U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data,
and Information Service

Climatography of the United States No. 20 1971-2000

National Climatic Data Center
Federal Building
151 Patton Avenue
Asheville, North Carolina 28801
www.ncdc.noaa.gov

Station: BURLEY MUNICIPAL AP, ID **COOP ID: 101303**

Climate Division: ID 7 **NWS Call Sign: BYI** **Elevation: 4,157 Feet** **Lat: 42˚33N** **Lon: 113˚46W**

Temperature (˚F)

	Mean (1)			Extremes										Degree Days (1) Base Temp 65		Mean Number of Days (3)					
Month	Daily Max	Daily Min	Mean	Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Heating	Cooling	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	36.9	19.7	28.3	60+	1994	18	36.6	1998	-30+	1962	22	14.7	1979	1138	0	.0	.0	2.8	10.1	27.5	2.7
Feb	43.9	24.2	34.1	72	1995	24	41.9	1992	-26	1985	1	22.7	1985	867	0	.0	.0	8.0	4.3	23.9	1.0
Mar	52.8	30.1	41.5	78+	1997	19	48.7	1986	-3	1993	1	31.2	1985	731	0	.0	.0	18.0	.8	21.3	@
Apr	61.8	35.8	48.8	89	1994	20	54.9	1987	12+	1983	6	41.6	1975	489	2	.0	.0	25.5	.0	11.4	.0
May	70.5	43.2	56.9	97	1954	19	63.8	1992	19	1967	1	51.7	1975	268	15	.0	.2	29.9	.0	1.9	.0
Jun	80.6	50.0	65.3	102	1990	29	71.1	1988	29	1954	2	60.3	1998	90	98	.2	4.2	30.0	.0	@	.0
Jul	88.6	55.2	71.9	107	2000	30	77.3	1985	33	1981	8	64.6	1993	19	232	1.0	12.3	31.0	.0	.0	.0
Aug	87.8	53.5	70.7	105+	1996	11	74.8	1991	31	1965	31	64.8	1975	30	205	.6	11.5	31.0	.0	.0	.0
Sep	77.0	45.0	61.0	97+	1998	4	68.9	1990	18+	1965	19	55.4	1971	175	55	.0	2.4	29.8	.0	1.9	.0
Oct	64.5	36.0	50.3	91	1992	1	57.8	1988	9	1971	29	45.7	1971	458	1	.0	@	27.5	.1	11.3	.0
Nov	47.7	27.1	37.4	79	1962	3	45.8	1999	-14	1955	15	27.9	2000	827	0	.0	.0	12.1	3.1	22.7	.2
Dec	38.0	19.9	29.0	65	1995	1	35.1	1980	-23	1972	11	16.5	1985	1118	0	.0	.0	3.3	8.8	28.0	2.2
Ann	62.5	36.6	49.6	107	Jul 2000	30	77.3	Jul 1985	-30+	Jan 1962	22	14.7	Jan 1979	6210	608	1.8	30.6	248.9	27.2	149.9	6.1

\+ Also occurred on an earlier date(s)

@ Denotes mean number of days greater than 0 but less than .05

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1948-2001

(3) Derived from 1971-2000 serially complete daily data

Issue Date: February 2004

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Precipitation (inches)

Precipitation Totals

Month	Means/ Medians(1) Mean	Means/ Medians(1) Median	Extremes Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year
Jan	1.18	1.05	.85	1980	12	2.70	1999	.09	1977
Feb	.83	.69	1.72	1986	17	3.81	1986	.02	1988
Mar	1.08	.81	1.13	1989	2	2.85	1993	.04	1977
Apr	.97	.81	.80	1951	28	2.84	1971	.10	1980
May	1.28	1.14	1.34	1991	2	4.35	1998	.03	1992
Jun	.87	.65	.87	1988	26	2.85	1995	.00	1994
Jul	.35	.22	1.00	1952	12	1.22	1975	.00+	1990
Aug	.41	.27	1.18	1968	20	1.31	1989	.01+	1996
Sep	.64	.49	.79	1961	17	2.34	1998	.00+	1987
Oct	.67	.62	.92	1961	21	1.61	2000	.00+	1988
Nov	1.00	.97	1.04	1983	17	2.80	1983	.03	1993
Dec	1.01	.61	1.75	1964	23	4.27	1996	.00	1976
Ann	10.29	9.61	1.75	Dec 1964	23	4.35	May 1998	.00+	Jun 1994

