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NOAA TECHNICAL MEMORANDUM NWS WR-264

CLIMATE OF BILLINGS, MONTANA

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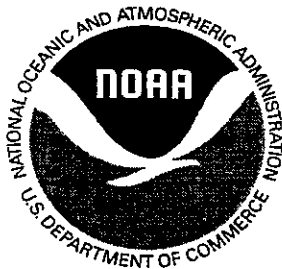
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November 2000

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DEPARTMENT OF COMMERCE
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Atmospheric Administration
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**This publication has been reviewed
and is approved for publication by
Scientific Services Division,
Western Region**

A handwritten signature in black ink, appearing to read 'Delain A. Edman', with a long horizontal flourish extending to the right.

**Delain A. Edman, Chief
Scientific Services Division
Salt Lake City, Utah**

TABLE OF CONTENTS

I. Introduction	1
II. Station History	1
Monthly Normals	3
Monthly Extremes	4

MONTHLY NORMALS, EXTREMES (1948 TO 2000) AND DEGREE DAYS

January	6
February	7
March	8
April	9
May	10
June	11
July	12
August	13
September	14
October	15
November	16
December	17

MONTHLY NORMALS, EXTREMES (ALL TIME) AND DEGREE DAYS

January	18
February	19
March	20
April	21
May	22
June	23
July	24
August	25
September	26
October	27
November	28
December	29

TEMPERATURE DATA (1948 TO 2000)

The 20 Highest Daily Maximum Temperatures	30
The 20 Lowest Daily Maximum Temperatures	31
The 20 Lowest Daily Minimum Temperatures	32

The 20 Highest Daily Minimum Temperatures	33
The 20 Highest Annual Mean Temperatures	34
The 20 Lowest Annual Mean Temperatures	35

PRECIPITATION DATA

Monthly Precipitation	36
Monthly Precipitation Extremes	38
Highest Monthly and Annual Precipitation	39
The 20 Wettest Years	40
The 20 Wettest Months	41
The 20 Greatest Precipitation Events	42
The 20 Driest Years	43

SNOWFALL DATA

Monthly Snowfall In Inches	44
Highest Monthly and Annual Snowfall	46
The 20 Highest Annual Snowfalls	47
The 20 Highest Monthly Snowfalls	48
The 20 Highest Daily Snowfalls	49
The 20 Lowest Annual Snowfalls	50

WIND DATA

Mean Wind Speed and Direction	51
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WIND ROSE INFORMATION

Wind Roses - 1984 - 1993 All Hours	52 - 64
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CLIMATE OF BILLINGS, MONTANA

*Jeffrey J. Zeltwanger and Mark H. Strobin
National Weather Service - Billings, Montana*

I. Introduction

Billings, Montana, ranging in elevation from 3,100 to 3,600 feet above sea level, is situated in the borderline area between the Great Plains and the Rocky Mountains. Therefore, it has a climate that has the characteristics of both regions. Its climate is classified as semi-arid.

About a third of the annual precipitation falls during May and June, with June being the wettest month. The period of least precipitation is from November through February which produce less than 20 percent of the annual precipitation. However, heavy snows from six inches to one foot are not uncommon during these winter months, particularly November and December. The heaviest snows, however, occur during the spring and fall months when the temperature and moisture conditions are most favorable. A snowstorm in April of 1955 left over 42 inches of snow in a four day period. The occurrence of thawing periods, even in mid-winter, normally prevents the snow from accumulating to great depths on the ground. Thunderstorms are restricted mainly to the warm season, May through September. These storms are frequently accompanied by strong, gusty winds and occasionally by hail. Destructive hailstorms, however, are rather infrequent. Tornadoes are also very rare in Billings.

Winters are usually cold, and have several mild periods of a week to several weeks in length. The winter cold periods are ushered in by north to northeast winds and snow. True blizzard conditions are not observed very often in town, but in the surrounding rural areas this condition may develop several times during an average winter. The cold waves "break" with the onset of moderate to strong southwest winds. This wind is sometimes called a chinook, but is more often a drainage wind moving down the Yellowstone Valley which transports warmer air of Pacific origin to the area. Very infrequently does a winter occur without the temperature falling to below zero.

Spring brings a period of frequent and rapid fluctuations in the weather. It is usually cloudy and cool with frequent periods of rain and/or snow. The last freezing temperatures in spring usually occur before mid-May, though they have occurred as late as late June.

The summer season is characterized by very warm days with abundant sunshine and low humidities. Nights are usually cool due to the altitude and the air drainage from the higher terrain nearby. Frequent thunderstorms bring usually small amounts of rain.

The first freezing temperatures of the fall season occur in late September, but they have been noted as early as late August.

The change to severe winter weather usually arrives after the middle of November, but there have been years when the more severe type of winter weather has been delayed until late December. The snows that occur during the early fall months seldom accumulate and stay on the ground for any appreciable period.

II. Station History

Weather records actually began being taken in downtown Billings on January 1, 1883. The records were taken at nine different locations within the city from January 1, 1883 to the present. Records in downtown Billings continue to the present, with the most recent location, the City Water Plant, beginning observations on October 18, 1951. Observations at Billings Logan International Airport began on July 1, 1934, first at the old Administration Building. Observations have been taken at the present location, the new Administration Building since June 26, 1958. Most of the records mentioned in this publication only include observations taken from July 1, 1934 through December 31, 1999 at Billings Logan International Airport.

Monthly Normals

Billings, Montana

Monthly Normals

Billings, Montana

Period of Record: 1961-1990

Month	MAX	MIN	AVG	HDD	CDD	PCPN	SNOW
Jan.	31.8	13.7	22.8	1308	0	0.90	10.7
Feb.	38.6	19.4	29.0	1008	0	0.64	6.6
Mar.	45.8	25.2	35.5	915	0	1.16	10.7
Apr.	57.1	34.0	45.6	582	0	1.74	7.9
May	66.7	43.3	55.0	316	6	2.57	1.9
Jun.	77.6	52.0	64.8	119	113	1.99	T
Jul.	86.7	58.3	72.5	12	244	0.94	0.0
Aug.	84.7	56.7	70.7	42	219	1.01	0.0
Sep.	71.6	46.5	59.1	242	65	1.36	1.7
Oct.	60.6	37.5	49.1	498	5	1.14	3.6
Nov.	44.5	25.6	35.1	897	0	0.84	7.5
Dec.	34.4	16.5	25.5	1225	0	0.79	9.4
Annual	58.3	35.7	47.1	7164	652	15.08	60.1

All Temperatures are in Degrees Fahrenheit
Heating and Cooling Degree Days are Based on a 65 Degree Standard
Precipitation and Snowfall are in Inches

Monthly Extremes

Billings, Montana

Period of Record: 1948-1999

Month	High Max	Last Occ'd	Low Max	Last Occ'd	Low Min	Last Occ'd	High Min	Last Occ'd
Jan.	68	1953	-21	1972	-30	1997	49	1953
Feb.	72	1961	-20	1989	-28	1996	48	1995
Mar.	79	1986	-4	1951	-19	1989	53	1986
Apr.	90	1980	22	1997	5	1997	56	1987
May	95	1984	28	1954	14	1954	63	1961
Jun.	105	1984	36	1951	32	1969	72	1988
Jul.	105	1960	47	1972	41	1972	73	2000
Aug.	105	1961	52	1992	35	1992	72	1983
Sep.	103	1983	31	1984	22	1984	70	1991
Oct.	90	1992	16	1971	-7	1991	62	1955
Nov.	77	1999	-9	1985	-22	1959	57	1983
Dec.	69	1980	-20	1964	-32	1983	53	1980

Monthly Extremes

Billings, Montana

All Time

Month	High Max	Last Occ'd	Low Min	Last Occ'd
Jan.	68	1953	-30	1997
Feb.	72	1961	-38	1936
Mar.	79	1986	-19	1989
Apr.	92	1939	-5	1936
May	96	1936	14	1954
Jun.	105	1984	32	1969
Jul.	106	1939	41	1972
Aug.	105	1961	35	1992
Sep.	103	1983	22	1984
Oct.	90	1992	-7	1991
Nov.	77	1999	-22	1959
Dec.	69	1980	-32	1983

January

BIL Daily Normals/Temperature Extremes/Degree Days - 1948 to 2000								
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low Max./Year (deg. F)	Low/Year (deg. F)	High Min./Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	31/14	60/1998	4/1977	-14/1974	40/1997	43	0	1
2	31/13	53/1981	-9/1950	-20/1950	35/1963	43	0	2
3	31/13	57/1962	-6/1959	-19/1950	40/1962	43	0	3
4	31/13	52/1956	1/1966	-19/1973	37/1984	43	0	4
5	31/13	57/1958	-7/1982	-17/1982	38/1984	43	0	5
6	31/13	58/1961	1/1976	-17/1982	39/1954	43	0	6
7	31/13	60/1954	-8/1976	-15/1976	35/1990	43	0	7
8	31/13	58/1983	-6/1980	-18/1973	40/1983	43	0	8
9	31/13	67/1953	-6/1980	-18/1973	46/1953	43	0	9
10	31/13	57/1995	-8/1949	-22/1949	41/1995	43	0	10
11	31/13	68/1953	-11/1997	-23/1997	40/1999	43	0	11
12	31/13	64/1953	-15/1997	-30/1997	49/1953	43	0	12
13	31/13	61/1996	-8/1950	-22/1997	38/1996	43	0	13
14	31/13	60/1995	-13/1950	-21/1972	42/1973	43	0	14
15	31/13	59/1974	-4/1954	-18/1950	43/1974	43	0	15
16	31/13	59/1974	-10/1954	-18/1954	47/1974	43	0	16
17	31/13	60/1958	-7/1970	-14/1970	38/1986	43	0	17
18	31/14	55/1981	-7/1962	-21/1963	34/1991	43	0	18
19	32/14	65/1986	-8/1962	-26/1963	48/1986	42	0	19
20	32/14	56/1991	-10/1954	-27/1954	38/1968	42	0	20
21	32/14	57/1981	-10/1982	-25/1962	42/1989	42	0	21
22	32/14	64/1981	-7/1982	-19/1982	36/1981	42	0	22
23	32/14	61/1981	-7/1949	-23/1969	35/1981	42	0	23
24	33/14	58/1968	-9/1949	-26/1949	40/1968	42	0	24
25	33/14	59/1992	-13/1972	-28/1957	39/1984	42	0	25
26	33/15	54/1982	-21/1972	-27/1972	36/1993	41	0	26
27	33/15	60/1986	-12/1951	-27/1972	39/1988	41	0	27
28	34/15	63/1967	-15/1969	-22/1951	41/1988	41	0	28
29	34/15	58/1976	-13/1996	-20/1951	44/1988	41	0	29
30	34/16	59/1992	-2/1950	-21/1996	38/1989	40	0	30
31	34/16	67/1992	0/1990	-17/1969	48/1992	40	0	31

Numbers in bold indicate monthly extremes

February

BIL Daily Normals/Temperature Extremes/Degree Days - 1948 to 2000								
Date	Normal Hi/Lo (deg. F)	High/Year (deg. F)	Low Max./Year (deg. F)	Low/Year (deg. F)	High Min./Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	35/16	61/1992	-12/1989	-23/1996	43/1995	40	0	1
2	35/16	61/1962	-20/1989	-28/1996	40/1962	40	0	2
3	35/17	62/1962	-16/1989	-26/1989	43/1962	39	0	3
4	36/17	61/1997	-10/1989	-22/1989	40/1963	39	0	4
5	36/17	65/1963	0/1975	-19/1989	44/1963	39	0	5
6	36/18	61/1963	8/1973	-9/1994	38/1960	38	0	6
7	37/18	68/1987	-9/1994	-14/1994	41/1996	38	0	7
8	37/18	68/1954	1/1994	-16/1994	44/2000	38	0	8
9	37/18	70/1996	-1/1985	-14/1982	43/1951	38	0	9
10	38/19	72/1961	0/1981	-20/1981	48/1961	37	0	10
11	38/19	68/1961	10/1978	-9/1986	41/1961	37	0	11
12	38/19	59/1987	-2/1949	-19/1949	44/1983	37	0	12
13	38/19	66/1996	5/1978	-24/1949	39/1983	37	0	13
14	39/19	59/1982	2/1980	-11/1990	40/1981	36	0	14
15	39/20	61/1982	-4/1979	-17/1956	42/1982	36	0	15
16	39/20	65/1996	-2/1979	-22/1956	41/1982	36	0	16
17	39/20	60/1994	0/1989	-15/1993	41/1982	36	0	17
18	40/20	60/1996	3/1986	-6/1989	41/1995	35	0	18
19	40/20	70/1981	-1/1949	-12/1955	44/1995	35	0	19
20	40/21	69/1995	6/1957	-11/1949	44/1995	35	0	20
21	40/21	71/1982	6/1957	-9/1957	44/1995	35	0	21
22	41/21	64/1958	1/1957	-13/1965	37/1990	34	0	22
23	41/21	61/1981	4/1962	-20/1965	39/1981	34	0	23
24	41/21	71/1995	3/1962	-12/1955	48/1995	34	0	24
25	41/22	69/1995	6/1962	-10/1994	47/1986	34	0	25
26	41/22	67/1950	1/1962	-14/1962	40/1963	34	0	26
27	42/22	70/1992	6/1960	-15/1962	42/1980	33	0	27
28	42/22	71/1992	1/1962	-17/1962	42/1999	33	0	28
29	42/22	69/1992	18/1960	-11/1996	40/1968	33	0	29

Numbers in bold indicate monthly extremes

March

BIL Daily Normals/Temperature Extremes/Degree Days - 1948 to 2000								
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low Max./Year (deg. F)	Low/Year (deg. F)	High Min./Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	42/22	67/1992	-1/1960	-10/1960	42/1974	33	0	1
2	42/22	67/1992	-2/1960	-17/1960	42/1994	33	0	2
3	42/22	69/1994	-1/1978	-13/1978	43/1994	33	0	3
4	42/23	69/1987	9/1980	-19/1989	48/1987	33	0	4
5	43/23	71/1987	8/1996	-16/1951	47/1987	32	0	5
6	43/23	68/1987	-4/1951	-19/1951	48/1987	32	0	6
7	43/23	65/1993	-3/1951	-19/1951	38/1977	32	0	7
8	43/23	64/1990	-4/1951	-16/1951	39/1986	32	0	8
9	43/24	68/1972	8/1951	-13/1951	40/1988	32	0	9
10	44/24	71/1983	9/1950	-10/1951	45/1972	31	0	10
11	44/24	72/1983	8/1950	-11/1956	41/1995	31	0	11
12	44/24	67/1992	17/1950	-13/1950	40/1995	31	0	12
13	45/24	68/1994	11/1967	-1/1997	42/1987	31	0	13
14	45/25	70/1999	10/1997	-8/1997	42/1961	30	0	14
15	45/25	70/1992	23/1955	-5/1997	39/1999	30	0	15
16	45/25	78/1994	14/1989	-1/1965	43/1994	30	0	16
17	46/25	67/1974	8/1965	-5/1965	44/1964	30	0	17
18	46/25	69/1972	16/1965	-9/1965	43/1973	30	0	18
19	46/26	75/1997	17/1965	3/1965	47/1997	29	0	19
20	47/26	76/1997	21/1955	2/1965	50/1988	29	0	20
21	47/26	73/1960	25/1971	8/1971	44/1986	29	0	21
22	47/26	76/1960	13/1965	1/1965	38/1963	29	0	22
23	48/27	77/1993	6/1965	-9/1965	48/1963	28	0	23
24	48/27	78/1993	3/1964	-12/1955	44/1993	28	0	24
25	49/27	74/1999	12/1965	-12/1955	43/1993	27	0	25
26	49/28	77/1960	15/1965	0/1965	49/1997	27	0	26
27	49/28	72/1986	17/1965	8/1965	46/1986	27	0	27
28	50/28	79/1986	15/1954	1/1965	53/1986	26	0	28
29	50/28	76/1978	26/1996	-5/1987	47/1986	26	0	29
30	51/29	79/1978	26/1954	1/1954	44/1978	25	0	30
31	51/29	73/1964	32/1975	9/1954	40/1978	25	0	31

