because it resulted from two storms with 27 hours of no precipitation between them. Although the Ruby, Colorado, snowstorm that produced 141.0 inches was included, there was some doubt that this storm actually lasted a full week.

Data are for a combination of city office and airport locations. In cases where dual records were kept over some period of time and an event occurred during that period, the most extreme value was used.

There is little doubt that more extreme values have occurred than have been listed here. First of all, very few observing stations have records more than 100 years in duration. Secondly, the areas where weather extremes are most likely to occur are usually the most sparsely settled and where observations are not generally available.

We gratefully acknowledge the assistance of the Meteorologists in Charge of various cities and the former climatologists for the various states in checking the data for this revision.

Special acknowledgement is given to Mr. Marvin Magnuson, former Assistant Chief, Scientific Services Division, for his assistance.

The data in this Technical Memorandum are considered accurate through December 1990.

TABLE 1

HIGHEST TEMPERATURE (FAHRENHEIT)

ALBUQUERQUE	105	JUN 28 1974; JUL 14 1979; JUN 29 1980; JUL 5/18 1980
ANCHORAGE	86	JUN 25 1953
BOISE	111	JUL 19 1960
CHEYENNE	100	JUL 14/15 1881; JUL 11 1939; JUN 23 1954
DENVER	105	AUG 8 1878
HELENA	105	AUG 24 1969
HONOLULU	94	OCT 6 1984; SEP 7 1986; SEP 5 1987; SEP 6 1988
LAS VEGAS	117	JUL 24 1942
LOS ANGELES	112	JUN 26 1990
PHOENIX	122	JUN 26 1990
PORTLAND	107	JUL 2 1942; JUL 30 1965; AUG 10 1981
SALT LAKE CITY	107	JUL 26 1960
SAN FRANCISCO	106	JUN 14 1961
SEATTLE	100	JUL 16 1941 JUN 9 1955
ALASKA	100	FORT YUKON JUN 27 1915
ARIZONA	127	FORT MOHAVE JUN 15 1896; PARKER JUL 7 1905
CALIFORNIA	134	GREENLAND RANCH DEATH VALLEY JUL 10 1913
COLORADO	118	BENNETT JUL 11 1888
HAWAII	100	PAHALA APR 27 1931
IDAHO	118	OROFINO JUL 28 1934
MONTANA	117	GLENDIVE JUL 20 1893; MEDICINE LAKE JUL 5 1937
NEVADA	122	LEELAND AUG 12/18 1914; OVERTON JUN 23 1954; LAUGHLIN JUN 26 1990
NEW MEXICO	116	ARTESIA JUN 29 1918; OROGRANDE JUL 14 1934
OREGON	119	PRINEVILLE JUL 29 1898; PENDLETON AUG 10 1898
UTAH	117	SAINT GEORGE JUL 5 1985
WASHINGTON	118	WAHLUKE JUL 24 1928; ICE HARBOR DAM AUG 5 1961
WYOMING	115	BASIN AUG 8 1983; DIVERSION DAM JUL 15 1988
UNITED STATES	134	GREENLAND RANCH DEATH VALLEY CALIFORNIA JUL 10 1913
NORTH AMERICA	134	GREENLAND RANCH DEATH VALLEY CALIFORNIA U.S. JUL 10 1913
WORLD	136	AZIZIA LIBYA SEP 13 1922

TABLE 2

LOWEST TEMPERATURE (FAHRENHEIT)

ALBUQUERQUE	-17	JAN 7 1971
ANCHORAGE	-38	FEB 3 1947
BOISE	-25	DEC 22 1990
CHEYENNE	-38	JAN 9 1875
DENVER	-30	FEB 8 1936
HELENA	-42	JAN 31 1893; JAN 25 1957
HONOLULU	53	JAN 31 1972; FEB 1/2 1976; FEB 9 1981; FEB 12 1983
LAS VEGAS	8	JAN 25 1937; JAN 13 1963
LOS ANGELES	28	JAN 4 1949
PHOENIX	16	JAN 7 1913
PORTLAND	-3	FEB 2 1950
SALT LAKE CITY	-30	FEB 9 1933
SAN FRANCISCO	20	DEC 14 1932
SEATTLE	0	JAN 31 1950
ALASKA	-80	PROSPECT CREEK (25 SE BETTLES) JAN 23 1971
ARIZONA	-40	HAWLEY LAKE JAN 7 1971
CALIFORNIA	-45	BOCA JAN 20 1937
COLORADO	-61	MAYBELL FEB 1 1985
HAWAII	12	MAUNA KEA OBSERVATORY MAY 17 1979
IDAHO	-60	ISLAND PARK DAM JAN 18 1943
MONTANA	-70	ROGERS PASS JAN 20 1954
NEVADA	-50	SAN JACINTO JAN 8 1937
NEW MEXICO	-50	GAVILAN FEB 1 1951
OREGON	-54	UKIAH FEB 9 1933; SENECA FEB 10 1933
UTAH	-50	PETER SINK (LOGAN CANYON) FEB 1 1985
WASHINGTON	-48	MAZAMA DEC 10 1968; WINTHROP DEC 30 1968
WYOMING	-63	MORAN FEB 9 1933
UNITED STATES	-80	PROSPECT CREEK (25 SE BETTLES) ALASKA JAN 23 1971
NORTH AMERICA	-81	SNAG YUKON TERRITORY CANADA FEB 3 1947
WORLD	-129	VOSTOK ANTARCTICA EL 11220 FT JUL 21 1983
	-121	PLATEAU STATION ANTARCTICA EL 11890 FT AUG 24 1966
	-110	SOUTH POLE ANTARCTICA EL 9186 FT JUL 14 1963
	-90	OIMEKON SIBERIA U.S.S.R. EL 2625 FT FEB 6 1933
	-90	VERKHOYANSK SIBERIA U.S.S.R. FEB 5/7 1892
	-87	NORTHICE GREENLAND EL 7690 FT JAN 9 1954

