

Summary of Monthly Normals
1991-2020

Generated on 05/03/2024

Current Location: Elev: 935 ft. Lat: 46.8769° N Lon: 97.2328° W
Station: CASSELTON AGRONOMY FARM, ND US USC00321408

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (above)									
Month	Daily Max	Daily Min	Mean	Long Term Max Std Dev	Long Term Min Std Dev	Long Term Avg Std Dev	55	57	60	65	70	72	55	57	60	65	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
01	16.9	-1.4	7.8	5.9	6.7	6.2	0.0	0.0	0.0	0.0	0.0	0.0	1464.5	1526.5	1619.6	1774.6	0.0	0.0	0.1	26.0	30.8	16.8
02	21.6	2.1	11.8	7.1	8.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0	1208.0	1264.0	1348.1	1488.1	0.0	0.0	0.3	20.9	27.8	13.5
03	35.0	16.6	25.8	6.1	6.1	6.0	0.2	0.1	0.0	0.0	0.0	0.0	905.5	967.3	1060.2	1215.2	0.0	0.0	4.2	11.9	28.1	4.4
04	52.8	30.6	41.7	6.0	3.4	4.4	11.6	6.8	2.8	0.3	0.1	0.0	410.7	465.9	551.9	699.4	0.0	0.0	18.5	1.9	17.8	0.0
05	67.6	43.2	55.4	3.8	3.1	3.2	121.6	91.4	56.0	20.5	5.2	2.3	109.2	141.1	198.6	318.2	0.0	0.7	29.0	0.0	3.4	0.0
06	77.0	54.9	66.0	2.9	2.7	2.6	334.4	279.4	202.1	97.8	32.7	18.9	6.0	11.1	23.7	69.4	0.0	1.8	30.0	0.0	0.0	0.0
07	80.8	58.6	69.7	3.2	2.3	2.7	456.0	394.6	304.6	166.5	63.9	38.0	0.4	1.0	3.9	20.8	0.1	3.1	31.0	0.0	0.0	0.0
08	79.9	55.8	67.8	2.8	2.2	2.3	399.4	339.3	252.5	126.9	44.7	24.9	1.2	3.0	9.2	38.6	0.0	2.9	31.0	0.0	0.0	0.0
09	71.4	46.4	58.9	2.9	2.9	2.5	171.5	134.0	87.2	34.7	9.8	5.2	54.7	77.2	120.3	217.8	0.0	0.8	29.8	0.0	1.7	0.0
10	55.6	33.8	44.7	4.6	3.2	3.5	25.2	17.3	9.4	2.5	0.4	0.1	344.5	398.7	483.8	631.9	0.0	0.2	21.9	0.7	14.1	0.0
11	37.8	19.7	28.7	6.8	5.0	5.7	0.1	0.1	0.0	0.0	0.0	0.0	787.6	847.5	937.5	1087.5	0.0	0.0	6.1	10.4	27.1	1.4
12	23.2	6.6	14.9	6.6	6.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	1242.9	1304.9	1398.0	1553.0	0.0	0.0	0.3	22.0	31.0	9.9
Summary	51.6	30.6	41.1	4.9	4.3	4.4	1520	1263	915	449	157	89	6535	7008	7755	9114	0.1	9.5	202.2	93.8	181.8	46.0

Empty or blank cells indicate data is missing or insufficient occurrences to compute value

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Precipitation (in.)									
	Totals	Mean Number of Days				Precipitation Probabilities Probability that precipitation will be equal to or less than the indicated amount			
	Means	Daily Precipitation				Monthly Precipitation vs. Probability Levels			
Month	Mean	>= 0.01	>= 0.10	>= 0.50	>= 1.00	0.25	0.50	0.75	
01	0.54	4.1	1.8	0.1	0.0	0.25	0.49	0.79	
02	0.57	4.8	2.4	0.1	0.0	0.29	0.53	0.65	
03	1.09	5.0	3.2	0.7	0.1	0.63	1.00	1.51	
04	1.49	6.4	3.8	0.6	0.4	0.79	1.30	2.08	
05	3.16	10.7	6.6	2.3	0.6	2.10	2.67	3.90	
06	4.43	11.4	7.9	3.0	0.9	2.84	4.31	5.19	
07	3.69	9.0	6.1	2.5	1.0	1.90	3.50	4.51	
08	2.62	8.0	4.8	2.1	0.6	1.50	2.69	3.19	
09	2.79	7.1	4.7	1.7	0.8	2.00	2.76	3.74	
10	2.33	7.4	4.4	1.6	0.6	1.22	2.00	3.49	
11	0.80	4.9	2.5	0.3	0.0	0.27	0.52	1.10	
12	0.69	5.3	2.2	0.3	0.0	0.21	0.58	0.94	
Summary	24.20	84.1	50.4	15.3	5.0	14.00	22.35	31.09	

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Snow (in.)													
	Totals	Mean Number of Days									Snow Probabilities Probability that snow will be equal to or less than the indicated amount		
	Means	Snowfall >= Thresholds					Snow Depth >= Thresholds				Monthly Snow vs. Probability Levels Values derived from the incomplete gamma distribution.		
Month	Snowfall Mean	0.01	1.0	3.0	5.00	10.00	1	3	5	10	.25	.50	.75
01	7.40	3.6	2.9	0.9	0.4	0.0					2.20	7.50	9.30
02	6.60	3.5	3.0	0.7	0.2	0.0					4.30	6.50	9.10
03	6.20	2.7	2.0	1.0	0.5	0.1					0.90	5.90	8.60
04	3.30	1.0	0.9	0.4	0.2	0.1					0.00	0.00	6.90
05	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
06	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
07	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
08	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
09	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
10	0.70	0.3	0.3	0.1	0.0	0.0					0.00	0.00	0.00
11	4.40	1.9	1.4	0.6	0.2	0.0					0.00	2.00	9.60
12	8.10	3.9	2.9	1.0	0.5	0.1					3.00	7.00	9.00
Summary	36.7	16.9	13.4	4.7	2.0	0.3	0.0	0.0	0.0	0.0	10.4	28.9	52.5

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Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	0.2	0.7	18.1	151.8	482.6	778.3	920.5	863.1	567.8	207.5	25.3	0.1
45	0.0	0.1	5.6	79.1	342.8	628.3	765.5	708.1	422.0	117.2	7.2	0.0
50	0.0	0.0	1.3	34.2	220.1	479.3	610.6	553.2	287.1	58.5	1.3	0.0
55	0.0	0.0	0.2	11.6	121.6	334.4	456.0	399.4	171.5	25.2	0.1	0.0
60	0.0	0.0	0.0	2.8	56.0	202.1	304.6	252.5	87.2	9.4	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.2	0.4	14.6	106.1	292.1	485.1	602.9	553.2	346.5	130.5	19.4	0.3

Growing Degree Units (Accumulated Monthly)												
40	0	1	19	171	653	1432	2352	3215	3783	3991	4016	4016
45	0	0	6	85	428	1056	1821	2530	2952	3069	3076	3076
50	0	0	1	36	256	735	1346	1899	2186	2244	2246	2246
55	0	0	0	12	133	468	924	1323	1495	1520	1520	1520
60	0	0	0	3	59	261	566	818	905	915	915	915
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	1	15	121	413	898	1501	2055	2401	2532	2551	2551

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86.
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