Numbers in bold indicate monthly extremes

April

BIL Daily Normals/Temperature Extremes/Degree Days - 1948 to 2000								
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low Max./Year (deg. F)	Low/Year (deg. F)	High Min./Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	52/29	72/1991	24/1975	14/1975	45/1964	25	0	1
2	52/30	75/1990	22/1954	11/1954	45/1961	24	0	2
3	52/30	80/1992	26/1982	16/1972	47/1960	24	0	3
4	53/30	77/2000	24/1982	16/1972	48/1992	24	0	4
5	53/31	80/1960	24/1997	14/1979	53/1991	23	0	5
6	54/31	79/1969	22/1975	14/1997	50/1988	23	0	6
7	54/31	73/1977	23/1997	16/1997	48/1996	23	0	7
8	54/32	79/1996	25/1997	13/1997	46/1996	22	0	8
9	55/32	82/1996	24/1997	16/1973	50/1977	22	0	9
10	55/32	78/1985	22/1997	13/1997	45/1986	22	0	10
11	56/33	80/1949	25/1997	9/1997	48/1949	21	0	11
12	56/33	80/1976	34/1991	5/1997	44/1982	21	0	12
13	56/33	76/1959	22/1986	15/1986	49/1954	21	0	13
14	57/34	80/1985	25/2000	9/1986	45/1985	20	0	14
15	57/34	85/1962	35/1970	17/1986	47/1989	20	0	15
16	57/34	82/1994	38/1965	20/1970	54/1981	20	0	16
17	58/34	84/1994	34/1966	17/1964	52/1994	19	0	17
18	58/35	80/1980	26/1966	18/1951	50/1980	19	0	18
19	59/35	87/1962	27/1966	11/1951	50/1999	18	0	19
20	59/35	90/1980	30/1951	17/1966	53/1980	18	0	20
21	59/36	89/1980	29/1967	19/1967	53/1980	18	0	21
22	60/36	80/1987	37/1956	17/1967	53/1986	17	0	22
23	60/36	81/1949	33/1958	20/1967	50/1969	17	0	23
24	60/37	85/1962	33/1960	22/1967	52/1962	17	0	24
25	60/37	84/1974	35/1988	23/1960	48/1962	17	0	25
26	61/37	84/1977	31/1994	23/1994	49/1978	16	0	26
27	61/38	84/1987	32/1956	20/1994	53/1952	16	0	27
28	61/38	88/1987	28/1954	18/1954	54/1952	16	0	28
29	62/38	88/1987	32/1950	19/1966	56/1987	15	0	29
30	62/39	85/1987	27/1967	17/1950	51/1992	15	0	30

Numbers in bold indicate monthly extremes

May

BIL Daily Normals/Temperature Extremes/Degree Days - 1948 to 2000								
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low Max./Year (deg. F)	Low/Year (deg. F)	High Min./Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	62/39	88/1981	28/1954	17/1954	52/2000	15	0	1
2	62/39	90/1985	35/1954	14/1954	51/2000	15	0	2
3	63/39	84/1986	32/1950	16/1954	57/1985	14	0	3
4	63/40	84/1966	40/1950	21/1967	54/1980	14	0	4
5	63/40	83/1966	45/1978	26/1967	51/1980	14	0	5
6	63/40	89/1992	40/1972	32/1996	52/1980	14	0	6
7	64/41	88/1992	37/1950	30/1950	55/1992	13	0	7
8	64/41	90/1987	37/1986	29/1979	51/1989	13	0	8
9	64/41	86/1987	33/1996	27/1996	58/1987	13	0	9
10	65/42	84/1977	39/1983	25/1967	57/1987	12	0	10
11	65/42	89/1960	33/1983	20/1953	51/1958	12	0	11
12	65/42	94/1960	34/1983	21/1953	63/1960	12	0	12
13	66/42	90/1993	42/1953	28/1953	55/1949	11	0	13
14	66/43	87/1984	50/1955	28/1953	57/1984	11	0	14
15	66/43	91/1987	44/1955	33/1974	56/1987	11	0	15
16	67/43	91/1988	50/1961	30/1974	55/1997	10	0	16
17	67/44	88/1970	44/1974	35/1999	58/1973	10	0	17
18	67/44	92/1992	39/1977	33/1971	58/1992	10	0	18
19	68/44	92/1992	46/1959	29/1997	55/1956	9	0	19
20	68/44	91/1964	43/1974	33/1987	60/1954	9	0	20
21	68/45	91/1980	43/1975	31/1963	58/1958	9	0	21
22	69/45	94/1980	47/1971	32/1963	61/2000	8	0	22
23	69/45	88/1985	48/1949	31/1949	58/1980	8	0	23
24	69/46	89/1985	47/1996	34/1975	58/1985	8	0	24
25	69/46	88/1983	51/1996	33/1992	57/1956	8	0	25
26	70/46	93/1969	49/1995	33/1975	59/1983	7	0	26
27	70/47	91/1969	47/1959	35/1954	63/1961	7	0	27
28	71/47	91/1958	45/1982	38/1982	61/1999	6	0	28
29	71/47	89/1988	49/1979	35/1959	59/1961	6	0	29
30	71/47	95/1984	47/1971	36/1982	58/1984	6	0	30
31	72/48	90/1997	40/1951	32/1982	57/1997	5	0	31

Numbers in bold indicate monthly extremes

June

BIL Daily Normals/Temperature Extremes/Degree Days - 1948 to 2000								
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low Max./Year (deg. F)	Low/Year (deg. F)	High Min./Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	73/48	92/1977	36/1951	32/1951	59/1986	5	0	1
2	73/48	93/1986	48/1951	32/1951	69/1986	5	0	2
3	73/49	92/1988	48/1998	32/1951	60/1968	4	0	3
4	73/49	101/1988	55/1962	40/1998	62/1988	4	0	4
5	74/49	102/1988	54/1953	40/1998	65/1988	4	0	5
6	74/49	96/1988	56/1982	38/1998	69/1988	4	0	6
7	74/50	98/1988	48/1974	32/1950	62/1977	3	0	7
8	75/50	95/1988	42/1950	32/1950	65/1977	3	0	8
9	75/50	95/1956	46/1995	38/1995	61/1977	3	0	9
10	76/51	96/1988	53/1963	38/1995	63/1990	2	0	10
11	76/51	93/1992	53/1967	39/1969	61/1972	2	0	11
12	76/51	95/1979	42/1969	32/1969	61/1992	2	0	12
13	77/51	98/1959	53/1976	32/1969	66/1979	1	0	13
14	77/52	98/1959	50/1981	38/1969	61/1996	1	0	14
15	77/52	98/1987	57/1992	40/1991	63/1987	1	0	15
16	78/52	95/1988	53/1998	43/1998	60/1995	0	0	16
17	78/52	98/1988	50/1949	40/1994	63/1995	0	0	17
18	78/52	96/1986	52/1975	42/1981	66/1988	0	0	18
19	79/53	100/1989	61/1964	44/1954	65/1963	0	1	19
20	79/53	103/1988	57/1958	42/1978	64/1988	0	1	20
21	80/53	97/1988	60/1957	41/1958	66/1988	0	2	21
22	80/54	99/1988	61/1967	43/1967	62/1971	0	2	22
23	80/54	104/1988	52/1967	43/1960	67/1988	0	2	23
24	81/54	99/1988	60/1982	41/1953	72/1988	0	3	24
25	81/55	101/1988	52/1969	42/1958	66/1977	0	3	25
26	81/55	102/1988	56/1969	41/1989	67/1988	0	3	26
27	82/55	95/1961	61/1995	38/1951	68/1961	0	4	27
28	82/55	102/1966	59/1995	41/1951	66/1961	0	4	28
29	83/56	105/1984	57/1968	44/1969	66/1978	0	5	29
30	83/56	102/1990	60/1968	43/1995	65/1962	0	5	30

Numbers in bold indicate monthly extremes

July

BIL Daily Normals/Temperature Extremes/Degree Days - 1948 to 2000								
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low Max./Year (deg. F)	Low/Year (deg. F)	High Min./Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	83/56	100/1990	56/1992	46/1972	67/1990	0	5	1
2	84/56	99/1985	65/1997	42/1955	66/1975	0	5	2
3	84/57	101/1961	57/1993	47/1972	67/1988	0	6	3
4	84/57	101/1989	63/1999	41/1972	73/1961	0	6	4
5	85/57	104/1981	70/1986	46/1959	66/1984	0	6	5
6	85/57	100/1985	58/1994	47/1958	71/1981	0	6	6
7	85/57	101/1989	66/1959	42/1952	68/1985	0	6	7
8	85/58	100/1989	72/1993	46/1959	69/1954	0	7	8
9	86/58	98/1985	60/1951	47/1959	66/1970	0	7	9
10	86/58	101/1973	52/1951	45/1951	67/1970	0	7	10
11	86/58	97/1969	60/1987	42/1951	71/1985	0	7	11
12	87/58	101/1954	58/1997	43/1951	68/1968	0	8	12
13	87/58	102/2000	66/1993	48/1950	70/1954	0	8	13
14	87/59	103/1953	65/1958	49/1993	67/2000	0	8	14
15	87/59	100/1974	59/1983	46/1983	67/2000	0	8	15
16	87/59	103/1966	67/1999	42/1999	72/1974	0	8	16
17	87/59	101/1977	67/1987	45/1982	69/1977	0	8	17
18	88/59	104/1955	65/1987	43/1972	67/1954	0	9	18
19	88/59	105/1960	47/1972	41/1972	71/1960	0	9	19
20	88/59	103/1960	50/1972	46/1972	67/1966	0	9	20
21	88/59	101/1960	69/1978	46/1972	71/1989	0	9	21
22	88/59	102/1985	65/1984	49/1972	72/1963	0	9	22
23	88/59	101/1980	68/1984	50/1972	71/1960	0	9	23
24	88/59	105/1999	67/1993	51/1950	67/1982	0	9	24
25	88/59	96/1988	62/1981	51/1948	67/1987	0	9	25
26	88/59	100/1959	60/1993	48/1971	66/1987	0	9	26
27	88/59	100/1975	74/1971	51/1981	69/1988	0	9	27
28	88/59	102/1999	60/1971	48/1971	69/1994	0	9	28
29	88/59	100/2000	64/1985	43/1971	71/1999	0	9	29
30	88/59	102/2000	60/1950	46/1971	68/1991	0	9	30
31	88/59	104/1989	73/1975	47/1995	73/2000	0	9	31

Numbers in bold indicate monthly extremes

August

BIL Daily Normals/Temperature Extremes/Degree Days - 1948 to 1999								
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low Max./Year (deg. F)	Low/Year (deg. F)	High Min./Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	88/59	98/1982	74/1976	49/1950	70/1983	0	9	1
2	88/59	99/1966	57/1978	46/1978	70/1982	0	9	2
3	88/59	104/1961	70/1993	44/1978	67/1965	0	9	3
4	88/59	103/1964	71/1977	46/1978	68/1983	0	9	4
5	88/59	105/1961	69/1977	51/1980	70/1957	0	9	5
6	88/59	103/1949	72/1996	51/1969	70/1949	0	9	6
7	88/59	103/1990	69/1974	49/1969	69/1990	0	9	7
8	87/59	100/1970	65/1974	48/1966	72/1983	0	8	8
9	87/59	99/1991	59/1968	47/1974	69/1971	0	8	9
10	87/58	100/1957	59/1997	48/1974	69/1987	0	8	10
11	87/58	100/1996	60/1985	47/1977	71/1983	0	8	11
12	87/58	101/1996	65/1985	45/1987	67/1996	0	8	12
13	86/58	97/1970	63/1985	49/1985	67/1970	0	7	13
14	86/58	102/1971	63/1974	45/1985	67/1982	0	7	14
15	86/57	99/1961	60/1968	45/1974	69/1956	0	7	15
16	85/57	98/1973	60/1997	48/1978	68/1971	0	6	16
17	85/57	99/1970	69/1985	44/1985	68/1984	0	6	17
18	85/57	101/1964	61/1956	46/1985	65/1982	0	6	18
19	84/57	98/1992	64/1983	45/1995	70/1955	0	6	19
20	84/56	98/1971	54/1964	44/1956	67/1991	0	5	20
21	84/56	97/1969	61/1966	46/1966	67/1982	0	5	21
22	84/56	100/1971	64/1992	40/1992	64/1991	0	5	22
23	83/55	99/1969	57/1992	39/1992	69/1952	0	4	23
24	83/55	100/1969	52/1992	36/1992	68/1961	0	4	24
25	82/55	98/1985	59/1987	35/1992	69/1969	0	4	25
26	81/54	98/1994	62/1987	40/1992	68/1970	0	3	26
27	81/54	96/1984	67/1951	42/1993	70/1984	0	3	27
28	80/53	99/1983	61/1962	42/1960	64/1996	0	2	28
29	80/53	96/1995	58/1962	44/1992	67/1961	0	2	29
30	79/53	100/1954	60/1994	41/1993	65/1961	0	1	30
31	79/52	101/1955	64/1972	40/1993	67/1954	0	1	31

Numbers in bold indicate monthly extremes

September

BIL Daily Normals/Temperature Extremes/Degree Days - 1948 to 1999								
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low Max./Year (deg. F)	Low/Year (deg. F)	High Min./Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	78/52	103/1983	52/1973	43/1974	70/1991	0	0	1
2	78/51	99/1998	51/1999	35/1974	63/1998	1	0	2
3	77/51	97/1978	48/1962	39/1956	64/1978	1	0	3
4	77/51	100/1950	54/1965	31/1962	65/1960	1	0	4
5	76/50	94/1976	54/1949	37/1956	61/1978	2	0	5
6	76/50	97/1980	51/1986	36/1956	67/1998	2	0	6
7	75/49	97/1998	51/1985	34/1962	65/1991	3	0	7
8	74/49	99/1979	37/1962	32/1962	64/1990	4	0	8
9	74/49	95/1998	53/1950	31/1962	65/1994	4	0	9
10	74/48	92/1966	49/1989	33/1989	60/1998	4	0	10
11	73/48	96/1959	45/1949	28/1949	62/1993	5	0	11
12	73/47	93/1990	39/1970	30/1970	63/1990	5	0	12
13	72/47	92/1959	34/1970	29/1970	65/1953	6	0	13
14	72/47	97/1948	37/1982	31/1982	64/1968	6	0	14
15	71/46	93/1948	43/1973	31/1973	64/1948	7	0	15
16	71/46	94/1979	39/1965	29/1965	63/1953	7	0	16
17	71/46	90/1984	39/1965	26/1965	60/1948	7	0	17
18	70/45	92/1984	45/1983	28/1983	61/1948	8	0	18
19	70/45	93/1981	35/1983	26/1983	58/1984	8	0	19
20	69/45	90/1966	42/1995	26/1995	55/1966	8	0	20
21	69/45	88/1979	45/1961	28/1961	55/1966	8	0	21
22	69/44	87/1992	39/1965	30/1965	60/1966	9	0	22
23	68/44	91/1992	37/1984	23/1984	58/1992	9	0	23
24	68/44	88/1990	31/1984	22/1984	56/1990	9	0	24
25	68/43	90/1990	37/1972	26/1972	60/1982	10	0	25
26	68/43	88/1963	38/1984	25/1984	59/1997	10	0	26
27	67/43	91/1963	33/1984	27/1984	56/1989	10	0	27
28	67/43	90/1967	33/1985	26/1985	58/1967	10	0	28
29	67/42	89/1989	38/1985	26/1985	52/1989	11	0	29
30	66/42	90/1963	35/1950	23/1950	56/1989	11	0	30

