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: TUSCARORA, NV **COOP ID: 268346**

Climate Division: NV 2 **NWS Call Sign:** **Elevation: 6,170 Feet** **Lat: 41˚19N** **Lon: 116˚13W**

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	36.1	15.8	26.0	62	1963	24	32.5	1986	-25	1963	12	19.1	1972	1211	0	.0	.0	2.7	9.5	30.1	3.1
Feb	39.7	19.1	29.4	69	1986	28	39.1	1995	-23+	1989	5	21.8	1985	997	0	.0	.0	4.6	5.3	26.8	1.4
Mar	45.6	24.5	35.1	69+	1964	30	41.2	1992	-6	1971	2	30.2	1971	930	0	.0	.0	11.6	1.4	27.2	.1
Apr	53.4	29.1	41.3	81	1987	26	49.1	1987	9+	1975	2	34.2	1975	712	0	.0	.0	19.0	.4	21.7	.0
May	62.9	35.5	49.2	88	1966	2	56.0	1992	14+	1964	3	43.9	1977	491	1	.0	.0	27.2	.0	11.9	.0
Jun	73.6	42.5	58.1	94+	1961	22	63.3	1988	22	1995	7	52.6	1975	238	30	.0	.6	29.6	.0	2.4	.0
Jul	83.7	49.7	66.7	98+	1960	18	72.1	1985	29	1986	5	58.5	1993	73	126	.0	5.8	31.0	.0	.2	.0
Aug	82.9	49.4	66.2	99	2000	1	69.9	1986	26	1960	23	59.1	1976	67	102	.0	5.3	31.0	.0	.4	.0
Sep	73.1	41.8	57.5	95	1975	8	63.3	1990	14	1965	18	50.7	1986	253	25	.0	.7	29.3	.0	5.7	.0
Oct	61.3	32.9	47.1	85+	1963	3	53.4	1988	4	1970	27	39.5	1984	557	1	.0	.0	25.6	.2	16.6	.0
Nov	44.2	23.5	33.9	75	1962	1	42.4	1999	-8+	1976	26	26.4	1994	934	0	.0	.0	10.7	4.1	25.8	.4
Dec	37.3	17.3	27.3	72	1962	4	33.0	1980	-25	1972	9	19.1	1990	1169	0	.0	.0	2.8	7.9	29.4	1.9
Ann	57.8	31.8	44.8	99	Aug 2000	1	72.1	Jul 1985	-25+	Dec 1972	9	19.1+	Dec 1990	7632	285	.0	12.4	225.1	28.8	198.2	6.9

\+ 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: 1957-2001

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

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: TUSCARORA, NV

COOP ID: 268346

Climate Division: NV 2 **NWS Call Sign:** **Elevation: 6,170 Feet** **Lat: 41˚19N** **Lon: 116˚13W**

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	1.26	1.09	.96	1963	30	3.21	1980	.26	1976
Feb	.88	.82	.84	1996	5	2.05	1983	.02	1988
Mar	1.11	1.11	.73	1963	28	2.41	1982	.10	1988
Apr	.87	.77	.80+	1975	26	2.68	1978	.14	1989
May	1.42	1.10	1.18	1967	31	3.61	1998	.00	1974
Jun	.92	1.04	1.18	1970	29	2.16	1997	.00	1974
Jul	.50	.31	2.15	1978	28	1.68	1973	.00+	1999
Aug	.31	.19	.80	1961	6	1.60	1976	.00+	1988
Sep	.89	.61	1.05	1976	15	3.17	1976	.00+	1999
Oct	1.03	.82	1.80	1979	19	2.56	1979	.00	1988
Nov	1.43	1.25	1.48	1958	14	3.76	1983	.25	1993
Dec	1.32	.97	1.63	1964	23	4.51	1983	.00	1976
Ann	11.94	11.02	2.15	Jul 1978	28	4.51	Dec 1983	.00+	Sep 1999

Mean Number of Days (3)

Daily Precipitation

Month	>= 0.01	>= 0.10	>= 0.50	>= 1.00
Jan	9.3	4.4	.3	.0
Feb	8.6	3.4	.2	.0
Mar	10.2	4.3	.2	.0
Apr	8.0	3.2	.1	.0
May	9.2	4.6	.4	.0
Jun	6.0	2.8	.2	.0
Jul	3.5	1.4	.2	.1
Aug	3.7	1.3	@	.0
Sep	5.5	2.8	.3	@
Oct	6.0	3.1	.3	@
Nov	8.7	4.2	.6	@
Dec	8.2	4.2	.5	@
Ann	86.9	39.7	3.3	.1

