### 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

**COOP ID: 265880** 

Station: PAHRANAGAT W L REFUGE, NV

**Climate Division: NV 4 NWS Call Sign:** Elevation: 3,400 Feet Lat: 37°16N Lon: 115°07W

									r	Гетре	eratur	e (°F)									
	Mea	<b>n</b> (1)						Extr	emes					Degree Base To	•		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	52.1	24.9	38.5	75	1971	18	45.6	1986	6+	1970	4	31.5	1974	821	0	.0	.0	19.9	.4	25.9	.0
Feb	58.4	29.0	43.7	83+	1986	25	51.3	1995	4+	1989	6	38.8	1990	596	0	.0	.0	24.1	.4	17.4	.0
Mar	64.3	33.4	48.9	88	1966	31	55.4	1994	16+	1971	2	43.0	1973	502	2	.0	.0	29.6	.0	9.3	.0
Apr	72.5	40.0	56.3	95	1989	7	63.5	1989	19+	1966	20	49.1	1975	288	25	.0	.7	29.8	.0	3.1	.0
May	82.0	48.5	65.3	102+	1984	22	70.6	1984	27	1967	1	58.3	1998	106	114	.4	5.5	31.0	.0	.1	.0
Jun	93.3	57.2	75.3	110+	1985	18	80.6	1981	38	1971	1	69.7	1998	9	315	4.8	20.7	30.0	.0	.0	.0
Jul	99.3	63.6	81.5	112+	1985	5	84.5	1996	46	1982	1	78.0	1987	0	509	13.8	29.3	31.0	.0	.0	.0
Aug	97.5	62.0	79.8	111	1981	7	83.2	1977	44+	1978	24	75.3	1976	0	458	10.4	27.7	31.0	.0	.0	.0
Sep	89.7	53.5	71.6	106	1996	1	74.8	1979	32+	1965	19	66.2	1986	17	214	1.3	15.8	30.0	.0	.0	.0
Oct	77.4	42.4	59.9	102	1980	1	65.9	1988	19	1971	30	54.0	1982	201	43	@	2.9	30.8	.0	1.8	.0
Nov	62.4	31.3	46.9	86	1980	4	53.0	1999	9	1976	29	40.9	1994	544	0	.0	.0	27.7	.0	14.7	.0
Dec	53.0	24.4	38.7	74	1980	16	46.0	1980	-1	1990	22	32.2	1990	816	0	.0	.0	21.1	.4	26.8	@
Ann	75.2	42.5	58.9	112+	Jul 1985	5	84.5	Jul 1996	-1	Dec 1990	22	31.5	Jan 1974	3900	1680	30.7	102.6	336.0	1.2	99.1	@

<sup>+</sup> Also occurred on an earlier date(s)

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

Issue Date: February 2004 041-A

- (1) From the 1971-2000 Monthly Normals
- (2) Derived from station's available digital record: 1964-2001
- (3) Derived from 1971-2000 serially complete daily data

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

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Station: PAHRANAGAT W L REFUGE, NV COOP ID: 265880

Climate Division: NV 4 NWS Call Sign: Elevation: 3,400 Feet Lat: 37°16N Lon: 115°07W

