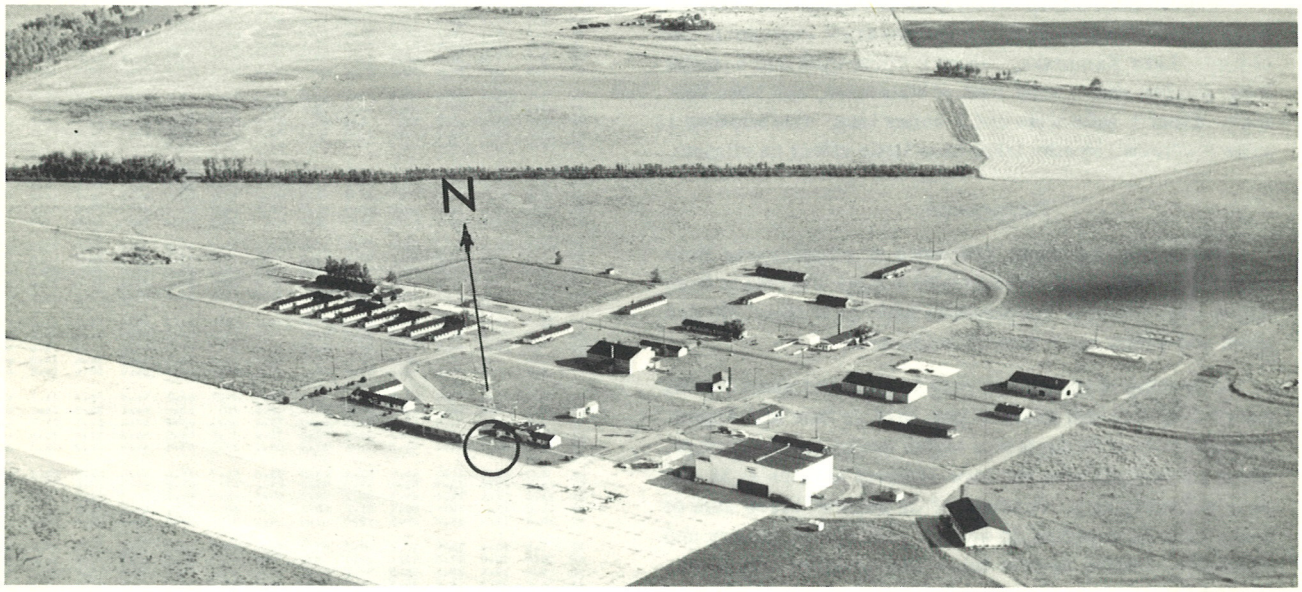
CLIMATOLOGICAL SUMMARY

Climatography of the U. S. No. 20-39

NO. 1

WATERTOWN South Dakota

LATITUDE 44° 55′ N LONGITUDE 97° 09′ W ELEVATION 1,746 FT.



STATION HISTORY

The first official weather observations were made in Watertown November 1, 1892. A fire destroyed original records prior to 1896 and there were other missing observations prior to 1898 which could not be estimated; therefore, weather data were not summarized before 1898 except for some extreme values from previously published data. Instruments at station consist of maximum and minimum thermometers and a standard rain gage. Since 1940 a recording rain gage and instruments for measuring relative humidty and wind speed and direction have been included.

LIBRARY
JUL 1 5 1965
WEATHER BUREAU

Detailed station history:

Date			Location	Elevation (Ft. MSL)	Observer
11/1/91	-	8/31/92	Unknown	Est. 1735	H. S. Fletcher
1/1/93	-	6/30/94	Unknown	Est. 1735	Rev. Dr. Mytton Maury
11/16/94	-	12/31/95	Unknown	Est. 1735	R. H. Baidley
1/1/96	-	2/28/97	Unknown	Est. 1735	Charles Harmon
3/1/97	-	3/31/01	Unknown	Est. 1735	J. J. Clutton
1/1/02	-	12/31/07	902 Elm St.	Est. 1735	Irvin H. Myers
1/1/08	-	12/31/08	223 S. Maple St.	1734	J. B. VanFleet
1/1/09	-	9/30/24	311 S. Maple St.	1734	Robert Q. Wood
10/1/24	-	3/31/25	Unknown	1734	Perry Wineland
4/1/25	-	9/30/29	1 mile N of P.O.	1734	Dr. H. C. Parsons
10/1/29	-	3/31/40	7 1/2 blocks N, 3 blocks W of P.O.	1734	P. G. Albrock
4/1/40	-	9/5/42	Watertown Airport 2 miles NW	1738	U.S. Civil Aeronautics Adm. (CAA)
9/6/42	-	12/31/58	Adm. Bldg. Muni. Airport 3 miles NW	1746	Same
1/1/59	-	Date	Same	1746	U. S. Federal Aviation Agency (FAA)

Data Compiled from Official U.S. Weather Bureau Records by State Climatologist for South Dakota in Cooperation with the Agricultural Engineering Department of the South Dakota State University Agricultural Experiment Station, Brookings.

2M—3-65—2454

STATION SUMMARY

Watertown is located in south central Codington County in northeastern South Dakota. The climate may be considered representative of Codington County and is a continental type characterized by large seasonal and daily variation in temperature, usually little winter precipitation, and marginal to adequate growing season rainfall.

Terrain surrounding Watertown is mostly flat with no large bodies of water nearby; numerous small lakes are in the county. Lake Kampeska, about 2 miles wide and 5 miles long, lies less than 1 mile west of Watertown, and Lake Pelican, about 1 mile wide and 5 miles long, lies less than 1 mile southwest. Nearby lakes have little effect on climate.

Temperature

There is a very large difference in temperatures from summer to winter and occasionally a large difference from day to day. Summer temperatures have gone about 100 degrees and winter more than 30 below zero.

A reading of 100 or more may be expected about 2 years out of 3 in July and about 1 year in 4 in June and August. Temperatures of 90 degrees or higher occur, on the average, about 17 days per year but have occurred as often as 53 and as infrequently as 1. Readings of 30 degrees below zero or lower may be expected in about 1 year in 3 in January and February. Twenty degrees below zero or lower may be expected about 3 times each year in January, twice in February, and once in December. Minimum temperatures of zero or lower can be expected, on the average, about 42 times per year but may occur as often as 71 and as few as 10. Daytime temperatures may not go above zero about 6 times per year.

Precipitation

The average annual precipitation is 20.8 inches at Watertown, of which about 78% falls during the growing season (April - September). Thunderstorms are the main source of rainfall during the growing season and produce a wide range of intensities of rain. About once a year a 1-inch or more rain in 1 hour may be expected and once in 25 years a 1-hour rain of 2.5 inches or more may occur. Once a year a 24-hour rain of 2 inches or more can be expected, and once in 25 years a 24-hour rain of 4.5 inches or more may occur.

Snowfall averages about 21 inches per year, although as much as 45 inches and as little as 5 has fallen annually. An average of 68 days per year has 1 inch or more of snow on the ground. As many as 92 days in a year have had 1 inch or more of snow on the ground, but there have been years when there was only 1 day with 1 inch or more. Due to the strong winds that usually accompany the snowfall, it is common to find open fields bare, while snow piles up in sheltered areas.

Hail may be expected on an average of about 11 times in 10 years with the maximum occurrence of about 5 times per year. In about 1 year in 2 no hail may be expected. Therefore, when hail does occur, it is likely to fall more than once in a year.

Other Considerations

Winds of 50 mph or more are likely to occur with a thunderstorm at least once a year. It is possible for a tornado to touch down in or near Watertown, but chances are rare.

The prevailing wind direction during summer is southerly, averaging 10 to 11 mph. In winter, the prevailing wind is northwesterly, averaging 12 to 13 mph.

Sunshine is an important factor in crop production. During the growing season, an average of about 65% of possible sunshine can be expected in the Watertown area. July has the highest percentage with about 75%. The winter months receive the lowest percentage — less than 50% in February.

The evaporation from large pans is an indication of the water loss experienced by the soil and crops. The average annual Weather Bureau class A pan evaporation in the Watertown area is about 46 inches. An average of about 38 inches evaporates during May through October. The pan evaporation represents a maximum or potential evaporation. Shallow lake evaporation averages about 72% of that from the pan. The actual water loss from soil is usually less since the soil moisture supply is often limiting.

Relative humidity averages from about 65% in afternoon to 80% in early morning during winter and from about 50% in afternoon to 85% in early morning during summer.

Walter Spuhler, State Climatologist, U. S. Weather Bureau
Brookings, South Dakota