Mean Number of Days (3)

Month	Daily Precipitation >= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	10.1	4.2	.3	.0
Feb	8.1	2.8	.1	@
Mar	8.1	3.3	.3	.1
Apr	7.8	3.2	.3	.0
May	8.7	3.6	.5	.1
Jun	5.8	2.7	.4	.0
Jul	3.0	1.1	.1	.0
Aug	4.3	1.2	.1	.0
Sep	4.2	2.0	.2	.0
Oct	5.0	2.5	.2	.0
Nov	8.7	3.6	.1	@
Dec	8.4	3.5	.2	.0
Ann	82.2	33.7	2.8	.2

Precipitation Probabilities (1)

Probability that the monthly/annual precipitation will be equal to or less than the indicated amount

Monthly/Annual Precipitation vs Probability Levels
These values were determined from the incomplete gamma distribution

Month	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	.19	.29	.46	.63	.80	.98	1.19	1.44	1.79	2.34	2.87
Feb	.08	.15	.26	.37	.50	.64	.80	1.01	1.29	1.76	2.21
Mar	.13	.22	.37	.52	.68	.86	1.07	1.32	1.67	2.25	2.80
Apr	.15	.24	.38	.51	.65	.80	.97	1.18	1.46	1.91	2.35
May	.11	.19	.36	.54	.74	.96	1.22	1.56	2.02	2.80	3.56
Jun	.06	.14	.28	.41	.54	.69	.87	1.08	1.36	1.83	2.29
Jul	.00	.01	.05	.10	.16	.23	.31	.42	.57	.84	1.10
Aug	.02	.04	.08	.14	.20	.28	.37	.49	.67	.96	1.26
Sep	.00	.02	.10	.19	.30	.42	.57	.77	1.05	1.53	2.00
Oct	.00	.12	.25	.36	.46	.57	.69	.83	1.02	1.33	1.61
Nov	.13	.21	.35	.49	.64	.80	.99	1.23	1.54	2.06	2.57
Dec	.02	.08	.20	.34	.50	.69	.92	1.22	1.64	2.36	3.08
Ann	6.27	7.00	7.96	8.71	9.38	10.04	10.73	11.51	12.46	13.86	15.09

\+ Also occurred on an earlier date(s)
\# Denotes amounts of a trace
@ Denotes mean number of days greater than 0 but less than .05
****** Statistics not computed because less than six years out of thirty had measurable precipitation

(1) From the 1971-2000 Monthly Normals
(2) Derived from station's available digital record: 1948-2001
(3) Derived from 1971-2000 serially complete daily data

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Snow (inches)

Snow Totals

Means/Medians (1)

Extremes (2)

Mean Number of Days (1)