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	.22	.33	.51	.69	.86	1.05	1.27	1.54	1.89	2.46	3.01
Feb	.11	.18	.30	.43	.56	.70	.87	1.08	1.36	1.82	2.27
Mar	.26	.37	.53	.68	.82	.97	1.15	1.35	1.62	2.04	2.44
Apr	.18	.26	.38	.50	.62	.75	.89	1.06	1.29	1.65	2.00
May	.20	.39	.63	.83	1.03	1.24	1.47	1.75	2.12	2.70	3.25
Jun	.04	.12	.26	.39	.54	.70	.89	1.13	1.46	2.00	2.53
Jul	.00	.00	.04	.12	.21	.31	.44	.61	.86	1.26	1.68
Aug	.00	.00	.03	.07	.12	.18	.26	.37	.52	.80	1.08
Sep	.00	.00	.20	.36	.51	.68	.88	1.13	1.45	1.99	2.51
Oct	.06	.16	.32	.47	.63	.81	1.02	1.27	1.62	2.18	2.73
Nov	.28	.41	.62	.81	1.01	1.22	1.46	1.74	2.12	2.73	3.30
Dec	.02	.10	.26	.44	.65	.90	1.21	1.60	2.15	3.08	4.02
Ann	6.63	7.57	8.82	9.80	10.70	11.58	12.52	13.57	14.88	16.83	18.55

\+ 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: 1957-2001
(3) Derived from 1971-2000 serially complete daily data

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

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

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: TUSCARORA, NV **COOP ID: 268346**

Climate Division: NV 2 **NWS Call Sign:** **Elevation: 6,170 Feet** **Lat: 41˚19N** **Lon: 116˚13W**

Snow (inches)

Snow Totals

Means/Medians (1)

Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median
Jan	11.0	6.9	7	5
Feb	11.4	11.9	7	5
Mar	9.6	10.8	3	#
Apr	2.8	2.5	#	#
May	1.8	.0	#	#
Jun	.0	.0	#	0
Jul	.0	.0	0	0
Aug	.0	.0	0	0
Sep	.2	.0	#	0
Oct	1.5	.0	#	0
Nov	6.0	3.3	2	1
Dec	12.8	9.2	4	2
Ann	57.1	44.6	N/A	N/A

Extremes (2)

Month	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year
Jan	9.5	1982	1	24.0	1983	37	1996	31	32	1993
Feb	8.0	1983	7	30.8	1979	41	1993	24	33	1993
Mar	12.0	1979	1	18.5	1982	38	1993	1	26	1993
Apr	5.0	1979	17	8.0	1999	6	1978	16	1	1995
May	7.0	1972	21	13.5	1979	4	1999	3	#+	2000
Jun	.5	1973	17	.5	1973	1	1995	8	#+	1995
Jul	.0	0	0	.0	0	0	0	0	0	0
Aug	.0	0	0	.0	0	0	0	0	0	0
Sep	2.0	1982	30	3.5	1982	3	1978	18	#+	2000
Oct	4.0	1971	30	6.6	2000	6	1984	17	1+	2000
Nov	12.0	1985	25	20.7	1982	20	1988	26	15	1988
Dec	16.0	1996	22	52.3	1992	30	1983	24	19	1983
Ann	16.0	Dec 1996	22	52.3	Dec 1992	41	Feb 1993	24	33	Feb 1993

Mean Number of Days (1)

Snow Fall >= Thresholds

Month	0.1	1.0	3.0	5.0	10.0
Jan	6.3	4.5	1.5	.8	.0
Feb	5.6	3.6	1.1	.3	.0
Mar	4.7	3.0	.9	.2	.1
Apr	1.8	1.0	.3	@	.0
May	.8	.5	.3	.1	.0
Jun	@	.0	.0	.0	.0
Jul	.0	.0	.0	.0	.0
Aug	.0	.0	.0	.0	.0
Sep	.2	.2	.0	.0	.0
Oct	.9	.7	.2	.0	.0
Nov	3.4	2.1	.8	.5	.1
Dec	5.1	3.5	1.3	1.0	.2
Ann	28.8	19.1	6.4	2.9	.4

