

Summary of Monthly Normals
1991-2020

Generated on 04/26/2024

Current Location: Elev: 1018 ft. Lat: 45.8775° N Lon: 93.3147° W

Station: MORA, MN US USC00215615

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	20.7	0.5	10.6	4.9	7.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	1376.1	1438.1	1531.2	1686.3	0.0	0.0	0.1	25.8	30.9	15.9
02	26.2	4.3	15.3	5.8	7.9	6.7	0.0	0.0	0.0	0.0	0.0	0.0	1112.8	1168.8	1252.9	1393.0	0.0	0.0	0.6	18.8	27.5	11.7
03	38.6	17.7	28.2	5.3	5.8	5.4	1.1	0.7	0.4	0.1	0.0	0.0	833.5	895.2	987.8	1142.5	0.0	0.0	5.7	8.5	27.9	3.7
04	53.1	31.1	42.1	4.8	3.1	3.8	13.0	8.0	3.4	0.6	0.1	0.0	400.0	455.0	540.5	687.6	0.0	0.0	17.9	1.1	17.8	0.0
05	66.7	43.3	55.0	3.8	2.9	3.1	108.1	80.5	49.5	17.6	4.1	2.1	108.2	142.7	204.5	327.6	0.0	0.4	29.1	0.0	2.9	0.0
06	75.8	53.5	64.7	2.6	2.2	2.2	298.8	245.7	173.3	78.1	24.2	13.2	9.4	16.3	33.8	88.7	0.0	1.0	30.0	0.0	0.0	0.0
07	80.3	58.0	69.2	3.2	2.8	2.8	438.9	378.0	288.7	153.8	59.1	35.0	0.4	1.4	5.1	25.2	0.0	2.4	31.0	0.0	0.0	0.0
08	78.4	55.6	67.0	2.7	2.4	2.3	373.1	312.9	226.2	104.5	31.4	16.4	1.2	3.0	9.3	42.5	0.0	1.3	31.0	0.0	0.0	0.0
09	70.4	47.0	58.7	3.1	3.4	3.0	168.6	130.9	84.5	33.3	9.0	4.2	57.7	80.1	123.6	222.3	0.0	0.1	29.6	0.0	2.1	0.0
10	56.1	34.7	45.4	4.1	3.0	3.2	24.0	16.2	8.2	1.7	0.1	0.0	321.6	375.8	460.8	609.3	0.0	0.0	21.8	0.3	13.1	0.0
11	39.4	22.4	30.9	6.7	4.8	5.6	1.0	0.4	0.1	0.0	0.0	0.0	724.1	783.4	873.1	1023.0	0.0	0.0	6.3	8.8	25.9	1.0
12	26.1	8.9	17.5	5.3	6.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0	1162.3	1224.3	1317.4	1472.4	0.0	0.0	0.1	20.6	30.5	8.4
Summary	52.7	31.4	42.0	4.4	4.3	4.1	1427	1173	834	390	128	71	6107	6584	7340	8720	0.0	5.2	203.2	83.9	178.6	40.7

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	0.74	7.3	2.3	0.2	0.0	0.42	0.71	1.04
02	0.85	6.1	2.4	0.4	0.1	0.45	0.75	1.26
03	1.59	6.8	3.8	0.8	0.2	0.86	1.48	2.12
04	2.51	9.2	5.9	1.5	0.4	1.59	2.38	3.23
05	3.77	11.0	7.0	3.0	0.9	2.27	3.60	4.98
06	4.35	12.1	8.3	2.8	1.1	2.97	3.81	5.74
07	4.70	10.8	7.5	3.0	1.5	2.97	4.33	5.74
08	4.17	10.3	6.3	2.7	1.4	2.38	3.93	5.65
09	3.27	9.6	5.6	2.3	1.0	1.80	2.99	4.62
10	2.92	9.8	5.8	1.7	0.7	1.39	2.34	3.84
11	1.65	7.1	3.7	1.1	0.3	0.83	1.23	2.24
12	1.16	8.4	3.2	0.4	0.2	0.68	1.07	1.50
Summary	31.68	108.5	61.8	19.9	7.8	18.61	28.62	41.96

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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	10.30	6.0	3.5	1.0	0.3	0.0	29.1	24.9	18.9	8.9	5.20	8.80	15.50
02	10.70	4.7	3.0	1.1	0.6	0.1	26.8	24.2	20.9	9.5	5.20	12.40	15.00
03	8.30	3.6	2.5	1.0	0.4	0.1	18.8	15.9	12.9	4.4	3.10	7.10	13.10
04	4.30	1.4	1.1	0.4	0.2	0.1	4.1	2.6	1.4	0.2	0.00	1.50	5.40
05	0.00	0.1	0.0	0.0	0.0	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	0.0	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	0.0	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	0.0	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	0.0	0.0	0.0	0.0	0.00	0.00	0.00
10	0.40	0.4	0.2	0.1	0.1	0.0	0.5	0.2	0.0	0.0	0.00	0.00	0.00
11	5.40	3.2	2.0	0.8	0.4	0.1	7.6	5.0	2.3	0.6	0.80	1.80	8.80
12	12.60	6.7	4.3	1.4	0.5	0.0	23.1	17.5	11.2	3.9	6.40	10.60	16.80
Summary	52.0	26.1	16.6	5.8	2.5	0.4	110.0	90.3	67.6	27.5	20.7	42.2	74.6

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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	1.7	26.2	151.0	467.7	739.4	903.4	836.8	561.7	217.4	35.0	0.5
45	0.0	0.3	10.5	79.2	324.7	589.5	748.4	681.8	416.2	121.7	13.8	0.0
50	0.0	0.0	3.9	35.5	202.1	441.3	593.5	526.9	282.2	58.1	4.3	0.0
55	0.0	0.0	1.1	13.0	108.1	298.8	438.9	373.1	168.6	24.0	1.0	0.0
60	0.0	0.0	0.4	3.4	49.5	173.3	288.7	226.2	84.5	8.2	0.1	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.0	1.2	18.9	103.1	279.9	456.7	586.4	531.9	341.6	133.5	23.2	0.3

Growing Degree Units (Accumulated Monthly)												
40	0	2	28	179	647	1386	2289	3126	3688	3905	3940	3941
45	0	0	11	90	415	1004	1753	2434	2851	2972	2986	2986
50	0	0	4	39	242	683	1276	1803	2085	2143	2148	2148
55	0	0	1	14	122	421	860	1233	1402	1426	1427	1427
60	0	0	0	4	53	227	515	742	826	834	834	834
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	1	20	123	403	860	1446	1978	2320	2453	2476	2477

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

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