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: PENSACOLA RGNL AP, FL 1971-2000 COOP ID: 086997

Climate Division: FL 1 NWS Call Sign: PNS Elevation: 112 Feet Lat: 30°29N Lon: 87°11W

									r	Гетр	eratur	re (°F)									
	Mea	n (1)						Extr	emes					Degree Base To	Days (1) emp 65		Mean	Numb	er of I	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	61.2	42.7	52.0	81	1949	11	65.7	1974	5	1985	21	41.6	1977	416	5	.0	.0	27.1	.1	6.1	.0
Feb	64.4	45.4	54.9	82	1972	26	60.9	1975	13	1951	3	47.1	1978	299	11	.0	.0	26.3	@	3.2	.0
Mar	70.2	51.7	61.0	86+	2000	30	66.9	1997	22	1980	2	54.7	1983	171	42	.0	.0	30.6	.0	.8	.0
Apr	76.2	57.6	66.9	96	1987	22	71.0	1999	33	1987	4	61.3	1983	48	107	.0	.1	30.0	.0	.0	.0
May	83.4	65.8	74.6	102	1953	27	78.2	1998	45	1960	13	70.3	1981	1	296	.0	2.6	31.0	.0	.0	.0
Jun	89.0	72.1	80.6	101+	1988	27	84.4	1998	56+	1984	2	76.0	1983	0	466	.1	13.4	30.0	.0	.0	.0
Jul	90.7	74.5	82.6	106	1980	14	85.6	2000	61+	1967	16	80.1	1982	0	541	.5	19.8	31.0	.0	.0	.0
Aug	90.1	74.2	82.2	104	1986	1	84.5	1995	62+	1992	30	80.0	1992	0	529	.2	18.3	31.0	.0	.0	.0
Sep	87.0	70.4	78.7	98+	1997	21	82.2	1972	43	1967	29	75.2	1983	1	412	.0	9.4	30.0	.0	.0	.0
Oct	79.3	59.6	69.5	95	1951	5	75.2	1984	32	1993	31	62.9	1976	35	174	.0	.3	31.0	.0	@	.0
Nov	70.3	51.1	60.7	87	1959	2	67.8	1985	22	1950	25	51.5	1976	175	48	.0	.0	29.7	.0	.6	.0
Dec	63.4	44.7	54.1	81+	1978	3	63.0	1971	11+	1989	24	46.1	1989	352	19	.0	.0	28.1	.1	4.5	.0
Ann	77.1	59.2	68.2	106	Jul 1980	14	85.6	Jul 2000	5	Jan 1985	21	41.6	Jan 1977	1498	2650	.8	63.9	355.8	.2	15.2	.0

⁺ Also occurred on an earlier date(s)

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

Issue Date: February 2004 060-A

- (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

[@] Denotes mean number of days greater than 0 but less than .05

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COOP ID: 086997

Station: PENSACOLA RGNL AP, FL

Climate Division: FL 1 NWS Call Sign: PNS Elevation: 112 Feet Lat: 30°29N Lon: 87°11W