TABLE 3

GREATEST PRECIPITATION IN 60 MINUTES (INCHES)

ALBUQUERQUE	1.63	JUL 8 1961
ANCHORAGE	0.62	OCT 10 1983
BOISE	1.12	SEP 11 1976
CHEYENNE	3.64	AUG 1 1985
DENVER	2.20	AUG 23 1921
HELENA	1.60	AUG 21 1983
HONOLULU	3.41	APR 21 1924
LAS VEGAS	1.36	AUG 21 1957
LOS ANGELES	1.87	NOV 19 1967
PHOENIX	1.72	AUG 18 1966
PORTLAND	1.31	JUN 7 1927
SALT LAKE CITY	1.94	JUL 13 1962
SAN FRANCISCO	1.40	DEC 3 1980
SEATTLE	0.84	JUN 29 1952
ALASKA	1.05	ANNETTE OCT 29 1958
ARIZONA	3.52	TEMPE CITRUS EXPERIMENT STATION SEP 14 1969
CALIFORNIA	11.50	CAMPO AUG 12 1981 (80-MINUTE AMOUNT)
COLORADO	3.45	LAKE GEORGE JUL 31 1945
HAWAII	12.00	KILAUEA SUGAR PLANTATION JAN 24/25 1956
IDAHO	1.50	COTTONWOOD AUG 1 1948
MONTANA	1.86	BILLINGS JUL 2 1958
NEVADA	3.66	ELKO AUG 27 1970
NEW MEXICO	2.81	RATON JUN 17 1965
OREGON	2.17	COPPER JUN 8 1943
UTAH	2.13	BLANDING AUG 1 1968
WASHINGTON	1.65	GROTTO MAY 25 1945
WYOMING	3.64	CHEYENNE AUG 1 1985
UNITED STATES	12.00	HOLT MISSOURI JUN 22 1947
	12.00	KILAUEA SUGAR PLANTATION HAWAII JAN 24/25 1956
NORTH AMERICA	12.00	HOLT MISSOURI U.S. JUN 22 1947
WORLD	12.00	HOLT MISSOURI U.S. JUN 22 1947
	12.00	KILAUEA SUGAR PLANTATION HAWAII U.S. JAN 24/25 1956

TABLE 4

GREATEST PRECIPITATION IN TWENTY-FOUR HOURS (INCHES)