Numbers in bold indicate monthly extremes

October

BIL Daily Normals/Temperature Extremes/Degree Days - 1948 to 1999								
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low Max./Year (deg. F)	Low/Year (deg. F)	High Min./Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	66/42	90/1992	30/1950	23/1950	60/1963	11	0	1
2	66/42	85/1997	35/1989	25/1950	55/1997	11	0	2
3	66/42	88/1992	41/1989	25/1999	51/1987	11	0	3
4	66/41	90/1963	40/1957	30/1964	59/1963	12	0	4
5	66/41	85/1993	42/1972	26/1954	55/1980	12	0	5
6	65/41	86/1980	38/1990	22/1952	56/1975	12	0	6
7	65/41	89/1980	33/1957	18/1985	56/1960	12	0	7
8	64/40	87/1980	25/1985	17/1985	55/1955	13	0	8
9	64/40	85/1965	30/1993	18/1993	62/1955	13	0	9
10	64/40	85/1953	40/1959	21/1987	56/1955	13	0	10
11	63/39	82/1995	28/1969	22/1959	58/1995	14	0	11
12	63/39	82/1991	27/1969	22/1969	50/1958	14	0	12
13	62/39	81/1964	29/1969	20/1969	52/1950	15	0	13
14	62/38	86/1958	37/1969	18/1969	53/1982	15	0	14
15	62/38	84/1958	34/1992	24/1992	51/1991	15	0	15
16	61/38	86/1991	32/1971	19/1992	57/1991	16	0	16
17	61/37	79/1954	34/1949	20/1948	48/1974	16	0	17
18	60/37	83/1955	33/1949	24/1984	55/1958	17	0	18
19	59/37	79/1985	25/1949	20/1949	48/1955	17	0	19
20	59/36	79/1974	24/1949	20/1949	50/1985	18	0	20
21	59/36	82/1992	32/1949	19/1984	54/1989	18	0	21
22	58/36	77/1983	33/1975	22/1981	55/1963	18	0	22
23	58/35	79/1948	28/1991	20/1981	47/1982	19	0	23
24	57/35	79/1999	30/1957	19/1976	49/1968	19	0	24
25	57/34	78/1977	31/1969	18/1997	51/1983	20	0	25
26	56/34	81/1983	27/1969	22/1970	58/1983	20	0	26
27	55/34	82/1983	29/1991	16/1991	51/1994	21	0	27
28	55/33	79/1985	17/1971	3/1971	50/1968	21	0	28
29	54/33	80/1968	16/1971	1/1991	54/1950	22	0	29
30	54/32	77/1950	18/1991	-7/1991	50/1966	22	0	30
31	53/32	76/1999	24/1995	2/1984	51/1983	23	0	31

Numbers in bold indicate monthly extremes

November

BIL Daily Normals/Temperature Extremes/Degree Days - 1948 to 1999								
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low Max./Year (deg. F)	Low/Year (deg. F)	High Min./Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	52/31	72/1988	16/1984	1/1984	47/1983	24	0	1
2	52/31	69/1981	15/1991	-2/1991	49/1988	24	0	2
3	51/31	76/1983	18/1973	7/1991	47/1983	24	0	3
4	50/30	77/1983	15/1973	4/1959	57/1983	25	0	4
5	50/30	74/1980	19/1973	2/1973	47/1983	25	0	5
6	49/29	73/1999	19/1971	8/1971	49/1980	26	0	6
7	49/29	77/1999	11/1973	6/1973	48/1980	26	0	7
8	48/28	73/1999	15/1973	2/1966	51/1999	27	0	8
9	47/28	65/1989	7/1986	-6/1986	47/1989	28	0	9
10	47/28	67/1990	13/1978	-12/1986	50/1990	28	0	10
11	46/27	71/1990	11/1978	1/1978	50/1990	29	0	11
12	46/27	77/1999	5/1986	-11/1986	54/1999	29	0	12
13	45/26	66/1999	1/1955	-20/1959	44/1990	30	0	13
14	45/26	70/1999	0/1955	-10/1955	41/1975	30	0	14
15	44/26	69/1975	4/1955	-14/1959	46/1998	30	0	15
16	44/25	66/1953	5/1959	-22/1959	48/1953	31	0	16
17	43/25	65/1995	13/1996	-6/1955	45/1979	31	0	17
18	43/25	71/1995	8/1985	-5/1978	45/1995	31	0	18
19	43/24	63/1954	-5/1978	-8/1985	48/1989	32	0	19
20	42/24	64/1962	-3/1978	-13/1977	42/1968	32	0	20
21	42/23	65/1954	2/1985	-18/1977	45/1974	33	0	21
22	41/23	62/1949	-4/1985	-17/1985	43/1954	33	0	22
23	41/23	64/1984	5/1993	-18/1985	41/1995	33	0	23
24	40/22	66/1990	4/1993	-11/1993	47/1995	34	0	24
25	40/22	68/1949	0/1985	-11/1985	43/1954	34	0	25
26	40/22	66/1998	-9/1985	-19/1985	45/1962	34	0	26
27	39/21	66/1949	-7/1985	-17/1985	42/1949	35	0	27
28	39/21	57/1951	-3/1985	-16/1985	39/1966	35	0	28
29	39/21	63/1980	-3/1985	-8/1975	38/1959	35	0	29
30	38/21	65/1999	-5/1985	-14/1985	45/1995	36	0	30

Numbers in bold indicate monthly extremes

December

BIL Daily Normals/Temperature Extremes/Degree Days - 1948 to 1999								
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low Max./Year (deg. F)	Low/Year (deg. F)	High Min./Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	38/20	65/1995	-8/1985	-21/1985	41/1994	36	0	1
2	38/20	63/1956	-3/1985	-23/1985	46/1958	36	0	2
3	37/20	62/1987	0/1972	-7/1972	42/1989	37	0	3
4	37/19	65/1979	-7/1972	-11/1972	44/1965	37	0	4
5	37/19	61/1987	-6/1972	-16/1972	39/1979	37	0	5
6	37/19	64/1981	-11/1972	-20/1972	40/1991	37	0	6
7	36/18	58/1984	-11/1972	-20/1972	37/1970	38	0	7
8	36/18	62/1957	-14/1972	-25/1972	35/1968	38	0	8
9	36/18	69/1957	-6/1977	-21/1977	43/1990	38	0	9
10	36/18	65/1990	-3/1961	-14/1961	40/1968	38	0	10
11	35/17	62/1980	6/1961	-17/1961	43/1980	39	0	11
12	35/17	57/1988	10/1972	-8/1961	39/1966	39	0	12
13	35/17	59/1988	6/1963	-16/1963	39/1966	39	0	13
14	35/17	56/1962	4/1948	-8/1951	40/1979	39	0	14
15	34/16	69/1980	-1/1951	-20/1964	53/1980	40	0	15
16	34/16	67/1980	-20/1964	-26/1964	49/1980	40	0	16
17	34/16	60/1998	-8/1983	-24/1964	38/1982	40	0	17
18	34/16	62/1979	-5/1983	-19/1983	42/1966	40	0	18
19	34/16	60/1979	-10/1990	-20/1990	42/1966	40	0	19
20	33/15	54/1954	-16/1990	-22/1990	39/1966	41	0	20
21	33/15	57/1994	-16/1990	-26/1990	38/1972	41	0	21
22	33/15	60/1954	-10/1983	-26/1990	43/1955	41	0	22
23	33/15	58/1950	-8/1996	-20/1983	40/1950	41	0	23
24	33/15	55/1994	-19/1983	-32/1983	39/1950	41	0	24
25	32/15	54/1993	-6/1996	-21/1983	35/1963	42	0	25
26	32/14	62/1980	-2/1971	-20/1996	44/1980	42	0	26
27	32/14	68/1980	7/1968	-6/1965	48/1980	42	0	27
28	32/14	59/1956	-4/1992	-22/1990	40/1956	42	0	28
29	32/14	61/1999	-17/1968	-25/1968	36/1956	42	0	29
30	32/14	63/1980	-10/1992	-24/1968	46/1980	42	0	30
31	31/14	53/1980	-3/1992	-23/1978	37/1996	43	0	31

Numbers in bold indicate monthly extremes

January

BIL Daily Normals/Temperature Extremes/Degree Days - All Time						
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low/Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	31/14	60/1998	-25/1942	43	0	1
2	31/13	57/1939	-20/1950	43	0	2
3	31/13	57/1962	-19/1950	43	0	3
4	31/13	54/1935	-19/1973	43	0	4
5	31/13	57/1958	-17/1982	43	0	5
6	31/13	58/1961	-21/1937	43	0	6
7	31/13	60/1954	-30/1937	43	0	7
8	31/13	58/1983	-18/1973	43	0	8
9	31/13	67/1953	-18/1973	43	0	9
10	31/13	59/1941	-22/1949	43	0	10
11	31/13	68/1953	-23/1997	43	0	11
12	31/13	64/1953	-30/1997	43	0	12
13	31/13	61/1996	-22/1997	43	0	13
14	31/13	60/1995	-21/1972	43	0	14
15	31/13	59/1974	-18/1950	43	0	15
16	31/13	59/1974	-18/1954	43	0	16
17	31/13	60/1958	-24/1943	43	0	17
18	31/14	55/1981	-25/1943	43	0	18
19	32/14	65/1986	-26/1963	42	0	19
20	32/14	56/1991	-27/1954	42	0	20
21	32/14	57/1981	-25/1962	42	0	21
22	32/14	64/1981	-22/1943	42	0	22
23	32/14	61/1981	-23/1969	42	0	23
24	33/14	58/1968	-26/1949	42	0	24
25	33/14	59/1992	-28/1957	42	0	25
26	33/15	54/1982	-27/1972	41	0	26
27	33/15	60/1986	-27/1972	41	0	27
28	34/15	63/1967	-22/1951	41	0	28
29	34/15	60/1935	-20/1951	41	0	29
30	34/16	59/1992	-21/1996	40	0	30
31	34/16	67/1992	-17/1969	40	0	31

Numbers in bold indicate monthly extremes

February

BIL Daily Normals/Temperature Extremes/Degree Days - All Time						
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low/Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	35/16	62/1935	-23/1996	40	0	1
2	35/16	61/1962	-28/1996	40	0	2
3	35/17	62/1962	-26/1989	39	0	3
4	36/17	61/1997	-22/1989	39	0	4
5	36/17	65/1963	-19/1989	39	0	5
6	36/18	61/1963	-12/1934	38	0	6
7	37/18	68/1987	-25/1936	38	0	7
8	37/18	68/1954	-33/1936	38	0	8
9	37/18	70/1996	-22/1939	38	0	9
10	38/19	72/1961	-20/1981	37	0	10
11	38/19	68/1961	-15/1936	37	0	11
12	38/19	60/1947	-22/1936	37	0	12
13	38/19	66/1996	-24/1949	37	0	13
14	39/19	59/1982	-28/1936	36	0	14
15	39/20	61/1982	-38/1936	36	0	15
16	39/20	65/1996	-28/1936	36	0	16
17	39/20	63/1948	-35/1936	36	0	17
18	40/20	60/1996	-24/1936	35	0	18
19	40/20	70/1981	-12/1955	35	0	19
20	40/21	69/1995	-11/1949	35	0	20
21	40/21	71/1982	-9/1957	35	0	21
22	41/21	64/1958	-13/1965	34	0	22
23	41/21	61/1981	-20/1965	34	0	23
24	41/21	71/1995	-12/1955	34	0	24
25	41/22	69/1995	-10/1994	34	0	25
26	41/22	67/1950	-14/1962	34	0	26
27	42/22	70/1992	-15/1962	33	0	27
28	42/22	71/1992	-17/1962	33	0	28
29	42/22	69/1992	-11/1996	33	0	29

Numbers in bold indicate monthly extremes

March

BIL Daily Normals/Temperature Extremes/Degree Days - All Time						
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low/Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	42/22	67/1992	-10/1960	33	0	1
2	42/22	67/1992	-17/1960	33	0	2
3	42/22	69/1994	-13/1978	33	0	3
4	42/23	69/1987	-19/1989	33	0	4
5	43/23	71/1987	-16/1951	32	0	5
6	43/23	68/1987	-19/1951	32	0	6
7	43/23	65/1993	-19/1951	32	0	7
8	43/23	64/1990	-16/1951	32	0	8
9	43/24	68/1972	-13/1951	32	0	9
10	44/24	71/1983	-15/1948	31	0	10
11	44/24	72/1983	-11/1956	31	0	11
12	44/24	67/1992	-13/1950	31	0	12
13	45/24	68/1994	-4/1944	31	0	13
14	45/25	71/1935	-8/1997	30	0	14
15	45/25	70/1992	-7/1943	30	0	15
16	45/25	78/1994	-13/1943	30	0	16
17	46/25	67/1974	-9/1943	30	0	17
18	46/25	69/1972	-9/1965	30	0	18
19	46/26	75/1997	3/1965	29	0	19
20	47/26	76/1997	2/1965	29	0	20
21	47/26	73/1960	8/1971	29	0	21
22	47/26	76/1960	1/1965	29	0	22
23	48/27	77/1993	-9/1965	28	0	23
24	48/27	78/1993	-12/1955	28	0	24
25	49/27	74/1999	-12/1955	27	0	25
26	49/28	77/1960	0/1965	27	0	26
27	49/28	74/1946	8/1965	27	0	27
28	50/28	79/1986	1/1965	26	0	28
29	50/28	76/1978	-5/1987	26	0	29
30	51/29	79/1978	-8/1936	25	0	30
31	51/29	73/1964	1/1936	25	0	31

Numbers in bold indicate monthly extremes

April

BIL Daily Normals/Temperature Extremes/Degree Days - All Time						
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low/Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	52/29	72/1991	0/1936	25	0	1
2	52/30	75/1990	-5/1936	24	0	2
3	52/30	80/1992	9/1945	24	0	3
4	53/30	77/2000	15/1936	24	0	4
5	53/31	80/1960	0/1936	23	0	5
6	54/31	79/1969	12/1939	23	0	6
7	54/31	73/1977	16/1997	23	0	7
8	54/32	79/1996	13/1997	22	0	8
9	55/32	82/1996	16/1973	22	0	9
10	55/32	78/1985	11/1940	22	0	10
11	56/33	80/1949	6/1940	21	0	11
12	56/33	80/1976	5/1997	21	0	12
13	56/33	77/1940	15/1986	21	0	13
14	57/34	80/1985	9/1986	20	0	14
15	57/34	85/1962	17/1986	20	0	15
16	57/34	82/1994	20/1970	20	0	16
17	58/34	84/1994	17/1964	19	0	17
18	58/35	83/1936	18/1951	19	0	18
19	59/35	87/1962	11/1951	18	0	19
20	59/35	90/1980	17/1966	18	0	20
21	59/36	89/1980	19/1967	18	0	21
22	60/36	80/1987	17/1967	17	0	22
23	60/36	82/1943	20/1967	17	0	23
24	60/37	85/1962	22/1967	17	0	24
25	60/37	84/1974	23/1960	17	0	25
26	61/37	85/1946	23/1994	16	0	26
27	61/38	84/1987	20/1994	16	0	27
28	61/38	88/1987	18/1954	16	0	28
29	62/38	92/1939	19/1966	15	0	29
30	62/39	85/1987	17/1950	15	0	30

Numbers in bold indicate monthly extremes

May

BIL Daily Normals/Temperature Extremes/Degree Days - All Time						
Date	Normal Hi/Lo (deg. F)	High/Year (deg. F)	Low/Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	62/39	88/1981	17/1954	15	0	1
2	62/39	90/1985	14/1954	15	0	2
3	63/39	84/1986	16/1954	14	0	3
4	63/40	87/1936	21/1967	14	0	4
5	63/40	84/1936	26/1967	14	0	5
6	63/40	89/1992	31/1938	14	0	6
7	64/41	88/1992	30/1950	13	0	7
8	64/41	90/1987	29/1979	13	0	8
9	64/41	86/1987	27/1996	13	0	9
10	65/42	85/1940	25/1967	12	0	10
11	65/42	89/1960	20/1953	12	0	11
12	65/42	94/1960	21/1953	12	0	12
13	66/42	90/1993	28/1953	11	0	13
14	66/43	96/1936	28/1953	11	0	14
15	66/43	91/1987	32/1945	11	0	15
16	67/43	91/1988	30/1974	10	0	16
17	67/44	93/1948	32/1942	10	0	17
18	67/44	94/1948	32/1942	10	0	18
19	68/44	92/1992	29/1997	9	0	19
20	68/44	91/1964	33/1987	9	0	20
21	68/45	91/1980	31/1963	9	0	21
22	69/45	94/1980	32/1963	8	0	22
23	69/45	88/1985	31/1949	8	0	23
24	69/46	90/1941	34/1975	8	0	24
25	69/46	88/1983	33/1992	8	0	25
26	70/46	95/1936	33/1975	7	0	26
27	70/47	91/1969	35/1954	7	0	27
28	71/47	91/1958	27/1947	6	0	28
29	71/47	93/1936	35/1959	6	0	29
30	71/47	95/1984	36/1982	6	0	30
31	72/48	92/1940	32/1982	5	0	31