AVERAGE TEMPERATURE, 1898-1963

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNL
98	18.9	18.0	28.5	43.6	53.9	64.5	67.6	66.1	59.6	40.6	25.1	12.9	41.7
99	9.4	3.8	14.6	42.7	53.4	63.9	67.6	68.6	53.0	45.7	38.9	15.8	39.8
00	18.3	6.3	26.1	49.0	58.6	66.8	68.0	73.7	57.8	53.8	26.2	21.3	43.9
01	15.5	12.0	28.2	45.7	57.4	63.7	73.2	67.1	54.3	47.3	28.2	13.7	42.2
02	15.9	15.5	30.2	42.1	56.6	60.0	68.8	65.6	55.0	47.4	30.6	9.9	41.5
03	12.0	8.4	28.6	43.5	55.5	61.8	66.2	64.4	54.7	47.9	28.2	11.9	40.3
04	5.2	3.9	26.4	40.1	53.4	62.0	64.6	64.2	57.8	48.5	35.2	16.6	39.9
05	4.5	9.0	35.4	42.5	50.3	61.8	65.3	68.8	61.4	42.1	33.7	20.0	41.3
06	19.2	16.4	20.3	47.3	54.6	61.2	64.9	66.6	60.7	43.8	28.0	16.6	41.7
07	2.1	15.5	30.0	34.3	45.1	61.6	65.9	66.3	53.9	43.5	31.1	21.7	39.3
08	19.9	17.1	28.5	46.6	53.9	62.4	68.4	65.0	64.7	45.8	35.1	19.6	43.9
09	11.4	16.9	28.3	36.9	54.6	65.7	69.7	73.0	60.4	45.1	32.6	8.8	42.0
10	12.6	9.0	44.9	48.8	52.2	66.4	71.8	66.7	59.1	52.0	28.3	18.2	44.3
11	7.8	17.6	34.8	42.9	60.3	70.9	68.3	64.6	57.8	42.5	18.6	17.9	42.1
12	3.4	13.7	19.7	45.9	55.4	62.1	68.2	64.9	54.9	46.9	35.4	19.2	40.3
13	10.1	11.0	19.9	45.1	52.0	67.6	67.2	71.2	58.8	40.7	37.4	25.3	42.2
14	16.7	5.2	27.1	41.5	56.0	65.3	72.6	66.6	59.2	51.0	33.9	8.4	42.0
15	9.0	21.3	23.9	52.6	50.9	59.5	64.1	62.7	56.9	48.1	33.9	18.1	41.8
16	0.5	7.2	26.3	40.3	53.4	59.7	75.8	67.3	56.0	41.9	30.2	7.7	38.9
17	5.9	3.4	24.4	39.0	51.7	60.7	71.4	65.4	57.3	35.4	38.4	5.4	38.3
18	1.6	13.7	35.6	39.2	56.1	64.6	67.2	69.4	54.4	50.6	31.8	23.5	42.4
19	23.2	15.7	28.7	44.2	56.1	68.0	73.0	69.5	62.4	40.9	23.5	13.0	43.2
20	10.5	17.7	29.3	35.5	56.0	65.6	69.4	67.0	62.6	53.2	30.0	20.3	43.1
21	21.4	26.4	33.8	47.2	56.9	72.1	73.1	69.0	59.6	49.3	24.4	21.5	46.3
22	11.5	6.6	29.3	45.4	58.7	67.7	68.3	73.1	64.2	50.5	34.9	15.8	43.9
23	17.1	11.1	23.1	42.9	56.5	67.1	73.2	67.1	62.6	45.2	37.4	27.0	44.3
24	7.7	22.0	27.0	44.3	48.7	61.5	67.2	66.4	56.2	54.4	31.5	8.2	41.3
25	10.3	21.0	35.0	51.9	53.4	63.4	67.2	70.4	62.7	34.2	30.8	16.2	43.1
26	12.9	24.2	26.3	42.6	60.8	61.4	70.2	68.2	55.6	45.2	23.6	12.9	42.1
27	14.0	20.5	32.3	43.6	50.9	62.1	65.7	63.9	61.0	50.4	26.0	2.5	41.1
28	14.1	20.4	32.3	36.9	59.2	60.3	70.1	68.8	55.6	45.6	32.3	23.9	43.4
29	1.0	4.5	32.8	44.4	51.4	63.4	71.6	69.6	55.5	47.2	26.2	15.8	40.2
30	2.6	28.3	29.5	47.4	54.4	64.8	75.6	73.4	59.4	44.5	33.1	23.0	44.7
31	25.6	31.1	30.9	47.0	53.4	71.8	74.9	69.9	67.4	51.0	35.4	25.0	48.7
32	12.5	19.2	21.7	45.9	59.3	69.9	73.6	71.7	59.8	43.6	29.5	14.8	43.5
33	22.5	14.4	31.4	43.8	56.9	76.7	76.2	70.0	66.1	46.3	31.6	16.1	46.0
34	19.7	20.4	29.0	45.2	68.4	70.7	75.7	69.6	55.3	52.5	36.0	15.8	46.5
35	9.4	27.7	34.4	40.7	52.1	62.8	77.8	71.2	62.4	45.4	26.6	16.0	43.7
36	2.1	6.3	29.9	39.6	62.5	67.5	81.3	74.1	64.7	44.0	26.6	17.8	41.7
37	1.4	10.7	25.9	40.5	59.2	65.1	73.9	76.0	61.4	44.8	28.4	14.8	41.7
38	10.3	15.4	34.2	46.9	54.1	66.5	72.7	74.2	63.3	54.9	28.1	21.3	45.2
39	18.8	7.0	30.2	44.1	63.5	66.7	73.5	70.3	63.6	46.6	36.9	28.2	45.9
40	4.4	17.3	25.4	39.6	54.5	64.7	73.8	66.1	63.4	52.4	23.2	21.2	42.2
41	12.7	10.8	25.7	47.9	59.9	65.0	71.9	71.0	60.5	46.8	31.6	23.6	44.0
42	18.3	17.8	32.7	48.1	51.4	62.9	68.1	67.7	53.1	44.9	30.3	12.9	42.4
43	2.0	15.9	21.0	44.5	51.4	64.8	73.0	69.7	55.6	47.6	28.5	21.3	41.3
44	23.8	15.6	20.9	39.3	59.5	65.3	69.6	67.7	58.5	48.5	32.8	17.8	43.3
45	13.6	17.4	36.1	40.1	50.1	58.8	69.3	68.9	57.1	46.7	27.5	8.8	41.3
46	11.0	13.1	36.6	48.9	51.2	65.1	71.0	66.7	57.5	44.9	28.2	18.4	42.8
47	19.5	11.7	25.7	39.3	50.8	61.4	69.7	74.7	59.5	53.7	22.9	13.1	41.9
48	7.6	10.0	22.4	46.2	54.9	62.7	71.7	69.1	63.3	47.2	31.3	17.5	42.1
49	6.6	10.0	27.5	45.4	59.1	66.2	72.0	71.9	55.3	46.7	37.0	16.9	42.9
50	0.4	15.9	22.6	33.5	51.6	65.3	66.6	64.4	59.2	48.8	24.3	12.6	38.8
51	5.8	18.3	16.9	39.8	56.7	59.8	68.0	65.7	53.6	43.9	25.0	9.7	38.7
52	8.0	18.5	20.7	45.7	54.8	67.8	70.6	67.9	62.3	43.0	31.3	19.7	42.6
53	13.0	17.7	29.7	37.6	53.9	66.3	69.3	71.0	59.3	53.0	34.5	17.5	43.6
54	4.6	30.8	24.7	42.8	49.8	64.8	72.1	68.6	58.5	44.1	36.4	21.8	43.3
55	14.6	9.2	24.4	51.5	60.7	64.2	74.6	72.8	59.3	48.4	20.0	8.4	42.4
56	8.1	9.6	23.5	36.9	55.1	70.4	67.6	68.4	56.5	52.2	29.0	21.9	41.7
57	4.6	16.8	28.1	42.4	52.5	63.2	75.2	68.6	56.3	45.9	30.7	24.2	42.4
58	19.5	13.4	28.9	43.3	58.2	60.0	67.5	70.7	61.4	49.6	30.8	12.2	43.0
59	6.7	10.1	32.4	43.3	55.5	69.0	71.6	73.2	59.3	41.1	21.9	26.1	42.6
60	10.9	11.8	14.2	42.2	55.5	62.9	72.0	70.7	60.3	47.7	31.8	15.6	41.4
61	10.5	19.8	33.9	37.8	51.8	67.0	69.0	73.1	55.6	48.0	30.0	12.5	42.5
62	7.1	11.9	23.9	41.8	57.5	64.7	67.6	69.6	56.0	49.2	34.8	18.8	41.9
63	2.9	15.5	33.8	45.2	55.0	68.7	71.3	69.2	61.5	56.1	34.7	10.1	43.7

PROBABILITY DATE OF LAST TEMPERATURE OCCURRENCE IN SPRING, 1898-1963

PERCENT CHANCE OF LATER DATE	TEMPERATURE LEVELS 16	20	24	28	32	36
90	MAR. 11	MAR. 27	APR. 4	APR. 17	APR. 28	MAY 9
70	MAR. 19	APR. 2	APR. 12	APR. 24	MAY 6	MAY 16
50	APR. 2	APR. 15	APR. 24	MAY 6	MAY 19	MAY 29
30	APR. 16	APR. 28	MAY 9	MAY 19	JUNE 3	JUNE 11
10	APR. 24	MAY 5	MAY 16	MAY 26	JUNE 10	JUNE 18

PROBABILITY DATE OF FIRST TEMPERATURE OCCURRENCE IN FALL, 1898-1963

PERCENT CHANCE OF EARLIER DATE	TEMPERATURE LEVELS 16	20	24	28	32	36
10	OCT. 11	OCT. 1	SEP. 18	SEP. 13	SEP. 6	AUG. 20
30	OCT. 18	OCT. 8	SEP. 27	SEP. 20	SEP. 12	AUG. 29
50	NOV. 1	OCT. 24	OCT. 12	OCT. 3	SEP. 25	SEP. 13
70	NOV. 15	NOV. 9	OCT. 27	OCT. 16	OCT. 9	SEP. 29
90	NOV. 23	NOV. 16	NOV. 5	OCT. 23	OCT. 15	OCT. 7

MEANS, 1898-1963, AND EXTREMES, 1892-1963

TEMPERATURE

	Av. daily max.	Av. daily min.	Av. monthly mean	Highest daily max.	Year	Day	Lowest daily min.	Year	Day	Av. heating degree days	Av. no. days Max. 90° & above	Max. 32° & below	Min. 32° & below	Min. 0° & below
Jan.	21.0	0.4	10.7	56	44	20	-40	16	13	1613	0	23	30	15
Feb.	25.1	4.0	14.5	66	58	23	-38	29	19	1383	0	19	27	11
Mar.	38.1	17.6	27.8	82	21	18	-27	48	11	1144	0	10	28	03
Apr.	55.1	31.3	43.2	94	10	28	-10	26	05	652	0	1	17	0
May	67.5	42.7	55.1	106	34	30	16	07	03	325	0	0	4	0
June	76.6	53.0	64.8	107	31	28	25	97	07	98	2	0	0	0
July	83.2	57.7	70.4	110	34	21	35	17	03	21	6	0	0	0
Aug.	81.9	55.9	68.9	105	36	24	31	96	31	38	5	0	0	0
Sept.	71.8	46.1	58.9	104	31	10	09	99	29	226	1	0	2	0
Oct.	59.4	34.5	46.9	91	51	01	-02	25	29	558	0	0	12	0
Nov.	40.3	20.2	30.3	77	31	08	-23	96	30	1038	0	8	27	1
Dec.	26.4	7.1	16.7	69	39	06	-33	17	14	1465	0	20	30	10
Annual	53.9	30.9	42.4	JULY 110	34	21	JAN -40	16	13	8561	14	81	177	40