ALBUQUERQUE	2.26	SEP 27/28 1893
ANCHORAGE	4.12	AUG 25/26 1989
BOISE	2.72	MAR 5 1871
CHEYENNE	6.06	AUG 1 1985
DENVER	6.53	MAY 21/22 1876
HELENA	3.67	JUN 4/5 1908
HONOLULU	17.07	MAR 5/6 1958
LAS VEGAS	2.59	AUG 20/21 1957
LOS ANGELES	7.36	DEC 31 1933-JAN 1 1934
PHOENIX	4.98	JUL 1/2 1911
PORTLAND	7.66	DEC 12/13 1882
SALT LAKE CITY	2.72	MAY 2/3 1901
SAN FRANCISCO	5.71	JAN 4/5 1982
SEATTLE	3.74	OCT 5/6 1981
ALASKA	15.20	ANGOON OCT 12 1982
ARIZONA	11.40	WORKMAN CREEK (30 NNW GLOBE) SEP 4/5 1970
CALIFORNIA	26.12	HOEGEES CAMP JAN 22 1943
COLORADO	11.08	HOLLY JUN 17 1965
HAWAII	38.00	KILAUEA SUGAR PLANTATION JAN 24/25 1956
IDAHO	7.17	RATTLESNAKE CREEK (ELMORE COUNTY) NOV 23 1909
MONTANA	11.50	CIRCLE JUN 20 1921
NEVADA	7.13	MT. ROSE HIGHWAY STATION (NEAR RENO) JAN 31 1963
NEW MEXICO	11.28	LAKE MALOYA MAY 19 1955
OREGON	10.17	GLENORA DEC 21 1915
UTAH	6.00	BUG POINT (24 E BLANDING) SEP 5 1970
WASHINGTON	12.00	QUINAULT RANGER STATION JAN 21 1935
WYOMING	6.06	CHEYENNE AUG 1 1985
UNITED STATES	43.00	ALVIN TEXAS JUL 25/26 1979
	38.70	YANKEETOWN FLORIDA SEP 5/6 1950
	38.20	THRALL TEXAS SEP 9/10 1921
NORTH AMERICA	43.00	ALVIN TEXAS U.S. JUL 25/26 1979
	38.70	YANKEETOWN FLORIDA U.S. SEP 5/6 1950
	38.20	THRALL TEXAS U.S. SEP 9/10 1921
WORLD	73.62	CILAOS LA REUNION MAR 15/16 1952

TABLE 5

GREATEST PRECIPITATION IN ONE CALENDAR MONTH (INCHES)

ALBUQUERQUE	8.15	JUN 1852
ANCHORAGE	9.77	AUG 1989
BOISE	7.66	MAR 1871
CHEYENNE	7.66	APR 1900
DENVER	8.57	MAY 1876
HELENA	6.67	MAY 1927
HONOLULU	20.79	MAR 1951
LAS VEGAS	3.39	SEP 1939
LOS ANGELES	15.80	DEC 1889
PHOENIX	6.47	JUL 1911
PORTLAND	20.14	DEC 1882
SALT LAKE CITY	7.04	SEP 1982
SAN FRANCISCO	24.36	JAN 1862
SEATTLE	15.33	DEC 1933
ALASKA	70.99	MAC LEOD HARBOR NOV 1976
ARIZONA	16.95	CROWN KING AUG 1951
CALIFORNIA	71.54	HELENA MINE JAN 1909
COLORADO	23.28	RUBY FEB 1897
HAWAII	107.00	KUKUI MAR 1942
IDAHO	28.23	ROLAND DEC 1933
MONTANA	16.79	CIRCLE JUN 1921
NEVADA	33.03	MT. ROSE HIGHWAY STATION (NEAR RENO) DEC 1964
NEW MEXICO	16.93	CARLSBAD CAVERNS JUN 1986
OREGON	50.20	GLENORA NOV 1909
UTAH	25.45	ALTA DEC 1983
WASHINGTON	57.04	PETERSONS RANCH (NEAR COUGAR) DEC 1933
WYOMING	12.78	ALVA MAY 1962
UNITED STATES	107.00	KUKUI HAWAII MAR 1942
NORTH AMERICA	88.01	SWANSON BAY BRITISH COLUMBIA CANADA NOV 1917
WORLD	366.14	CHERRAPUNJI INDIA JUL 1861

TABLE 6

GREATEST PRECIPITATION IN ONE CALENDAR YEAR (INCHES)

ALBUQUERQUE	16.30	1858
ANCHORAGE	27.55	1989
BOISE	25.80	1871
CHEYENNE	23.69	1942
DENVER	23.31	1967
HELENA	20.94	1975
HONOLULU	42.78	1965
LAS VEGAS	10.72	1941
LOS ANGELES	40.29	1884
PHOENIX	19.73	1905
PORTLAND	67.24	1882
SALT LAKE CITY	24.26	1983
SAN FRANCISCO	43.75	1983
SEATTLE	55.14	1950
ALASKA	332.29	MAC LEOD HARBOR 1976
ARIZONA	58.92	HAWLEY LAKE 1978
CALIFORNIA	153.54	MONUMENTAL 1909
COLORADO	92.84	RUBY 1897
HAWAII	704.83	KUKUI 1982 (739.33 DEC 1981 THRU NOV 1982)
IDAHO	81.05	ROLAND 1933
MONTANA	55.51	SUMMIT 1953
		GRINNELL GLACIER (184.64 JUL 17 1958 THRU AUG 4 1959)
NEVADA	59.03	MT. ROSE RESORT 1969
NEW MEXICO	62.45	WHITE TAIL 1941
OREGON	168.88	VALSETZ 1937
UTAH	108.54	ALTA 1983
WASHINGTON	184.56	WYNOOCHEE OXBOW (25 NNE ABERDEEN) 1931
WYOMING	55.46	GRASSY LAKE DAM 1945
UNITED STATES	704.83	KUKUI HAWAII 1982 (739.33 DEC 1981 THRU NOV 1982)
NORTH AMERICA	332.29	MAC LEOD HARBOR ALASKA U.S. 1976
WORLD	905.12	CHERRAPUNJI INDIA 1861 (1041.78 AUG 1860 THRU JUL 1861)