Numbers in bold indicate monthly extremes

June

BIL Daily Normals/Temperature Extremes/Degree Days - All Time						
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low/Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	73/48	92/1977	32/1951	5	0	1
2	73/48	93/1986	32/1951	5	0	2
3	73/49	92/1988	32/1951	4	0	3
4	73/49	101/1988	33/1937	4	0	4
5	74/49	102/1988	38/1944	4	0	5
6	74/49	96/1988	37/1943	4	0	6
7	74/50	98/1988	32/1950	3	0	7
8	75/50	95/1988	32/1950	3	0	8
9	75/50	95/1956	38/1995	3	0	9
10	76/51	96/1988	38/1995	2	0	10
11	76/51	93/1992	39/1969	2	0	11
12	76/51	96/1936	32/1969	2	0	12
13	77/51	98/1959	32/1969	1	0	13
14	77/52	98/1959	38/1969	1	0	14
15	77/52	98/1987	40/1991	1	0	15
16	78/52	95/1988	40/1945	0	0	16
17	78/52	98/1988	40/1994	0	0	17
18	78/52	96/1986	39/1939	0	0	18
19	79/53	100/1989	42/1946	0	1	19
20	79/53	103/1988	42/1978	0	1	20
21	80/53	97/1988	41/1958	0	2	21
22	80/54	99/1988	43/1967	0	2	22
23	80/54	104/1988	43/1960	0	2	23
24	81/54	101/1936	41/1953	0	3	24
25	81/55	101/1988	42/1958	0	3	25
26	81/55	102/1988	41/1989	0	3	26
27	82/55	102/1936	38/1951	0	4	27
28	82/55	102/1966	41/1951	0	4	28
29	83/56	105/1984	42/1947	0	5	29
30	83/56	102/1990	43/1995	0	5	30

Numbers in bold indicate monthly extremes

July

BIL Daily Normals/Temperature Extremes/Degree Days - All Time						
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low/Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	83/56	100/1990	46/1972	0	5	1
2	84/56	100/1936	42/1955	0	5	2
3	84/57	101/1961	47/1972	0	6	3
4	84/57	106/1937	41/1972	0	6	4
5	85/57	104/1981	46/1959	0	6	5
6	85/57	100/1985	47/1958	0	6	6
7	85/57	101/1989	42/1952	0	6	7
8	85/58	100/1989	46/1959	0	7	8
9	86/58	98/1985	47/1959	0	7	9
10	86/58	106/1939	45/1951	0	7	10
11	86/58	104/1939	42/1951	0	7	11
12	87/58	101/1954	43/1951	0	8	12
13	87/58	102/2000	48/1950	0	8	13
14	87/59	103/1953	49/1993	0	8	14
15	87/59	101/1935	46/1983	0	8	15
16	87/59	103/1966	42/1999	0	8	16
17	87/59	101/1977	45/1982	0	8	17
18	88/59	104/1955	43/1972	0	9	18
19	88/59	105/1960	41/1972	0	9	19
20	88/59	103/1960	46/1972	0	9	20
21	88/59	103/1936	46/1972	0	9	21
22	88/59	103/1936	49/1972	0	9	22
23	88/59	102/1940	50/1972	0	9	23
24	88/59	105/1999	51/1950	0	9	24
25	88/59	98/1945	51/1948	0	9	25
26	88/59	100/1959	48/1971	0	9	26
27	88/59	103/1947	51/1981	0	9	27
28	88/59	103/1947	48/1971	0	9	28
29	88/59	100/2000	43/1971	0	9	29
30	88/59	102/2000	46/1971	0	9	30
31	88/59	104/1989	47/1995	0	9	31

Numbers in bold indicate monthly extremes

August

BIL Daily Normals/Temperature Extremes/Degree Days - All Time						
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low/Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	88/59	98/1982	49/1950	0	9	1
2	88/59	99/1966	46/1978	0	9	2
3	88/59	104/1961	44/1978	0	9	3
4	88/59	103/1964	46/1978	0	9	4
5	88/59	105/1961	48/1940	0	9	5
6	88/59	103/1949	47/1939	0	9	6
7	88/59	103/1990	47/1939	0	9	7
8	87/59	100/1970	41/1939	0	8	8
9	87/59	101/1940	45/1946	0	8	9
10	87/58	102/1935	40/1939	0	8	10
11	87/58	100/1996	47/1947	0	8	11
12	87/58	104/1940	45/1987	0	8	12
13	86/58	101/1935	48/1947	0	7	13
14	86/58	102/1971	45/1985	0	7	14
15	86/57	99/1961	43/1944	0	7	15
16	85/57	98/1973	48/1978	0	6	16
17	85/57	99/1970	44/1985	0	6	17
18	85/57	101/1964	46/1985	0	6	18
19	84/57	98/1992	45/1995	0	6	19
20	84/56	98/1971	44/1956	0	5	20
21	84/56	97/1969	42/1945	0	5	21
22	84/56	100/1971	40/1992	0	5	22
23	83/55	99/1969	39/1992	0	4	23
24	83/55	100/1969	36/1992	0	4	24
25	82/55	98/1985	35/1992	0	4	25
26	81/54	98/1994	40/1992	0	3	26
27	81/54	96/1984	42/1993	0	3	27
28	80/53	99/1983	42/1960	0	2	28
29	80/53	96/1995	44/1992	0	2	29
30	79/53	100/1954	41/1993	0	1	30
31	79/52	101/1955	40/1993	0	1	31

Numbers in bold indicate monthly extremes

September

BIL Daily Normals/Temperature Extremes/Degree Days - All Time						
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low/Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	78/52	103/1983	41/1942	0	0	1
2	78/51	99/1998	35/1974	1	0	2
3	77/51	97/1978	39/1956	1	0	3
4	77/51	100/1950	31/1962	1	0	4
5	76/50	95/1945	37/1956	2	0	5
6	76/50	97/1980	36/1956	2	0	6
7	75/49	97/1998	34/1962	3	0	7
8	74/49	99/1979	32/1962	4	0	8
9	74/49	95/1998	31/1962	4	0	9
10	74/48	92/1966	33/1989	4	0	10
11	73/48	96/1959	28/1949	5	0	11
12	73/47	93/1990	30/1970	5	0	12
13	72/47	92/1959	29/1970	6	0	13
14	72/47	97/1948	31/1982	6	0	14
15	71/46	93/1948	31/1973	7	0	15
16	71/46	94/1979	29/1965	7	0	16
17	71/46	90/1984	26/1965	7	0	17
18	70/45	92/1984	28/1983	8	0	18
19	70/45	93/1981	26/1983	8	0	19
20	69/45	91/1938	26/1995	8	0	20
21	69/45	91/1938	28/1961	8	0	21
22	69/44	91/1938	30/1965	9	0	22
23	68/44	91/1992	23/1984	9	0	23
24	68/44	90/1938	22/1984	9	0	24
25	68/43	90/1990	26/1972	10	0	25
26	68/43	88/1963	24/1934	10	0	26
27	67/43	91/1963	27/1984	10	0	27
28	67/43	90/1967	26/1985	10	0	28
29	67/42	89/1989	26/1985	11	0	29
30	66/42	90/1963	23/1950	11	0	30

Numbers in bold indicate monthly extremes

October

BIL Daily Normals/Temperature Extremes/Degree Days - All Time						
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low/Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	66/42	90/1992	23/1950	11	0	1
2	66/42	86/1943	25/1950	11	0	2
3	66/42	88/1992	25/1999	11	0	3
4	66/41	90/1963	30/1964	12	0	4
5	66/41	85/1993	26/1954	12	0	5
6	65/41	86/1980	22/1952	12	0	6
7	65/41	89/1980	18/1985	12	0	7
8	64/40	87/1980	17/1985	13	0	8
9	64/40	85/1965	18/1993	13	0	9
10	64/40	85/1953	21/1987	13	0	10
11	63/39	82/1995	22/1959	14	0	11
12	63/39	82/1991	22/1969	14	0	12
13	62/39	81/1964	20/1969	15	0	13
14	62/38	86/1958	18/1969	15	0	14
15	62/38	84/1958	24/1992	15	0	15
16	61/38	86/1991	19/1992	16	0	16
17	61/37	79/1954	20/1948	16	0	17
18	60/37	83/1955	24/1984	17	0	18
19	59/37	82/1947	20/1949	17	0	19
20	59/36	82/1947	20/1949	18	0	20
21	59/36	82/1992	19/1984	18	0	21
22	58/36	78/1939	22/1981	18	0	22
23	58/35	79/1948	20/1981	19	0	23
24	57/35	79/1999	19/1976	19	0	24
25	57/34	78/1977	18/1997	20	0	25
26	56/34	81/1983	22/1970	20	0	26
27	55/34	82/1983	16/1991	21	0	27
28	55/33	79/1985	3/1971	21	0	28
29	54/33	80/1968	1/1991	22	0	29
30	54/32	77/1950	-7/1991	22	0	30
31	53/32	76/1999	2/1984	23	0	31

Numbers in bold indicate monthly extremes

November

BIL Daily Normals/Temperature Extremes/Degree Days - All Time						
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low/Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	52/31	72/1988	1/1984	24	0	1
2	52/31	69/1981	-2/1991	24	0	2
3	51/31	76/1983	-5/1935	24	0	3
4	50/30	77/1983	4/1959	25	0	4
5	50/30	74/1980	2/1973	25	0	5
6	49/29	74/1934	4/1936	26	0	6
7	49/29	77/1999	0/1936	26	0	7
8	48/28	73/1999	2/1966	27	0	8
9	47/28	65/1989	-6/1986	28	0	9
10	47/28	67/1990	-12/1986	28	0	10
11	46/27	71/1990	-5/1940	29	0	11
12	46/27	77/1999	-11/1986	29	0	12
13	45/26	69/1934	-20/1959	30	0	13
14	45/26	70/1999	-10/1955	30	0	14
15	44/26	70/1934	-14/1959	30	0	15
16	44/25	66/1953	-22/1959	31	0	16
17	43/25	65/1995	-6/1955	31	0	17
18	43/25	71/1995	-5/1978	31	0	18
19	43/24	63/1954	-8/1985	32	0	19
20	42/24	64/1962	-13/1977	32	0	20
21	42/23	65/1954	-18/1977	33	0	21
22	41/23	64/1939	-17/1985	33	0	22
23	41/23	65/1942	-18/1985	33	0	23
24	40/22	66/1990	-11/1993	34	0	24
25	40/22	68/1949	-11/1985	34	0	25
26	40/22	66/1998	-19/1985	34	0	26
27	39/21	66/1949	-17/1985	35	0	27
28	39/21	57/1951	-16/1985	35	0	28
29	39/21	63/1980	-8/1975	35	0	29
30	38/21	65/1999	-14/1985	36	0	30

Numbers in bold indicate monthly extremes

December

BIL Daily Normals/Temperature Extremes/Degree Days - All Time						
Date	Normal Hi/Lo (Deg. F)	High/Year (deg. F)	Low/Year (deg. F)	Heating Deg. Day	Cooling Deg. Day	Date
1	38/20	65/1995	-21/1985	36	0	1
2	38/20	63/1956	-23/1985	36	0	2
3	37/20	63/1941	-7/1972	37	0	3
4	37/19	65/1979	-11/1972	37	0	4
5	37/19	69/1939	-16/1972	37	0	5
6	37/19	67/1939	-20/1972	37	0	6
7	36/18	60/1939	-20/1972	38	0	7
8	36/18	63/1939	-25/1972	38	0	8
9	36/18	69/1957	-21/1977	38	0	9
10	36/18	65/1990	-14/1961	38	0	10
11	35/17	62/1980	-17/1961	39	0	11
12	35/17	57/1988	-8/1961	39	0	12
13	35/17	59/1988	-16/1963	39	0	13
14	35/17	57/1939	-13/1945	39	0	14
15	34/16	69/1980	-20/1964	40	0	15
16	34/16	67/1980	-26/1964	40	0	16
17	34/16	60/1998	-24/1964	40	0	17
18	34/16	62/1979	-19/1983	40	0	18
19	34/16	60/1979	-20/1990	40	0	19
20	33/15	58/1941	-22/1990	41	0	20
21	33/15	57/1994	-26/1990	41	0	21
22	33/15	60/1954	-26/1990	41	0	22
23	33/15	58/1950	-20/1983	41	0	23
24	33/15	56/1936	-32/1983	41	0	24
25	32/15	54/1993	-21/1983	42	0	25
26	32/14	62/1980	-20/1996	42	0	26
27	32/14	68/1980	-11/1941	42	0	27
28	32/14	59/1956	-22/1990	42	0	28
29	32/14	61/1999	-25/1968	42	0	29
30	32/14	63/1980	-24/1968	42	0	30
31	31/14	53/1980	-23/1978	43	0	31

Numbers in bold indicate monthly extremes

The 20 Highest Daily Maximum Temperatures in Billings, MT (1948-2000)

1. 105°F Jul. 24, 1999
2. 105°F Jun. 29, 1984
3. 105°F Aug. 5, 1961
4. 105°F Jul. 19, 1960
5. 104°F Jul. 31, 1989
6. 104°F Jun. 23, 1988
7. 104°F Jul. 5, 1981
8. 104°F Jul. 24, 1976
9. 104°F Aug. 3, 1961
10. 104°F Jul. 18, 1955
11. 103°F Aug. 7, 1990
12. 103°F Jun. 20, 1988
13. 103°F Sep. 1, 1983
14. 103°F Jul. 16, 1966
15. 103°F Aug. 4, 1964
16. 103°F Jul. 20, 1960
17. 103°F Jul. 14, 1953
18. 103°F Aug. 6, 1949
19. 102°F Jul. 30, 2000
20. 102°F Jul. 14, 2000

The 20 Lowest Daily Maximum Temperatures in Billings, MT (1948-2000)

1. -21°F Jan. 26, 1962
2. -20°F Feb. 2, 1989
3. -20°F Dec. 16, 1964
4. -19°F Dec. 24, 1983
5. -17°F Dec. 29, 1968
6. -16°F Dec. 21, 1990
7. -16°F Dec. 20, 1990
8. -16°F Feb. 3, 1989
9. -15°F Jan. 12, 1997
10. -15°F Jan. 28, 1969
11. -14°F Dec. 8, 1972
12. -13°F Jan. 29, 1996
13. -13°F Jan. 25, 1972
14. -13°F Jan. 14, 1950
15. -13°F Dec. 29, 1990
16. -12°F Feb. 1, 1989
17. -12°F Dec. 8, 1977
18. -12°F Jan. 27, 1951
19. -11°F Jan. 11, 1997
20. -11°F Dec. 21, 1983

The 20 Lowest Daily Minimum Temperatures in Billings, MT (1948-2000)

1. -32°F Dec. 24, 1983
2. -30°F Jan. 12, 1997
3. -28°F Feb. 2, 1996
4. -28°F Feb. 2, 1989
5. -28°F Jan. 25, 1957
6. -27°F Jan. 27, 1972
7. -27°F Jan. 26, 1972
8. -27°F Jan. 20, 1954
9. -27°F Jan. 25, 1949
10. -26°F Dec. 22, 1990
11. -26°F Dec. 21, 1990
12. -26°F Dec. 22, 1989
13. -26°F Dec. 21, 1989
14. -26°F Feb. 3, 1989
15. -26°F Dec. 16, 1964
16. -26°F Jan. 19, 1963
17. -26°F Jan. 24, 1949
18. -25°F Dec. 21, 1983
19. -25°F Dec. 8, 1972
20. -25°F Dec. 29, 1968

The 20 Highest Daily Minimum Temperatures in Billings, MT (1948-2000)