PRECIPITATION

	Av. monthly	Greatest monthly	Year	Greatest daily	Year	Day	Av. monthly snowfall	Greatest monthly snowfall	Year	Greatest daily snowfall	Year	Day	Av. no. days .01 & over	.10 & over	.50 & over	1.00 & over
Jan.	.51	1.87	22	1.27	39	09	5.3	27.0	16	10.0	16	29	5	2	0	
Feb.	.55	2.28	22	1.18	46	05	5.5	24.7	46	13.5	46	05	4	2	0	
Mar.	.89	3.16	40	1.71	40	28	5.8	20.0	37	16.0	37	24	5	2	0	
Apr.	1.97	8.04	96	3.05	12	13	2.3	11.5	45	10.0	45	16	7	5	1	
May	2.91	8.84	92	7.14	31	27	0.1	6.0	07	3.0	54	02	9	6	2	1
June	3.72	8.99	14	3.19	53	19	0.0	0.0		0.0			9	7	3	1
July	2.91	10.36	63	3.40	05	03	0.0	0.0		0.0			8	5	2	1
Aug.	2.79	7.67	00	2.81	48	09	0.0	0.0		0.0			7	5	2	1
Sept.	2.03	7.22	21	3.15	01	11	0.0	1.2	42	1.2	42	26	6	4	2	1
Oct.	1.30	4.53	46	2.50	06	20	0.4	4.9	32	4.0	32	30	4	3	1	
Nov.	.76	2.97	18	1.45	05	24	3.4	23.3	47	8.0	58	17	4	2	0	
Dec.	.51	3.36	55	1.33	53	03	4.5	22.3	55	11.0	53	03	4	2	0	
Annual	20.85	JULY 10.36	63	7.14	MAY 31	27	27.3	JAN 27.0	16	16.0	MAR 37	24	72	45	13	5

DAILY EXTREME VALUES BY MONTH AND DAILY MEAN TEMPERATURE, 1898-1963

JANUARY DAILY EXTREME VALUES

DAY	MAX	YR	MIN	YR	PREC	YR	SNFL	YR	MEAN TEMP
01	44	44	-25	24	1.10	41	8.0	16	11.1
02	46	44	-32	28	.33	37	6.0	37	10.4
03	45	62	-30	19	.35	43	3.5	43	11.0
04	40	30	-28	12	.26	49	3.0	26	12.2
05	43	58	-32	24	.28	09	4.0	09	10.3
06	43*	63	-29	09	.15	37	3.0	53	11.7
07	46*	63	-31	12	.10	03	1.1	41	12.9
08	52	63	-30	12	.32	23	2.0	07	13.2
09	52	58	-24	30	1.27	39	2.5	63	13.4
10	43	58	-20	12	.12	01	1.3	01	13.6
11	50	58	-27	18	.50	05	7.5	30	13.2
12	41	58	-38	12	.16	63	1.0	63	11.4
13	48	00	-40	16	.38	38	4.5	38	12.2
14	49	44	-38	16	.52	52	4.0	29	11.4
15	46	19	-27	63	.45	56	6.0	09	10.4
16	50	13	-25	43	.40	11	5.0	35	10.4
17	46	44	-33	43	.12	39	4.0	39	10.0
18	47	23	-28	43	.18	22	5.0	20	10.6
19	56	00	-31	43	.18	26	4.0	26	11.0
20	56	44	-26	62	.21	54	2.0	62	10.3
21	50	33	-30	54	.50	17	4.0	17	9.4
22	54	42	-31	36	.20	17	2.0	17	9.3
23	52	31	-31	48	.08	49	1.0	49	10.2
24	51	31	-36	04	.20	02	2.0	02	11.0
25	50	44	-33	04	.48	25	2.0	59	7.8
26	54	31	-27	50	.60	17	4.0	17	8.1
27	50	34	-29	15	.55	44	5.0	16	9.7
28	49	31	-29	15	.19	36	2.5	36	10.9
29	56	31	-31	51	.56	16	10.0	16	9.5
30	50	31	-30	99	.50	22	6.0	29	9.0
31	51	31	-28	18	.36	22	3.0	15	8.9

* INDICATES PRIOR OCCURRENCE OF INDICATED VALUE

FEBRUARY DAILY EXTREME VALUES

DAY	MAX	YR	MIN	YR	PREC	YR	SNFL	YR	MEAN TEMP
01	58	31	-33	05	.56	39	7.0	39	9.5
02	55	31	-38	05	.94	22	13.0	22	10.5
03	47	62	-36	05	.62	43	6.0	19	11.0
04	51	25	-27	18	.27	59	2.1	59	12.0
05	55	63	-31	36	1.18	46	13.5	46	12.0
06	50	25	-26	99	.30	28	4.0	14	11.6
07	50	98	-30	14	.25	36	4.0	36	11.9
08	49	98	-35	99	.16	05	2.0	16	11.0
09	45	54	-36	99	.50	09	5.0	09	10.8
10	50	18	-26	99	.26	59	5.0	59	12.6
11	51	34	-38	99	.42	00	4.5	00	14.5
12	57	21	-35	05	.50	08	6.0	16	14.6
13	54	21	-31	05	.51	15	3.0	20	14.7
14	55	34	-32	36	.57	15	3.0	18	13.9
15	60	31	-30	36	.40	10	4.0	15	14.3
16	49	12	-36	36	.38	38	4.0	38	15.4
17	64	13	-27	36	.25	62	3.0	08	16.1
18	62	30	-26	03	.28	62	2.0	62	15.1
19	63	30	-38	29	.63	55	4.6	52	15.0
20	65	30	-22	18	.60	53	6.0	53	16.1
21	52	31	-25	36	.50	57	3.0	57	15.7
22	56	58	-22	57	.10	13	2.0	13	17.4
23	66	58	-23	14	1.08	22	6.0	22	19.4
24	52	58	-22	55	.18	06	3.0	19	17.8
25	63	58	-18	19	.17	04	1.5	46	18.4
26	56	02	-18	62	.45	05	4.5	05	18.4
27	60	21	-23	62	.49	48	2.9	19	19.3
28	58	34	-31	62	.60	30	7.0	30	20.1
29	44	24	-16	60	.03	36	0.3	36	15.8

* INDICATES PRIOR OCCURRENCE OF INDICATED VALUE

MARCH DAILY EXTREME VALUES

DAY	MAX	YR	MIN	YR	PREC	YR	SNFL	YR	MEAN TEMP
01	57	23	-18	62	.21	58	2.0	58	21.0
02	63	05	-23	13	.29	51	3.1	51	21.3
03	55	05	-20	16	.65	20	8.0	06	22.3
04	58	21	-21	60	.83	35	9.4	38	21.5
05	61	25	-21	60	.27	15	3.0	15	20.5
06	58	50	-16	99	.50	08	6.0	08	21.0
07	62	13	-16	20	.16	51	1.6	51	21.5
08	64	98	-13	51	.22	60	2.4	60	24.3
09	59	11	-13	51	.78	18	4.0	18	24.8
10	61	00	-24	48	.21	51	2.0	60	26.2
11	63	00	-27	48	.40	17	5.0	17	26.7
12	66	34	-12	60	1.21	54	6.0	54	27.6
13	64	14	-14	60	.25	17	3.7	40	26.8
14	69	35	-20	60	.35	57	3.5	57	25.5
15	66	30	-05	49	1.00	98	4.1	43	25.8
16	64	21	-14	00	1.25	46	6.0	20	25.3
17	66	10	-13	02	.80	07	5.0	07	27.9
18	82	21	-17	23	.75	63	8.0	63	29.4
19	70	21	-10	44	.28	63	2.0	63	29.8
20	71	11	-06	13	.44	35	1.0	05	29.7
21	78	10	-11	51	.11	50	1.2	50	31.6
22	77	39	-11	99	.40	46	4.0	29	32.6
23	82	10	-14	99	.60	37	4.0	37	34.5
24	78	39	-02	60	1.17	37	16.0	37	35.0
25	81	39	-07	13	1.06	42	2.2	54	34.5
26	70	05	-04	37	1.40	21	4.0	21	32.2
27	76	46	-04	13	.50	21	2.0	21	31.3
28	78	46	-05	21	1.71	40	8.0	00	32.0
29	72	43	05	99	1.50	24	12.0	24	34.3
30	81	43	-03	23	.28	16	1.0	49	34.6
31	79	46	03	23	.41	47	3.0	62	35.1

* INDICATES PRIOR OCCURRENCE OF INDICATED VALUE

APRIL DAILY EXTREME VALUES

DAY	MAX	YR	MIN	YR	PREC	YR	SNFL	YR	MEAN TEMP
01	76	63	02	24	.46	05	3.0	60	36.2
02	79	28	02	99	.41	05	3.2	53	35.2
03	78	10	04	54	.83	56	0.8	63	36.9
04	82	30	07	20	.97	57	6.0	57	38.6
05	79	29	-10	26	.62	32	5.5	35	38.1
06	76	59	11	36	1.02	22	6.5	38	38.2
07	79	31	00	36	.95	21	2.5	35	38.1
08	85	31	08	28	.74	62	2.0	62	38.6
09	83	30	08	28	.24	13	2.0	13	40.4
10	80	10	15	52	.97	47	5.4	50	41.1
11	81	25	07	61	.36	29	4.0	29	40.1
12	89	31	04	61	.64	48	5.2	48	42.2
13	81	36	06	50	3.05	12	3.0	28	43.3
14	83	54	-05	28	1.00	10	4.0	47	43.8
15	83	15	14	62	.78	27	2.0	23	43.5
16	85	58	13	28	1.28	45	10.0	45	42.9
17	82	31	12	53	1.00	10	4.0	10	44.5
18	83	15	15	14	.47	03	0.0		44.6
19	84	36	11	28	2.00	57	0.5	14	45.7
20	84	26	15	07	1.10	31	4.0	17	47.0
21	83	08	10	27	.70	23	5.0	24	46.1
22	82	13	18	56	.62	20	1.0	63	47.3
23	89	39	18	56	1.65	32	0.7	47	47.8
24	87	62	18	34	1.52	53	1.0	17	47.8
25	92	62	21	58	.94	29	8.0	37	47.2
26	84	01	17	31	1.30	12	0.2	32	47.7
27	85	10	16	09	1.58	38	0.0		47.8
28	94	10	19	26	.81	01	1.0	07	49.3
29	89	34	14	07	.70	00	1.0	03	49.2
30	87	34	15	03	1.58	36	1.0	54	49.0

