Climate Division: ID 8

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: 105462

Lon: 113°38W

Station: MACKAY LOST RIVER RS, ID

Elevation: 5,897 Feet Lat: 43°55N

	Daily Daily Highert Lowert Lowert																				
	Mea	n (1)						Extr	emes								Mean	Numb	er of I	Days (3)	
Month			Mean	U	Year	Day	Month(1)	Year		Year	Day	Month(1)	Year	Heating	Cooling	>=	>=	>=	<=	<=	Min <= 0
Jan	30.4	6.4	18.4	51	1977	17	26.0	1981	-28	1942	5	8.4	1979	1444	0	.0	.0	@	18.3	31.0	8.9
Feb	35.7	10.4	23.1	58	1963	6	33.0	1991	-33	1985	4	12.7	1985	1175	0	.0	.0	.9	9.6	28.2	5.0
Mar	44.1	19.6	31.9	70	1986	29	41.3	1992	-18	1943	2	24.8	1985	1027	0	.0	.0	7.7	2.2	30.1	.7
Apr	55.8	27.6	41.7	85	1987	26	48.2	1987	-7	1936	1	34.0	1975	699	0	.0	.0	21.1	.1	22.5	.0
May	65.3	35.4	50.4	100	1939	30	57.0	1992	15	1954	2	45.7	1978	455	1	.0	@	29.2	.0	9.5	.0
Jun	74.9	42.1	58.5	100	1939	30	64.6	1974	19	1985	25	53.2	1998	223	27	.0	1.1	29.9	.0	2.1	.0
Jul	83.8	47.3	65.6	104	1939	27	68.9	1985	31+	1993	7	57.0	1993	81	99	.0	5.6	31.0	.0	.2	.0
Aug	82.5	45.6	64.1	103	1939	15	67.7	1971	27	1992	26	59.1	1993	93	64	.0	3.5	31.0	.0	.5	.0
Sep	73.1	37.7	55.4	98	1939	19	60.7	1990	10	1985	30	49.5	1986	296	8	.0	.2	29.6	.0	7.3	.0
Oct	60.1	28.9	44.5	84	1987	2	53.0	1988	-1	1984	30	38.9	1984	635	0	.0	.0	25.5	.2	21.1	.1
Nov	41.4	18.0	29.7	70	1931	4	35.9	1995	-17	1993	26	21.0	1994	1059	0	.0	.0	5.8	6.1	29.2	1.2
Dec	30.7	7.5	19.1	57	1936	15	25.2	1980	-32+	1990	22	10.2	1990	1424	0	.0	.0	.2	17.7	31.0	7.0
Ann	56.5	27.2	41.9	104	Jul 1939	27	68.9	Jul 1985	-33	Feb 1985	4	8.4	Jan 1979	8611	199	.0	10.4	211.9	54.2	212.7	22.9

⁺ Also occurred on an earlier date(s)

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

NWS Call Sign:

Issue Date: February 2004 061-A

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

⁽¹⁾ From the 1971-2000 Monthly Normals

⁽²⁾ Derived from station's available digital record: 1931-2001

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

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COOP ID: 105462

Station: MACKAY LOST RIVER RS, ID

Climate Division: ID 8 NWS Call Sign: Elevation: 5,897 Feet Lat: 43°55N Lon: 113°38W