1. 73°F Jul. 31, 2000
2. 73°F Jul. 4, 1961
3. 72°F Jun. 24, 1988
4. 72°F Aug. 8, 1983
5. 72°F Jul. 16, 1974
6. 72°F Jul. 22, 1963
7. 72°F Jul. 31, 1960
8. 71°F Jul. 29, 1999
9. 71°F Jul. 21, 1989
10. 71°F Jul. 11, 1985
11. 71°F Aug. 11, 1983
12. 71°F Jul. 6, 1981
13. 71°F Jul. 23, 1960
14. 71°F Jul. 19, 1960
15. 70°F Sep. 1, 1991
16. 70°F Aug. 27, 1984
17. 70°F Jul. 29, 1984
18. 70°F Aug. 1, 1983
19. 70°F Aug. 2, 1982
20. 70°F Jul. 29, 1980

The 20 Highest Annual Mean Temperatures in Billings, MT (1948-1999)

1. 50.6°F 1981
2. 50.3°F 1987
3. 50.2°F 1988
4. 50.2°F 1953
5. 49.9°F 1999
6. 49.3°F 1994
7. 49.3°F 1992
8. 49.3°F 1961
9. 49.1°F 1980
10. 48.8°F 1986
11. 48.7°F 1998
12. 48.7°F 1991
13. 48.7°F 1958
14. 48.6°F 1990
15. 48.4°F 1983
16. 48.3°F 1960
17. 48.0°F 1952
18. 47.9°F 1976
19. 47.9°F 1968
20. 47.9°F 1963

The 20 Lowest Annual Mean Temperatures in Billings, MT (1948-1999)

1. 42.8°F 1978
2. 43.3°F 1951
3. 44.2°F 1950
4. 44.3°F 1972
5. 44.4°F 1996
6. 44.5°F 1975
7. 44.9°F 1985
8. 45.2°F 1955
9. 45.2°F 1969
10. 45.3°F 1971
11. 45.4°F 1965
12. 45.7°F 1993
13. 45.8°F 1970
14. 46.1°F 1989
15. 46.3°F 1957
16. 46.5°F 1964
17. 46.7°F 1966
18. 46.8°F 1979
19. 47.0°F 1959
20. 47.0°F 1967

Billings, MT Monthly Precipitation

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
1948	M	M	M	M	M	M	0.95	0.48	0.40	0.02	0.09	0.71	2.65
1949	1.55	0.62	0.92	0.74	1.53	2.12	1.72	0.22	0.26	2.72	0.03	0.83	15.26
1950	0.65	0.41	1.26	1.17	2.07	1.98	1.85	0.68	1.46	0.83	0.71	0.69	13.76
1951	0.64	0.64	1.01	0.88	1.46	1.70	0.64	1.95	1.01	0.86	0.16	1.04	11.99
1952	0.36	0.93	0.41	0.87	3.40	1.11	0.80	0.83	1.07	0.47	0.39	0.15	10.79
1953	0.62	0.81	0.96	1.32	2.28	1.77	0.40	1.02	0.88	1.15	0.28	0.21	11.70
1954	1.24	0.13	2.50	1.19	1.90	1.25	0.23	0.76	1.06	1.15	0.00	0.14	11.75
1955	0.07	1.57	1.60	3.42	4.27	1.72	1.41	0.05	0.82	1.26	0.81	1.89	19.89
1956	0.56	0.43	0.30	1.59	2.47	0.66	1.07	0.87	0.55	0.60	0.97	0.51	10.58
1957	0.82	0.55	1.52	3.55	3.39	4.49	0.25	1.47	1.24	2.58	1.31	0.05	21.22
1958	0.48	1.66	1.35	2.07	0.65	3.28	3.12	0.42	0.50	0.55	1.16	1.50	16.74
1959	1.02	1.13	0.23	2.36	1.07	0.97	0.31	0.19	1.38	0.69	1.92	0.33	11.60
1960	0.66	0.53	0.53	1.00	1.31	1.11	0.17	1.95	0.16	0.81	0.55	0.61	9.39
1961	0.15	0.20	0.72	2.33	1.57	0.24	0.85	0.23	3.99	1.47	1.55	0.22	13.52
1962	1.90	1.26	1.23	0.06	3.67	1.72	0.86	1.19	0.95	0.29	0.86	0.23	14.22
1963	2.23	0.31	0.39	2.38	2.49	3.16	0.49	0.39	1.29	0.31	0.05	1.43	14.92
1964	0.11	0.35	1.38	4.11	3.91	5.13	0.10	2.08	0.06	0.22	0.72	0.59	18.76
1965	0.66	1.18	0.90	1.18	1.89	2.30	1.28	3.56	2.17	0.09	0.66	0.74	16.55
1966	0.43	0.32	1.58	1.10	0.84	1.56	1.45	1.09	2.46	0.50	1.07	0.95	13.35
1967	0.36	0.39	1.55	1.63	1.84	5.18	0.37	0.54	0.66	1.04	0.50	0.79	14.85
1968	1.22	0.58	0.66	1.50	1.79	3.86	0.25	2.35	1.38	0.51	1.71	0.81	16.62
1969	0.99	0.17	0.57	1.48	0.78	5.74	1.69	0.42	0.36	1.56	0.66	0.31	14.73
1970	0.87	1.10	0.95	3.04	3.48	1.61	0.37	0.21	1.92	0.93	0.82	0.79	16.09
1971	1.30	0.56	0.83	1.60	2.07	0.70	0.40	0.43	1.80	5.80	0.17	1.13	14.79
1972	2.35	0.81	0.80	1.63	2.51	0.91	1.91	1.61	1.31	2.24	1.01	1.08	18.17
1973	1.30	0.43	1.59	3.00	0.73	0.81	0.29	1.23	2.21	1.36	1.21	2.00	16.16
1974	0.78	0.22	1.20	1.65	2.80	1.94	0.91	2.18	1.80	2.24	0.28	0.30	16.30
1975	2.05	0.75	1.30	1.91	3.62	1.62	2.64	0.37	0.24	2.66	1.39	1.96	20.51
1976	0.58	1.12	0.95	3.53	1.85	2.70	0.07	0.60	1.21	0.91	0.68	0.31	14.51

1977	1.44	0.05	1.37	0.64	1.35	0.63	0.80	1.05	0.65	1.20	1.42	1.65	12.25
1978	2.03	0.52	0.18	4.12	6.97	1.55	1.54	0.52	3.78	0.27	0.53	1.74	26.81
1979	0.72	0.56	1.11	1.20	0.92	1.06	0.46	0.87	0.16	0.73	0.53	0.09	8.41
1980	1.11	0.78	1.53	0.46	4.47	1.64	0.39	1.17	0.77	2.45	0.42	0.33	15.52
1981	0.21	0.24	1.75	0.35	7.91	1.58	1.65	0.55	0.14	1.33	0.41	0.53	16.45
1982	0.71	0.34	1.81	1.53	2.63	5.03	1.91	0.45	1.22	1.15	0.42	1.07	18.27
1983	0.11	0.31	0.73	0.56	2.23	0.88	1.52	1.12	2.26	1.32	0.90	0.92	12.86
1984	0.65	0.93	0.84	1.38	1.12	1.65	0.29	0.58	1.32	0.37	0.95	0.84	10.92
1985	0.31	0.39	2.05	0.31	1.27	1.07	1.40	1.66	1.89	0.69	1.43	0.20	12.67
1986	0.37	1.72	1.04	2.72	1.92	2.15	1.01	0.43	1.24	0.33	1.21	0.12	14.26
1987	0.07	0.49	1.36	0.42	3.84	1.03	2.23	1.73	0.68	0.01	0.29	0.31	12.46
1988	0.45	0.71	0.66	1.82	1.84	0.43	0.04	0.12	2.12	1.01	0.60	0.56	10.36
1989	1.27	0.56	2.04	2.36	2.08	1.18	0.55	0.76	0.70	2.05	0.52	1.36	15.41
1990	0.29	0.50	1.70	2.06	2.81	0.66	0.37	0.93	0.08	1.05	0.33	0.49	11.27
1991	0.82	0.49	0.62	3.87	2.25	5.62	1.04	0.35	3.11	1.29	0.96	0.31	20.73
1992	0.09	0.12	0.65	2.35	1.70	2.69	1.67	0.34	0.62	0.42	0.30	0.51	11.46
1993	0.47	0.32	0.50	1.86	0.40	2.05	5.08	0.69	1.76	2.11	0.26	0.20	15.70
1994	0.34	0.36	0.62	1.89	1.53	1.97	2.02	0.11	1.33	2.06	1.17	0.25	13.65
1995	0.53	0.28	1.87	1.84	3.69	3.10	1.62	1.00	1.01	0.94	0.51	0.34	16.73
1996	0.82	0.62	1.02	1.06	3.85	0.85	0.57	0.07	1.80	0.58	0.86	0.23	12.33
1997	0.95	0.02	0.80	1.13	1.49	4.14	2.76	0.94	0.28	1.16	0.49	0.41	14.57
1998	1.03	0.23	1.32	1.29	1.26	3.63	2.29	1.94	1.50	1.36	0.76	0.41	17.02
1999	0.48	0.26	0.54	2.41	1.76	2.17	0.36	1.61	1.49	0.12	0.25	0.20	11.65
Mean	0.80	0.63	1.09	1.78	2.37	2.12	1.12	0.93	1.28	1.11	0.75	0.68	14.72
Normal	0.90	0.64	1.16	1.74	2.57	1.99	0.94	1.01	1.36	1.14	0.84	0.79	15.08

Billings, MT Monthly Precipitation Extremes								
	Mean	High	Low	1 Day Max	Number of Days			
					>=0.01"	>=0.10"	>=0.50"	>=1.00"
January	0.80"	2.35" 1972	0.07" 1987	1.22" 2 nd - 1972	9	3	0	0
February	0.63"	1.77" 1978	0.02" 1997	0.59" 13 th - 1952	8	2	0	0
March	1.09"	2.70" 1954	0.18" 1978	0.95" 22 nd - 1973	10	4	0	0
April	1.78"	4.22" 1955	0.06" 1962	2.53" 28 th - 1978	11	5	1	0
May	2.37"	7.71" 1981	0.40" 1993	2.83" 21 st - 1952	12	6	1	0
June	2.12"	5.74" 1969	0.24" 1961	2.91" 8 th - 1997	11	5	1	0
July	1.12"	5.08" 1993	0.04" 1988	2.06" 3 rd - 1993	8	3	1	0
August	0.93"	3.50" 1965	0.05" 1955	1.90" 20 th - 1965	6	2	0	0
September	1.28"	3.99" 1961	0.06" 1964	2.19" 13 th - 1966	7	3	1	0
October	1.11"	3.80" 1971	0.01" 1987	1.67" 1 st - 1971	7	3	1	0
November	0.75"	2.34" 1978	0.00" 1954	1.11" 4 th - 1968	8	3	0	0
December	0.68"	2.00" 1973	0.05" 1957	0.97" 4 th - 1978	9	2	0	0
Annual	14.65"	26.81" 1978	8.41" 1979	2.91" 06/08/97	106	41	6	1
Winter	2.10"	5.45" 1978	0.52" 1992	1.22" 01/02/72	26	7	0	0
Spring	5.24"	11.27 1978	2.76" 1993	2.83" 5/21/52	33	15	2	0
Summer	4.17"	7.86 " 1998	0.59" 1988	2.91" 06/08/97	25	10	2	0
Fall	3.14"	7.01" 1961	0.51" 1948	2.19" 09/13/66	22	10	1	0

Seasons are climatological not calendar seasons

Winter = Dec., Jan., and Feb. Spring = Mar., Apr., and May

Summer = Jun., Jul., and Aug. Fall = Sep., Oct., and Nov.

Billings, MT Highest Monthly and Annual Precipitation

Rank	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
1	2.35" 1972	1.77" 1978	2.70" 1954	4.42" 1955	7.71" 1981	5.74" 1969	5.08" 1993	3.50" 1965	3.99" 1961	3.80" 1971	2.34" 1978	2.00" 1973	26.81" 1978
2	2.23" 1963	1.72" 1986	2.05" 1985	4.12" 1978	6.97" 1978	5.62" 1991	3.12" 1958	2.35" 1968	3.78" 1978	2.72" 1949	1.92" 1959	1.96" 1975	21.22" 1957
3	2.05" 1975	1.66" 1958	2.04" 1989	4.11" 1964	4.47" 1980	5.18" 1967	2.76" 1997	2.18" 1974	3.11" 1991	2.66" 1975	1.71" 1968	1.89" 1955	20.73" 1991
4	2.03" 1978	1.57" 1955	1.87" 1995	3.87" 1991	4.27" 1955	5.13" 1964	2.64" 1975	2.08" 1964	2.46" 1966	2.58" 1957	1.55" 1961	1.74" 1978	20.51" 1975
5	1.90" 1962	1.26" 1962	1.81" 1982	3.55" 1957	3.91" 1964	5.03" 1982	2.29" 1998	1.95" 1960	2.26" 1983	2.45" 1980	1.43" 1985	1.65" 1977	19.89" 1955
6	1.55" 1949	1.18" 1965	1.75" 1981	3.53" 1976	3.85" 1996	4.49" 1957	2.23" 1987	1.95" 1951	2.26" 1949	2.24" 1974	1.42" 1977	1.50" 1958	18.76" 1964
7	1.44" 1977	1.13" 1959	1.70" 1990	3.04" 1970	3.84" 1987	4.14" 1997	2.02" 1994	1.94" 1998	2.21" 1973	2.24" 1972	1.39" 1975	1.43" 1963	18.27" 1982
8	1.30" 1973	1.12" 1976	1.60" 1955	3.00" 1973	3.69" 1995	3.86" 1968	1.91" 1982	1.73" 1987	2.17" 1965	2.11" 1993	1.31" 1957	1.36" 1989	18.17" 1972
9	1.30" 1971	1.10" 1970	1.59" 1973	2.72" 1986	3.67" 1962	3.63" 1998	1.91" 1972	1.66" 1985	2.12" 1988	2.06" 1994	1.21" 1986	1.13" 1971	16.74" 1958
10	1.27" 1989	0.93" 1984	1.58" 1966	2.41" 1999	3.62" 1975	3.28" 1958	1.85" 1950	1.61" 1999	1.92" 1970	2.05" 1989	1.21" 1973	1.08" 1972	16.73" 1995

The 20 Wettest Years in Billings, MT

1. 26.81" 1978
2. 21.22" 1957
3. 20.73" 1991
4. 20.51" 1975
5. 19.89" 1955
6. 18.76" 1964
7. 18.27" 1982
8. 18.17" 1972
9. 16.74" 1958
10. 16.73" 1995
11. 16.62" 1968
12. 16.55" 1965
13. 16.45" 1981
14. 16.30" 1974
15. 16.16" 1973
16. 16.09" 1970
17. 15.70" 1993
18. 15.52" 1980
19. 15.41" 1989
20. 14.92" 1963

The 20 Wettest Months in Billings, MT

1. 7.71" May 1981
2. 6.97" May 1978
3. 5.74" Jun. 1969
4. 5.62" Jun. 1991
5. 5.18" Jun. 1967
6. 5.13" Jun. 1964
7. 5.08" Jul. 1993
8. 5.03" Jun. 1982
9. 4.49" Jun. 1957
10. 4.47" May 1980
11. 4.42" Apr. 1955
12. 4.27" May 1955
13. 4.14" Jun. 1997
14. 4.12" Apr. 1978
15. 4.11" Apr. 1964
16. 3.99" Sep. 1961
17. 3.91" May. 1964
18. 3.87" Apr. 1991
19. 3.86" Jun. 1968
20. 3.85" Jun. 1996

The 20 Greatest Precipitation Events in Billings, MT

1. 2.91" Jun. 8, 1997
2. 2.83" May 21, 1952
3. 2.53" Apr. 7, 1978
4. 2.44" Apr. 4, 1955
5. 2.34" May 18, 1978
6. 2.19" Sep. 13, 1966
7. 2.11" May 11, 1981
8. 2.06" Jul. 3, 1993
9. 1.97" Sep. 18, 1978
10. 1.90" Jun. 25, 1969
11. 1.90" Aug. 20, 1965
12. 1.88" Jun. 8, 1964
13. 1.86" Jul. 2, 1958
14. 1.78" May 12, 1995
15. 1.67" Oct. 1, 1971
16. 1.61" Jul. 20, 1997
17. 1.61" Jul. 4, 1975
18. 1.59" Apr. 23, 1957
19. 1.58" Apr. 3, 1955
20. 1.50" May 27, 1987