* INDICATES PRIOR OCCURRENCE OF INDICATED VALUE

MAY DAILY EXTREME VALUES

DAY	MAX	YR	MIN	YR	PREC	YR	SNFL	YR	MEAN TEMP
01	95	59	18	61	.96	42	0.0		50.5
02	89	55	17	11	.85	41	3.0	54	50.5
03	92	49	16	07	1.25	15	1.0	54	50.1
04	90	49	24	44	.75	12	0.0		50.8
05	91	09	23	44	1.57	49	1.0	50	50.9
06	89	34	20	31	1.36	02	0.0		51.5
07	93	16	21	29	.48	07	3.0	07	51.2
08	99	34	26	60	.78	03	0.0		50.8
09	93	28	23	23	1.50	26	0.0		51.9
10	86	11	24	07	1.27	36	0.0		51.9
11	91	00	19	46	1.00	22	0.0		53.1
12	87	00	19	46	2.57	63	0.1	53	53.6
13	92	32	25	53	1.35	57	0.0		53.1
14	94	32	25	21	1.15	08	3.0	07	53.6
15	95	31	23	59	1.45	62	0.0		54.4
16	99	34	23	29	1.52	62	0.0		55.4
17	99	34	21	25	1.19	61	0.0		56.3
18	94	34	28	15	1.35	62	0.0		57.0
19	93	34	30	07	1.00	18	0.0		55.6
20	96	34	26	07	1.32	57	0.0		56.4
21	87	25	28	28	1.70	09	0.0		57.1
22	90	28	22	31	.85	46	0.0		58.5
23	92	50	30	17	.98	06	0.0		57.8
24	95	26	28	30	1.00	09	0.0		58.4
25	92	26	28	25	1.05	57	0.0		59.8
26	91	11	30	61	.98	39	0.0		59.0
27	93	00	28	28	7.14	31	0.0		58.5
28	102	34	32	28	.85	56	0.0		59.6
29	97	34	31	30	2.09	42	0.0		61.3
30	106	34	31	47	2.00	59	0.0		61.7
31	101	34	34	03	3.26	45	0.0		61.5

* INDICATES PRIOR OCCURRENCE OF INDICATED VALUE

JUNE DAILY EXTREME VALUES

DAY	MAX	YR	MIN	YR	PREC	YR	SNFL	YR	MEAN TEMP
01	94	40	33	56	1.87	04	0.0		60.5
02	96	40	30	46	1.18	99	0.0		61.0
03	95	33	36	28	1.20	56	0.0		62.3
04	92	33	34	51	1.06	30	0.0		62.6
05	94	33	32	27	1.76	15	0.0		62.3
06	93	52	32	35	1.75	54	0.0		61.3
07	95	52	28	01	1.25	34	0.0		60.8
08	97	11	31	00	2.02	14	0.0		61.0
09	97	33	30	15	1.25	24	0.0		62.8
10	103	33	32	08	1.44	39	0.0		62.9
11	92	56	31	03	1.77	43	0.0		63.2
12	98	56	37	27	1.45	09	0.0		64.1
13	96	56	34	29	1.85	37	0.0		64.1
14	92	59	37	27	2.13	19	0.0		64.9
15	100	33	33	17	1.93	01	0.0		65.0
16	103	33	35	02	1.37	25	0.0		65.7
17	99	33	37	02	1.40	06	0.0		66.2
18	100	33	35	26	1.25	18	0.0		65.8
19	102	33	39	48	3.19	53	0.0		66.1
20	94	43	41	02	1.16	19	0.0		65.8
21	96	30	31	02	2.61	56	0.0		66.0
22	98	11	34	02	1.89	48	0.0		66.5
23	100	37	39	26	2.40	25	0.0		67.4
24	96	11	40	58	1.21	38	0.0		67.9
25	106	36	40	28	.97	30	0.0		67.8
26	106	33	37	26	1.30	61	0.0		67.9
27	103	31	38	25	1.84	05	0.0		68.5
28	107	31	41	23	1.65	39	0.0		68.7
29	102	31	39	25	1.60	16	0.0		68.5
30	102	31	41	18	2.00	13	0.0		68.8

* INDICATES PRIOR OCCURRENCE OF INDICATED VALUE

JULY DAILY EXTREME VALUES

DAY	MAX	YR	MIN	YR	PREC	YR	SNFL	YR	MEAN TEMP
01	100	11	40	98	1.04	62	0.0		68.4
02	96	44	43	40	1.15	55	0.0		68.8
03	100	29	35	17	3.40	05	0.0		69.1
04	99	11	42	99	2.69	63	0.0		69.1
05	98	48	42	99	1.58	00	0.0		70.0
06	104	36	40	42	1.65	21	0.0		69.5
07	98	36	41	08	2.80	50	0.0		70.0
08	98	36	40	99	1.50	09	0.0		69.4
09	105	36	40	99	1.18	46	0.0		70.1
10	105	30	43	45	1.12	04	0.0		70.3
11	104	30	44	22	.50	10	0.0		71.0
12	103	36	40	41	.81	55	0.0		70.9
13	101	36	38	26	.92	34	0.0		70.1
14	104	31	40	30	1.30	06	0.0		69.7
15	106	31	38	12	2.05	00	0.0		70.1
16	105	36	41	12	1.82	52	0.0		71.4
17	103	36	38	99	.84	28	0.0		70.5
18	105	40	45	14	1.01	43	0.0		70.7
19	104	34	40	11	.87	62	0.0		70.9
20	101	34	40	11	1.28	51	0.0		71.4
21	110	34	40	11	.85	39	0.0		71.2
22	106	34	39	25	.65	29	0.0		71.0
23	106	34	43	04	1.08	98	0.0		71.3
24	109	40	44	05	2.06	34	0.0		71.9
25	105	31	43	04	2.61	53	0.0		71.9
26	106	30	45	11	1.29	63	0.0		72.7
27	105	31	45	25	.97	10	0.0		71.9
28	105	33	41	28	2.45	53	0.0		71.6
29	108	17	44	25	1.20	50	0.0		71.3
30	108	33	40	03	2.06	56	0.0		70.5
31	101	35	41	03	1.50	17	0.0		71.3

* INDICATES PRIOR OCCURRENCE OF INDICATED VALUE

AUGUST DAILY EXTREME VALUES

DAY	MAX	YR	MIN	YR	PREC	YR	SNFL	YR	MEAN TEMP
01	102	30	40	27	1.87	03	0.0		71.6
02	103	30	41	27	2.28	56	0.0		70.4
03	104	30	38	15	.78	44	0.0		70.3
04	105	34	40	15	1.30	11	0.0		70.8
05	97	37	41	15	1.32	00	0.0		71.0
06	103	33	38	02	1.95	00	0.0		70.8
07	98	30	38	04	2.15	09	0.0		69.9
08	104	34	40	04	.80	01	0.0		70.3
09	104	47	38	27	2.81	48	0.0		70.4
10	103	47	42	14	1.27	21	0.0		69.3
11	100	33	33	02	.40	00	0.0		68.3
12	99	22	41	98	1.80	56	0.0		69.0
13	99	38	41	16	1.28	45	0.0		69.0
14	100	28	38	29	1.98	48	0.0		70.6
15	102	37	44	29	1.71	51	0.0		71.4
16	97	35	45	44	.88	28	0.0		70.4
17	96	55	39	43	1.43	16	0.0		69.1
18	98	34	42	32	1.08	04	0.0		69.8
19	97	31	40	27	1.95	99	0.0		69.0
20	97	55	37	50	1.50	24	0.0		67.9
21	99	29	40	39	2.73	16	0.0		68.2
22	96	38	35	23	1.17	54	0.0		68.4
23	98	36	37	27	1.90	55	0.0		67.9
24	105	36	34	34	1.48	05	0.0		66.9
25	98	26	37	34	1.35	60	0.0		67.0
26	93	09	37	14	1.48	21	0.0		66.8
27	98	26	38	14	1.42	27	0.0		67.6
28	97	37	34	35	1.41	32	0.0		66.8
29	97	61	35	11	2.03	28	0.0		66.5
30	95	30	36	15	1.63	39	0.0		66.6
31	94	30	38	28	.93	42	0.0		66.7