TABLE 7

LEAST PRECIPITATION IN ONE CALENDAR YEAR (INCHES)

ALBUQUERQUE	3.29	1917
ANCHORAGE	8.08	1969
BOISE	6.64	1966
CHEYENNE	5.94	1964
DENVER	6.27	1954
HELENA	6.26	1973
HONOLULU	5.03	1983
LAS VEGAS	0.56	1953
LOS ANGELES	4.08	1953
PHOENIX	2.82	1956
PORTLAND	22.48	1985
SALT LAKE CITY	8.70	1979
SAN FRANCISCO	8.73	1976
SEATTLE	19.52	1952
ALASKA	1.61	BARROW 1935
ARIZONA	0.07	DAVIS DAM 1956
CALIFORNIA	0.00	GREENLAND RANCH DEATH VALLEY 1929
	0.00	BAGDAD 1913
COLORADO	1.69	BUENA VISTA 1939
HAWAII	0.19	KAWAIHAE 1953
IDAHO	2.09	GRAND VIEW 1947
MONTANA	2.97	BELFRY 1960
NEVADA	TRACE	HOT SPRINGS 1898
NEW MEXICO	0.91	VILLANUEVA 1983
OREGON	3.33	WARM SPRINGS RESERVOIR 1939
UTAH	1.34	HANKSVILLE 1956 MYTON 1974
WASHINGTON	2.61	WAHLUKE 1930
WYOMING	1.28	LYSITE 1960
UNITED STATES	0.00	GREENLAND RANCH DEATH VALLEY CALIFORNIA 1929
	0.00	BAGDAD CALIFORNIA 1913 (TRACE 767 DAYS OCT 3 1912 THRU NOV 8 1914)
NORTH AMERICA	0.00	GREENLAND RANCH DEATH VALLEY CALIFORNIA U.S. 1929
	0.00	BAGDAD CALIFORNIA U.S. 1913
WORLD	0.00	GREENLAND RANCH DEATH VALLEY CALIFORNIA U.S. 1929
	0.00	BAGDAD CALIFORNIA U.S. 1913
	0.00	IQUIQUE CHILE NOV 1945 THRU MAY 1957
	0.00	ARICA CHILE OCT 1903 THRU DEC 1917
	0.00	KHARGA EGYPT DEC 1957 THRU MAR 1960
	0.00	WADI HALFA SUDAN JUN 1945 THRU APR 1949

TABLE 8

GREATEST SNOWFALL IN TWENTY-FOUR HOURS (INCHES)

ALBUQUERQUE	14.2	DEC 28/29 1958
ANCHORAGE	17.7	DEC 28.29 1955
BOISE	17.0	DEC 16/17 1884
CHEYENNE	19.8	NOV 20 1979
DENVER	23.6	DEC 24 1982
HELENA	21.5	NOV 11/12 1959
HONOLULU	0.0	
LAS VEGAS	9.0	JAN 4/5 1974
LOS ANGELES	2.0	JAN 15 1932
PHOENIX	1.0	JAN 20 1933 JAN 20/21 1937
PORTLAND	16.0	JAN 31 - FEB 1 1937
SALT LAKE CITY	18.4	OCT 17/18 1984
SAN FRANCISCO	3.7	FEB 5 1887
SEATTLE	21.5	FEB 2 1916
ALASKA	62.0	THOMPSON PASS DEC 28/29 1955
ARIZONA	38.0	HEBER RANGER STATION DEC 14 1967
CALIFORNIA	67.0	ECHO SUMMIT JAN 4/5 1982
COLORADO	75.8	SILVER LAKE APR 14/15 1921
HAWAII		(REGULAR MEASUREMENTS OF THE SNOWFALL ON MAUNA KEA AND MAUNA LOA ARE NOT MADE)
IDAHO	30.0	PIERCE RANGER STATION DEC 28 1968
MONTANA	44.0	SUMMIT JAN 20 1972
NEVADA	36.0	DAGGETT PASS FEB 14/15 1969
NEW MEXICO	34.0	RED RIVER NOV 29 1975
OREGON	39.0	BONNEVILLE DAM JAN 8/9 1980
UTAH	38.0	ALTA DEC 1/2 1982
WASHINGTON	52.0	WINTHROP JAN 21 1935
WYOMING	41.0	GLENROCK APR 19 1973
UNITED STATES	75.8	SILVER LAKE COLORADO APR 14/15 1921
NORTH AMERICA	75.8	SILVER LAKE COLORADO U.S. APR 14/15 1921
	44.0	LIVINGSTON RANGER STATION ALBERTA CANADA JUN 29 1963

