

Summary of Monthly Normals
1991-2020

Generated on 04/17/2024

Current Location: Elev: 1430 ft. Lat: 47.7817° N Lon: 92.2783° W

Station: TOWER 2S, MN US USC00218311

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	16.8	-7.0	4.9	5.3	8.5	6.7	0.0	0.0	0.0	0.0	0.0	0.0	1552.8	1614.9	1707.9	1862.9	0.0	0.0	0.0	27.8	31.0	19.7
02	23.1	-4.9	9.1	6.1	7.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	1285.0	1341.1	1425.1	1565.1	0.0	0.0	0.5	21.6	27.9	17.1
03	36.3	9.2	22.7	5.3	6.3	5.7	1.0	0.7	0.3	0.0	0.0	0.0	1000.8	1062.5	1155.1	1309.8	0.0	0.0	5.0	11.3	29.9	10.3
04	49.6	24.3	37.0	4.9	3.5	4.0	3.7	2.1	0.9	0.1	0.0	0.0	545.3	603.6	692.4	841.6	0.0	0.0	15.4	2.2	26.3	0.9
05	63.3	36.4	49.9	4.0	3.2	3.3	56.0	40.4	23.7	7.3	1.5	0.6	215.7	262.1	338.4	477.0	0.0	0.2	27.4	0.0	13.9	0.0
06	72.7	46.7	59.7	3.2	2.6	2.5	178.9	136.5	84.3	28.9	7.3	3.8	38.0	55.6	93.4	188.0	0.0	0.7	29.9	0.0	3.0	0.0
07	77.1	51.0	64.0	3.5	2.8	2.9	288.1	233.5	160.7	68.1	18.9	9.2	7.7	15.1	35.2	97.6	0.0	1.5	31.0	0.0	0.4	0.0
08	75.5	48.3	61.9	2.8	2.7	2.4	229.0	178.3	113.7	40.9	10.1	4.9	15.2	26.5	54.9	137.0	0.0	0.9	31.0	0.0	1.1	0.0
09	66.6	41.5	54.0	3.3	3.6	3.1	92.9	68.5	40.8	13.6	3.3	1.7	121.5	157.1	219.4	342.2	0.0	0.1	29.0	0.0	7.6	0.0
10	51.4	30.6	41.0	4.0	3.3	3.4	11.8	7.3	3.1	0.5	0.0	0.0	445.8	503.3	592.1	744.5	0.0	0.0	16.7	1.3	20.3	0.0
11	35.0	17.9	26.4	5.9	5.7	5.7	0.2	0.1	0.0	0.0	0.0	0.0	856.7	916.6	1006.5	1156.5	0.0	0.0	3.5	14.2	28.0	3.9
12	22.0	3.1	12.5	5.7	7.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0	1315.8	1377.8	1470.8	1625.8	0.0	0.0	0.1	23.9	30.9	12.7
Summary	49.1	24.8	36.9	4.5	4.8	4.4	862	667	428	159	41	20	7400	7936	8791	10348	0.0	3.4	189.5	102.3	220.3	64.6

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	0.76	7.3	2.1	0.3	0.0	0.32	0.59	0.92
02	0.75	6.5	2.7	0.3	0.0	0.32	0.48	1.21
03	0.91	6.3	2.5	0.2	0.0	0.36	0.66	1.21
04	1.85	7.9	4.9	0.9	0.1	0.98	1.43	2.45
05	3.01	12.4	8.2	1.7	0.3	2.33	2.82	3.53
06	3.96	13.1	8.4	2.7	0.8	3.05	3.99	4.70
07	4.31	12.6	8.9	2.9	1.0	2.98	3.79	5.16
08	3.46	10.2	6.7	2.1	0.9	2.15	3.11	4.60
09	3.92	11.8	7.3	2.1	1.0	2.14	3.62	5.07
10	2.75	10.4	6.3	1.7	0.3	1.73	2.57	3.49
11	1.55	8.9	3.6	0.7	0.3	0.90	1.39	1.83
12	0.95	8.1	2.9	0.2	0.0	0.43	0.83	1.19
Summary	28.18	115.5	64.5	15.8	4.7	17.69	25.28	35.36

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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	13.40	7.6	5.4	1.7	0.5	0.0					8.00	12.00	14.60
02	10.80	6.7	4.7	1.4	0.4	0.1					6.60	8.00	12.80
03	7.90	4.4	3.5	1.0	0.3	0.0					4.20	8.30	11.80
04	8.00	3.1	2.7	1.1	0.5	0.0					2.00	7.00	10.00
05	0.40	0.2	0.2	0.0	0.0	0.0					0.00	0.00	0.50
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	2.40	1.3	0.8	0.3	0.1	0.0					0.00	1.00	4.00
11	11.00	6.2	4.0	1.2	0.6	0.1					5.10	9.20	14.60
12	14.80	8.1	5.9	1.3	0.6	0.1					9.10	14.00	19.50
Summary	68.7	37.6	27.2	8.0	3.0	0.3	0.0	0.0	0.0	0.0	35.0	59.5	87.8

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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	0.0	0.5	13.7	79.6	322.8	591.0	745.3	678.7	427.0	133.2	19.2	0.2
45	0.0	0.0	5.3	36.0	203.1	442.8	590.6	524.2	292.2	67.8	6.7	0.0
50	0.0	0.0	2.0	13.4	113.8	303.0	436.6	371.9	177.8	31.3	1.9	0.0
55	0.0	0.0	1.0	3.7	56.0	178.9	288.1	229.0	92.9	11.8	0.2	0.0
60	0.0	0.0	0.3	0.9	23.7	84.3	160.7	113.7	40.8	3.1	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.0	0.8	13.5	72.7	223.2	369.0	472.7	431.6	270.4	86.3	12.8	0.1

Growing Degree Units (Accumulated Monthly)												
40	0	0	14	94	417	1008	1753	2432	2859	2992	3011	3011
45	0	0	5	41	244	687	1278	1802	2094	2162	2169	2169
50	0	0	2	15	129	432	869	1241	1418	1450	1452	1452
55	0	0	1	5	61	240	528	757	850	861	862	862
60	0	0	0	1	25	109	270	384	424	428	428	428
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	1	14	87	310	679	1152	1584	1854	1940	1953	1953

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