										Pı	recipi	tation	(incl	nes)										
	Mea		P	recipi	itatio	on Total					ean N of D	ays (3)	Proba	ability th	M	nonthly/	annual j indic	precipita ated am	vs Proba	ll be equ	els		n the
	Medi	ans(1)									J		_		Th	ese value	s were det	ermined	from the	incomplet	e gamma	distributi	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	.65	.50	1.28	1952	16	1.52	1995	.14	1985	5.8	2.3	.1	.0	.15	.21	.30	.39	.48	.57	.67	.79	.95	1.20	1.44
Feb	.55	.42	3.20	1932	29	2.35	1999	.00	1988	5.4	1.6	.1	.0	.01	.05	.12	.20	.29	.39	.51	.67	.89	1.26	1.63
Mar	.80	.54	1.42	1980	27	2.84	1982	.00	1978	6.3	2.4	.3	.1	.02	.08	.19	.31	.44	.58	.76	.98	1.29	1.81	2.32
Apr	.66	.57	1.59	1981	19	2.04	1978	.00+	1977	5.7	2.1	.2	@	.00	.00	.16	.27	.39	.51	.66	.83	1.07	1.46	1.84
May	1.24	1.00	1.13	1957	19	3.17	1995	.00	1974	8.4	3.8	.7	@	.13	.27	.48	.66	.84	1.04	1.26	1.53	1.89	2.46	3.01
Jun	1.30	1.26	1.45	1938	30	3.53	1993	.00	1974	7.8	3.8	.6	.1	.11	.26	.47	.66	.86	1.07	1.31	1.61	2.01	2.65	3.26
Jul	1.06	.82	1.81	1987	17	3.54	1987	.00	1988	6.2	3.2	.4	.1	.08	.20	.37	.52	.68	.86	1.06	1.31	1.64	2.19	2.71
Aug	.89	.70	1.11	1952	1	2.52	1983	.00	1985	5.9	2.7	.3	.0	.07	.17	.31	.44	.58	.73	.90	1.10	1.38	1.84	2.27
Sep	.71	.52	1.45	1980	13	2.65	1980	.00+	1987	4.8	2.3	.3	.1	.00	.00	.07	.17	.29	.43	.61	.85	1.18	1.76	2.35
Oct	.58	.49	1.10	1940	26	2.11	2000	.00+	1978	4.4	2.0	.1	.0	.00	.00	.12	.22	.32	.43	.56	.73	.95	1.32	1.68
Nov	.66	.47	1.06	1946	19	2.25	1973	.00+	1999	5.2	2.1	.1	.0	.00	.05	.16	.27	.37	.50	.64	.81	1.05	1.45	1.84
Dec	.67	.52	1.25	1936	27	2.29	1996	.02	1979	5.9	2.2	.1	.0	.04	.08	.17	.26	.36	.48	.63	.82	1.08	1.52	1.96
Ann	9.77	9.43	3.20	Feb 1932	29	3.54	Jul 1987	.00+	Nov 1999	71.8	30.5	3.3	.4	5.75	6.48	7.43	8.18	8.86	9.52	10.22	11.01	11.97	13.40	14.67

⁺ 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: 1931-2001

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

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COOP ID: 105462

Station: MACKAY LOST RIVER RS, ID

Climate Division: ID 8 NWS Call Sign: Elevation: 5,897 Feet Lat: 43°55N Lon: 113°38W

										Snov	v (incl	hes)											
						Sno	ow To	tals									Mea	n Nui	nber (of Day	ys (1)		
	Mean	s/Medi	ans (1)	1					Extre	mes (2)							ow Fa					Depth esholo	
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	8.2	7.0	4	0	6.0	1971	12	15.0	1978	29	1971	16	24	1971	3.0	2.3	.8	.3	.0	-9.9	-9.9	-9.9	-9.9
Feb	5.0	3.5	1	0	8.0	1978	11	16.1	1975	15	1971	28	15	1971	2.4	1.8	.5	.2	.0	-9.9	-9.9	-9.9	-9.9
Mar	1.6	.0	1	0	6.0	1976	1	7.0	1973	15	1971	1	11	1971	1.1	.9	.3	.2	.0	.6	.3	.0	.0
Apr	.2	.0	#	0	3.0	1975	5	3.0+	1975	3	1976	2	#+	1976	.1	.1	.1	.0	.0	.1	.1	.0	.0
May	.3	.0	0	0	5.0	1975	4	5.0	1975	0	0	0	0	0	.1	.1	.1	.1	.0	.0	.0	.0	.0
Jun	#	.0	0	0	#	1973	17	#	1973	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	#	1971	26	#	1971	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.3	1976	25	.3	1976	0	0	0	0	0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Nov	1.8	.0	#	0	8.0	1975	10	8.0	1973	8	1975	10	1	1975	.6	.4	.1	.1	.0	.2	.0	.0	.0
Dec	3.1	-99.9	1	0	6.0	1971	5	12.4	1974	15	1971	23	4	1971	4.0	3.0	1.0	.2	.0	-9.9	-9.9	-9.9	-9.9
Ann	20.2	-9.9	N/A	N/A	8.0+	Feb 1978	11	16.1	Feb 1975	29	Jan 1971	16	24	Jan 1971	11.4	8.6	2.9	1.1	.0	-9.9	-9.9	-9.9	-9.9