* INDICATES PRIOR OCCURRENCE OF INDICATED VALUE

SEPTEMBER DAILY EXTREME VALUES

DAY	MAX	YR	MIN	YR	PREC	YR	SNFL	YR	MEAN TEMP
01	98	13	34	46	1.62	04	0.0		66.5
02	98	29	37	17	1.37	00	0.0		65.4
03	97	25	33	28	1.46	13	0.0		63.8
04	101	33	32	02	1.69	49	0.0		64.3
05	99	45	33	29	1.57	48	0.0		65.3
06	97	22	32	29	.73	48	0.0		63.7
07	101	33	34	99	1.32	11	0.0		63.4
08	98	31	30	07	1.55	21	0.0		63.3
09	103	31	27	98	2.05	00	0.0		61.7
10	104	31	26	98	2.02	33	0.0		60.9
11	96	31	25	98	3.15	01	0.0		60.7
12	91	27	24	02	1.23	03	0.0		59.0
13	96	39	25	02	1.52	14	0.0		59.6
14	96	39	32	49	2.30	28	0.0		59.4
15	96	55	29	16	.65	62	0.0		58.6
16	90	25	25	03	2.35	21	0.0		58.9
17	92	55	24	00	1.07	42	0.0		59.8
18	92	40	23	29	2.85	15	0.0		58.7
19	91	25	24	18	.18	33	0.0		58.2
20	91	41	20	18	.85	61	0.0		56.7
21	97	36	23	34	.90	24	0.0		57.1
22	99	36	22	13	.70	10	0.0		57.0
23	95	35	24	13	.26	62	0.0		57.2
24	91	35	24	42	2.93	34	0.0		54.6
25	87	38	21	26	1.43	01	1.0	12	54.3
26	90	56	24	99	1.26	08	1.2	42	53.3
27	93	56	20	42	.85	15	0.0		52.6
28	87	22	19	42	.20	04	0.0		53.0
29	87	33	09	99	.50	12	0.0		51.9
30	87	32	20	39	1.00	47	0.0		52.0

* INDICATES PRIOR OCCURRENCE OF INDICATED VALUE

OCTOBER DAILY EXTREME VALUES

DAY	MAX	YR	MIN	YR	PREC	YR	SNFL	YR	MEAN TEMP
01	91	51	25	36	1.11	50	0.0		53.7
02	88	53	28	52	.60	50	0.0		54.8
03	90	38	24	35	.73	03	0.0		54.9
04	90	22	16	35	1.28	46	0.0		53.3
05	90*	63	18	35	1.13	46	0.0		52.9
06	86	58	20	35	.73	57	0.0		51.5
07	85	34	15	52	.69	46	0.0		50.4
08	83	36	13	17	.97	24	0.0		50.1
09	84	55	16	17	1.15	04	0.4	32	49.8
10	86	10	14	35	1.10	61	0.0		50.6
11	88	34	20	59	.55	99	0.0		49.7
12	84	34	12	17	1.81	43	3.0	59	48.8
13	85	58	14	17	.38	43	0.0		49.0
14	89	33	10	37	.56	05	0.0		49.1
15	88	58	19	07	2.20	99	0.0		50.9
16	88	10	20	25	.70	11	1.0	37	48.2
17	85	10	19	48	.38	15	0.5	05	47.4
18	82	14	14	25	1.05	10	0.1	25	46.9
19	81	58	14	30	.38	18	1.0	16	45.6
20	84	47	13	16	2.50	06	0.0		44.3
21	83	47	07	30	.52	59	2.3	51	44.8
22	78	15	13	36	.70	18	0.9	51	43.4
23	79	27	06	17	.23	47	0.0		42.6
24	78	44	09	17	.47	19	0.0		43.7
25	84	27	11	42	.74	02	1.5	19	42.5
26	85	27	05	36	.76	54	1.5	19	41.0
27	76	44	12	42	.35	31	1.0	23	40.4
28	79	37	01	19	.43	42	1.0	13	40.3
29	78	37	-02	25	2.05	56	2.0	29	40.3
30	85	50	03	25	.35	29	4.0	32	38.9
31	78	33	10	30	1.06	40	0.5	35	39.0

* INDICATES PRIOR OCCURRENCE OF INDICATED VALUE

NOVEMBER DAILY EXTREME VALUES

DAY	MAX	YR	MIN	YR	PREC	YR	SNFL	YR	MEAN TEMP
01	71	38	-02	11	.72	20	4.0	20	37.4
02	69	04	02	51	.63	61	4.0	61	36.2
03	72	17	01	51	.55	18	2.8	26	36.4
04	73	09	01	51	.39	56	2.0	59	37.7
05	68	16	-01	51	.48	22	1.9	59	35.9
06	74	09	-05	59	.45	46	4.6	47	36.4
07	69	31	02	25	1.12	44	7.2	43	35.0
08	77	31	01	36	.36	20	2.7	43	33.3
09	71	30	01	21	.43	19	5.0	32	33.2
10	70	30	-02	26	1.37	19	3.5	19	32.7
11	64	30	00	40	.79	49	2.2	40	31.3
12	65	41	-09	11	.41	45	1.1	38	30.8
13	68	39	-09	40	.50	22	4.0	22	30.2
14	68	53	-11	40	.80	09	4.0	09	29.3
15	71	53	-05	32	.33	47	4.9	47	29.8
16	69	53	-08	59	1.20	18	5.0	11	30.5
17	67	53	-06	59	1.40	58	8.0	58	30.3
18	67	08	-06	27	.20	58	2.0	58	29.5
19	65	24	-09	14	.38	30	1.0	48	29.7
20	64	62	-13	21	.86	47	5.0	47	30.0
21	61	60	-11	29	.38	53	4.0	53	26.8
22	57	39	-10	98	.51	63	1.5	56	25.4
23	54	13	-15	98	.30	62	3.8	62	25.6
24	60	23	-05	50	1.45	05	1.1	47	27.0
25	66	60	-08	00	.27	59	3.0	59	26.7
26	59	41	-14	98	.20	31	4.0	31	25.6
27	60	41	-09	38	.24	35	1.3	35	24.7
28	61	41	-07	47	1.09	60	5.0	60	25.0
29	57	32	-13	47	.05	19	0.5	40	24.5
30	59	32	-14	05	.63	22	2.0	08	23.9

* INDICATES PRIOR OCCURRENCE OF INDICATED VALUE

DECEMBER DAILY EXTREME VALUES

DAY	MAX	YR	MIN	YR	PREC	YR	SNFL	YR	MEAN TEMP
01	56	62	-10	26	.47	45	4.0	45	23.4
02	56	41	-16	40	.21	09	1.5	02	23.8
03	64	41	-12	40	1.33	53	11.0	53	23.8
04	57	16	-18	27	.90	60	5.0	26	21.7
05	59	39	-16	50	.22	36	4.0	36	20.3
06	69	39	-17	36	.17	35	1.0	27	19.8
07	56	18	-17	36	.60	27	5.0	27	18.3
08	54	39	-27	27	.64	24	3.0	61	16.8
09	59	39	-24	27	.35	18	2.0	61	16.2
10	53	28	-20	17	.47	49	1.0	44	16.8
11	57	13	-20	45	.50	09	4.0	32	16.9
12	57	13	-24	32	.16	37	2.0	37	15.6
13	57	13	-32	17	.37	20	3.0	20	13.9
14	48	39	-33	17	1.10	55	5.2	55	14.1
15	56	39	-28	01	.40	02	4.0	02	15.1
16	58	39	-24	14	.25	04	3.0	15	16.8
17	58	39	-23	14	.27	08	3.0	15	14.8
18	56	23	-24	55	.15	61	2.0	61	15.7
19	51	23	-28	55	.10	16	1.0	51	15.8
20	55	41	-30	16	.10	51	1.0	28	16.0
21	55	00	-31	16	.50	18	0.7	11	16.7
22	47	57	-29	16	.32	18	4.0	35	17.6
23	51	99	-12	51	.30	07	4.3	45	16.3
24	44	63	-20	21	.40	31	6.0	31	15.7
25	49	43	-24	02	.20	99	2.0	99	15.2
26	45	59	-26	02	.15	59	2.0	04	15.5
27	50	28	-27	24	.25	46	2.0	35	12.6
28	47	98	-24	24	.27	27	3.0	27	14.1
29	45	29	-32	17	.30	07	3.0	23	14.2
30	49	12	-29	17	.38	44	4.3	44	14.5
31	51	04	-22	98	.29	44	4.0	31	13.0

* INDICATES PRIOR OCCURRENCE OF INDICATED VALUE

Note: Missing daily values have been estimated from nearby station. Estimates for missing data in Weather Bureau publications have been made only for monthly values, therefore some values may differ from previously published data.