										Pı	recipi	tation	(incl	ies)										
	Mea Media		P	recipi	itatio	on Totals					ean N of D	ays (3)	Proba		M	nonthly/	annual j indic	orecipita ated am	ount vs Probal	ies (1) Il be equ	els		an the
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	5.34	4.53	5.44	1978	25	18.77	1991	.60	1981	9.5	6.9	3.5	1.5	1.22	1.72	2.50	3.20	3.90	4.65	5.48	6.48	7.79	9.88	11.84
Feb	4.68	4.76	5.75	1955	5	9.98	1986	.78	1999	8.4	6.1	3.1	1.4	1.09	1.53	2.21	2.83	3.44	4.08	4.80	5.67	6.80	8.59	10.28
Mar	6.40	5.87	11.10	1979	3	12.96	1979	2.99	1987	8.7	6.5	3.7	2.2	2.81	3.39	4.18	4.84	5.44	6.06	6.71	7.47	8.42	9.87	11.18
Apr	3.89	2.97	4.48	1957	1	10.78	1983	.38	1987	6.5	4.6	2.5	1.1	.57	.90	1.46	2.00	2.56	3.17	3.88	4.75	5.91	7.81	9.63
May	4.40	4.26	4.94	1987	10	10.31	1987	.08	1988	7.5	5.3	2.5	1.5	.55	.90	1.52	2.14	2.79	3.51	4.34	5.38	6.78	9.09	11.32
Jun	6.39	5.27	6.42	1970	3	21.14	1994	.86	1979	10.2	7.3	3.6	1.9	1.00	1.54	2.47	3.35	4.27	5.26	6.41	7.81	9.68	12.72	15.64
Jul	8.02	6.76	5.14	1975	30	20.36	1979	2.10	1990	13.4	10.1	4.9	2.3	2.28	3.04	4.19	5.19	6.17	7.19	8.32	9.65	11.37	14.08	16.60
Aug	6.85	6.09	6.29	1950	30	14.14	1987	2.09	1998	11.9	8.6	4.2	2.3	2.35	3.00	3.94	4.74	5.51	6.29	7.15	8.15	9.44	11.42	13.25
Sep	5.75	5.12	11.68	1956	24	19.71	1998	.39	1984	9.5	6.5	3.2	1.8	.65	1.09	1.89	2.69	3.54	4.50	5.62	7.02	8.91	12.04	15.09
Oct	4.13	2.91	5.04	1990	17	14.84	1985	.00+	1978	4.8	3.7	2.2	1.4	.00	.22	.81	1.43	2.12	2.91	3.87	5.06	6.75	9.59	12.41
Nov	4.46	3.63	4.90	1995	1	13.27	1995	.30	1981	7.8	5.5	2.7	1.5	.75	1.14	1.79	2.40	3.03	3.71	4.49	5.44	6.71	8.76	10.73
Dec	3.97	4.07	3.50	1995	18	9.58	1982	.57	1980	8.9	6.1	2.5	1.2	1.16	1.54	2.10	2.59	3.07	3.57	4.12	4.76	5.60	6.91	8.13
Ann	64.28	68.66	11.68	Sep 1956	24	21.14	Jun 1994	.00+	Oct 1978	107.1	77.2	38.6	20.1	41.91	46.10	51.54	55.72	59.47	63.12	66.93	71.16	76.33	83.91	90.52

⁺ Also occurred on an earlier date(s)

Complete documentation available from:

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

[#] 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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COOP ID: 086997

Station: PENSACOLA RGNL AP, FL

Climate Division: FL 1 NWS Call Sign: PNS Elevation: 112 Feet Lat: 30°29N Lon: 87°11W

		Snow Fall Median Median Median Fall Highest Snow Fall Day Snow Fall Mean Median Fall Day Fall Day Fall Day Fall Day Fall Day Fall Day Fall Depth Depth Snow Fall Day Fall Depth Fall Depth Depth Depth Snow Fall Day Fall Depth Depth Depth Snow Fall Day Fall Depth Depth Depth Snow Snow Fall Day Fall Depth Depth Depth Snow Snow Snow Snow Snow Snow Snow Snow																					
		Snow Snow Snow Snow Depth Median M															Mea	n Nu	mber	of Day	ys (1)		
	Mean	s/Medi	ans (1))					Extre	mes (2)							ow Fa					Depth esholo	
Month	Snow Fall Mean	Fall	Depth	Depth	Daily Snow	Year	Day	Monthly Snow	Year	Daily Snow	Year	Day	Monthly Mean Snow	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	.1	.0	0	0	1.5	1977	31	2.5	1977	#	1977	31	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Feb	.1	.0	0	0	1.8	1973	9	1.9	1973	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Mar	#	.0	0	0	#	1993	13	#+	1993	#+	1993	13	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	#	1993	.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	#	1993	24	#+	1993	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.2	.0	N/A	N/A	1.8	Feb 1973	9	2.5	Jan 1977	#+	Mar 1993	13	#	May 1993	.2	.1	.0	.0	.0	.0	.0	.0	.0

⁺ Also occurred on an earlier date(s) #Denotes trace amounts

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

[@] 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

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1971-2000

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Elevation: 112 Feet Lat: 30°29N Lon: 87°11W