The 20 Driest Years in Billings, MT

1. 8.41" 1979
2. 9.39" 1960
3. 10.36" 1988
4. 10.58" 1956
5. 10.79" 1952
6. 10.92" 1984
7. 11.46" 1992
8. 11.60" 1959
9. 11.70" 1953
10. 11.72" 1990
11. 11.75" 1954
12. 11.99" 1951
13. 12.25" 1977
14. 12.33" 1996
15. 12.46" 1987
16. 12.67" 1985
17. 12.86" 1983
18. 13.35" 1966
19. 13.52" 1961
20. 13.65" 1994

Billings, MT Monthly Snowfall In Inches													
Years	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Ann
1948-49	0.0	0.0	0.0	0.0	0.5	14.0	23.1	10.1	7.6	0.0	0.0	0.0	55.3
1949-50	0.0	0.0	0.0	23.9	0.0	11.1	8.1	5.0	15.4	10.2	5.4	2.0	80.3
1950-51	0.0	0.0	4.4	1.9	8.9	11.3	9.6	13.1	14.5	6.1	5.4	0.0	75.2
1951-52	0.0	0.0	0.0	8.7	2.8	15.8	6.5	9.9	3.9	4.0	0.0	0.0	51.6
1952-53	0.0	0.0	0.0	1.0	2.6	2.1	3.5	9.2	8.1	5.6	3.7	0.0	35.8
1953-54	0.0	0.0	0.0	0.0	0.0	2.9	20.2	.6	27.1	10.9	3.4	0.0	65.1
1954-55	0.0	0.0	0.0	8.6	0.0	1.0	1.1	22.3	18.5	12.5	0.0	0.0	93.8
1955-56	1.0	0.0	0.0	5.0	8.9	23.7	8.2	7.4	4.9	12.8	6.7	0.0	78.6
1956-57	0.0	0.0	0.0	3.6	8.7	5.8	9.0	6.8	16.7	6.5	0.0	0.0	57.1
1957-58	0.0	0.0	5.6	9.2	8.2	.3	4.4	19.2	8.3	13.1	0.0	0.0	68.3
1958-59	0.0	0.0	0.0	0.0	8.2	14.5	10.1	13.2	3.1	11.3	0.0	0.0	60.4
1959-60	0.0	0.0	0.0	1.8	21.9	3.9	10.1	7.8	5.1	4.8	0.0	0.0	55.4
1960-61	0.0	0.0	0.0	0.0	3.6	7.5	1.7	2.1	2.4	14.0	0.0	0.0	31.3
1961-62	0.0	0.0	2.3	11.3	15.3	2.7	23.2	11.7	11.5	0.0	0.0	0.0	78.0
1962-63	0.0	0.0	6.3	0.0	8.2	1.3	27.2	2.3	2.7	15.4	0.0	0.0	63.9
1963-64	0.0	0.0	0.0	1.0	0.0	21.6	1.8	5.1	15.9	16.3	2.2	0.0	63.9
1964-65	0.0	0.0	0.0	0.0	7.2	7.8	8.0	13.9	11.4	3.4	3.5	0.0	55.2
1965-66	0.0	0.0	5.6	0.0	6.3	10.0	6.3	3.6	17.3	2.5	0.0	0.0	51.6
1966-67	0.0	0.0	0.0	0.0	12.0	10.3	6.1	3.7	16.2	11.4	7.7	0.0	67.4
1967-68	0.0	0.0	0.0	0.0	5.1	9.0	13.2	1.6	6.8	12.3	0.0	0.0	48.0
1968-69	0.0	0.0	0.0	0.0	4.6	8.6	12.2	2.0	5.5	3.0	0.0	0.0	35.9
1969-70	0.0	0.0	0.0	10.2	5.0	2.3	9.8	11.3	7.2	22.3	0.0	0.0	68.1
1970-71	0.0	0.0	4.9	0.0	4.9	8.4	11.5	5.7	8.0	2.5	0.0	0.0	45.9
1971-72	0.0	0.0	0.0	13.0	1.1	12.2	27.6	7.6	8.2	7.3	0.0	0.0	77.0
1972-73	0.0	0.0	4.7	3.2	0.0	12.9	13.3	5.4	7.4	14.3	1.8	0.0	63.0
1973-74	0.0	0.0	0.0	8.5	11.9	14.9	8.4	2.5	10.6	2.5	0.8	0.0	60.1
1974-75	0.0	0.0	0.0	0.6	1.1	3.5	20.8	6.8	14.0	12.9	1.1	0.0	60.8
1975-76	0.0	0.0	0.0	3.3	13.9	20.0	5.9	11.1	9.8	6.1	0.0	0.0	70.1
1976-77	0.0	0.0	0.0	2.1	1.0	6.2	16.1	.3	13.7	5.7	0.0	0.0	51.1

1977-78	0.0	0.0	0.0	3.4	14.1	18.1	25.9	22.4	1.3	0.0	0.0	0.0	85.2
1978-79	0.0	0.0	0.0	0.0	25.2	22.2	10.1	8.7	5.9	3.7	0.3	0.0	76.1
1979-80	0.0	0.0	0.0	1.4	7.7	1.7	16.9	10.0	17.3	4.2	0.0	0.0	59.2
1980-81	0.0	0.0	0.0	17.8	4.5	5.5	2.1	3.4	16.3	0.7	15.8	0.0	65.9
1981-82	0.0	0.0	0.0	5.7	3.2	5.4	9.8	5.3	18.2	13.5	2.0	0.0	63.1
1982-83	0.0	0.0	5.7	1.5	5.6	11.2	0.1	1.0	6.4	5.8	11.9	0.0	49.2
1983-84	0.0	0.0	7.5	0.0	5.5	10.9	5.3	6.8	4.5	9.0	0.0	0.0	49.5
1984-85	0.0	0.0	9.3	6.5	9.9	16.1	4.8	3.8	21.7	1.9	0.0	0.0	74.0
1985-86	0.0	0.0	3.6	6.0	17.1	2.0	3.3	13.8	6.4	12.9	8.3	0.0	73.4
1986-87	0.0	0.0	0.0	0.0	12.3	1.9	0.6	6.0	13.3	0.3	0.4	0.0	34.8
1987-88	0.0	0.0	0.0	0.3	2.6	3.6	7.4	8.8	1.9	10.7	2.0	0.0	37.3
1988-89	0.0	0.0	0.0	2.0	5.6	6.2	18.5	6.8	25.1	11.8	0.0	0.0	76.0
1989-90	0.0	0.0	0.0	7.2	5.8	17.1	3.3	8.9	13.0	11.2	0.0	0.0	66.5
1990-91	0.0	0.0	0.0	3.5	1.5	6.2	11.4	1.0	3.7	30.0	3.6	0.0	60.9
1991-92	0.0	0.0	0.0	15.6	7.6	3.5	0.9	1.1	3.1	3.4	0.0	0.0	35.2
1992-93	0.0	0.0	0.0	4.0	1.7	10.6	11.4	5.8	2.7	6.9	0.0	0.0	43.1
1993-94	0.4	0.0	0.0	7.8	5.6	3.0	8.7	6.8	7.9	10.1	0.0	0.0	50.3
1994-95	0.0	0.0	0.0	0.0	13.9	4.6	2.4	6.3	6.8	8.8	3.9	0.0	46.7
1995-96	0.0	0.0	1.6	4.9	3.3	3.2	13.4	10.2	18.8	7.1	0.9	0.0	63.4
1996-97	0.0	0.0	0.0	9.7	15.7	20.6	18.5	0.8	10.3	23.1	0.0	0.0	98.7
1997-98	0.0	0.0	0.0	0.9	5.3	6.4	18.6	1.7	20.5	0.0	0.0	0.0	53.4
1998-99	0.0	0.0	0.0	0.0	5.1	6.5	18.2	2.4	8.5	8.7	0.0	0.0	49.4
1999-00	0.0	0.0	0.0	0.8	0.0	3.7	10.0	13.2	3.1	3.1	0.0	0.0	33.9
Mean	0.0	0.0	1.2	4.1	6.9	8.8	10.4	7.1	10.5	9.1	1.8	0.0	60.4
Normal	0.0	0.0	1.7	3.6	7.5	9.4	10.7	6.6	10.7	7.9	1.9	T	60.0

Billings, MT Highest Monthly and Annual Snowfall

Rank	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Ann
1	9.3" 1984	23.1" 1949	25.2" 1978	23.7" 1955	27.7" 1963	22.4" 1978	27.1" 1954	42.3" 1955	15.6" 1981	98.7" 1996-97
2	7.5" 1983	17.8" 1980	21.9" 1959	22.2" 1978	27.6" 1972	22.3" 1955	25.1" 1989	30.0" 1991	11.9" 1983	93.8" 1954-55
3	6.3" 1962	15.6" 1991	17.1" 1985	21.6" 1963	25.9" 1978	19.2" 1958	21.7" 1985	23.1" 1997	8.3" 1986	85.2" 1977-78
4	5.7" 1982	13.0" 1971	15.7" 1996	20.6" 1996	23.2" 1962	13.9" 1965	20.5" 1998	22.3" 1970	7.7" 1967	80.3" 1949-50
5	5.6" 1965	11.3" 1961	15.3" 1961	20.0" 1975	23.1" 1949	13.8" 1986	18.8" 1996	16.3" 1964	6.7" 1956	78.6" 1955-56
6	5.6" 1957	10.2" 1969	14.1" 1977	18.1" 1977	20.8" 1975	13.2" 1959	18.5" 1955	15.4" 1963	5.4" 1951	78.0" 1961-62
7	4.9" 1970	9.7" 1996	13.9" 1994	17.1" 1989	20.2" 1954	13.1" 1951	18.2" 1982	14.3" 1973	5.4" 1950	77.0" 1971-72
8	4.7" 1972	9.2" 1957	13.9" 1975	16.1" 1984	18.6" 1989	11.7" 1962	17.3" 1980	14.0" 1961	3.9" 1995	76.1" 1978-79
9	4.4" 1950	8.7" 1951	12.3" 1986	15.8" 1951	18.5" 1998	11.3" 1970	17.3" 1966	13.5" 1982	3.7" 1955	76.0" 1988-89
10	3.6" 1985	8.6" 1954	12.0" 1966	14.9" 1973	18.5" 1997	11.1" 1976	16.7" 1951	13.1" 1958	3.6" 1991	75.2" 1950-51

The 20 Highest Annual Snowfalls in Billings, MT

1. 98.7" 1996-1997
2. 93.8" 1954-1955
3. 85.2" 1977-1978
4. 80.3" 1949-1950
5. 78.6" 1955-1956
6. 78.0" 1961-1962
7. 77.0" 1971-1972
8. 76.1" 1978-1979
9. 76.0" 1988-1989
10. 75.2" 1950-1951
11. 74.0" 1984-1985
12. 73.4" 1985-1986
13. 70.1" 1975-1976
14. 68.3" 1957-1958
15. 68.1" 1969-1970
16. 67.4" 1966-1967
17. 66.5" 1989-1990
18. 65.9" 1980-1981
19. 65.1" 1953-1954
20. 63.9" 1963-1964

The 20 Highest Monthly Snowfalls in Billings, MT

1. 42.3" Apr. 1955
2. 30.0" Apr. 1991
3. 27.7" Jan. 1963
4. 27.6" Jan. 1972
5. 27.1" Mar. 1954
6. 25.9" Jan. 1978
7. 25.2" Nov. 1978
8. 25.1" Mar. 1989
9. 23.7" Dec. 1955
10. 23.2" Jan. 1962
11. 23.1" Feb. 1978
12. 23.1" Jan. 1949
13. 23.1" Oct. 1949
14. 22.4" Feb. 1978
15. 22.3" Apr. 1970
16. 22.3" Feb. 1955
17. 22.2" Dec. 1978
18. 21.9" Nov. 1959
19. 21.7" Mar. 1985
20. 21.6" Dec. 1963

The 20 Highest Daily Snowfalls in Billings, MT

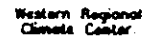
1. 23.7" Apr. 4, 1955
2. 15.4" Apr. 3, 1955
3. 15.0" May. 11, 1981
4. 14.0" Jan. 1, 1972
5. 13.7" Dec. 4, 1978
6. 13.3" Nov. 11, 1959
7. 13.0" Dec. 16 1955
8. 12.4" Nov. 17, 1994
9. 11.7" Jan. 26, 1975
10. 10.5" Mar. 22, 1964
11. 9.5" Mar. 19, 1982
12. 9.5" Oct. 15, 1980
13. 9.3" Oct. 20, 1949
14. 8.9" Mar. 2, 1966
15. 8.3" Apr 28, 1970
16. 8.2" Mar. 1, 1985
17. 8.0" Mar. 5, 1999
18. 7.9" Dec. 23, 1984
19. 7.7" Feb. 24, 1978
20. 7.5" Jan. 6, 1999

The 20 Lowest Annual Snowfalls in Billings, MT

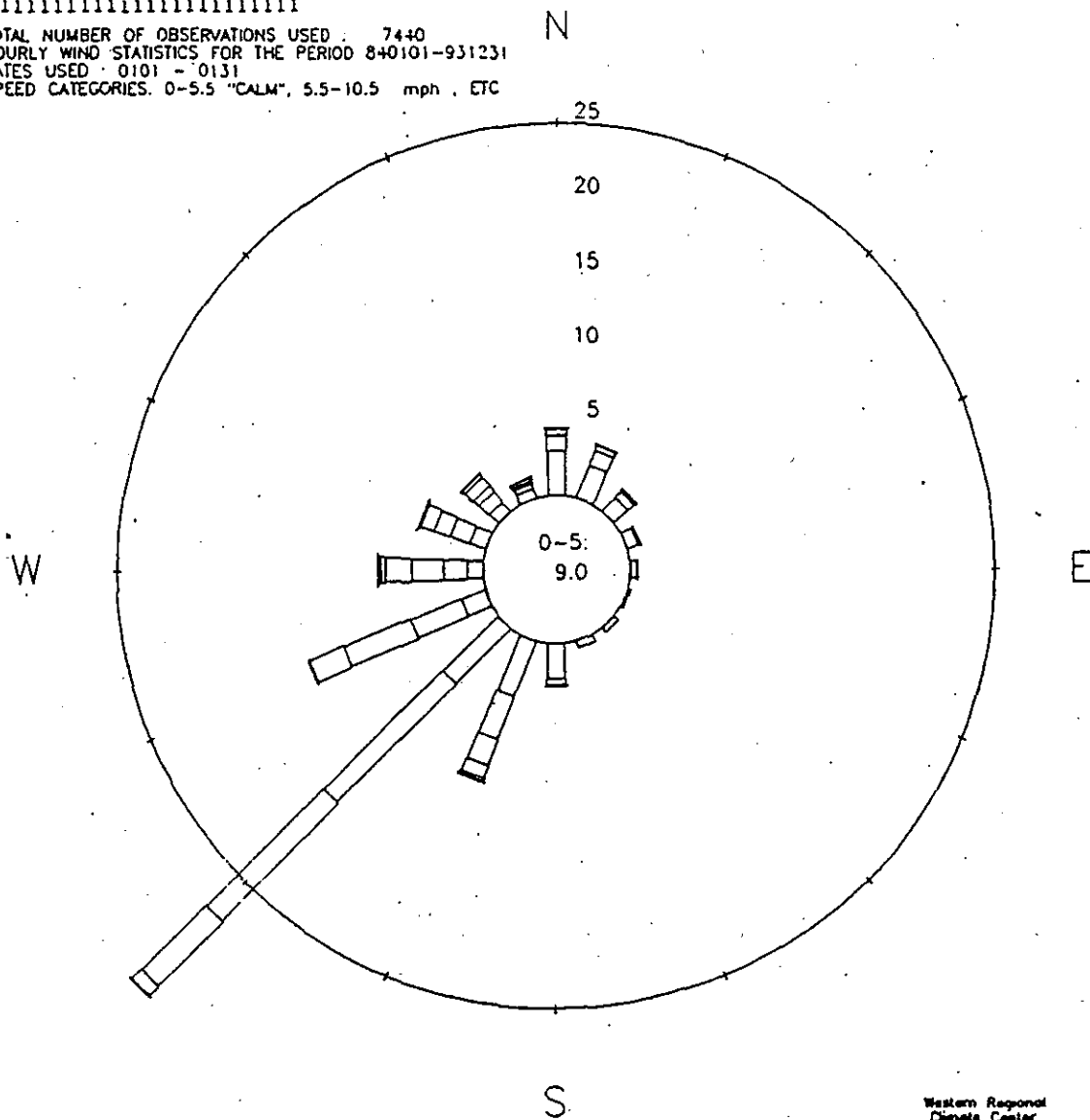
1. 31.3" 1960-1961
2. 33.9" 1999-2000
3. 34.8" 1986-1987
4. 35.2" 1991-1992
5. 35.8" 1952-1953
6. 35.9" 1969-1968
7. 37.3" 1987-1988
8. 43.1" 1992-1993
9. 45.9" 1970-1971
10. 46.7" 1994-1995
11. 48.0" 1967-1968
12. 49.2" 1982-1983
13. 49.4" 1998-1999
14. 49.5" 1983-1984
15. 50.3" 1993-1994
16. 51.1" 1976-1977
17. 51.6" 1965-1966
18. 51.6" 1951-1952
19. 53.4" 1997-1998
20. 55.2" 1964-1965