TABLE 9

GREATEST SNOWFALL IN ONE STORM (INCHES)

ALBUQUERQUE	14.2	DEC 28-29 1958
ANCHORAGE	35.7	DEC 26-30 1955
BOISE	23.6	DEC 15-17 1884
CHEYENNE	25.6	NOV 19-21 1979
DENVER	45.7	DEC 1-6 1913
HELENA	28.5	DEC 5-14 1917
HONOLULU	0.0	
LAS VEGAS	9.0	JAN 4-5 1974
LOS ANGELES	2.0	JAN 15 1932
PHOENIX	1.0	JAN 20 1933; JAN 20-21 1937
PORTLAND	27.5	DEC 21-24 1892
SALT LAKE CITY	21.6	MAR 13-14 1944
SAN FRANCISCO	3.7	FEB 5 1887
SEATTLE	32.5	JAN 31-FEB 2 1916
ALASKA	175.4	THOMPSON PASS DEC 26-31 1955
ARIZONA	67.0	HEBER RANGER STATION DEC 13-16 1967
CALIFORNIA	189.0	MT. SHASTA SKI BOWL FEB 13-19 1959
COLORADO	141.0	RUBY MAR 23-30 1899
HAWAII		(REGULAR MEASUREMENTS OF THE SNOWFALL ON MAUNA KEA AND MAUNA LOA ARE NOT MADE)
IDAHO	60.0	ROLAND WEST PORTAL DEC 25-27 1937
MONTANA	77.5	SUMMIT JAN 17-22 1972
NEVADA	75.0	MT. ROSE RESORT JAN 18-22 1969
NEW MEXICO	45.5	RED RIVER NOV 25-30 1975
OREGON	119.0	CRATER LAKE MAR 16-25 1975
UTAH	105.0	ALTA JAN 24-30 1965
WASHINGTON	129.0	LACONIA FEB 24-26 1910
WYOMING	58.0	GLENROCK APR 18-20 1973
UNITED STATES	189.0	MT. SHASTA SKI BOWL CALIFORNIA FEB 13-19 1959
NORTH AMERICA	189.0	MT. SHASTA SKI BOWL CALIFORNIA U.S. FEB 13-19 1959

TABLE 10

GREATEST SNOWFALL IN ONE CALENDAR MONTH (INCHES)

ALBUQUERQUE	14.7	DEC 1959
ANCHORAGE	48.5	FEB 1955
BOISE	36.6	DEC 1884
CHEYENNE	46.5	APR 1905
DENVER	57.4	DEC 1913
HELENA	46.4	DEC 1880
HONOLULU	0.0	
LAS VEGAS	16.7	JAN 1949
LOS ANGELES	2.0	JAN 1932
PHOENIX	1.0	JAN 1933; JAN 1937
PORTLAND	41.4	JAN 1950
SALT LAKE CITY	41.9	MAR 1977
SAN FRANCISCO	3.7	FEB 1887
SEATTLE	57.2	JAN 1950
ALASKA	346.1	THOMPSON PASS FEB 1964
ARIZONA	123.0	SUNRISE MOUNTAIN MAR 1973
CALIFORNIA	390.0	TAMARACK JAN 1911
COLORADO	249.0	RUBY MAR 1899
HAWAII		(REGULAR MEASUREMENTS OF THE SNOWFALL ON MAUNA KEA AND MAUNA LOA ARE NOT MADE)
IDAHO	143.8	BURKE JAN 1954
MONTANA	131.1	SUMMIT JAN 1972
NEVADA	139.0	DAGGETT PASS FEB 1969
NEW MEXICO	144.0	ANCHOR MINE MAR 1912
OREGON	256.0	CRATER LAKE JAN 1933
UTAH	244.5	ALTA DEC 1983
WASHINGTON	363.0	RAINIER PARADISE RANGER STATION JAN 1925
WYOMING	188.5	BECHLER RIVER JAN 1933
UNITED STATES	390.0	TAMARACK CALIFORNIA JAN 1911
NORTH AMERICA	390.0	TAMARACK CALIFORNIA U.S JAN 1911
	202.0	KEMANO KILDALA PASS BRITISH COLUMBIA CANADA FEB 1954

TABLE 11

GREATEST SNOWFALL IN ONE SEASON (INCHES)