Snow Depth >= Thresholds

Month	1	3	5	10
Jan	-9.9	-9.9	-9.9	-9.9
Feb	8.4	6.1	4.3	2.5
Mar	6.1	3.6	2.4	.5
Apr	1.1	.2	.0	.0
May	.1	.0	.0	.0
Jun	.0	.0	.0	.0
Jul	.0	.0	.0	.0
Aug	.0	.0	.0	.0
Sep	.1	.0	.0	.0
Oct	.4	.2	@	.0
Nov	4.8	2.1	.6	.3
Dec	13.8	9.9	8.4	3.6
Ann	-9.9	-9.9	-9.9	-9.9

+ 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

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

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: TUSCARORA, NV **COOP ID: 268346**

Climate Division: NV 2 **NWS Call Sign:** **Elevation: 6,170 Feet** **Lat: 41˚19N** **Lon: 116˚13W**

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	7/22	7/15	7/09	7/05	6/30	6/26	6/21	6/16	6/08
32	7/06	6/29	6/24	6/20	6/16	6/12	6/07	6/02	5/26
28	6/14	6/08	6/04	6/01	5/28	5/25	5/21	5/17	5/12
24	6/02	5/26	5/20	5/16	5/12	5/08	5/04	4/29	4/22
20	5/16	5/09	5/04	4/30	4/26	4/22	4/18	4/13	4/07
16	4/22	4/14	4/08	4/03	3/30	3/26	3/21	3/15	3/07

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	8/12	8/17	8/22	8/25	8/29	9/01	9/05	9/09	9/15
32	8/22	8/29	9/03	9/07	9/11	9/15	9/19	9/24	9/30
28	9/08	9/14	9/18	9/21	9/25	9/28	10/02	10/06	10/11
24	9/18	9/24	9/28	10/02	10/05	10/08	10/12	10/16	10/21
20	10/02	10/09	10/14	10/19	10/23	10/27	10/31	11/05	11/12
16	10/16	10/22	10/27	10/31	11/03	11/07	11/11	11/15	11/21

Freeze Free Period

Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	91	80	72	65	59	52	46	38	27
32	119	108	100	93	86	80	73	65	54
28	142	134	128	123	119	114	109	103	95
24	172	162	156	150	145	140	134	128	118
20	207	197	190	184	179	173	167	160	151
16	245	236	229	223	218	212	206	199	190

***** 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

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

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: TUSCARORA, NV **COOP ID: 268346**

Climate Division: NV 2 **NWS Call Sign:** **Elevation: 6,170 Feet** **Lat: 41˚19N** **Lon: 116˚13W**

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	1211	997	930	712	491	238	73	67	253	557	934	1169	7632
60	1056	857	775	565	345	136	25	19	148	408	784	1014	6132
57	963	773	682	480	264	89	12	7	100	325	694	921	5310
55	901	717	620	425	215	64	6	3	73	274	635	859	4792
50	746	577	468	296	117	22	1	0	28	163	490	704	3612
32	245	149	69	31	1	0	0	0	0	5	101	214	815

Cooling Degree Days (1)

Base Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	57	76	162	309	534	782	1076	1058	763	472	157	68	5514
55	0	0	0	13	35	156	369	348	146	28	0	0	1095
57	0	0	0	8	22	121	313	290	112	17	0	0	883
60	0	0	0	3	10	78	233	210	71	7	0	0	612
65	0	0	0	0	1	30	126	102	25	1	0	0	285
70	0	0	0	0	0	8	53	35	7	0	0	0	103

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	0	6	41	128	304	548	832	805	512	243	48	1	0	6	47	175	479	1027	1859	2664	3176	3419	3467	3468
45	0	0	8	55	182	404	677	650	371	132	11	0	0	0	8	63	245	649	1326	1976	2347	2479	2490	2490
50	0	0	0	19	93	263	522	496	239	59	1	0	0	0	0	19	112	375	897	1393	1632	1691	1692	1692
55	0	0	0	0	38	150	369	344	130	15	0	0	0	0	0	0	38	188	557	901	1031	1046	1046	1046
60	0	0	0	0	6	67	227	202	58	1	0	0	0	0	0	0	6	73	300	502	560	561	561	561
Base	**Growing Degree Units for Corn (Monthly)**												**Growing Degree Units for Corn (Accumulated Monthly)**											
50/86	0	10	36	107	225	371	544	540	367	201	39	2	0	10	46	153	378	749	1293	1833	2200	2401	2440	2442

(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:
www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

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