

Climatology of the United States

No. 20

1971-2000

Station: PUNTA GORDA 4 ESE, FL

COOP ID: 087397

Climate Division: FL 5

NWS Call Sign:

Elevation: 20 Feet

Lat: 26° 55N

Lon: 82° 00W

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	74.7	52.1	63.4	89	1993	11	71.1	1974	23	1982	12	54.2	1981	159	93	.0	.0	31.0	.0	.9	.0
Feb	76.1	53.2	64.7	92	1997	21	70.3	1982	27	1996	5	57.4	1978	98	88	.0	@	28.2	.0	.3	.0
Mar	80.1	57.2	68.7	93	2001	3	73.8	1997	29	1980	3	64.8	1971	32	145	.0	.6	31.0	.0	.1	.0
Apr	84.0	60.6	72.3	94	1975	27	76.6	1994	38	1971	8	67.5	1987	5	224	.0	2.6	30.0	.0	.0	.0
May	88.7	66.3	77.5	98	1985	26	80.5	1995	49+	1992	8	74.9	1992	0	388	.0	15.0	31.0	.0	.0	.0
Jun	91.1	71.6	81.4	101	1981	17	84.1	1998	57	1984	1	79.2	1976	0	490	@	23.6	30.0	.0	.0	.0
Jul	91.9	73.3	82.6	99	1998	3	84.1	1998	63+	1981	1	80.9	1974	0	546	.0	27.4	31.0	.0	.0	.0
Aug	91.9	73.7	82.8	99	2000	1	84.5	1998	65+	1978	22	81.9	1994	0	552	.0	27.4	31.0	.0	.0	.0
Sep	90.5	72.7	81.6	95+	2001	1	82.7+	1986	61	1984	21	80.1	1984	0	498	.0	22.4	30.0	.0	.0	.0
Oct	86.2	66.5	76.4	94+	1986	5	80.0	1985	46+	1989	21	72.9	1987	1	351	.0	5.8	31.0	.0	.0	.0
Nov	80.9	59.8	70.4	93	1986	1	76.8	1986	28	1970	25	66.0	1976	18	177	.0	.1	30.0	.0	.0	.0
Dec	76.0	54.0	65.0	89	1994	10	70.4	1971	25	1989	24	60.1	1989	91	92	.0	.0	31.0	.0	.5	.0
Ann	84.3	63.4	73.9	101	Jun 1981	17	84.5	Aug 1998	23	Jan 1982	12	54.2	Jan 1981	404	3644	@	124.9	365.2	.0	1.8	.0

+ 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: 1965-2001

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

064-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: PUNTA GORDA 4 ESE, FL

COOP ID: 087397

Climate Division: FL 5

NWS Call Sign:

Elevation: 20 Feet

Lat: 26°55N

Lon: 82°00W

Precipitation (inches)

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	2.21	1.87	3.00	1979	12	7.07	1979	.08	1990	6.0	4.0	1.6	.6	.17	.31	.60	.91	1.25	1.63	2.10	2.69	3.51	4.88	6.24
Feb	2.32	1.95	2.03	1983	13	11.05	1983	.03	1999	5.9	3.9	1.6	.8	.18	.34	.64	.96	1.32	1.72	2.21	2.83	3.68	5.10	6.51
Mar	2.73	2.24	4.20	2001	30	8.18	1987	.39	1977	5.4	3.9	1.8	1.0	.35	.57	.96	1.34	1.74	2.18	2.70	3.33	4.19	5.60	6.96
Apr	1.70	1.51	2.21	1994	27	5.80	1994	.00+	1981	4.1	2.8	1.3	.4	.00	.11	.36	.62	.91	1.23	1.62	2.10	2.77	3.89	5.00
May	3.15	2.63	4.70	1970	24	9.45	1991	.07	1992	6.7	5.0	2.0	1.1	.26	.47	.88	1.32	1.80	2.35	3.00	3.83	4.97	6.88	8.77
Jun	8.45	7.39	10.65	1995	23	23.99	1974	2.00	1979	13.5	10.0	5.3	2.9	2.74	3.54	4.72	5.73	6.70	7.71	8.81	10.09	11.75	14.32	16.70
Jul	7.78	7.68	3.55	1985	20	14.22	1995	3.52+	1990	16.3	12.6	5.4	2.3	4.03	4.67	5.54	6.23	6.86	7.49	8.16	8.92	9.86	11.28	12.54
Aug	7.82	8.33	10.35	1995	25	15.69	1981	3.36	1976	16.3	11.6	4.9	1.9	3.36	4.07	5.05	5.86	6.61	7.38	8.20	9.14	10.33	12.14	13.78
Sep	6.75	6.41	6.30	1997	27	14.03	1979	1.23	1978	13.8	9.6	4.3	2.1	2.51	3.14	4.05	4.81	5.53	6.26	7.06	7.99	9.17	10.98	12.64
Oct	3.12	2.37	4.90	1987	12	10.88	1995	.10	1981	6.9	4.9	2.1	.9	.26	.48	.89	1.32	1.80	2.34	2.99	3.80	4.92	6.79	8.63
Nov	1.88	1.79	3.40	1968	9	5.07	1987	.05	1990	5.1	3.4	1.4	.4	.11	.22	.45	.71	1.00	1.33	1.74	2.27	3.00	4.25	5.49
Dec	1.77	1.29	3.32	1969	10	6.47	1997	.25	1981	4.9	3.1	1.2	.6	.18	.31	.55	.80	1.07	1.36	1.72	2.16	2.76	3.76	4.73
Ann	49.68	50.10	10.65	Jun 1995	23	23.99	Jun 1974	.00+	Apr 1981	104.9	74.8	32.9	15.0	35.79	38.49	41.95	44.56	46.89	49.13	51.44	53.99	57.08	61.56	65.43

