

Climatography of the United States No. 20

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

Station: LONDON LOCKS, WV

1971-2000

COOP ID: 465365

Climate Division: WV 3

NWS Call Sign:

Elevation: 620 Feet

Lat: 38° 12N

Lon: 81° 22W

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	42.7	25.0	33.9	82	1950	26	45.0	1974	-16	1985	22	19.3	1977	966	0	.0	.0	9.4	6.4	23.9	.8
Feb	46.8	26.7	36.8	80+	1937	9	45.2	1990	-7+	1996	5	23.8	1978	791	0	.0	.0	11.8	4.0	19.7	.2
Mar	56.6	33.3	45.0	88	1998	31	52.4	1973	-1	1980	3	38.4	1980	622	0	.0	.0	21.2	.9	14.8	.1
Apr	66.8	41.1	54.0	92+	1942	27	59.3	1991	18	1951	18	48.7	1982	337	4	.0	.2	27.6	.0	4.4	.0
May	74.9	50.8	62.9	95	1991	30	70.8	1991	28+	1947	10	57.7	1981	148	81	.0	.6	31.0	.0	.2	.0
Jun	82.2	60.3	71.3	98	1944	19	74.6	1984	39+	1945	6	66.6+	1980	20	208	.0	4.5	30.0	.0	.0	.0
Jul	85.9	65.5	75.7	101	1954	15	79.0	1991	43+	1962	27	72.1	1976	0	332	.1	8.3	31.0	.0	.0	.0
Aug	84.3	65.1	74.7	103	1936	22	79.9	1995	45	1984	26	69.4	1982	4	304	@	5.7	31.0	.0	.0	.0
Sep	78.0	59.0	68.5	100	1953	4	73.1	1971	36	1942	29	63.1	1976	38	144	.0	1.4	30.0	.0	.0	.0
Oct	67.6	46.5	57.1	93	1953	1	65.2	1971	21	1962	27	49.6	1976	283	36	.0	.0	30.0	.0	1.6	.0
Nov	57.1	36.8	47.0	85	1948	6	55.2	1985	4	1950	26	37.2	1976	543	2	.0	.0	21.0	.2	11.2	.0
Dec	46.8	29.3	38.1	79+	1951	8	47.5	1971	-7+	1983	25	27.3	1989	836	0	.0	.0	12.4	3.0	20.1	.2
Ann	65.8	45.0	55.4	103	Aug 1936	22	79.9	Aug 1995	-16	Jan 1985	22	19.3	Jan 1977	4588	1111	.1	20.7	286.4	14.5	95.9	1.3

+ 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: 1936-2001

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

026-A

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NWS Call Sign:

Elevation: 620 Feet Lat: 38°12N

Lon: 81°22W

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	3.44	3.67	1.62	1939	30	5.86	1972	.84	1983	14.9	8.9	2.0	.5	1.06	1.39	1.88	2.29	2.70	3.12	3.58	4.12	4.81	5.90	6.91
Feb	2.95	2.52	1.95	1962	27	6.39	1972	1.30	1978	12.1	7.4	1.8	.3	1.25	1.52	1.89	2.20	2.49	2.78	3.10	3.46	3.91	4.61	5.24
Mar	3.78	3.27	1.97	1967	7	8.42	1994	1.05	1987	13.3	8.8	2.5	.5	1.41	1.76	2.27	2.69	3.10	3.51	3.95	4.47	5.13	6.14	7.07
Apr	3.67	3.76	2.05	1948	13	6.80	1980	1.14	1976	13.0	8.7	2.4	.7	1.46	1.80	2.28	2.68	3.05	3.44	3.85	4.32	4.93	5.85	6.70
May	4.87	5.03	2.50+	1996	6	10.96	1996	1.32	1977	13.6	9.8	3.2	1.1	1.88	2.33	2.98	3.52	4.02	4.54	5.10	5.75	6.58	7.84	9.00
Jun	4.22	4.23	3.36	1984	25	9.21	1998	.90	1988	11.9	8.6	2.8	.9	1.33	1.73	2.32	2.83	3.32	3.83	4.39	5.05	5.90	7.22	8.44
Jul	5.07	5.40	3.28	1954	21	9.74	2000	1.24	1987	11.7	8.4	3.8	1.3	2.15	2.61	3.26	3.78	4.28	4.78	5.32	5.94	6.72	7.91	8.99
Aug	4.17	3.69	3.30	1945	2	7.34	1977	1.49	1981	9.7	7.2	3.3	1.1	1.68	2.06	2.60	3.05	3.47	3.90	4.37	4.90	5.58	6.62	7.56
Sep	3.50	2.85	3.10	1996	7	8.06	1989	.91	1983	9.1	6.8	2.3	.9	.92	1.25	1.75	2.20	2.64	3.10	3.61	4.22	5.01	6.27	7.43
Oct	2.62	2.44	2.80	1937	28	5.89	1976	.56	2000	9.4	5.8	1.8	.4	.77	1.02	1.39	1.72	2.03	2.36	2.72	3.15	3.70	4.56	5.37
Nov	3.49	3.29	4.02	1973	28	8.08	1973	.99	1976	12.0	7.5	2.1	.5	1.14	1.47	1.96	2.37	2.77	3.18	3.63	4.16	4.84	5.89	6.86
Dec	3.48	3.01	2.34	1978	9	8.54	1978	.84	1989	12.8	7.6	2.4	.7	1.22	1.55	2.03	2.43	2.81	3.20	3.63	4.13	4.77	5.75	6.65
Ann	45.26	44.76	4.02	Nov 1973	28	10.96	May 1996	.56	Oct 2000	143.5	95.5	30.4	8.9	35.88	37.78	40.16	41.93	43.50	44.99	46.52	48.19	50.20	53.07	55.52