										Pı	recipi	tation	(incl	nes)										
			P	recip	itatio	n Total	s			M	ean N	lumbo ays (3		Proba	bility th	nat the n		annual <sub>I</sub>			ies (1)	al to or	less tha	ın the
	Medi					Extremes	3			D	aily Pre	cipitatio	n		Th		•		-		oility Levo e gamma		on	
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	.71	.56	1.06	1992	6	2.14	1993	.00+	1976	3.6	2.2	.3	@	.00	.00	.17	.30	.42	.55	.71	.90	1.15	1.57	1.98
Feb	.69	.27	1.16	1976	7	3.22	1998	+00.	1997	3.5	1.6	.3	.1	.00	.00	.05	.14	.26	.40	.58	.82	1.17	1.76	2.36
Mar	.88	.67	.87	1973	12	3.03	1992	.00+	1999	4.4	2.7	.3	@	.00	.00	.09	.20	.35	.53	.75	1.05	1.47	2.21	2.95
Apr	.55	.28	1.35	1965	1	2.33	1988	.00+	1996	2.7	1.7	.3	.1	.00	.00	.00	.04	.15	.29	.46	.68	.98	1.50	2.01
May	.49	.42	.91	1977	24	1.59	1977	.00+	2000	3.1	1.5	.1	.0	.00	.00	.11	.21	.30	.40	.50	.63	.81	1.08	1.34
Jun	.19	.04	.70	1967	13	.88	1972	.00+	1996	1.2	.8	.1	.0	.00	.00	.00	.00	.00	.04	.12	.22	.35	.59	.82
Jul	.40	.18	1.38	1968	31	4.05	1984	.00+	2000	2.1	1.0	.3	.1	.00	.00	.00	.03	.09	.18	.29	.45	.68	1.11	1.55
Aug	.70	.32	1.73	1983	18	3.60	1983	.00+	1998	2.9	1.4	.5	.1	.00	.00	.03	.13	.26	.41	.60	.85	1.20	1.80	2.41
Sep	.40	.15	1.20	1966	19	2.30	1997	.00+	1998	1.9	1.1	.2	.0	.00	.00	.00	.00	.03	.12	.24	.42	.69	1.18	1.69
Oct	.61	.28	1.44	1974	9	3.18	1974	.00+	1999	2.5	1.5	.3	.1	.00	.00	.00	.07	.17	.30	.47	.71	1.05	1.65	2.26
Nov	.53	.37	.81	1987	2	2.48	1987	.00+	1995	2.3	1.5	.2	.0	.00	.00	.00	.07	.20	.34	.50	.68	.94	1.36	1.76
Dec	.46	.31	.92	1991	19	1.91	1994	.00+	1999	2.2	1.2	.1	.0	.00	.00	.00	.08	.18	.28	.41	.57	.80	1.19	1.57
Ann	6.61	6.16	1.73	Aug 1983	18	4.05	Jul 1984	.00+	Jul 2000	32.4	18.2	3.0	.5	3.10	3.67	4.46	5.10	5.69	6.29	6.92	7.64	8.55	9.92	11.16

<sup>+</sup> Also occurred on an earlier date(s)

Complete documentation available from:

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

<sup>#</sup> Denotes amounts of a trace

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>\*\*</sup> Statistics not computed because less than six years out of thirty had measurable precipitation

<sup>(1)</sup> From the 1971-2000 Monthly Normals

<sup>(2)</sup> Derived from station's available digital record: 1964-2001

<sup>(3)</sup> Derived from 1971-2000 serially complete daily data

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**COOP ID: 265880** 

Station: PAHRANAGAT W L REFUGE, NV

Climate Division: NV 4 NWS Call Sign: Elevation: 3,400 Feet Lat: 37°16N Lon: 115°07W

										Snov	w (inc	hes)											
						Sno	ow To	tals									Mea	n Nu	mber	of Da	<b>ys</b> (1)		
	Mean	s/Medi	ians (1)	)					Extre	mes (2)							ow Fa				Snow = Thr	_	
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	.8	.0	#	0	5.5	1997	14	5.5	1997	2	1988	18	#+	1990	.4	.4	.1	.1	.0	.1	.0	.0	.0
Feb	.2	.0	0	0	3.5	1989	4	3.5	1989	0	0	0	0	0	.3	.1	.1	.0	.0	.0	.0	.0	.0
Mar	.2	.0	#	0	3.5	1976	3	3.5	1976	3	1976	3	#	1976	.1	.1	.1	.0	.0	@	@	.0	.0
Apr	#	.0	0	0	#	1976	16	#	1976	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	#	1971	17	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.1	.0	0	0	2.0	1985	12	2.0	1985	0	0	0	0	0	.1	.1	.0	.0	.0	.0	.0	.0	.0
Dec	.3	.0	#	0	4.0	1992	18	5.0	1984	3	1984	19	#	1984	.2	.1	.1	.0	.0	.2	@	.0	.0
Ann	1.6	.0	N/A	N/A	5.5	Jan 1997	14	5.5	Jan 1997	3+	Dec 1984	19	#+	Jan 1990	1.1	.8	.4	.1	.0	.3	@	.0	.0

<sup>+</sup> Also occurred on an earlier date(s) #Denotes trace amounts

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

<sup>@</sup> Denotes mean number of days greater than 0 but less than .05

<sup>-9/-9.9</sup> represents missing values Annual statistics for Mean/Median snow depths are not appropriate