1898-1963

MEAN MINIMUM TEMPERATURE

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNL
98	8.1	5.2	16.5	29.4	41.3	49.5	53.5	51.2	44.2	30.4	13.2	2.0	28.7
99	-1.1	-6.3	4.3	28.2	42.0	52.5	51.6	56.0	37.1	32.2	28.9	5.0	27.5
00	6.3	-6.8	13.9	35.4	43.4	50.7	54.8	60.9	46.6	41.2	15.9	11.6	31.2
01	4.3	0.2	18.4	34.6	43.7	52.2	60.6	52.8	43.7	33.5	15.7	4.1	30.3
02	5.9	4.9	20.3	28.3	43.7	46.7	56.0	53.3	40.5	33.7	22.1	0.7	29.7
03	1.4	-2.8	19.4	30.5	42.9	49.1	54.5	53.5	42.4	34.8	17.7	0.1	28.6
04	-4.4	-6.4	16.8	29.2	40.4	50.8	51.7	51.2	44.7	36.8	21.6	5.8	28.2
05	-6.4	-3.7	24.7	30.1	38.6	50.5	53.0	56.1	48.3	31.1	22.2	11.2	29.6
06	9.6	5.0	12.2	35.7	43.8	50.5	52.9	55.7	49.2	33.3	20.3	6.9	31.3
07	-7.7	6.6	20.5	24.2	34.0	53.1	55.8	53.5	41.8	28.3	17.5	10.5	28.2
08	7.5	8.6	19.3	33.8	42.3	52.9	57.1	51.9	51.0	35.3	25.3	11.2	33.0
09	2.4	7.8	20.6	25.1	41.8	54.8	58.8	60.5	47.3	34.4	22.3	1.5	31.4
10	4.2	-2.0	31.8	34.7	38.7	53.0	57.5	53.2	46.3	37.9	20.1	8.2	32.0
11	-3.5	7.3	20.3	31.5	45.4	56.2	53.0	51.7	45.2	33.4	8.0	9.8	29.9
12	-14.5	4.2	5.9	31.8	43.0	49.6	56.5	52.0	41.1	31.7	21.8	6.4	27.5
13	-3.0	-1.4	7.1	32.2	40.9	54.5	54.7	57.0	45.8	27.6	25.8	13.0	29.5
14	6.8	-6.7	16.5	28.7	44.2	54.2	59.3	52.1	44.9	37.4	21.0	-3.1	29.6
15	-2.6	13.3	15.2	38.9	40.2	48.2	53.6	48.6	44.9	34.7	22.4	8.4	30.5
16	-11.2	-4.3	15.2	29.5	40.6	48.8	65.0	56.2	43.3	27.8	16.8	-4.9	26.9
17	-5.1	-8.6	13.8	29.4	37.8	49.0	57.5	51.4	45.8	23.8	25.5	-5.0	26.3
18	-7.8	0.2	22.9	26.0	41.6	52.9	53.6	56.7	39.8	38.3	24.8	15.3	30.4
19	13.9	7.7	18.6	34.0	43.8	58.9	61.0	55.0	49.2	30.1	14.5	4.2	32.6
20	0.9	7.3	17.7	25.6	43.8	55.3	57.3	52.4	50.8	40.3	22.4	11.9	32.1
21	11.1	13.8	20.8	34.2	44.7	59.2	60.5	56.1	48.1	36.0	15.1	12.2	34.3
22	0.7	-5.3	21.3	33.9	47.3	55.2	55.3	58.7	49.5	36.5	28.4	5.6	32.3
23	7.3	0.0	10.9	30.4	43.3	56.7	61.7	54.1	50.1	33.2	25.8	15.0	32.4
24	-4.8	10.0	17.1	31.2	35.5	50.5	54.6	54.7	44.9	39.6	19.8	-2.3	29.2
25	-1.1	10.5	20.5	38.3	38.5	52.3	54.2	55.2	49.4	24.2	20.2	7.8	30.8
26	1.4	15.3	14.8	26.5	46.9	49.1	56.9	55.8	44.7	33.5	15.4	2.7	30.3
27	5.4	11.5	23.5	33.4	40.7	50.4	54.2	50.9	48.7	36.5	17.1	-6.9	30.5
28	4.4	11.1	19.8	23.4	43.6	47.1	57.0	55.4	42.5	34.5	22.3	14.4	31.3
29	-12.0	-6.4	24.1	33.3	38.8	49.7	57.7	54.6	44.5	35.1	16.7	7.0	28.6
30	-7.8	18.4	18.8	34.6	42.1	52.3	59.6	59.1	44.8	34.2	22.1	14.0	32.7
31	13.9	19.3	19.4	32.7	39.9	57.5	60.4	56.8	53.5	39.4	24.2	17.1	36.2
32	3.8	9.0	12.5	36.0	46.1	57.2	58.8	57.8	43.6	32.8	19.2	4.9	31.8
33	12.4	3.5	20.3	31.2	45.5	60.2	60.1	55.0	52.0	31.2	21.2	6.0	33.2
34	9.9	9.3	17.0	32.1	51.8	56.7	60.7	54.3	42.0	40.0	26.3	8.4	34.0
35	0.6	19.2	24.6	31.9	41.6	51.2	64.7	57.5	46.7	31.1	15.7	8.0	32.7
36	-11.5	-15.7	20.5	26.4	50.1	54.6	66.0	60.5	50.3	30.7	19.3	10.5	30.1
37	-10.3	1.3	17.9	31.9	48.0	53.9	60.8	63.5	48.6	33.7	18.6	5.4	31.1
38	2.0	6.7	24.3	34.7	44.1	54.7	60.2	59.8	50.2	41.9	17.9	12.7	34.1
39	10.4	-4.1	18.2	31.1	49.6	55.0	60.7	56.6	49.0	34.7	23.9	17.7	33.6
40	-5.9	8.7	18.9	28.9	40.6	52.3	59.8	55.2	50.4	28.9	14.8	13.3	31.3
41	3.5	0.5	16.8	39.7	47.6	54.2	58.8	57.6	48.4	34.9	21.1	13.0	33.0
42	7.8	8.2	23.9	35.4	42.2	53.7	56.3	56.4	42.2	32.2	18.7	3.0	31.7
43	-8.0	4.1	11.1	31.8	39.9	54.7	60.4	57.9	43.4	34.7	21.5	9.9	30.1
44	13.0	4.6	11.6	29.5	48.0	54.1	57.3	55.8	46.9	34.9	26.9	9.1	32.6
45	6.5	7.7	25.1	28.9	38.3	49.7	58.1	57.1	46.2	33.0	19.7	0.6	30.9
46	-0.9	1.9	26.2	35.8	39.4	53.6	60.2	54.9	46.3	35.2	18.9	10.3	31.8
47	10.3	1.9	17.4	31.2	38.8	51.3	57.1	61.7	47.0	42.2	14.5	3.4	31.4
48	-3.0	-0.3	12.9	35.0	42.5	52.8	59.9	57.0	50.9	35.1	23.3	6.9	31.1
49	-2.7	-1.9	17.8	30.7	46.3	53.2	59.1	58.7	43.1	35.8	27.1	6.5	31.1
50	-10.3	5.2	13.7	25.6	40.8	51.5	54.7	52.0	46.9	36.9	13.6	2.8	27.8
51	-4.8	8.2	8.1	30.2	44.9	49.1	57.1	55.1	42.5	33.3	14.8	0.6	28.3
52	-2.8	9.7	12.9	33.4	42.2	55.4	57.7	55.2	47.4	29.2	20.3	10.7	30.9
53	3.1	9.8	20.7	28.4	42.6	55.3	57.3	60.1	45.7	39.0	24.1	7.7	32.6
54	-6.0	21.7	15.7	31.2	37.9	54.5	59.9	56.2	48.3	34.8	25.8	13.0	32.8
55	4.4	-1.6	12.7	37.5	47.2	53.6	62.9	60.0	46.0	34.7	9.7	-1.1	30.5
56	-2.2	-2.4	13.7	25.3	43.0	58.5	56.0	56.6	42.2	37.1	19.6	12.1	30.0
57	-6.0	6.0	18.1	30.9	42.1	52.1	62.7	57.0	44.1	37.6	22.8	14.6	31.8
58	9.3	1.4	21.6	31.6	43.7	48.2	55.8	56.0	48.1	35.7	19.7	2.3	31.1
59	-2.8	-1.2	22.0	30.2	43.7	56.2	57.0	60.2	47.2	30.6	13.6	18.5	31.3
60	1.8	2.3	3.4	32.1	42.4	51.8	58.3	58.0	48.1	34.3	20.2	6.9	30.0
61	-1.1	10.1	24.9	26.1	40.5	54.0	56.0	59.4	43.8	35.0	20.2	2.1	30.9
62	-3.0	3.3	16.5	29.6	48.1	55.0	57.7	56.7	43.8	36.6	25.2	8.5	31.5
63	-7.8	3.8	22.3	33.6	43.9	57.9	61.2	57.6	50.3	43.5	23.7	0.1	32.5