Snow Fall >= Thresholds

Snow Depth >= Thresholds

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	4.3	3.7	2	1	6.0	1997	25	12.8	1997	12+	1993	14	7+	1993	4.4	1.8	.4	.1	.0	14.1	7.5	3.5	.4
Feb	3.8	2.3	1	1	8.2	1984	16	12.3	1996	12	1996	5	5	1985	3.0	1.7	.3	.1	.0	7.8	3.9	1.9	.2
Mar	2.1	1.2	#	0	8.4	1985	2	12.5	1985	10	1985	3	3	1985	1.5	.8	.1	.1	.0	2.5	.8	.4	@
Apr	.4	.0	#	0	2.5	1997	5	2.6	1997	3+	1999	10	#	1999	.6	.1	.0	.0	.0	.3	.1	.0	.0
May	.2	.0	#	0	5.0	1975	4	6.0	1975	4	1975	4	#	1999	.1	.1	@	@	.0	.1	.1	.0	.0
Jun	#	.0	#	0	#	1995	5	#+	1995	0	0	0	#	1975	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	1.0	1978	18	1.0	1978	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.2	.0	#	0	1.0	1981	13	2.0	1995	1	1995	22	#	1995	.3	.1	.0	.0	.0	@	.0	.0	.0
Nov	3.4	2.2	#	0	6.0	1977	21	14.4	1985	9+	1985	30	4	1985	2.7	1.4	.4	.1	.0	3.1	1.3	.8	.0
Dec	5.9	3.8	1	1	10.2	1992	29	22.6	1983	12+	1985	2	5	1983	4.3	2.4	.5	.1	@	9.7	4.8	1.5	.2
Ann	20.3	13.2	N/A	N/A	10.2	Dec 1992	29	22.6	Dec 1983	12+	Feb 1996	5	7+	Jan 1993	16.9	8.4	1.7	.5	@	37.6	18.5	8.1	.8

+ Also occurred on an earlier date(s) #Denotes trace amounts

@ Denotes mean number of days greater than 0 but less than .05

-9/-9.9 represents missing values
Annual statistics for Mean/Median snow depths are not appropriate

(1) Derived from Snow Climatology and 1971-2000 daily data

(2) Derived from 1971-2000 daily data

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Freeze Data

Spring Freeze Dates (Month/Day)

Temp (F)	Probability of later date in spring (thru Jul 31) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	6/24	6/16	6/10	6/05	5/31	5/27	5/22	5/16	5/08
32	5/22	5/17	5/13	5/10	5/06	5/03	4/30	4/26	4/20
28	5/14	5/08	5/03	4/30	4/26	4/23	4/19	4/14	4/08
24	5/02	4/24	4/18	4/13	4/08	4/04	3/30	3/24	3/16
20	4/13	4/04	3/28	3/23	3/17	3/12	3/07	2/28	2/19
16	3/30	3/20	3/13	3/07	3/02	2/24	2/18	2/11	2/02

Fall Freeze Dates (Month/Day)

Temp (F)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	8/30	9/05	9/09	9/12	9/16	9/19	9/22	9/26	10/02
32	9/13	9/19	9/23	9/26	9/30	10/03	10/06	10/10	10/16
28	9/26	10/01	10/05	10/09	10/12	10/15	10/19	10/23	10/29
24	10/04	10/10	10/15	10/19	10/23	10/27	10/31	11/04	11/11
20	10/14	10/21	10/26	10/30	11/02	11/06	11/10	11/15	11/21
16	10/31	11/05	11/09	11/13	11/16	11/19	11/22	11/26	12/02

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	137	127	119	113	107	101	94	87	76
32	172	163	157	151	146	140	135	128	119
28	196	187	180	174	168	163	157	150	140
24	229	218	210	203	197	190	184	176	165
20	264	252	244	236	229	222	215	206	194
16	291	280	272	265	258	252	245	236	225

***** Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

0/00 Indicates that the probability of occurrence of threshold temperature is less than the indicated probability.

Derived from 1971-2000 serially complete daily data

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Degree Days to Selected Base Temperatures (˚F)

Heating Degree Days (1)

Base Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1138	867	731	489	268	90	19	30	175	458	827	1118	6210
60	983	727	576	349	150	33	3	7	90	309	677	963	4867
57	890	643	485	271	97	15	0	2	53	228	589	870	4143
55	828	588	429	224	69	8	0	1	35	180	532	808	3702
50	683	460	291	129	23	1	0	0	10	85	395	655	2732
32	239	112	23	2	0	0	0	0	0	1	69	203	649

