

Climatography of the United States

No. 20

1971-2000

Station: SELIGMAN, MO

COOP ID: 237645

Climate Division: MO 4

NWS Call Sign:

Elevation: 1,530 Feet Lat: 36° 33N

Lon: 93° 56W

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	41.6	20.2	30.9	75+	1995	13	39.1	1990	-20	1930	18	17.4	1977	1058	0	.0	.0	9.9	6.5	27.0	1.8
Feb	48.0	25.1	36.6	81+	1962	12	45.3	1976	-18	1996	4	25.4	1978	798	0	.0	.0	14.1	3.9	21.0	1.0
Mar	56.7	32.7	44.7	92	1929	24	49.3	1973	-6	1943	3	37.4	1975	630	0	.0	.0	23.3	.9	14.2	@
Apr	66.2	41.6	53.9	90+	1989	27	60.8	1981	16+	1957	13	47.5	1983	339	6	.0	.1	28.4	.0	4.9	.0
May	73.8	50.1	62.0	93	1934	31	66.8	1987	27	1976	3	57.4	1976	145	50	.0	.1	30.9	.0	.2	.0
Jun	81.2	59.0	70.1	100+	1988	25	73.2	1994	40+	1988	10	66.0	1974	21	174	.1	3.1	30.0	.0	.0	.0
Jul	86.5	63.8	75.2	109	1954	14	82.0	1980	47	1997	5	72.1	1989	2	316	.6	12.8	31.0	.0	.0	.0
Aug	86.7	62.3	74.5	110	1936	9	82.3	1980	43+	1986	30	67.9	1992	13	308	.8	13.1	31.0	.0	.0	.0
Sep	78.8	54.9	66.9	102+	1947	7	73.4	1978	25	1984	30	59.4	1974	84	138	.2	4.0	30.0	.0	.3	.0
Oct	68.8	44.0	56.4	94	1953	1	61.6	1973	16	1989	21	51.0	1976	278	11	.0	.2	30.0	.0	3.8	.0
Nov	55.2	34.1	44.7	81+	1989	12	51.8	1999	-1+	1976	30	37.6	1976	610	0	.0	.0	20.9	.8	14.3	.1
Dec	45.4	24.2	34.8	76+	1966	7	42.1	1984	-20	1989	23	20.7	1983	937	0	.0	.0	13.3	4.5	24.2	1.0
Ann	65.7	42.7	54.2	110	Aug 1936	9	82.3	Aug 1980	-20+	Dec 1989	23	17.4	Jan 1977	4915	1003	1.7	33.4	292.8	16.6	109.9	3.9

+ 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/normal/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1921-2001

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

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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: SELIGMAN, MO

COOP ID: 237645

Climate Division: MO 4

NWS Call Sign:

Elevation: 1,530 Feet Lat: 36°33N

Lon: 93°56W

Precipitation (inches)																								
	Precipitation Totals									Mean Number of Days (3)				Precipitation Probabilities (1) Probability that the monthly/annual precipitation will be equal to or less than the indicated amount										
	Means/ Medians(1)		Extremes							Daily Precipitation				Monthly/Annual Precipitation vs Probability Levels These values were determined from the incomplete gamma distribution										
Month	Mean	Med-ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	2.00	1.84	2.68+	1966	1	5.18	1982	.00	1986	6.6	4.3	1.4	.4	.12	.32	.63	.93	1.24	1.58	1.98	2.47	3.13	4.23	5.29
Feb	2.31	2.24	2.86	1966	9	5.17	1990	.34	1982	6.7	4.3	1.7	.5	.48	.69	1.03	1.33	1.65	1.98	2.35	2.80	3.40	4.35	5.25
Mar	4.33	4.14	3.25	1935	10	8.51	1973	.84	1971	9.1	7.0	3.3	1.4	1.44	1.85	2.45	2.96	3.45	3.96	4.51	5.16	5.99	7.27	8.46
Apr	4.62	4.21	4.06	1965	3	11.20	1994	.63	1989	9.9	7.1	3.3	1.4	1.33	1.77	2.43	3.00	3.56	4.15	4.79	5.55	6.54	8.08	9.52
May	4.85	4.87	5.48	1956	15	8.59	1990	1.75	1994	11.8	7.9	3.7	1.3	2.23	2.65	3.24	3.72	4.17	4.61	5.09	5.64	6.32	7.36	8.30
Jun	5.56	5.26	6.30	2000	17	15.25	1995	.30	1988	9.8	7.1	3.3	1.5	1.06	1.56	2.37	3.12	3.89	4.71	5.65	6.77	8.27	10.67	12.95
Jul	3.34	2.57	4.15	1958	25	11.62	1976	.22	1980	7.8	5.3	2.2	.7	.71	1.02	1.51	1.95	2.40	2.87	3.41	4.06	4.91	6.26	7.55
Aug	3.32	2.94	6.72	1985	5	11.97	1985	.00	2000	7.4	5.4	2.2	1.0	.49	.92	1.49	1.95	2.41	2.90	3.44	4.08	4.93	6.26	7.52
Sep	4.78	4.39	4.31	1986	30	11.78	1993	.61	1981	9.0	6.1	2.7	1.4	1.03	1.47	2.17	2.81	3.45	4.12	4.89	5.81	7.02	8.94	10.77
Oct	3.81	3.31	4.93	1942	30	8.73	1983	.92	1977	8.1	5.4	2.5	1.1	1.02	1.38	1.93	2.41	2.88	3.38	3.94	4.59	5.45	6.78	8.04
Nov	4.59	4.86	5.32	1994	5	10.26	1994	.80	1989	7.8	6.1	3.2	1.7	1.13	1.56	2.23	2.82	3.41	4.04	4.73	5.56	6.64	8.35	9.95
Dec	3.39	2.54	4.53	1982	3	9.28	1984	.50	1989	6.7	5.0	2.3	1.1	.59	.89	1.38	1.85	2.32	2.84	3.42	4.14	5.08	6.62	8.08
Ann	46.90	44.80	6.72	Aug 1985	5	15.25	Jun 1995	.00+	Aug 2000	100.7	71.0	31.8	13.5	32.87	35.56	39.03	41.67	44.01	46.28	48.63	51.23	54.39	58.97	62.94

+ 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: 1921-2001

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

Complete documentation available from:
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Station: SELIGMAN, MO

COOP ID: 237645

Climate Division: MO 4

NWS Call Sign:

Elevation: 1,530 Feet

Lat: 36°33N

Lon: 93°56W

Snow (inches)																							
Snow Totals															Mean Number of Days (1)								
Means/Medians (1)					Extremes (2)										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	4.5	3.6	1	#	11.0	1995	19	17.0	1977	11+	1995	19	5	1977	2.0	1.8	.4	.3	.0	3.8	2.2	1.3	.1
Feb	3.2	.0	1	#	7.0	1975	24	11.5	1975	11	1975	25	4	1979	1.8	1.4	.3	.1	.0	4.2	2.5	1.9	.1
Mar	1.4	.0	#	#	10.0	1989	6	12.0	1989	16	1999	14	2	1978	.5	.4	.1	.1	.1	.7	.2	.1	.1
Apr	.3	.0	#	0	4.0	1971	5	4.0	1971	4	1971	5	#+	1997	.1	.1	@	.0	.0	.1	.1	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.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	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	#	.0	0	0	#	1989	19	#	1989	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.7	.0	#	0	7.0	1972	19	11.0	1972	6	1975	27	1	1980	.5	.5	.2	.1	.0	.6	.3	.1	.0
Dec	1.6	.5	#	#	8.7	2000	14	8.7	2000	9	2000	15	4	2000	1.0	.6	.2	.1	.0	1.1	.3	.2	.0
Ann	12.7	4.1	N/A	N/A	11.0	Jan 1995	19	17.0	Jan 1977	16	Mar 1999	14	5	Jan 1977	5.9	4.8	1.2	.7	.1	10.5	5.6	3.6	.3

+ 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:

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NWS Call Sign:

Elevation: 1,530 Feet

Lat: 36°33N

Lon: 93°56W

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	5/17	5/11	5/07	5/04	5/01	4/27	4/24	4/20	4/14
32	5/04	4/29	4/25	4/22	4/19	4/16	4/13	4/09	4/04
28	4/23	4/18	4/14	4/11	4/07	4/04	4/01	3/28	3/22
24	4/10	4/04	3/30	3/27	3/23	3/20	3/16	3/12	3/06
20	4/04	3/27	3/22	3/17	3/12	3/08	3/03	2/25	2/17
16	3/24	3/16	3/10	3/05	2/28	2/24	2/19	2/13	2/05
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	9/21	9/25	9/28	9/30	10/03	10/05	10/07	10/10	10/14
32	9/24	10/01	10/06	10/10	10/13	10/17	10/21	10/26	11/01
28	10/09	10/15	10/21	10/25	10/29	11/02	11/06	11/11	11/18
24	10/21	10/27	10/31	11/04	11/08	11/12	11/16	11/20	11/26
20	10/31	11/07	11/13	11/17	11/21	11/25	11/30	12/05	12/12
16	11/08	11/16	11/21	11/26	12/01	12/05	12/10	12/15	12/23
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	175	168	163	158	154	150	146	141	134
32	204	195	188	182	177	171	165	159	149
28	226	219	213	208	204	199	194	189	181
24	254	246	239	234	229	224	219	212	204
20	284	273	266	259	253	247	240	233	222
16	306	295	287	281	274	268	262	254	243

* 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:

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Degree Days to Selected Base Temperatures (°F)													
Base	Heating Degree Days (1)												
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	1058	798	630	339	145	21	2	13	84	278	610	937	4915
60	903	658	477	210	64	3	0	2	33	155	466	782	3753
57	810	579	391	147	33	1	0	0	17	98	383	692	3151
55	750	527	334	112	20	0	0	0	10	69	330	635	2787
50	607	399	209	46	4	0	0	0	1	23	215	492	1996
32	192	86	10	0	0	0	0	0	0	0	17	124	429

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	157	212	402	657	928	1143	1337	1317	1044	757	396	210	8560
55	2	9	13	79	235	453	624	604	364	112	20	8	2523
57	0	5	8	54	186	393	562	543	311	80	13	4	2159
60	0	0	1	27	124	306	469	452	237	44	6	0	1666
65	0	0	0	6	50	174	316	308	138	11	0	0	1003
70	0	0	0	0	13	77	178	182	68	2	0	0	520

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	45	113	244	456	726	944	1132	1107	836	541	226	75	45	158	402	858	1584	2528	3660	4767	5603	6144	6370	6445
45	20	57	145	319	571	794	977	952	686	395	139	37	20	77	222	541	1112	1906	2883	3835	4521	4916	5055	5092
50	4	27	78	200	417	644	822	797	538	261	72	13	4	31	109	309	726	1370	2192	2989	3527	3788	3860	3873
55	0	5	35	111	273	494	667	642	398	155	31	0	0	5	40	151	424	918	1585	2227	2625	2780	2811	2811
60	0	0	8	49	150	345	512	487	269	72	9	0	0	0	8	57	207	552	1064	1551	1820	1892	1901	1901
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	38	85	162	291	452	634	770	739	545	348	145	57	38	123	285	576	1028	1662	2432	3171	3716	4064	4209	4266

(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.
Complete documentation for the 1971-2000 Normals is available on the internet from:
www.ncdc.noaa.gov/oa/climate/normal/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 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.

- | | |
|---|---|
| <ol style="list-style-type: none">a. Temperature/ Precipitation Tables<ol style="list-style-type: none">1. 1971-2000 Monthly Normals2. Cooperative Summary of the Day3. National Weather Service station records4. 1971-2000 serially complete daily datab. Degree Day Table<ol style="list-style-type: none">1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data | <ol style="list-style-type: none">c. Snow Tables<ol style="list-style-type: none">1. Snow Climatology2. Cooperative Summary of the Dayd. Freeze Data Table
1971-2000 serially complete daily data |
|---|---|

References

U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normal.html
U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normal/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