

Climatology of the United States

No. 20

1971-2000

Station: VALLEY HEAD, AL

COOP ID: 018469

Climate Division: AL 2

NWS Call Sign:

Elevation: 1,062 Feet Lat: 34° 34N

Lon: 85° 37W

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	48.0	26.3	37.2	77+	1950	26	47.7	1974	-14+	1985	22	25.6	1977	865	0	.0	.0	14.9	2.9	21.8	.4
Feb	52.9	28.2	40.6	80	1962	14	47.5	1990	-12+	1958	19	32.6	1978	684	0	.0	.0	17.3	1.4	18.8	.1
Mar	61.5	35.3	48.4	84+	1982	20	54.8	1973	2	1980	3	42.4	1971	517	2	.0	.0	26.4	.2	13.5	.0
Apr	70.0	41.8	55.9	89+	1986	27	61.0	1981	19	1992	3	50.1	1983	283	10	.0	.0	29.3	.0	6.4	.0
May	77.2	51.5	64.4	94+	1962	29	70.3	1987	29+	1976	4	60.0	1981	109	89	.0	.1	31.0	.0	.2	.0
Jun	84.1	60.2	72.2	101	1952	28	75.4	1998	35	1966	1	68.1	1974	6	219	.0	4.2	30.0	.0	.0	.0
Jul	87.7	64.7	76.2	105+	1952	29	79.4	1993	45	1967	15	73.5	1976	0	346	.2	11.4	31.0	.0	.0	.0
Aug	87.0	63.5	75.3	105	1954	16	78.9	1995	46	1964	13	72.4	1992	0	319	.1	9.0	31.0	.0	.0	.0
Sep	81.5	57.1	69.3	100+	1954	7	74.6	1998	29	1967	30	65.4	1981	34	163	.0	3.1	30.0	.0	.1	.0
Oct	71.9	43.8	57.9	93+	1954	5	64.2	1984	19	1961	27	50.4	1987	253	32	.0	.0	30.8	.0	5.3	.0
Nov	61.3	35.6	48.5	84+	1974	3	57.4	1985	-2	1950	25	39.9	1976	499	2	.0	.0	25.6	@	13.6	.0
Dec	51.5	28.7	40.1	78	1951	7	49.2	1971	-8	1962	13	30.9	1989	772	0	.0	.0	18.0	1.3	20.4	.2
Ann	69.6	44.7	57.2	105+	Aug 1954	16	79.4	Jul 1993	-14+	Jan 1985	22	25.6	Jan 1977	4022	1182	.3	27.8	315.3	5.8	100.1	.7

+ 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

Issue Date: February 2004

(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

065-A

**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: VALLEY HEAD, AL

COOP ID: 018469

Climate Division: AL 2

NWS Call Sign:

Elevation: 1,062 Feet Lat: 34°34N

Lon: 85°37W

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	6.06	6.13	4.00	1949	5	10.42	1974	1.70	1981	14.2	9.4	4.3	1.5	2.53	3.09	3.86	4.50	5.10	5.70	6.36	7.11	8.06	9.51	10.82
Feb	5.62	5.38	7.39	1990	16	14.73	1990	.74	1978	12.0	7.4	3.6	1.7	1.76	2.29	3.08	3.76	4.42	5.10	5.85	6.73	7.86	9.63	11.26
Mar	6.57	5.54	4.78	1979	4	15.87	1980	1.91	1985	13.8	8.8	4.2	2.0	2.13	2.76	3.68	4.46	5.21	5.99	6.85	7.85	9.14	11.14	12.98
Apr	4.73	4.63	4.18	1963	30	10.08	1979	1.10	1976	11.1	7.2	3.2	1.4	1.91	2.35	2.96	3.47	3.95	4.43	4.96	5.56	6.33	7.50	8.57
May	4.70	4.34	4.19	1997	3	8.63	1978	1.08	1992	11.7	7.1	3.2	1.5	1.52	1.97	2.63	3.19	3.73	4.28	4.90	5.61	6.53	7.96	9.29
Jun	4.33	3.98	3.08	1961	10	9.19	1976	.54	1988	11.4	7.2	3.0	1.2	1.06	1.46	2.09	2.66	3.21	3.80	4.46	5.24	6.27	7.89	9.41
Jul	5.18	4.51	4.52	1976	5	11.74	1976	.94	1987	12.2	7.8	3.4	1.5	1.56	2.05	2.79	3.42	4.04	4.68	5.38	6.21	7.29	8.96	10.52
Aug	3.49	3.08	3.61	1984	4	6.68	1981	.58	1983	10.4	6.2	2.3	1.0	1.13	1.46	1.95	2.36	2.76	3.18	3.63	4.17	4.86	5.92	6.91
Sep	4.27	3.27	5.38	1960	17	9.77	1977	.77	1984	9.9	5.8	2.7	1.4	.69	1.06	1.68	2.27	2.88	3.54	4.29	5.21	6.45	8.45	10.36
Oct	3.29	2.64	6.02	1995	5	9.91	1995	.10	1991	8.3	5.0	2.3	.9	.42	.69	1.15	1.61	2.09	2.63	3.25	4.02	5.05	6.75	8.40
Nov	5.00	4.31	4.06	1977	5	9.76	1983	1.19	1971	11.3	7.3	3.1	1.4	1.97	2.43	3.09	3.63	4.15	4.67	5.23	5.89	6.71	7.98	9.14
Dec	5.12	4.52	4.28	1961	12	10.05	1982	1.20	1980	13.0	8.1	3.8	1.4	1.62	2.11	2.83	3.44	4.04	4.66	5.33	6.13	7.15	8.75	10.22
Ann	58.36	59.09	7.39	Feb 1990	16	15.87	Mar 1980	.10	Oct 1991	139.3	87.3	39.1	16.9	44.07	46.91	50.50	53.20	55.59	57.88	60.24	62.83	65.95	70.45	74.32

