

Summary of Monthly Normals
1991-2020

Generated on 04/25/2024

Current Location: Elev: 1018 ft. Lat: 45.5433° N Lon: 94.0514° W

Station: ST CLOUD RGNL AP, MN US USW00014926

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	2.9	11.8	5.2	6.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	1339.0	1401.0	1494.0	1649.1	0.0	0.0	0.1	25.3	30.8	13.9
02	25.7	6.5	16.1	6.0	7.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	1089.1	1145.1	1229.1	1369.2	0.0	0.0	0.5	19.2	27.4	9.9
03	38.5	19.8	29.2	5.9	5.7	5.8	1.8	1.0	0.4	0.1	0.0	0.0	803.2	864.4	956.8	1111.4	0.0	0.0	6.0	8.4	26.4	2.9
04	54.3	32.4	43.3	4.6	3.4	3.9	17.0	10.9	5.1	1.3	0.2	0.0	366.5	420.5	504.6	650.8	0.0	0.0	19.2	1.0	15.5	0.0
05	67.8	44.6	56.2	3.7	3.0	3.1	125.8	94.5	59.8	23.8	7.2	4.3	88.6	119.3	177.6	296.6	0.0	0.8	29.6	0.0	2.6	0.0
06	77.2	54.8	66.0	2.7	2.5	2.4	335.6	280.3	203.4	97.0	33.5	20.0	5.7	10.4	23.5	67.1	0.0	1.7	30.0	0.0	0.0	0.0
07	81.6	58.9	70.3	3.1	2.7	2.8	472.8	411.2	320.3	180.1	75.3	47.4	0.2	0.6	2.6	17.4	0.0	4.0	31.0	0.0	0.0	0.0
08	79.2	56.3	67.7	2.6	2.4	2.3	396.1	335.4	247.6	122.0	41.9	23.9	0.9	2.2	7.5	36.7	0.0	1.8	31.0	0.0	0.0	0.0
09	71.0	48.0	59.5	3.2	3.4	3.0	185.6	146.5	97.4	41.1	12.4	6.6	50.7	71.6	112.4	206.2	0.0	0.5	29.7	0.0	1.7	0.0
10	55.9	35.5	45.7	4.2	3.0	3.3	28.5	19.7	10.5	2.8	0.3	0.0	316.8	370.0	453.8	601.1	0.0	0.0	22.1	0.5	12.1	0.0
11	39.3	22.6	30.9	6.4	4.6	5.4	1.2	0.7	0.2	0.0	0.0	0.0	722.7	782.3	871.7	1021.5	0.0	0.0	6.3	8.9	25.5	1.0
12	25.8	9.8	17.8	5.7	6.4	5.9	0.0	0.0	0.0	0.0	0.0	0.0	1153.1	1215.1	1308.1	1463.1	0.0	0.0	0.4	20.3	30.4	7.9
Summary	53.1	32.7	42.9	4.4	4.3	4.2	1564	1300	945	468	171	102	5936	6402	7142	8490	0.0	8.8	205.9	83.6	172.4	35.6

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	0.67	7.8	2.1	0.2	0.0	0.35	0.55	0.93
02	0.76	6.4	2.5	0.3	0.0	0.36	0.78	0.97
03	1.57	8.3	4.0	0.8	0.2	1.00	1.41	1.95
04	2.61	9.7	5.5	1.6	0.4	1.42	2.14	3.29
05	3.66	11.4	6.8	2.8	0.9	2.06	3.47	5.03
06	3.75	12.3	7.6	2.3	0.8	2.94	3.52	4.57
07	3.60	10.6	6.2	2.5	1.0	2.38	3.37	4.66
08	4.00	9.3	5.7	2.6	1.2	2.28	4.06	5.56
09	3.01	10.0	5.3	1.7	0.7	1.72	2.44	4.04
10	2.61	9.7	5.4	1.5	0.5	1.37	2.60	3.45
11	1.37	7.3	3.2	0.9	0.2	0.58	1.04	2.09
12	0.88	7.7	2.6	0.3	0.0	0.42	0.82	1.26
Summary	28.49	110.5	56.9	17.5	5.9	16.88	26.20	37.80

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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	8.80	8.5	3.2	0.7	0.3	0.0	27.8	22.3	17.1	7.0	3.70	6.70	14.70
02	8.90	6.4	3.0	0.9	0.4	0.0	24.8	20.5	17.4	8.5	3.80	8.60	11.30
03	8.20	5.0	2.2	1.0	0.4	0.0	16.8	13.1	10.4	5.1	3.70	8.20	11.40
04	4.70	2.2	1.4	0.6	0.3	0.0	3.7	2.4	1.3	0.1	0.00	2.40	7.20
05	0.10	0.2	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	1.00	0.9	0.2	0.1	0.0	0.0	0.5	0.1	0.0	0.0	0.00	0.00	0.70
11	6.90	4.6	1.9	0.8	0.3	0.0	6.7	3.8	2.2	0.4	2.80	5.70	11.80
12	9.30	8.2	2.9	0.9	0.2	0.0	21.0	15.6	10.8	1.7	3.70	8.40	14.20
Summary	47.9	36.0	14.8	5.0	1.9	0.0	101.3	77.8	59.2	22.8	17.7	40.0	71.3

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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	2.0	31.4	175.6	503.7	779.8	937.5	860.1	585.4	226.7	35.4	0.8
45	0.0	0.3	12.9	95.3	357.3	629.9	782.6	705.1	439.2	131.1	14.4	0.0
50	0.0	0.0	5.5	44.4	228.0	480.6	627.6	550.2	303.4	66.2	4.8	0.0
55	0.0	0.0	1.8	17.0	125.8	335.6	472.8	396.1	185.6	28.5	1.2	0.0
60	0.0	0.0	0.4	5.1	59.8	203.4	320.3	247.6	97.4	10.5	0.2	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.1	1.4	21.4	115.4	299.7	489.4	616.8	552.9	355.5	133.8	22.5	0.6

Growing Degree Units (Accumulated Monthly)												
40	0	2	33	209	713	1492	2430	3290	3876	4102	4138	4138
45	0	0	13	108	466	1096	1878	2583	3023	3154	3168	3168
50	0	0	6	50	278	758	1386	1936	2240	2306	2311	2311
55	0	0	2	19	145	480	953	1349	1535	1563	1564	1564
60	0	0	0	6	65	269	589	837	934	944	945	945
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	2	23	138	438	927	1544	2097	2453	2586	2609	2610

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