+ 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: 1936-2001

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

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Climate Division: WV 3

NWS Call Sign:

Elevation: 620 Feet

Lat: 38°12N

Lon: 81°22W

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	5.4	.5	1	#	14.0	1971	1	23.1	1971	21	1978	22	7	1978	-9.9	-9.9	-9.9	-9.9	-9.9	.9	.5	.4	.3
Feb	2.2	.8	1	#	6.0	1971	14	10.0	1971	13	1974	9	5	1974	-9.9	-9.9	-9.9	-9.9	-9.9	1.3	.6	.2	.0
Mar	1.5	.0	#	0	4.0	1971	4	7.0	1982	9	1980	2	3	1973	.9	.6	.3	.0	.0	.2	.1	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.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	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	-9.9	-9.9	-9.9	-9.9	-9.9	.0	.0	.0	.0
Nov	.1	.0	#	0	.5	1971	22	.5	1971	1	1971	22	#	1971	.1	.0	.0	.0	.0	@	.0	.0	.0
Dec	.6	-99.9	#	0	3.0	1989	9	3.0	1989	4	1981	17	#+	1989	-9.9	-9.9	-9.9	-9.9	-9.9	.1	.0	.0	.0
Ann	9.8	-9.9	N/A	N/A	14.0	Jan 1971	1	23.1	Jan 1971	21	Jan 1978	22	7	Jan 1978	-9.9	-9.9	-9.9	-9.9	-9.9	2.5	1.2	.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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Climate Division: WV 3

NWS Call Sign:

Elevation: 620 Feet

Lat: 38° 12N

Lon: 81° 22W

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	5/14	5/09	5/05	5/02	4/29	4/26	4/23	4/19	4/14
32	5/01	4/26	4/22	4/18	4/15	4/12	4/09	4/05	3/30
28	4/15	4/10	4/07	4/04	4/01	3/29	3/26	3/23	3/18
24	4/03	3/27	3/21	3/17	3/13	3/09	3/04	2/27	2/20
20	3/22	3/15	3/10	3/05	3/01	2/25	2/21	2/16	2/09
16	3/16	3/07	2/28	2/23	2/17	2/12	2/06	1/31	1/21
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	10/10	10/14	10/17	10/20	10/23	10/25	10/28	10/31	11/05
32	10/15	10/20	10/25	10/28	11/01	11/04	11/08	11/12	11/18
28	10/26	10/31	11/04	11/08	11/11	11/14	11/17	11/21	11/26
24	11/09	11/15	11/20	11/25	11/29	12/03	12/07	12/12	12/19
20	11/16	11/23	11/28	12/03	12/07	12/11	12/15	12/20	12/28
16	12/03	12/10	12/15	12/20	12/24	12/29	1/02	1/07	1/15
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	197	190	185	180	176	172	168	163	156
32	224	216	209	204	199	194	188	182	173
28	244	237	232	227	223	218	214	209	201
24	289	279	272	266	260	254	248	241	231
20	309	299	292	286	280	274	268	261	251
16	339	327	320	313	308	302	296	288	279

* 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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NWS Call Sign:

Elevation: 620 Feet Lat: 38°12N Lon: 81°22W

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	966	791	622	337	148	20	0	4	38	283	543	836	4588
60	814	651	473	205	72	4	0	0	10	177	401	681	3488
57	730	568	388	140	41	1	0	0	4	126	321	597	2916
55	671	518	334	104	27	0	0	0	2	98	271	538	2563
50	531	389	216	40	7	0	0	0	0	46	166	400	1795
32	165	76	15	0	0	0	0	0	0	0	5	77	338

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	222	208	416	658	956	1178	1355	1323	1096	776	454	264	8906
55	15	7	22	72	270	488	642	610	408	162	29	12	2737
57	11	1	14	48	222	429	580	548	350	128	19	9	2359
60	3	0	7	23	160	342	487	455	266	85	9	0	1837
65	0	0	0	4	81	208	332	304	144	36	2	0	1111
70	0	0	0	0	32	102	185	168	58	12	0	0	557

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	63	90	226	442	721	947	1111	1075	852	525	242	101	63	153	379	821	1542	2489	3600	4675	5527	6052	6294	6395
45	31	44	134	303	566	797	956	920	702	374	148	48	31	75	209	512	1078	1875	2831	3751	4453	4827	4975	5023
50	7	15	68	189	415	647	801	765	552	241	75	21	7	22	90	279	694	1341	2142	2907	3459	3700	3775	3796
55	0	1	31	104	276	497	646	610	402	136	31	2	0	1	32	136	412	909	1555	2165	2567	2703	2734	2736
60	0	0	7	45	157	351	491	455	265	61	5	0	0	0	7	52	209	560	1051	1506	1771	1832	1837	1837
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	37	61	151	277	450	635	769	742	552	310	146	59	37	98	249	526	976	1611	2380	3122	3674	3984	4130	4189

(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/normal/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.

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| <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 |
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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