ALBUQUERQUE	37.4	1972-1973
ANCHORAGE	132.6	1954-1955
BOISE	50.0	1916-1917
CHEYENNE	121.5	1979-1980
DENVER	118.7	1908-1909
HELENA	112.8	1880-1881
HONOLULU	0.0	
LAS VEGAS	16.7	1948-1949
LOS ANGELES	2.0	1931-1932
PHOENIX	1.0	1932-1933; 1936-1937
PORTLAND	60.9	1892-1893
SALT LAKE CITY	117.3	1951-1952
SAN FRANCISCO	3.7	1886-1887
SEATTLE	67.5	1968-1969
ALASKA	974.5	THOMPSON PASS 1952-1953
ARIZONA	400.9	SUNRISE MOUNTAIN 1972-1973
CALIFORNIA	884.0	TAMARACK 1906-1907
COLORADO	837.5	WOLF CREEK PASS 1978-1979
HAWAII		(REGULAR MEASUREMENTS OF THE SNOWFALL ON MAUNA KEA AND MAUNA LOA ARE NOT MADE)
IDAHO	441.8	ROLAND WEST PORTAL 1949-1950
MONTANA	418.1	COOKE CITY 1977-1978
NEVADA	412.0	DAGGETT PASS 1968-1969
NEW MEXICO	483.0	ANCHOR MINE 1911-1912
OREGON	879.0	CRATER LAKE 1932-1933
UTAH	846.8	ALTA 1982-1983
WASHINGTON	1122.0	RAINIER PARADISE RANGER STATION 1971-1972
WYOMING	491.6	BECHLER RIVER 1932-1933
UNITED STATES	1122.0	RAINIER PARADISE RANGER STATION WASHINGTON 1971-1972
NORTH AMERICA	1122.0	RAINIER PARADISE RANGER STATION WASHINGTON U.S. 1971-1972
	880.0	KEMANO KILDALA PASS BRITISH COLUMBIA CANADA 1956-1957

TABLE 12

GREATEST DEPTH OF SNOW ON THE GROUND (INCHES)

ALBUQUERQUE	14	DEC 29 1958
ANCHORAGE	47	DEC 30/31 1955; JAN 1 1956
BOISE	22	DEC 17 1884
CHEYENNE	26	NOV 22/23 1979
DENVER	33	DEC 6 1913
HELENA	24	DEC 13 1917; JAN 27 1969
HONOLULU	0	
LAS VEGAS	8	JAN 5 1974
LOS ANGELES	2	JAN 15 1932
PHOENIX	1	JAN 20 1933; JAN 21 1937
PORTLAND	19	FEB 6 1893
SALT LAKE CITY	23	JAN 31 1942
SAN FRANCISCO	4	FEB 5 1887
SEATTLE	29	FEB 2 1916
ALASKA	190	THANE CAMP #4 MAR 28 1917
ARIZONA	91	HAWLEY LAKE DEC 21 1967
CALIFORNIA	451	TAMARACK MAR 11 1911
COLORADO	254	RUBY MAR 30 1899
HAWAII		(REGULAR MEASUREMENTS OF THE DEPTH OF SNOW ON THE GROUND ON MAUNA KEA AND MAUNA LOA ARE NOT MADE, BUT DRIFTS OF MORE THAN 8 FEET HAVE BEEN OBSERVED ON THE SUMMIT OF MAUNA KEA)
IDAHO	182	MULLAN PASS FEB 20 1954
MONTANA	190	SUMMIT FEB 1 1972
NEVADA	175	DAGGETT PASS FEB 27 1969
NEW MEXICO	95	SANDIA CREST APR 4 1973
OREGON	246	TIMBERLINE LODGE MAR 19 1950
UTAH	179	ALTA APR 5 1958
WASHINGTON	367	RAINIER PARADISE RANGER STATION MAR 9 1956
WYOMING	96	BECHLER RIVER MAR 3 1939; SNAKE RIVER MAR 8/9 1974
UNITED STATES	451	TAMARACK CALIFORNIA MAR 11 1911
NORTH AMERICA	451	TAMARACK CALIFORNIA U.S. MAR 11 1911

TABLE 13

HIGHEST SEA-LEVEL PRESSURE (MILLIBARS AND INCHES)