+ 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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Station: VALLEY HEAD, AL

COOP ID: 018469

Climate Division: AL 2

NWS Call Sign:

Elevation: 1,062 Feet

Lat: 34° 34N

Lon: 85° 37W

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	2.1	1.4	#	#	7.9	1988	7	10.0	1988	9	1988	10	2	1988	1.3	.9	.1	.1	.0	1.4	.4	.2	.0
Feb	1.7	.0	#	#	4.0	1985	12	8.3	1979	4	1985	13	1	1996	1.4	.8	.1	.0	.0	1.1	.1	.0	.0
Mar	1.0	.0	#	0	14.8	1993	13	17.7	1993	17	1993	14	2	1993	.6	.2	.1	@	@	.3	.1	.1	.1
Apr	.4	.0	#	0	10.0	1987	3	10.9	1987	8	1987	3	#+	1987	.1	.1	@	@	@	.1	@	@	.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	#	1993	31	#+	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.1	.0	#	0	2.5	1975	23	2.5	1975	2	1975	23	#+	2000	.1	@	.0	.0	.0	@	.0	.0	.0
Dec	.7	#	#	#	2.9	1997	29	6.4	2000	3	1997	29	#+	2000	.5	.3	.0	.0	.0	.3	@	.0	.0
Ann	6.0	1.4	N/A	N/A	14.8	Mar 1993	13	17.7	Mar 1993	17	Mar 1993	14	2+	Mar 1993	4.0	2.3	.3	.1	@	3.2	.6	.3	.1

+ 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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No. 20 1971-2000

Station: VALLEY HEAD, AL

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Climate Division: AL 2

NWS Call Sign:

Elevation: 1,062 Feet

Lat: 34°34N

Lon: 85°37W

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	5/21	5/16	5/12	5/08	5/05	5/02	4/28	4/24	4/18
32	5/07	5/02	4/28	4/24	4/21	4/18	4/14	4/10	4/04
28	4/21	4/15	4/12	4/09	4/06	4/03	3/31	3/27	3/22
24	4/13	4/07	4/03	3/30	3/27	3/23	3/20	3/15	3/10
20	3/31	3/22	3/16	3/11	3/06	3/01	2/24	2/18	2/10
16	3/14	3/06	3/01	2/24	2/19	2/15	2/10	2/04	1/27
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	9/24	9/28	10/01	10/04	10/06	10/08	10/11	10/14	10/18
32	9/30	10/05	10/08	10/11	10/14	10/16	10/19	10/23	10/27
28	10/05	10/12	10/17	10/21	10/25	10/28	11/01	11/06	11/13
24	10/23	10/28	11/01	11/05	11/08	11/11	11/15	11/19	11/25
20	11/03	11/13	11/19	11/25	11/30	12/05	12/11	12/17	12/26
16	11/21	12/01	12/07	12/13	12/18	12/24	12/29	1/05	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	175	167	162	158	153	149	145	139	132
32	197	189	184	179	175	171	166	161	154
28	224	216	210	206	201	196	192	186	178
24	247	240	235	230	226	222	217	212	204
20	295	286	279	273	268	263	257	250	241
16	332	320	312	306	300	294	288	280	270

* 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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Climate Division: AL 2 NWS Call Sign: Elevation: 1,062 Feet Lat: 34°34N Lon: 85°37W

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	865	684	517	283	109	6	0	0	34	253	499	772	4022
60	713	544	373	161	45	1	0	0	8	148	360	618	2971
57	626	460	292	106	22	0	0	0	3	100	282	533	2424
55	568	406	243	76	13	0	0	0	1	74	235	475	2091
50	430	279	144	25	3	0	0	0	0	29	138	340	1388
32	94	20	3	0	0	0	0	0	0	0	3	48	168

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	252	260	511	717	1004	1203	1369	1341	1119	802	496	300	9374
55	14	2	38	103	304	513	656	628	431	163	38	13	2903
57	10	1	25	73	251	453	594	566	372	127	25	9	2506
60	4	0	13	38	180	364	501	473	288	82	13	1	1957
65	0	0	2	10	89	219	346	319	163	32	2	0	1182
70	0	0	0	1	32	97	194	173	71	9	0	0	577

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	97	138	300	490	765	972	1132	1103	888	563	291	134	97	235	535	1025	1790	2762	3894	4997	5885	6448	6739	6873
45	48	69	189	352	610	822	977	948	738	412	181	71	48	117	306	658	1268	2090	3067	4015	4753	5165	5346	5417
50	20	31	102	227	456	672	822	793	588	276	103	34	20	51	153	380	836	1508	2330	3123	3711	3987	4090	4124
55	1	9	47	130	309	522	667	638	440	158	46	10	1	10	57	187	496	1018	1685	2323	2763	2921	2967	2977
60	0	0	13	57	181	374	512	483	301	74	14	0	0	0	13	70	251	625	1137	1620	1921	1995	2009	2009
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	62	106	208	329	499	661	778	757	592	381	200	87	62	168	376	705	1204	1865	2643	3400	3992	4373	4573	4660

(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.

- | | |
|---|---|
| <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