+ 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: 1965-2001

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

Complete documentation available from:

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

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Station: PUNTA GORDA 4 ESE, FL

COOP ID: 087397

Climate Division: FL 5

NWS Call Sign:

Elevation: 20 Feet

Lat: 26°55N

Lon: 82°00W

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	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.0	.0	N/A	N/A	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0

+ 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

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Climate Division: FL 5

NWS Call Sign:

Elevation: 20 Feet

Lat: 26°55N

Lon: 82°00W

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	3/06	2/24	2/17	2/10	2/05	1/29	1/23	1/14	12/29
32	2/13	2/02	1/24	1/15	1/04	0/00	0/00	0/00	0/00
28	1/26	1/14	12/30	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
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	12/07	12/17	12/24	12/30	1/05	1/11	1/18	1/27	2/12
32	12/19	12/29	1/07	1/15	1/25	0/00	0/00	0/00	0/00
28	1/10	1/24	0/00	0/00	0/00	0/00	0/00	0/00	0/00
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00
Freeze Free Period									
Temp (F)	Probability of longer than indicated freeze free period (Days)								
	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	>365	>365	352	336	327	319	312	304	294
32	>365	>365	>365	>365	>365	>365	>365	337	321
28	>365	>365	>365	>365	>365	>365	>365	>365	>365
24	>365	>365	>365	>365	>365	>365	>365	>365	>365
20	>365	>365	>365	>365	>365	>365	>365	>365	>365
16	>365	>365	>365	>365	>365	>365	>365	>365	>365

* 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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No. 20
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Station: PUNTA GORDA 4 ESE, FL

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Climate Division: FL 5 NWS Call Sign: Elevation: 20 Feet Lat: 26°55N Lon: 82°00W

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	159	98	32	5	0	0	0	0	0	1	18	91	404
60	89	39	6	0	0	0	0	0	0	0	2	32	168
57	54	20	2	0	0	0	0	0	0	0	0	15	91
55	38	12	0	0	0	0	0	0	0	0	0	8	58
50	15	3	0	0	0	0	0	0	0	0	0	1	19
32	0	0	0	0	0	0	0	0	0	0	0	0	0

Base	Cooling Degree Days (1)												
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	972	914	1136	1209	1411	1480	1569	1575	1488	1374	1149	1024	15301
55	297	283	423	519	698	790	856	862	798	661	459	319	6965
57	251	234	362	459	636	730	794	800	738	599	399	264	6266
60	192	170	274	369	543	640	701	707	648	506	312	188	5250
65	93	88	145	224	388	490	546	552	498	351	177	92	3644
70	52	32	57	103	235	340	391	397	348	204	78	30	2267

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	734	720	899	983	1176	1250	1333	1334	1253	1134	916	785	734	1454	2353	3336	4512	5762	7095	8429	9682	10816	11732	12517
45	581	576	744	833	1021	1100	1178	1179	1103	979	766	631	581	1157	1901	2734	3755	4855	6033	7212	8315	9294	10060	10691
50	428	432	589	683	866	950	1023	1024	953	824	617	477	428	860	1449	2132	2998	3948	4971	5995	6948	7772	8389	8866
55	295	298	437	533	711	800	868	869	803	669	468	335	295	593	1030	1563	2274	3074	3942	4811	5614	6283	6751	7086
60	173	179	289	383	556	650	713	714	653	514	323	206	173	352	641	1024	1580	2230	2943	3657	4310	4824	5147	5353
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	471	468	598	672	811	866	926	929	884	798	622	509	471	939	1537	2209	3020	3886	4812	5741	6625	7423	8045	8554

(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