Billings, MT Mean Wind Speed and Direction		
Month	Speed (mph)	Direction
Jan.	13	SW
Feb.	12	SW
Mar.	11	SW
Apr.	11	SW
May	11	SW
Jun.	10	SW
Jul.	9	SW
Aug.	9	SW
Sep.	10	SW
Oct.	11	SW
Nov.	12	SW
Dec.	13	SW
Annual	11	SW

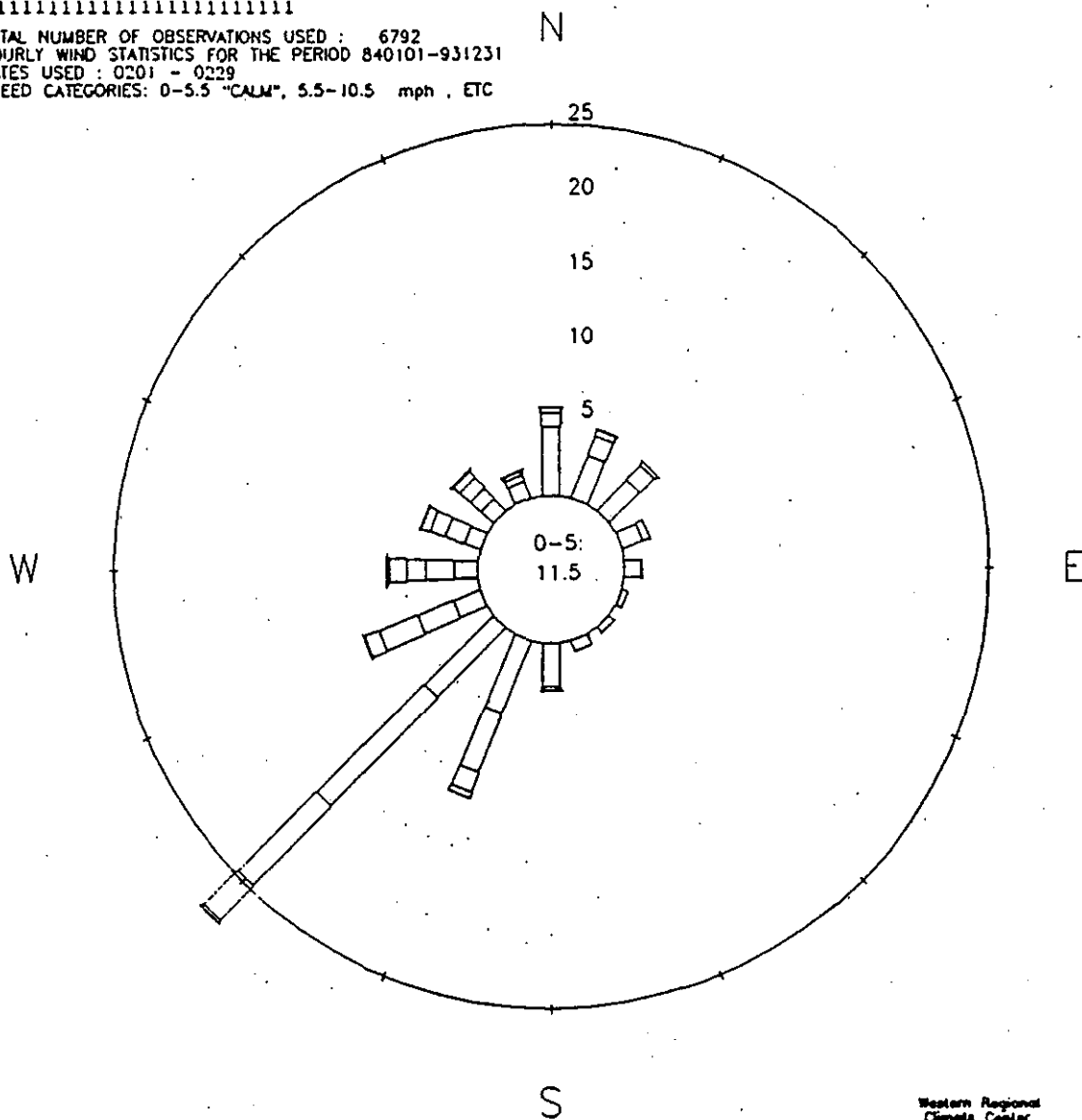
TOTAL NUMBER OF OBSERVATIONS USED : 87670
HOURLY WIND STATISTICS FOR THE PERIOD 840101-931231
DATES USED : 0101 - 1231
SPEED CATEGORIES: 0-5.5 "CALM", 5.5-10.5 mph , ETC



TOTAL NUMBER OF OBSERVATIONS USED : 7440
HOURLY WIND STATISTICS FOR THE PERIOD 840101-931231
DATES USED : 0101 - 0131
SPEED CATEGORIES: 0-5.5 "CALM", 5.5-10.5 mph, ETC

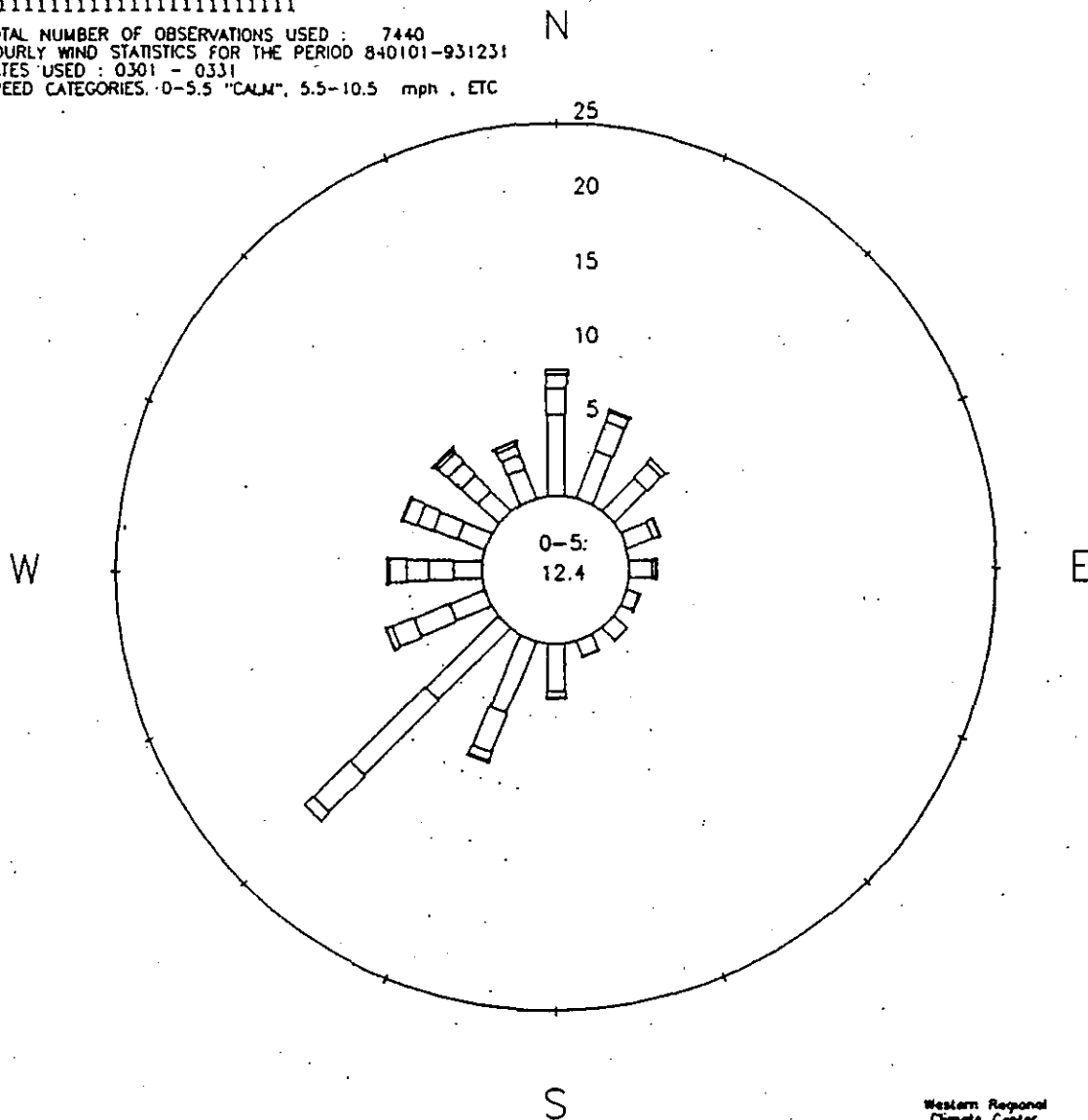


TOTAL NUMBER OF OBSERVATIONS USED : 6792
HOURLY WIND STATISTICS FOR THE PERIOD 840101-931231
DATES USED : 0201 - 0229
SPEED CATEGORIES: 0-5.5 "CALM", 5.5-10.5 mph , ETC



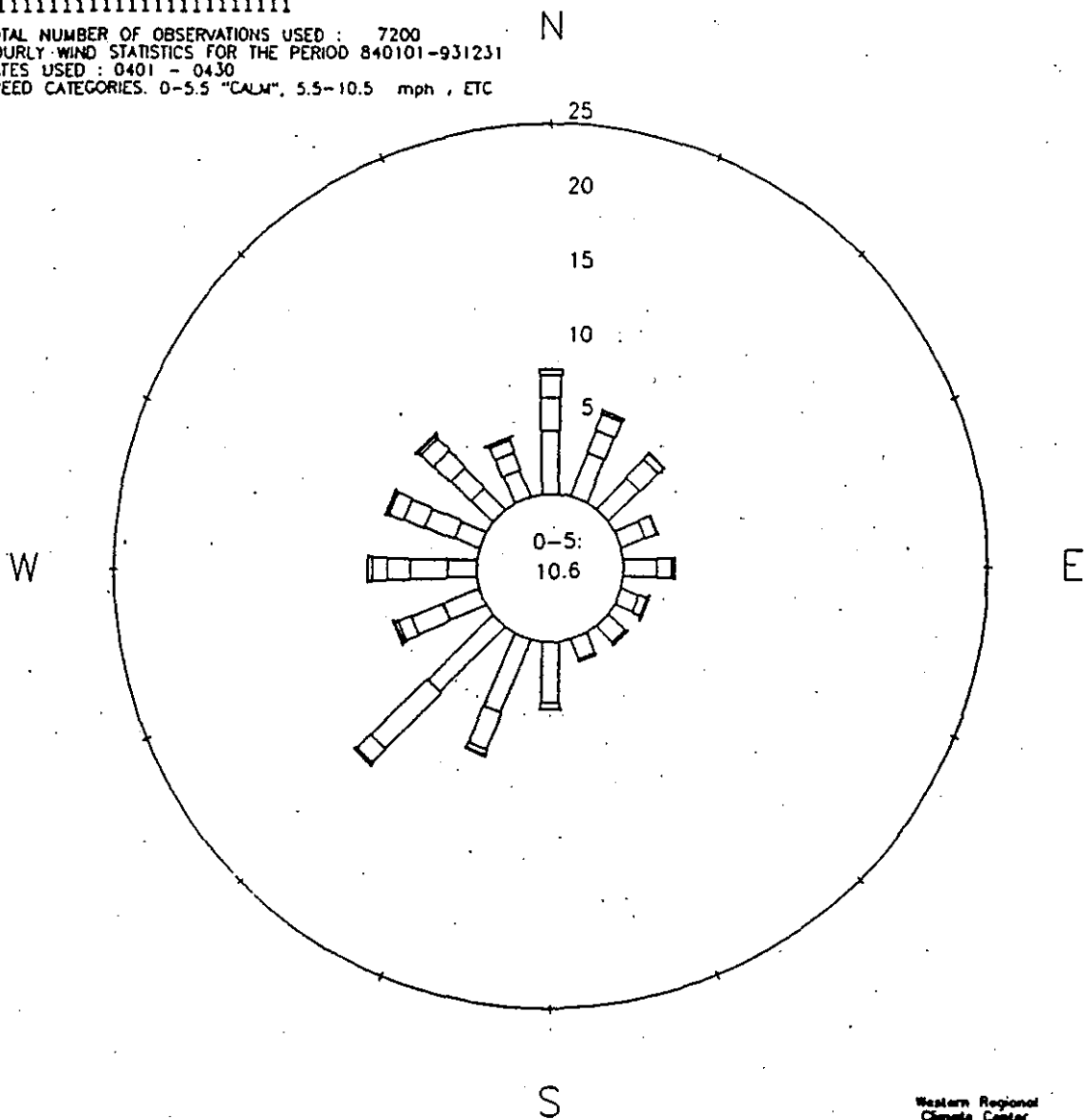
**Western Regional
Climate Center**

TOTAL NUMBER OF OBSERVATIONS USED : 7440
HOURLY WIND STATISTICS FOR THE PERIOD 840101-931231
DATES USED : 0301 - 0331
SPEED CATEGORIES: 0-5.5 "CALM", 5.5-10.5 mph, ETC