⁺ 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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NWS Call Sign:

				Freez	ze Data				
			Spri	ng Freeze D	ates (Month/	Day)			
Temp (F)		P	robability of	later date i	n spring (thr	u Jul 31) tha	n indicated(*)	
temp (r)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	7/21	7/15	7/10	7/06	7/02	6/28	6/24	6/19	6/12
32	7/05	6/28	6/23	6/19	6/15	6/11	6/07	6/02	5/26
28	6/10	6/03	5/29	5/24	5/20	5/16	5/12	5/07	4/30
24	5/25	5/19	5/14	5/09	5/06	5/02	4/28	4/23	4/16
20	5/16	5/08	5/03	4/28	4/24	4/19	4/14	4/09	4/01
16	4/24	4/18	4/13	4/09	4/06	4/02	3/30	3/25	3/19
•			Fal	l Freeze Da	tes (Month/D	ay)			
Town (F)		Pro	bability of ea	arlier date i	n fall (beginn	ing Aug 1) t	han indicate	d(*)	
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	8/13	8/18	8/22	8/26	8/29	9/01	9/05	9/09	9/14
32	8/24	8/29	9/02	9/06	9/09	9/12	9/15	9/19	9/25
28	9/05	9/10	9/14	9/18	9/21	9/24	9/27	10/01	10/07
24	9/15	9/21	9/25	9/29	10/03	10/06	10/10	10/15	10/21
20	9/25	10/02	10/07	10/12	10/16	10/20	10/25	10/30	11/06
16	10/09	10/16	10/21	10/25	10/29	11/02	11/06	11/11	11/18
		•		Freeze F	ree Period				<u> </u>
Tomp (F)			Probability	of longer th	an indicated	freeze free p	eriod (Days)		
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90
36	85	75	69	63	58	52	47	40	31
32	110	101	95	90	85	80	75	69	60
28	143	136	131	127	123	119	115	110	103
24	174	166	160	154	150	145	139	133	125
20	206	196	188	181	175	169	162	154	143
16	235	225	217	211	205	199	193	186	175

^{*} 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:

Elevation: 5,897 Feet

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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	1444	1175	1027	699	455	223	81	93	296	635	1059	1424	8611
60	1289	1035	872	549	307	121	25	29	173	483	909	1269	7061
57	1196	951	779	463	226	76	11	11	115	394	819	1176	6217
55	1134	895	717	407	178	52	5	5	84	338	759	1114	5688
50	979	755	565	275	85	16	0	0	31	213	610	959	4488
32	433	288	134	21	0	0	0	0	0	9	164	424	1473

Base						Coolin	g Degree l	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	12	37	130	312	569	795	1041	994	701	397	95	24	5107
55	0	0	0	8	34	157	334	286	95	13	0	0	927
57	0	0	0	4	20	121	277	230	66	7	0	0	725
60	0	0	0	0	8	76	199	155	35	2	0	0	475
65	0	0	0	0	1	27	99	64	8	0	0	0	199
70	0	0	0	0	0	7	33	16	1	0	0	0	57

										Gro	wing 1	Degre	e Uni	ts (2)										
Base					Growing	g Degree	Units (M	(Ionthly)								Growi	ng Degre	ee Units (Accumu	lated Mo	onthly)			
	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	0	0	10	124	331	560	803	752	461	184	12	0	0	0	10	134	465	1025	1828	2580	3041	3225	3237	3237
45	0 0 0 54 199 411 648 597 322 91 0											0	0	0	0	54	253	664	1312	1909	2231	2322	2322	2322
50	0 0 0 18 99 269 493 444 190 33 0											0	0	0	0	18	117	386	879	1323	1513	1546	1546	1546
55	0	0	0	2	34	150	340	291	88	9	0	0	0	0	0	2	36	186	526	817	905	914	914	914
60	0	0	0	0	7	61	196	153	30	0	0	0	0	0	0	0	7	68	264	417	447	447	447	447
Base	Growing Degree Units for Corn (Monthly)												Growing Degree Units for Corn (Accumulated Monthly)											
50/86	/ 86 0 1 21 115 240 376 522 510 348 169 16											0	0	1	22	137	377	753	1275	1785	2133	2302	2318	2318

(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.

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