

Summary of Monthly Normals
1991-2020

Generated on 04/30/2024

Current Location: Elev: 1204 ft. Lat: 46.4808° N Lon: 96.2869° W
Station: **ROTHSAY, MN US USC00217149**

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	18.2	-0.9	8.7	6.5	6.9	6.6	0.0	0.0	0.0	0.0	0.0	0.0	1436.6	1498.5	1591.6	1746.8	0.0	0.0	0.1	26.2	30.9	15.6
02	23.0	2.6	12.8	6.7	7.9	7.2	0.0	0.0	0.0	0.0	0.0	0.0	1181.4	1237.3	1321.4	1461.6	0.0	0.0	0.2	21.1	27.5	12.2
03	36.3	17.2	26.8	6.5	6.0	6.1	0.6	0.3	0.2	0.0	0.0	0.0	876.4	938.1	1031.0	1185.8	0.0	0.0	4.8	10.6	26.8	3.6
04	52.7	31.3	42.0	5.2	3.8	4.4	12.2	7.6	3.4	0.5	0.0	0.0	402.2	457.6	543.4	690.5	0.0	0.1	18.1	1.4	15.0	0.0
05	66.9	45.2	56.1	3.3	3.1	3.0	132.8	100.9	63.6	24.4	7.0	3.7	100.3	130.5	186.2	301.9	0.0	0.4	28.9	0.0	2.5	0.0
06	75.8	56.4	66.1	2.9	2.6	2.7	338.1	282.6	204.4	99.8	34.6	20.8	5.3	9.8	21.5	66.9	0.0	1.0	30.0	0.0	0.0	0.0
07	80.0	60.0	70.0	3.0	2.6	2.6	465.1	403.7	313.4	174.6	69.0	41.6	0.2	0.8	3.5	19.6	0.1	1.6	31.0	0.0	0.0	0.0
08	78.4	58.1	68.3	2.7	2.3	2.4	411.3	350.8	262.9	133.9	47.4	26.6	0.7	2.2	7.3	33.2	0.0	1.2	31.0	0.0	0.0	0.0
09	70.3	48.8	59.5	3.0	3.0	2.8	186.5	147.4	98.4	42.0	12.6	6.6	50.1	71.1	112.1	205.6	0.0	0.6	29.7	0.0	0.8	0.0
10	54.7	35.0	44.8	4.5	3.1	3.5	23.9	15.7	8.0	2.2	0.3	0.1	338.5	392.4	477.7	626.9	0.0	0.0	20.4	0.8	11.4	0.0
11	38.0	20.9	29.4	6.8	5.7	6.1	0.5	0.2	0.0	0.0	0.0	0.0	767.0	826.7	916.5	1066.5	0.0	0.0	5.4	10.6	25.3	1.4
12	24.1	7.1	15.6	5.9	6.7	6.2	0.0	0.0	0.0	0.0	0.0	0.0	1221.2	1283.2	1376.2	1531.3	0.0	0.0	0.2	23.0	30.9	9.9
Summary	51.5	31.8	41.7	4.7	4.5	4.5	1571	1309	954	477	171	99	6380	6848	7588	8937	0.1	4.9	199.8	93.7	171.1	42.7

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	0.75	5.5	2.1	0.1	0.0	0.30	0.66	1.07
02	0.63	5.5	2.4	0.2	0.0	0.29	0.57	0.83
03	1.08	6.3	3.3	0.5	0.1	0.50	0.96	1.51
04	2.06	6.9	3.7	1.3	0.4	1.11	1.82	2.67
05	3.27	10.2	6.7	2.3	0.6	2.43	3.02	3.75
06	3.93	11.5	7.7	2.8	0.8	2.36	3.81	5.12
07	3.43	10.1	6.4	2.3	1.0	2.09	2.98	4.24
08	2.72	8.3	5.1	1.9	0.8	1.59	2.86	3.71
09	2.75	8.7	5.2	2.0	0.7	1.29	2.70	4.06
10	2.34	8.5	4.7	1.6	0.6	1.03	2.23	3.16
11	0.92	4.7	2.3	0.4	0.0	0.22	0.75	1.36
12	0.89	7.0	3.2	0.6	0.2	0.43	0.63	1.12
Summary	24.77	93.2	52.8	16.0	5.2	13.64	22.99	32.60

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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	11.40	6.5	3.4	0.9	0.4	0.1					4.70	11.10	14.50
02	7.70	5.1	2.8	0.9	0.3	0.0					3.50	5.80	10.00
03	7.20	3.7	2.2	0.8	0.5	0.0					4.00	5.70	10.40
04	4.10	1.2	0.9	0.5	0.3	0.1					0.00	4.50	6.00
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	1.60	0.8	0.5	0.3	0.1	0.0					0.00	0.20	2.60
11	6.90	2.5	1.5	0.7	0.1	0.0					0.70	3.50	11.70
12	10.70	7.1	3.9	1.1	0.4	0.0					6.80	9.00	15.80
Summary	49.6	26.9	15.2	5.2	2.1	0.2	0.0	0.0	0.0	0.0	19.7	39.8	71.0

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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	1.2	23.0	158.9	501.3	782.8	929.9	875.5	587.0	212.0	30.7	0.2
45	0.0	0.2	8.0	83.6	359.4	632.9	774.9	720.5	441.2	120.6	11.6	0.0
50	0.0	0.0	2.4	35.7	234.5	483.6	619.9	565.6	304.2	58.8	3.2	0.0
55	0.0	0.0	0.6	12.2	132.8	338.1	465.1	411.3	186.5	23.9	0.5	0.0
60	0.0	0.0	0.2	3.4	63.6	204.4	313.4	262.9	98.4	8.0	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.1	0.6	16.0	101.3	291.1	489.4	615.5	567.1	348.7	119.7	19.1	0.1

Growing Degree Units (Accumulated Monthly)												
40	0	1	24	183	684	1467	2397	3273	3860	4072	4102	4102
45	0	0	8	92	451	1084	1859	2580	3021	3141	3153	3153
50	0	0	2	38	273	756	1376	1942	2246	2305	2308	2308
55	0	0	1	13	146	484	949	1360	1547	1571	1571	1571
60	0	0	0	4	67	272	585	848	946	954	954	954
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	1	17	118	409	898	1514	2081	2430	2549	2569	2569

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

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