ALBUQUERQUE	1044.7 / 30.85	DEC 22 1967
ANCHORAGE	1053.2 / 31.10	JAN 18 1962
BOISE	1054.2 / 31.13	JAN 21 1930
CHEYENNE	1054.5 / 31.14	JAN 10 1962
DENVER	1057.9 / 31.24	JAN 10 1962
HELENA	1063.3 / 31.40	JAN 9 1962
HONOLULU	1062.8 / 30.32	FEB 10 1919
LAS VEGAS	1043.0 / 30.80	DEC 22 1967
LOS ANGELES	1035.9 / 30.59	FEB 17 1883
PHOENIX	1036.9 / 30.62	DEC 24 1898; JAN 24 1938
PORTLAND	1044.4 / 30.84	FEB 2 1880
SALT LAKE CITY	1052.8 / 31.09	DEC 8/9 1956
SAN FRANCISCO	1037.6 / 30.64	MAR 4 1902
SEATTLE	1044.0 / 30.83	DEC 3 1921
ALASKA	1064.3 / 31.43	BARROW JAN 3 1970
ARIZONA	1056.8 / 31.21	GRAND CANYON DEC 22 1967
CALIFORNIA	1041.0 / 30.74	SACRAMENTO FEB 17 1883
COLORADO	1060.6 / 31.32	ALAMOSA DEC 14 1964
HAWAII	1026.8 / 30.32	HONOLULU FEB 10 1919 LIHUE JAN 27 1955
IDAHO	1058.0 / 31.24	IDAHO FALLS JAN 1 1979
MONTANA	1064.0 / 31.42	MILES CITY DEC 24 1983
NEVADA	1053.5 / 31.11	ELKO DEC 9 1956
NEW MEXICO	1051.9 / 31.06	FARMINGTON DEC 22 1967
OREGON	1054.7 / 31.15	BAKER JAN 1 1979
UTAH	1054.2 / 31.13	MILFORD DEC 9 1956
WASHINGTON	1053.4 / 31.11	WALLA WALLA JAN 1 1979
WYOMING	1060.3 / 31.31	CASPER JAN 9 1962
UNITED STATES	1078.6 / 31.85	NORTHWAY ALASKA JAN 31 1989
NORTH AMERICA	1078.6 / 31.85	NORTHWAY ALASKA JAN 31 1989
WORLD	1083.8 / 32.01	AGATA SIBERIA U.S.S.R. DEC 31 1968
	1078.9 / 31.86	BARNAUL SIBERIA U.S.S.R. JAN 23 1900
	1078.6 / 31.85	NORTHWAY ALASKA JAN 31 1989
	1075.2 / 31.75	IRKUTSK SIBERIA U.S.S.R. JAN 14 1893

TABLE 14

LOWEST SEA-LEVEL PRESSURE (MILLIBARS AND INCHES)

ALBUQUERQUE	983.1 / 29.03	OCT 5 1948
ANCHORAGE	952.9 / 28.14	JAN 1 1948
BOISE	981.0 / 28.97	DEC 23 1955
CHEYENNE	977.3 / 28.86	JAN 12 1932
DENVER	976.3 / 28.83	FEB 9 1960
HELENA	979.3 / 28.92	JAN 11 1932
HONOLULU	993.6 / 29.34	FEB 3 1926
LAS VEGAS	987.8 / 29.17	DEC 10 1949
LOS ANGELES	990.6 / 29.25	JAN 17 1988
PHOENIX	992.1 / 29.30	DEC 13 1984
PORTLAND	967.2 / 28.56	JAN 9 1880
SALT LAKE CITY	982.4 / 29.01	NOV 30 1982
SAN FRANCISCO	977.0 / 28.85	JAN 27 1916
SEATTLE	973.9 / 28.76	JAN 12 1980
ALASKA	925.0 / 27.31	DUTCH HARBOR OCT 25 1977
ARIZONA	987.1 / 29.15	FLAGSTAFF FEB 7 1937
CALIFORNIA	975.6 / 28.81	POINT REYES JAN 27 1916
COLORADO	975.0 / 28.79	LAMAR MAR 13 1973
HAWAII	972.0 / 28.70	BARKING SANDS NOV 23 1982
IDAHO	981.0 / 28.97	BOISE DEC 23 1955
MONTANA	975.3 / 28.80	HAVRE JAN 11 1932
NEVADA	979.7 / 28.93	WINNEMUCCA JAN 27 1916
NEW MEXICO	978.7 / 28.90	CLAYTON FEB 8/9 1960
OREGON	967.2 / 28.56	PORTLAND JAN 9 1880
UTAH	982.4 / 29.01	SALT LAKE CITY NOV 30 1982
WASHINGTON	967.5 / 28.57	TATOOSH ISLAND DEC 6 1952
WYOMING	977.3 / 28.86	CHEYENNE JAN 12 1932
UNITED STATES	892.3 / 26.35	MATECUMBE KEY FLORIDA SEP 2 1935
NORTH AMERICA	892.3 / 26.35	MATECUMBE KEY FLORIDA U.S. SEP 2 1935
WORLD	870.0 / 25.69	520 MILES NORTHWEST OF GUAM BY DROPSONDE IN EYE OF TYPHOON TIP (16° 44'N, 137° 46'E) OCT 12 1979
	876.0 / 25.87264	MILES WEST OF GUAM BY DROPSONDE IN EYE OF TYPHOON JUNE NOV 19 1975
	877.0 / 25.90750	MILES EAST OF LUZON PHILIPPINES BY DROPSONDE IN EYE OF TYPHOON IDA SEP 24 1958
	877.4 / 25.91420	MILES EAST OF MANILA PHILIPPINES BY DROPSONDE IN EYE OF TYPHOON NORA OCT 6 1973