				Freez	e Data				
			Spri	ng Freeze D	ates (Month/	/Day)			
Temp (F)		P	robability of	later date i	n spring (thr	ru Jul 31) tha	n indicated((*)	
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	3/27	3/20	3/16	3/12	3/08	3/04	2/28	2/23	2/17
32	3/13	3/06	3/02	2/26	2/22	2/18	2/15	2/10	2/04
28	3/02	2/21	2/15	2/09	2/04	1/30	1/24	1/17	1/07
24	2/20	2/08	1/30	1/22	1/12	12/29	0/00	0/00	0/00
20	1/24	1/12	12/30	0/00	0/00	0/00	0/00	0/00	0/00
16	1/15	12/28	0/00	0/00	0/00	0/00	0/00	0/00	0/00
			Fa	ll Freeze Da	tes (Month/D	Day)			•
Temp (F)		Pro	bability of e	arlier date i	n fall (beginn	ning Aug 1) t	han indicate	d(*)	
remp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	11/01	11/09	11/15	11/20	11/24	11/29	12/04	12/10	12/18
32	11/12	11/22	11/29	12/05	12/10	12/16	12/22	12/28	1/07
28	11/25	12/06	12/14	12/21	12/28	1/03	1/11	1/19	2/02
24	12/20	12/31	1/09	1/18	1/27	2/10	0/00	0/00	0/00
20	12/26	1/08	1/21	0/00	0/00	0/00	0/00	0/00	0/00
16	1/09	1/29	0/00	0/00	0/00	0/00	0/00	0/00	0/00
-			•	Freeze F	ree Period		•	•	
Tomp (E)			Probability	of longer th	an indicated	freeze free p	eriod (Days)		
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	291	281	273	267	261	255	249	241	231
32	318	307	300	294	288	283	277	271	262
28	>365	>365	337	327	319	312	305	297	287
24	>365	>365	>365	>365	>365	>365	>365	335	313
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.

Complete documentation available from:

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				Deg	ree Days t	o Selected	Base Tem	peratures	(°F)				
Base						Heatin	g Degree l	Days (1)					
Below	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
65	416	299	171	48	1	0	0	0	1	35	175	352	1498
60	314	173	85	9	0	0	0	0	0	12	106	238	937
57	253	119	48	3	0	0	0	0	0	5	67	180	675
55	218	89	30	1	0	0	0	0	0	3	47	146	534
50	140	34	8	0	0	0	0	0	0	0	17	76	275
32	10	0	0	0	0	0	0	0	0	0	0	1	11

Base						Coolin	g Degree l	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	622	640	898	1048	1320	1456	1567	1553	1401	1161	861	686	13213
55	82	101	219	360	607	766	854	840	711	450	213	109	5312
57	60	74	174	302	545	706	792	778	651	390	171	83	4726
60	35	43	114	221	452	616	699	685	561	303	117	52	3898
65	5	11	42	107	296	466	541	529	412	174	48	19	2650
70	1	1	9	30	155	316	389	375	267	76	12	3	1634

										Gro	wing [Degre	e Uni	ts (2)										
Base					Growin	g Degree	Units (M	(Ionthly)					Growing Degree Units (Accumulated Monthly)											
	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec													Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	391	447	659	818	1081	1225	1328	1312	1167	922	629	455	391	838	1497	2315	3396	4621	5949	7261	8428	9350	9979	10434
45													268	585	1093	1761	2687	3762	4935	6092	7109	7876	8359	8677
50													161	363	725	1243	2014	2939	3957	4959	5826	6438	6780	6983
55	87	111	224	370	616	775	863	847	717	461	221	116	87	198	422	792	1408	2183	3046	3893	4610	5071	5292	5408
60	39	49	120	230	461	625	708	692	567	311	125	56	39	88	208	438	899	1524	2232	2924	3491	3802	3927	3983
Base	Growing Degree Units for Corn (Monthly)													Gr	owing D	egree Un	its for C	orn (Acc	umulate	d Month	ly)	•		
50/86	0/86 224 254 398 527 759 874 938 934 829 618 386 26												224	478	876	1403	2162	3036	3974	4908	5737	6355	6741	7002

(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

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

- c. Snow Tables
 - 1. Snow Climatology
 - 2. Cooperative Summary of the Day
- d. Freeze Data Table

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

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