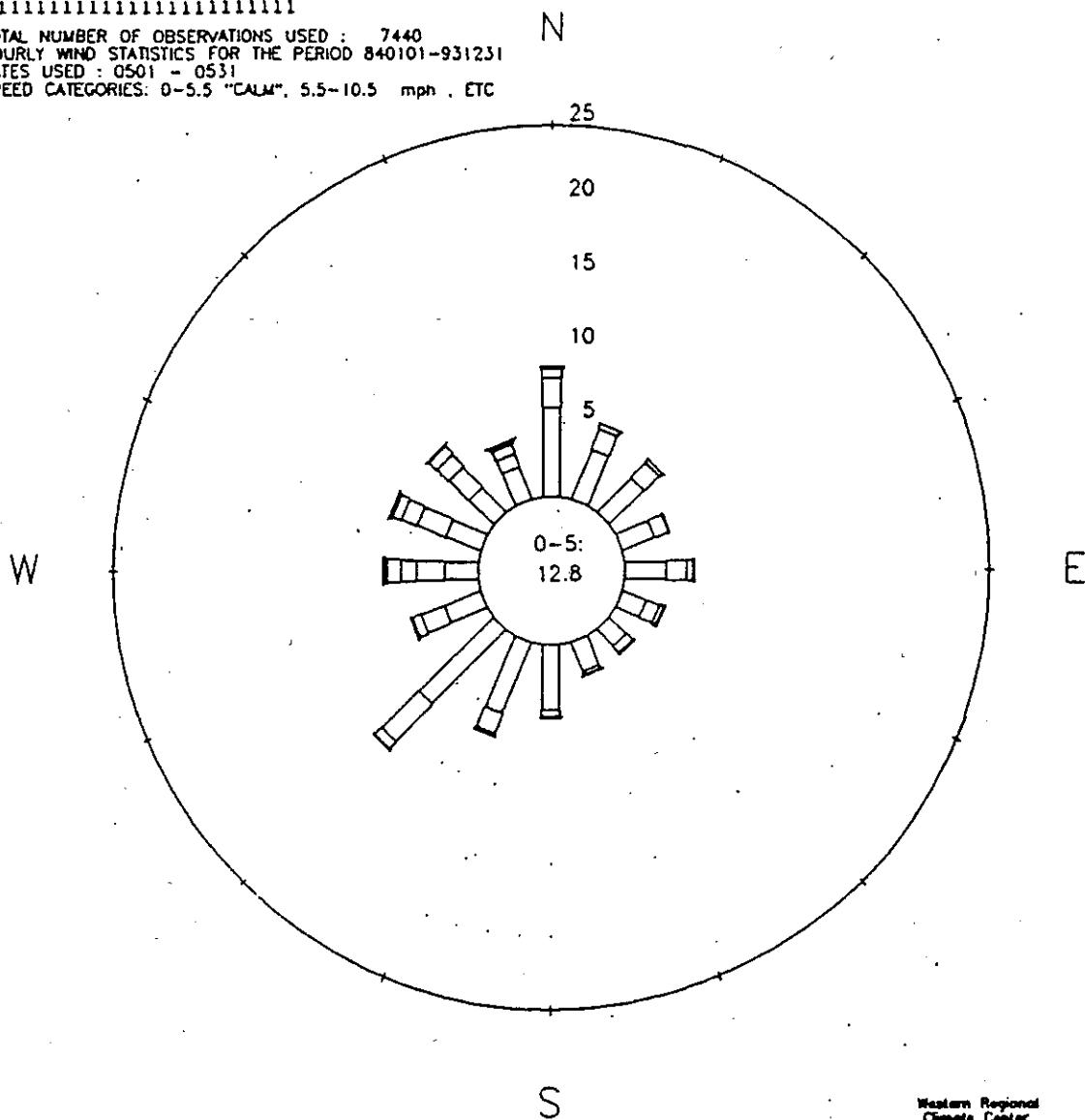
Western Regional
Climate Center

TOTAL NUMBER OF OBSERVATIONS USED : 7200
HOURLY WIND STATISTICS FOR THE PERIOD 840101-931231
DATES USED : 0401 - 0430
SPEED CATEGORIES. 0-5.5 "CALM", 5.5-10.5 mph , ETC



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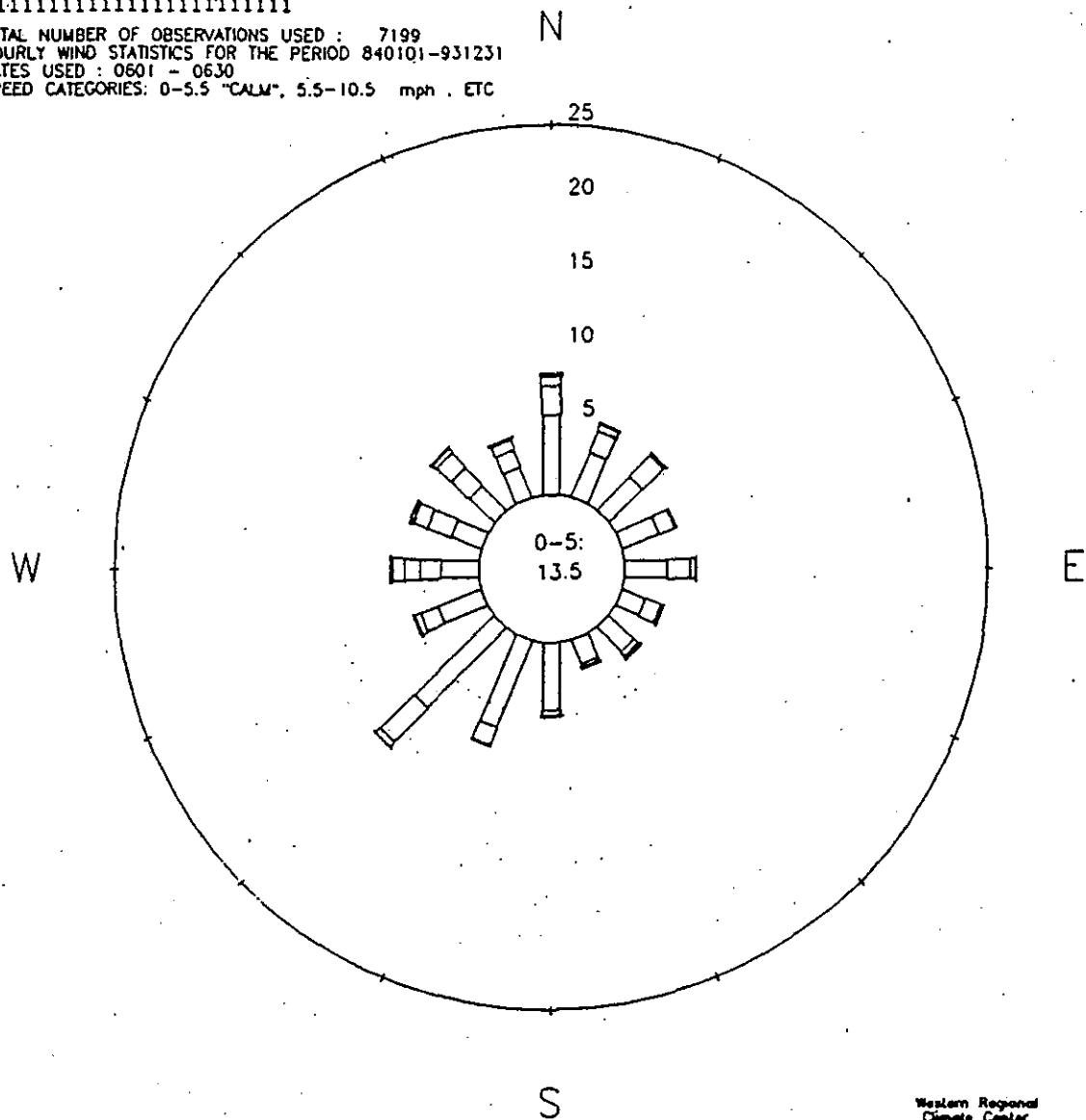
TOTAL NUMBER OF OBSERVATIONS USED : 7440
HOURLY WIND STATISTICS FOR THE PERIOD 840101-931231
DATES USED : 0501 - 0531
SPEED CATEGORIES: 0-5.5 "CALM", 5.5-10.5 mph , ETC



Western Regional
Climate Center

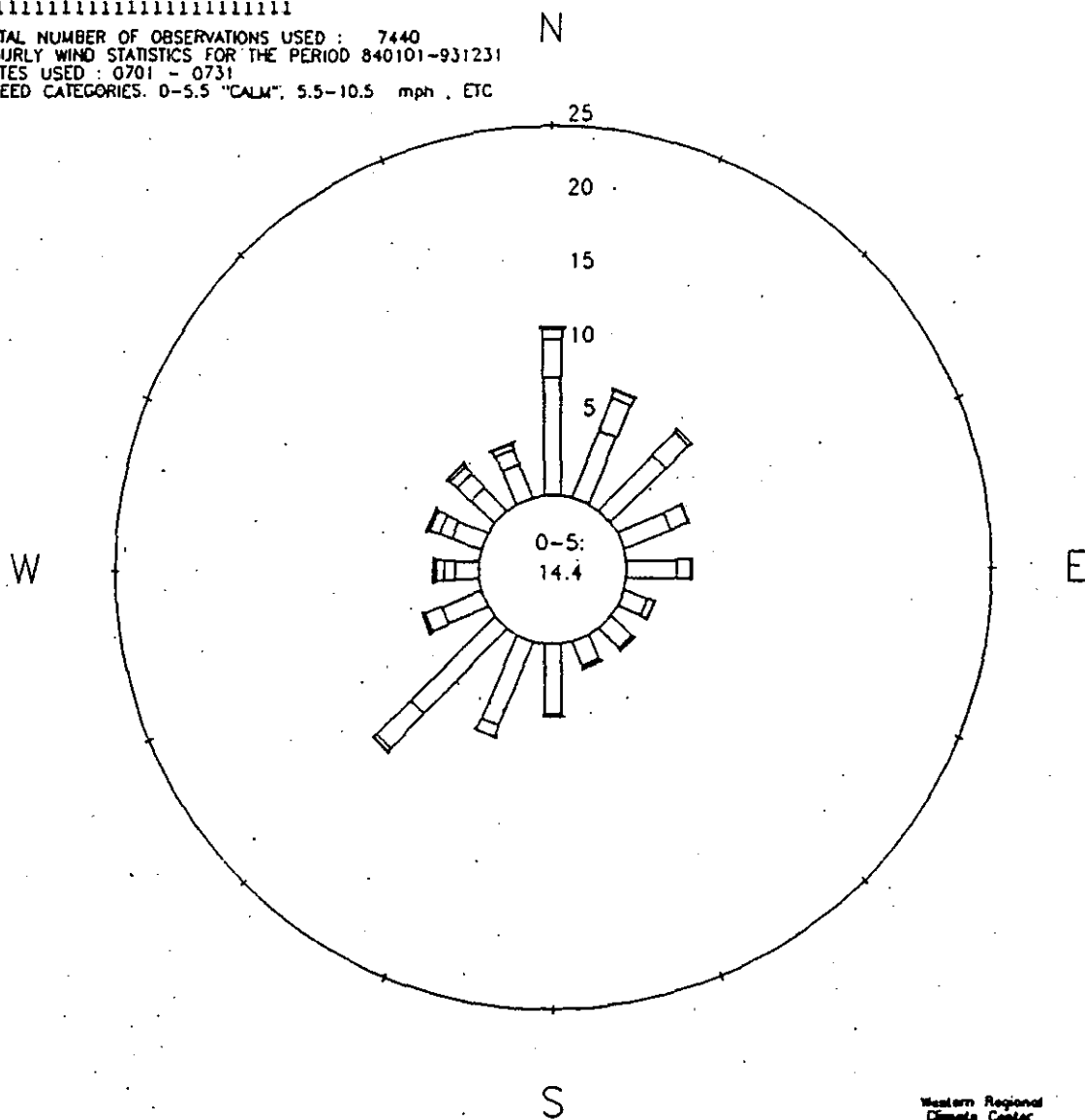
11-111111111111111111

TOTAL NUMBER OF OBSERVATIONS USED : 7199
HOURLY WIND STATISTICS FOR THE PERIOD 840101-931231
DATES USED : 0601 - 0630
SPEED CATEGORIES: 0-5.5 "CALM", 5.5-10.5 mph, ETC



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TOTAL NUMBER OF OBSERVATIONS USED : 7440
HOURLY WIND STATISTICS FOR THE PERIOD 840101-931231
DATES USED : 0701 - 0731
SPEED CATEGORIES: 0-5.5 "CALM"; 5.5-10.5 mph, ETC



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TOTAL NUMBER OF OBSERVATIONS USED : 7440
HOURLY WIND STATISTICS FOR THE PERIOD 840101-931231
DATES USED : 0801 - 0831
SPEED CATEGORIES. 0-5.5 "CALM", 5.5-10.5 mph , ETC



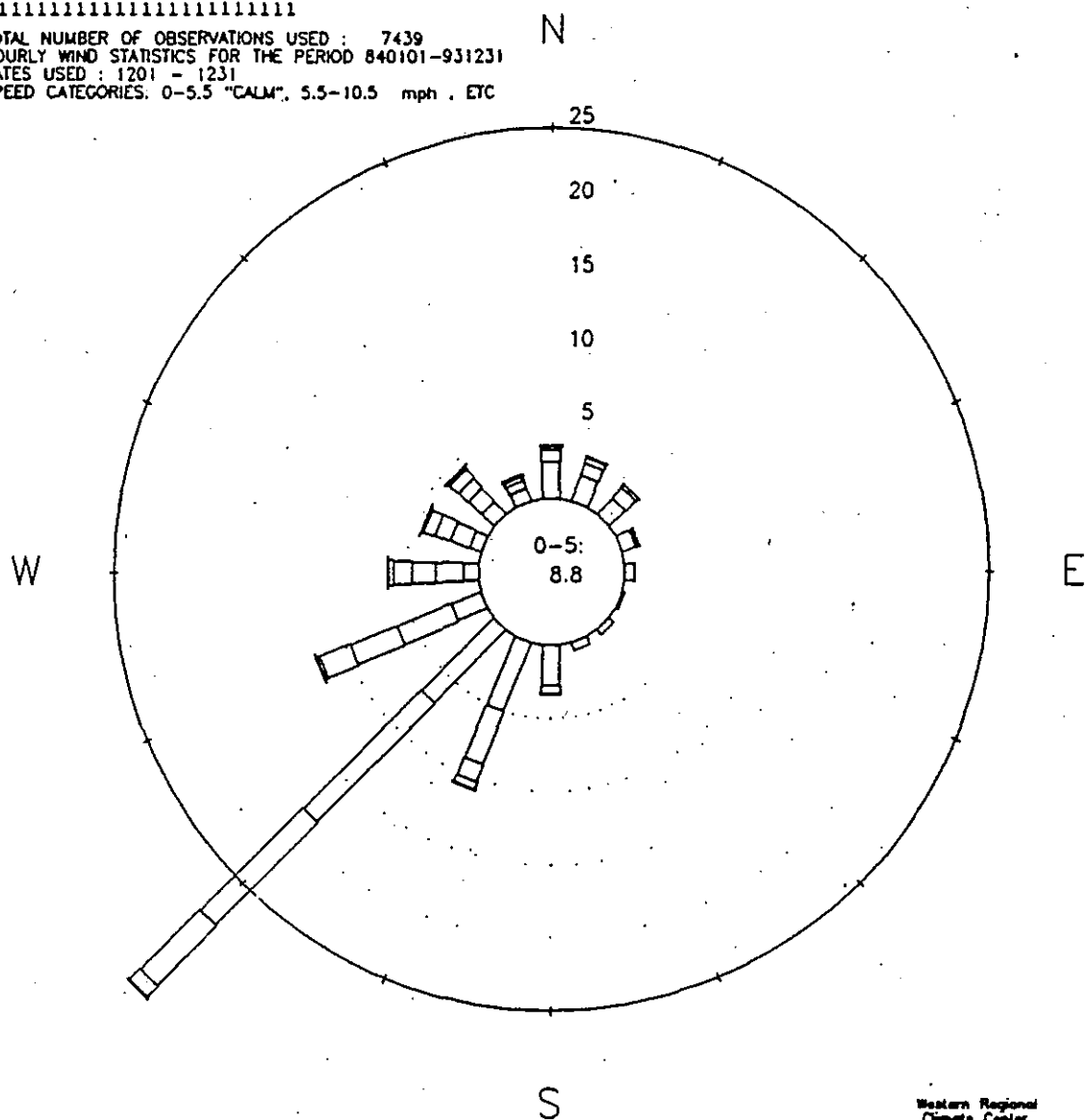
Elev 3567 ft.

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SPEED CATEGORIES: 0-5.5 "CALM", 5.5-10.5 mph, ETC

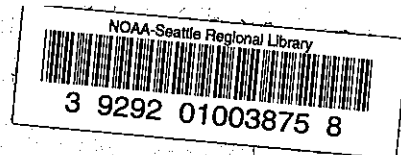


TOTAL NUMBER OF OBSERVATIONS USED : 7439
HOURLY WIND STATISTICS FOR THE PERIOD 840101-931231
DATES USED : 1201 - 1231
SPEED CATEGORIES: 0-5.5 "CALM", 5.5-10.5 mph , ETC



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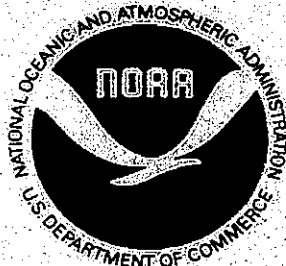
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