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	124	168	315	505	770	998	1236	1198	870	567	232	109	7092
55	0	0	8	37	126	317	523	486	215	33	5	0	1750
57	0	0	3	24	92	264	461	425	173	19	2	0	1463
60	0	0	0	12	52	191	371	337	120	7	0	0	1090
65	0	0	0	2	15	98	232	205	55	1	0	0	608
70	0	0	0	0	2	38	122	104	19	0	0	0	285

Growing Degree Units (2)

Base	Growing Degree Units (Monthly)												Growing Degree Units (Accumulated Monthly)											
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
40	6	34	101	247	489	723	955	923	607	313	66	11	6	40	141	388	877	1600	2555	3478	4085	4398	4464	4475
45	0	5	38	141	340	573	800	768	458	190	23	0	0	5	43	184	524	1097	1897	2665	3123	3313	3336	3336
50	0	0	4	67	213	425	645	613	317	88	2	0	0	0	4	71	284	709	1354	1967	2284	2372	2374	2374
55	0	0	0	22	109	287	490	459	195	33	0	0	0	0	0	22	131	418	908	1367	1562	1595	1595	1595
60	0	0	0	4	45	167	339	306	96	9	0	0	0	0	0	4	49	216	555	861	957	966	966	966
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	1	28	81	175	310	452	605	579	399	227	51	6	1	29	110	285	595	1047	1652	2231	2630	2857	2908	2914

(1) Derived from the 1971-2000 Monthly Normals
(2) Derived from 1971-2000 serially complete daily data
Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86

Complete documentation available from:
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Notes

a. The monthly means are simple arithmetic averages computed by summing the monthly values for the period 1971-2000 and dividing by thirty. Prior to averaging, the data are adjusted if necessary to compensate for data quality issues, station moves or changes in station reporting practices. Missing months are replaced by estimates based on neighboring stations.

b. The median is defined as the middle value in an ordered set of values. The median is being provided for the snow and precipitation elements because the mean can be a misleading value for precipitation normals.

c. Only observed validated values were used to select the extreme daily values.

d. Extreme monthly temperature/precipitation means were selected from the monthly normals data.
Monthly snow extremes were calculated from daily values quality controlled to be consistent with the Snow Climatology.

e. Degree Days were derived using the same techniques as the 1971-2000 normals.
Compete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

f. Mean "number of days statistics" for temperature and precipitation were calculated from a serially complete daily data set .
Documentation of the serially complete data set is available from the link below:

g. Snowfall and snow depth statistics were derived from the Snow Climatology.
Documentation for the Snow Climatology project is available from the link under references.

Data Sources for Tables

Several different data sources were used to create the Clim20 climate summaries. In some cases the daily extremes appear inconsistent with the monthly extremes and or the mean number of days statistics. For example, a high daily extreme value may not be reflected in the highest monthly value or the mean number of days threshold that is less than and equal to the extreme value. Some of these difference are caused by different periods of record. Daily extremes are derived from the station's entire period of record while the serial data and normals data were are for the 1971-2000 period. Therefore extremes observed before 1971 would not be included in the 1971-2000 normals or the 1971-2000 serial daily data set. Inconsistencies can also occur when monthly values are adjusted to reflect the current observing conditions or were replaced during the 1971-2000 Monthly Normals processing and are not reconciled with the Summary of the Day data.

a. Temperature/ Precipitation Tables
   1. 1971-2000 Monthly Normals
   2. Cooperative Summary of the Day
   3. National Weather Service station records
   4. 1971-2000 serially complete daily data

b. Degree Day Table
   1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
   2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

c. Snow Tables
   1. Snow Climatology
   2. Cooperative Summary of the Day

d. Freeze Data Table
   1971-2000 serially complete daily data

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/usnormalsprods.html
Snow Climatology Project Description, www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html
Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,
www1.ncdc.noaa.gov/pub/data/special/ serialcomplete_jam_0900.pdf