MEAN MAXIMUM TEMPERATURE

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNL
98	29.7	30.8	40.6	57.8	66.6	79.5	82.0	81.0	75.1	50.8	37.1	23.8	54.6
99	19.9	14.0	25.0	57.2	64.9	75.4	83.7	81.2	68.9	59.2	48.9	26.6	52.1
00	30.4	19.4	38.3	62.6	73.9	82.9	81.2	86.5	69.0	66.4	36.5	31.0	56.5
01	26.7	23.8	38.1	56.8	71.1	75.2	85.9	81.4	65.0	61.1	40.8	23.3	54.1
02	26.0	26.2	40.2	55.9	69.5	73.3	81.7	78.0	69.6	61.2	39.1	19.1	53.3
03	22.6	19.6	37.9	56.5	68.2	74.6	78.0	75.3	67.1	61.1	38.8	23.7	52.0
04	14.8	14.3	36.0	51.0	65.5	73.2	77.5	77.3	71.0	60.2	48.9	27.4	51.5
05	15.4	21.7	46.1	54.9	62.1	73.1	77.7	81.6	74.6	53.2	45.2	28.8	52.9
06	28.9	27.9	28.4	58.9	65.5	72.0	77.0	77.6	72.2	54.4	35.7	26.3	52.1
07	11.9	24.5	39.6	44.4	56.2	70.1	76.1	79.2	66.0	58.7	44.8	32.9	50.4
08	32.3	25.6	37.7	59.4	65.6	71.9	79.7	78.1	78.4	56.4	44.9	28.0	54.8
09	20.5	26.1	36.1	46.7	67.5	76.7	80.7	85.6	73.5	55.8	43.0	16.1	52.5
10	21.1	20.0	58.1	63.0	65.8	79.9	86.2	80.3	72.0	66.2	36.6	28.3	56.5
11	19.1	28.0	49.3	54.3	75.2	85.6	83.6	77.5	70.4	51.7	29.2	26.1	54.2
12	07.7	23.2	33.5	60.0	67.9	74.7	79.9	77.9	69.7	62.1	49.1	32.1	53.1
13	23.3	23.4	32.7	58.1	63.2	80.8	79.7	85.4	71.6	53.8	49.0	37.6	54.9
14	26.6	17.2	37.8	54.4	67.8	76.5	86.0	81.1	73.5	64.6	46.9	20.0	54.4
15	20.7	29.4	32.7	66.3	61.6	70.8	74.6	76.8	69.0	61.6	45.5	27.9	53.1
16	12.2	18.8	37.4	51.2	66.0	70.6	86.7	78.5	68.8	56.0	43.7	20.4	50.9
17	16.9	15.4	35.0	48.7	65.7	72.5	85.3	79.5	68.8	47.0	51.4	15.8	50.2
18	11.0	27.3	48.3	52.5	70.4	76.3	80.8	82.1	69.1	63.0	38.9	31.8	54.3
19	32.5	23.7	38.8	54.4	68.4	77.2	85.1	84.0	75.7	51.7	32.6	21.8	53.8
20	20.1	28.2	41.0	45.5	68.2	75.9	81.6	81.7	74.4	66.2	37.6	28.8	54.1
21	31.8	39.1	46.8	60.3	69.2	85.1	85.7	81.9	71.2	62.7	33.8	30.8	58.2
22	22.3	18.5	37.4	56.9	70.2	80.2	81.4	87.5	79.0	64.6	41.4	26.0	55.5
23	27.0	22.2	35.4	55.5	69.6	77.6	84.8	80.1	75.1	57.3	49.1	39.1	56.1
24	20.2	34.1	37.0	57.4	62.0	72.6	79.9	78.1	67.5	69.3	43.3	18.7	53.3
25	21.8	31.6	49.5	65.6	68.4	74.5	80.2	85.6	76.1	44.2	41.5	24.7	55.3
26	24.5	33.1	37.8	58.8	74.8	73.8	83.6	80.6	66.6	57.0	31.8	23.1	53.8
27	22.7	29.5	41.1	53.9	61.1	73.9	77.2	77.0	73.3	64.4	34.9	11.9	51.7
28	23.8	29.8	44.8	50.5	74.6	73.6	83.3	82.5	68.8	56.7	42.3	33.5	55.4
29	09.9	15.5	41.6	55.6	64.1	77.2	85.5	84.7	66.6	59.4	35.8	24.7	51.7
30	13.1	38.3	40.2	60.3	66.8	77.3	91.6	87.7	74.1	54.8	44.1	32.1	56.7
31	37.4	42.9	42.4	61.4	67.0	86.2	89.5	83.1	81.3	62.7	46.7	32.9	61.1
32	21.3	29.5	31.0	55.8	72.6	82.7	88.4	85.6	76.1	54.4	39.8	24.8	55.2
33	32.7	25.3	42.6	56.5	68.3	93.2	92.3	85.1	80.3	61.4	42.0	26.3	58.8
34	29.5	31.5	41.0	58.3	85.0	84.8	90.8	84.9	68.6	65.0	45.8	23.2	59.0
35	18.2	36.3	44.3	49.5	62.7	74.4	91.0	85.0	78.2	59.7	33.5	24.0	54.7
36	07.2	03.1	39.3	52.9	75.0	80.4	96.7	87.7	79.1	57.4	33.9	25.2	53.2
37	07.4	20.2	34.0	49.1	70.4	76.4	87.1	88.6	74.3	56.0	38.3	24.2	52.2
38	18.7	24.2	44.2	59.1	64.2	78.4	85.2	85.7	76.5	68.0	38.4	30.0	56.3
39	27.3	16.2	42.2	57.2	77.5	78.4	86.3	84.1	78.2	58.6	49.9	38.8	58.1
40	14.7	26.0	32.0	50.4	68.4	77.1	87.9	77.1	76.5	66.0	31.6	29.1	53.1
41	21.9	21.1	34.7	56.2	72.2	75.9	85.0	84.5	72.6	58.7	42.1	34.2	54.9
42	28.8	27.4	41.6	60.8	60.6	72.2	79.9	79.0	64.1	57.6	41.9	22.9	53.1
43	12.0	27.8	30.9	57.2	62.9	75.0	85.6	81.5	67.8	60.6	35.5	32.8	52.5
44	34.6	26.6	30.3	49.2	71.1	76.5	82.0	79.6	70.1	62.2	38.8	26.6	54.0
45	20.8	27.2	47.1	51.4	62.0	67.9	80.6	80.7	68.1	60.5	35.3	17.0	51.6
46	23.0	24.3	47.0	62.1	63.1	76.7	81.8	78.6	68.7	54.7	37.5	26.6	53.7
47	28.8	21.5	34.0	47.4	62.9	71.6	82.4	87.7	72.1	65.2	31.3	22.8	52.3
48	18.3	20.4	31.9	57.4	67.3	72.7	83.5	81.2	75.8	59.4	39.4	28.1	53.0
49	16.0	22.0	37.2	60.1	72.0	79.3	84.9	85.1	67.5	57.6	46.9	27.4	54.7
50	11.1	26.7	31.6	41.4	62.5	79.1	78.5	76.8	71.5	60.8	35.0	22.4	49.8
51	16.4	28.5	25.8	49.4	68.6	70.5	79.0	76.4	64.8	54.5	35.2	18.6	49.0
52	18.8	27.4	28.5	58.1	67.4	80.3	83.6	80.7	77.2	56.8	42.4	28.8	54.2
53	22.9	25.6	38.8	46.8	65.3	77.4	81.4	82.0	72.9	67.0	45.0	27.3	54.4
54	15.2	39.9	33.7	54.5	61.7	75.1	84.3	81.1	68.7	53.4	47.0	30.6	53.8
55	24.8	20.0	36.2	65.5	74.3	74.8	86.3	85.6	72.6	62.2	30.3	17.9	54.2
56	18.5	21.7	33.4	48.6	67.2	82.4	79.2	80.3	70.9	67.4	38.4	31.7	53.3
57	15.2	27.7	38.1	54.0	62.9	74.4	87.7	80.2	68.5	54.3	38.7	33.9	53.0
58	29.8	25.4	36.3	55.0	72.7	71.9	79.2	85.5	74.8	63.5	41.9	22.1	54.8
59	16.2	21.5	42.8	56.4	67.3	81.9	86.2	86.3	71.5	51.7	30.3	33.8	53.8
60	20.1	21.4	25.1	52.4	66.6	74.0	85.8	83.4	72.5	61.2	43.5	24.4	52.7
61	22.2	29.6	42.9	49.5	63.2	80.1	82.0	86.8	67.5	61.1	39.8	22.9	54.0
62	17.3	20.5	31.3	54.1	66.9	74.4	77.6	82.5	68.2	61.8	44.4	29.1	52.3
63	13.7	27.3	45.4	56.8	66.2	79.5	81.5	80.8	72.8	68.7	45.8	20.1	54.9

MONTHLY AND SEASONAL SNOWFALL

SEASON	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	TOTAL
98-99	0	0	1.5	0	0	0	3.0	0	0	4.5
99-00	0	0		2.5	1.5	5.5	14.5	0	0	24.0
00-01	0	0	1.3	1.0	1.4	2.5	3.8	3.3	0	13.3
01-02	0	0	0.2	4.0	2.5	0.7	4.0	0	0	11.4
02-03	0	0	1.0	10.5	1.5	1.3	0.3	1.0	0	15.6
03-04	0	0	1.6	4.5	1.7	4.6	1.1	0.2	0	13.7
04-05	0	0	0	6.3	5.7	8.0	1.6	0.5	0	22.1
05-06	0	3.5	2.7	0	0.1	1.5	11.2	0	0	19.0
06-07	0	0	2.0	2.9	15.9	9.3	11.2	3.0	6.0	50.3
07-08	0	0	0	8.0	2.5	9.3	13.0	2.0	0	34.8
08-09	0	0	2.0	4.0	11.0	6.0	1.0	0	0	24.0
09-10	0	0	6.0	2.3	0	4.0	0	4.0	0	16.3
10-11	0	0	0	3.0	9.0	4.0	0	4.5	0	20.5
11-12	0	0	7.3	3.4	1.0	2.5	4.5	0	0	18.7
12-13	1.0	0	0	2.5	1.5	2.0	0.5	6.0	0	13.5
13-14	0	1.0	0.5	0	3.5	5.0	2.0	2.0	0	14.0
14-15	0	0	0	2.3	3.9	7.7	5.5	0	0	19.4
15-16	0	0	0	9.0	27.0	9.5	3.0	1.0	0.5	50.0
16-17	0	1.0	0.2	4.5	12.0	1.0	14.0	5.7	0	38.4
17-18	0	0	1.0	4.0	3.0	3.0	5.0	0	0	16.0
18-19	0	0	0.5	6.5	0.5	18.5	1.0	0	0	27.0
19-20	0	4.0	9.5	0.2	5.5	6.0	14.0	0	0	39.2
20-21	0	0	4.0	4.0	0	1.0	6.0	0	0	15.0
21-22	0	0	11.0	1.0	11.5	22.0	3.5	0	0	49.0
22-23	0	0	4.5	2.5	6.2	1.0	6.2	6.0	0	26.4
23-24	0	1.0	0.5	4.0	1.0	3.5	18.0	8.0	0	36.0
24-25	0	0	3.2	2.0	4.8	0.7	0	0	0	10.7
25-26	0	0.4	1.0	1.0	8.8	0.6	2.5	2.0	0	16.3
26-27	0	0	4.5	7.6	3.5	1.2	6.5	0	0	23.3
27-28	0	0	1.0	15.0	1.3	0	0	5.2	0	23.4
28-29	0	0	0	7.6	15.9	5.3	6.0	4.0	0	33.8
29-30	0	2.0	3.7	3.5	8.8	8.5	2.5	0	0	29.0
30-31	0	0	3.9	0.5	0.7	5.2	4.7	0.5	0	15.5
31-32	0	0	7.0	10.0	10.5	0.2	4.5	3.2	0	35.4
32-33	0	4.9	7.5	4.2	0.5	0	5.0	0	0	22.4
33-34	0	0	2.5	2.0	1.3	0.4	5.3	0	0	11.5
34-35	0	0	0.5	1.6	6.0	1.5	0.3	11.0	0	20.9
35-36	0	0.5	2.4	12.1	7.2	17.7	4.7	2.3	0	46.9
36-37	0	0	8.2	5.3	13.1	4.6	20.0	8.0	0	59.2
37-38	0	1.0	4.2	11.8	10.3	6.7	12.6	7.5	0	54.1
38-39	0	0	3.4	4.5	9.2	10.6	3.1	0	0	30.8
39-40	0	0		1.0	3.0	5.1	11.8	0	0	20.9
40-41	0	0	10.0	8.4	10.2	2.4	5.1	0.6	0	36.7
41-42	0	0	2.0	4.9	0.4	2.4	4.3	0.3	0	14.3
42-43	1.2	0	1.4	4.2	9.4	10.0	10.5	0	0	36.7
43-44	0	0	13.6	0	0.7	3.3	8.0	0.1	0	25.7
44-45	0	0	3.4	10.2	8.7	11.4	4.7	11.5	0	49.9
45-46	0	0	2.3	14.0	1.4	24.7	6.3	0	0	48.7
46-47	0	0	5.5	1.7	3.1	5.9	3.4	6.7	0	26.3
47-48	0	0	23.3	1.0	5.9	9.4	7.5	7.5	0	54.6
48-49	0	0	1.2	0.7	6.1	0.1	3.0	0	0	11.1
49-50	0	0	0.2	1.5	4.8	0	3.7	6.8	1.0	18.0
50-51	0	0	0.2	2.0	5.4	2.9	19.3	0.2	0	30.9
51-52	0	4.6	0.3	7.4	5.6	9.0	7.1	0	0	34.0
52-53	0	0	0.9	2.8	11.6	16.1	3.4	3.6	0.1	38.5
53-54	0	0	8.4	14.3	3.1	3.6	9.7	1.8	4.0	44.9
54-55	0	0	1.8	0.2	2.7	9.5	0.7	0	0	14.9
55-56	0	0	5.2	22.3	11.1	3.1	5.0	0.7	0	47.4
56-57	0	0	4.4	0.4	2.1	9.3	4.4	7.0	0	27.6
57-58	0	0	0	2.7	0.4	1.1	4.2	2.1	0	10.5
58-59	0	0	11.7	3.0	5.0	8.9	0.5	1.0	0	30.1
59-60	0	4.8	9.6	1.4	6.7	0.7	7.4	5.0	0	35.6
60-61	0	0	5.0	2.8	0.3	4.6	3.8	3.0	0	19.5
61-62	0	0	4.0	7.8	4.7	12.6	14.8	2.0	0	45.9
62-63	0	0	3.8	0.2	6.0	2.8	13.5	1.8	0	28.1