888.0 / 26.22

230 MILES EAST SOUTHEAST OF
ISLAND OF COZUMEL MEXICO BY
DROPSONDE IN EYE OF HURRICANE
GILBERT (19.5 N, 83.5 W) SEP 13 1988

TABLE 15

HIGHEST WIND SPEED (MILES PER HOUR)

ALBUQUERQUE	90	FASTEST MILE	DEC 9 1943
ANCHORAGE	75	PEAK GUST	MAR 3 1989
	66	FASTEST MILE	APR 14 1945; NOV 23 1950
BOISE	61	FASTEST MILE	JUL 29 1944
CHEYENNE	75	FASTEST MILE	MAR 6 1972
DENVER	70	PEAK GUST	APR 16 1960; JUL 25 1965
	65	FASTEST MILE	MAY 22 1933
HELENA	73	FASTEST MILE	JAN 17 1944; FEB 16 1949
HONOLULU	83	PEAK GUST	JAN 17 1959
	67	FASTEST MILE	JAN 17 1959
LAS VEGAS	90	PEAK GUST	AUG 8 1989
	64	FASTEST MILE	JUL 14 1971; JUL 29 1976
LOS ANGELES	62	PEAK GUST	MAR 1 1952
PHOENIX	86	PEAK GUST	JUL 7 1976
PORTLAND	90	PEAK GUST	OCT 12 1962
	88	FASTEST MILE	OCT 12 1962
SALT LAKE CITY	94	PEAK GUST	JUN 3 1963
	71	FASTEST MILE	MAR 10 1954
SAN FRANCISCO	58	ONE MINUTE	JAN 30 1963
SEATTLE	66	FASTEST MILE	NOV 14 1981
ALASKA	94	FASTEST MILE	VALDEZ JAN 10 1980
	93	ONE MINUTE	KOTZEBUE FEB 25 1951
	159	PEAK GUST	ATTU DEC 7 1950
ARIZONA	92	PEAK GUST	MESA AUG 13 1983
CALIFORNIA	101	PEAK GUST	SANDBERG MAR 25 1975
	77	ONE MINUTE	SANDBERG FEB 10 1960
COLORADO	80	FASTEST MILE	PUEBLO JAN 17 1950
	143	PEAK GUST	BOULDER JAN 11 1972
HAWAII	103	PEAK GUST	KILAUEA POINT AUG 7 1959
IDAHO	72	FASTEST MILE	POCATELLO MAR 24 1955
MONTANA	82	FASTEST MILE	GREAT FALLS DEC 10 1956
NEVADA	80	FASTEST MILE	RENO JAN 10 1968 MAR 12 1968
NEW MEXICO	108	PEAK GUST	RATON FEB 1 1963
	90	FASTEST MILE	ALBUQUERQUE DEC 9 1943
OREGON	96	PEAK GUST	ASTORIA OCT 12 1962
	88	FASTEST MILE	PORTLAND OCT 12 1962
UTAH	94	PEAK GUST	SALT LAKE CITY JUN 3 1963
	71	FASTEST MILE	SALT LAKE CITY MAR 10 1954
WASHINGTON	113	FASTEST MILE	NORTH HEAD JAN 29 1921
WYOMING	96	PEAK GUST	SHERIDAN NOV 27 1949
	84	FASTEST MILE	SHERIDAN NOV 27 1949
UNITED STATES	231	PEAK GUST	MT. WASHINGTON NEW HAMPSHIRE APR 12 1934
	188	FIVE MINUTE	MT. WASHINGTON NEW HAMPSHIRE APR 12 1934

NORTH AMERICA

231 PEAK GUST MT. WASHINGTON NEW
HAMPSHIRE U.S. APR 12 1934
188 FIVE MINUTE MT. WASHINGTON NEW
HAMPSHIRE U.S. APR 12 1934

WORLD

231 PEAK GUST MT. WASHINGTON NEW
HAMPSHIRE U.S. APR 12 1934
188 FIVE MINUTE MT. WASHINGTON NEW
HAMPSHIRE U.S. APR 12 1934
207 PEAK GUST THULE AIR BASE GREENLAND
MAR 8 1972

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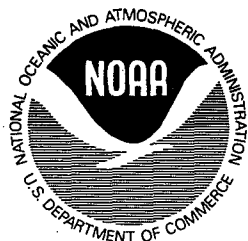
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