<sup>(1)</sup> Derived from Snow Climatology and 1971-2000 daily data

<sup>(2)</sup> Derived from 1971-2000 daily data

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**COOP ID: 265880** 

Lon: 115°07W

Lat: 37°16N

Elevation: 3,400 Feet

Station: PAHRANAGAT W L REFUGE, NV

**Climate Division: NV 4 NWS Call Sign:** 

				Freez	e Data										
			Spri	ng Freeze Da	ates (Month/	Day)									
Temp (F)		P	robability of	later date in	n spring (thr	u Jul 31) tha	n indicated(	*)							
Temp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90						
36	5/27	5/20	5/14	5/09	5/05	4/30	4/26	4/20	4/12						
32	5/06	4/27	4/21	4/16	4/11	4/06	4/01	3/26	3/17						
28	4/17	4/08	4/01	3/26	3/21	3/16	3/10	3/03	2/22						
24	3/31	3/20	3/12	3/06	2/27	2/21	2/14	2/06	1/26						
20	3/19	3/03	2/20	2/11	2/02	1/24	1/14	1/02	12/14						
16	2/24	2/10	1/31	1/22	1/14	1/05	12/26	12/12	0/00						
-		•	Fal	l Freeze Dat	es (Month/D	ay)	•								
T (E)	Fall Freeze Dates (Month/Day)  Probability of earlier date in fall (beginning Aug 1) than indicated(*)  Probability of earlier date in fall (beginning Aug 1) than indicated(*)														
temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90						
36	10/07	10/12	10/15	10/18	10/21	10/24	10/27	10/31	11/05						
32	10/12	10/18	10/22	10/25	10/28	10/31	11/04	11/08	11/13						
28	10/22	10/27	10/31	11/03	11/06	11/09	11/12	11/16	11/21						
24	11/04	11/09	11/12	11/16	11/18	11/21	11/25	11/28	12/03						
20	11/13	11/20	11/25	11/30	12/04	12/08	12/13	12/18	12/27						
16	11/25	12/05	12/11	12/18	12/23	12/29	1/05	1/15	0/00						
-			•	Freeze F	ree Period		•								
Temp (F)			<b>Probability</b>	of longer tha	an indicated	freeze free p	eriod (Days)								
remp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90						
36	194	185	179	174	169	164	158	152	143						
32	229	219	211	205	200	194	188	180	170						
28	263	252	243	236	229	223	215	207	195						
24	295	284	276	270	264	257	251	243	232						
20	>365	340	322	311	301	291	282	271	256						
16	>365	>365	>365	349	334	324	315	306	293						

<sup>\*</sup> 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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				Deg	ree Days to	<b>Selected</b>	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	821	596	502	288	106	9	0	0	17	201	544	816	3900
60	666	456	357	179	47	2	0	0	3	106	398	661	2875
57	573	375	275	127	25	0	0	0	1	66	316	568	2326
55	511	322	226	98	15	0	0	0	0	46	265	506	1989
50	366	200	127	42	4	0	0	0	0	15	154	362	1270
32	33	5	0	0	0	0	0	0	0	0	3	33	74

Base						Coolin	g Degree I	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	235	333	523	727	1031	1296	1532	1481	1187	865	449	240	9899
55	0	6	36	135	333	606	819	768	497	198	21	1	3420
57	0	2	23	104	280	546	757	706	438	156	12	0	3024
60	0	0	12	66	209	458	664	613	350	103	5	0	2480
65	0	0	2	25	114	315	509	458	214	43	0	0	1680
70	0	0	0	8	50	189	354	306	106	12	0	0	1025

										Gro	wing 1	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														254	578	1097	1901	2959	4239	5472	6429	7069	7309	7386
45													21	98	282	655	1304	2212	3337	4415	5222	5712	5840	5859
50													0	21	100	338	833	1591	2561	3484	4141	4483	4535	4535
55	0	1	26	122	344	609	815	768	508	210	13	0	0	1	27	149	493	1102	1917	2685	3193	3403	3416	3416
60	0	0	0	49	211	459	660	613	362	102	0	0	0	0	0	49	260	719	1379	1992	2354	2456	2456	2456
Base	Growing Degree Units for Corn (Monthly)														Gr	owing D	egree Ur	its for C	orn (Acc	umulate	d Month	ly)		•
50/86	<b>0/86</b> 79 149 234 353 515 645 775 754 601 427 197 86												79	228	462	815	1330	1975	2750	3504	4105	4532	4729	4815

(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