TOTAL PRECIPITATION

YR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANNL
98	.00	.35	1.10	1.72	3.25	1.65	4.54	1.93	1.53	1.32	.15	.00	17.54
99	.19	.00	.30	2.02	3.79	2.85	.95	5.03	.45	2.75	.53	.25	19.11
00	.15	.52	1.45	1.30	.56	2.17	6.73	7.67	4.74	1.45	.12	.10	26.96
01	.13	.25	.38	1.63	1.98	5.61	2.27	2.89	7.00	1.87	.08	.14	24.23
02	.25	.07	1.29	1.25	3.25	1.70	2.35	3.34	.13	1.75	.44	1.05	16.90
03	.15	.13	.53	1.20	3.73	2.26	4.48	5.76	4.52	1.91	.14	.43	25.24
04	.20	.46	.10	.93	1.34	4.60	5.08	2.27	1.87	2.24	.01	.34	19.44
05	.77	.72	.59	1.46	2.53	5.46	5.12	2.86	2.17	2.02	1.97	.00	25.67
06	.26	.30	.78	2.12	4.30	3.44	1.63	4.25	1.25	3.07	.75	.47	22.62
07	1.85	.93	1.74	.56	2.71	2.79	2.80	.39	.96	1.36	.00	.80	16.67
08	.25	1.40	1.20	3.25	3.06	6.12	.88	2.37	1.82	1.48	1.50	.47	23.80
09	1.09	.67	.10	.35	4.56	3.23	3.38	5.26	.50	1.65	1.14	1.72	23.65
10	.00	.40	.00	2.75	.39	2.78	3.16	3.17	1.20	1.05	.30	.20	15.40
11	.80	.31	.30	.85	2.14	1.51	1.87	2.82	1.85	4.24	.96	.34	17.99
12	.10	.35	.22	5.16	4.30	2.55	5.01	2.29	2.61	.41	.00	.30	23.30
13	.10	.10	.21	3.04	3.86	4.30	3.77	1.39	2.28	1.13	.27	.13	20.58
14	.52	.38	.42	2.72	3.69	8.99	.95	1.30	2.64	1.84	.00	.30	23.75
15	.40	1.64	.55	1.11	3.01	5.20	3.38	.57	5.49	1.80	.10	.41	23.66
16	1.85	.69	1.09	1.53	3.62	4.40	3.06	7.40	1.25	.37	.02	.65	25.93
17	1.43	.18	1.55	3.03	.46	2.94	2.21	1.21	3.28	.20	.08	.44	17.01
18	.52	.40	1.12	1.70	4.79	3.95	1.62	2.00	.35	1.53	2.97	1.40	22.29
19	.05	.84	.60	1.75	2.64	6.50	4.10	1.08	.53	1.18	2.47	.02	21.76
20	.15	.32	1.92	1.81	2.58	3.72	2.20	1.42	1.28	.52	1.20	.54	17.66
21	.00	.18	2.05	2.22	2.27	1.64	4.18	5.10	7.22	.15	.90	.16	26.07
22	1.87	2.28	.56	1.56	3.49	2.03	1.82	2.39	.67	.52	2.93	.35	20.47
23	.91	.15	.48	2.65	1.77	5.29	1.41	.63	1.67	.23	.31	.38	15.88
24	.13	.32	2.46	2.72	1.72	5.86	2.96	5.83	1.52	1.50	.32	.87	26.31
25	.77	.13	.08	2.73	.68	7.27	1.75	2.44	1.44	.29	.57	.37	18.52
26	.49	.06	.27	.19	3.58	2.24	2.19	1.25	2.99	2.06	.57	.73	16.62
27	.24	.16	.90	4.19	3.49	2.29	5.11	2.30	.97	.56	.39	1.48	22.08
28	.18	.38	.05	.61	.60	2.33	2.09	4.41	3.22	1.58	.70	.26	16.41
29	.85	.45	.93	2.31	1.35	1.27	2.77	1.91	3.17	2.10	.45	.20	17.76
30	.54	.63	.17	.94	2.93	3.42	.88	1.54	1.28	1.09	2.13	.02	15.57
31	.03	.31	.58	1.38	8.16	1.91	1.37	1.19	1.16	1.48	.88	.82	19.27
32	.60	.02	.76	4.21	2.37	5.31	1.74	2.47	1.66	1.57	.47	.38	21.56
33	.11	.00	.70	.70	2.65	1.67	1.33	1.99	2.49	.03	.31	.34	12.32
34	.19	.04	1.02	.17	.99	3.51	5.65	2.81	4.53	1.43	.39	.20	20.93
35	.40	.34	1.58	2.91	1.83	4.61	3.26	3.56	.17	.22	.54	.92	20.34
36	.57	1.21	.53	2.02	1.81	2.29	.68	3.06	.30	.35	1.05	.49	14.56
37	1.00	.36	1.91	4.62	2.30	4.40	.92	2.54	1.44	.73	.39	.83	21.44
38	.81	.57	1.20	3.36	4.05	2.72	2.28	2.23	2.63	.12	.38	.29	20.64
39	1.68	.85	.24	1.17	3.91	6.11	2.46	2.79	.73	.87	.02	.10	20.93
40	.12	.70	3.16	1.77	.60	3.50	1.64	5.40	1.19	1.62	1.15	.47	21.52
41	1.45	.09	.40	3.88	3.36	2.66	1.52	1.95	1.54	1.65	.14	.24	18.88
42	.02	.08	1.56	2.83	6.80	1.91	2.46	3.39	5.20	1.08	.14	.37	25.84
43	.92	1.35	1.96	.48	3.15	5.65	3.69	3.48	2.51	2.69	1.42	.00	27.32
44	.58	.32	.52	2.16	2.25	2.57	2.24	3.21	2.28	.11	1.79	.68	18.71
45	.41	.95	1.12	1.89	5.22	2.86	2.12	2.76	2.41	.32	.50	1.10	21.66
46	.07	1.67	2.23	.67	2.74	6.00	2.37	.68	3.86	4.53	1.14	.36	26.32
47	.31	.27	.68	3.50	.99	4.18	1.00	1.65	2.80	1.98	2.64	.03	20.03
48	.26	1.04	.38	3.60	.51	5.52	2.88	5.63	3.11	1.26	.31	.07	24.57
49	.54	.01	.41	.36	3.31	2.09	4.55	.79	2.55	1.42	.97	.82	17.82
50	.41	.03	.65	1.85	3.21	.33	6.14	1.71	1.37	1.83	.42	.26	18.21
51	.20	.21	1.85	.83	2.55	3.82	4.08	5.00	.40	2.24	.08	.80	22.06
52	.77	.91	.73	.31	1.15	5.10	2.92	.82	.47	.00	1.10	.27	14.55
53	.88	1.64	.50	3.86	1.77	8.15	7.77	1.19	.12	.32	1.07	1.85	29.12
54	.37	.65	2.13	1.74	3.10	3.74	.88	1.67	2.42	1.09	.23	.02	18.04
55	.26	1.39	.17	1.26	1.23	4.65	4.74	4.35	.94	.16	.46	3.36	22.97
56	1.33	.20	1.04	1.80	2.88	6.56	4.02	6.25	.70	2.44	.97	.16	28.35
57	.21	.99	.44	3.67	5.68	2.75	.46	3.47	1.98	2.42	.51	.42	23.00
58	.10	.49	.44	1.46	1.34	1.73	1.35	.77	1.28	.10	2.53	.24	11.83
59	.39	.74	.06	.64	3.77	.96	1.74	2.20	1.20	1.79	1.14	.56	15.19
[illegible]	.68	.26	.87	2.64	2.49	3.81	1.29	4.40	1.59	.46	1.13	1.08	20.70
1	.05	.50	.49	1.53	5.58	4.05	.79	2.03	2.31	1.50	.63	.73	20.19
o2	.42	1.67	1.49	2.36	8.75	4.71	4.62	.62	1.84	1.04	.42	.02	27.96
63	.74	.28	1.65	1.24	4.18	3.48	10.36	1.89	1.39	1.11	.61	.61	27.64