

Summary of Monthly Normals
1991-2020

Generated on 04/26/2024

Current Location: Elev: 1310 ft. Lat: 47.2436° N Lon: 93.4975° W

Station: **GRAND RPDS FOREST LAB, MN US USC00213303**

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	18.9	-1.5	8.7	5.3	7.5	6.3	0.0	0.0	0.0	0.0	0.0	0.0	1435.1	1497.2	1590.2	1745.2	0.0	0.0	0.1	26.8	31.0	16.3
02	25.7	2.1	13.9	5.9	7.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	1150.7	1206.8	1290.8	1430.8	0.0	0.0	0.7	19.7	27.6	12.7
03	38.8	15.4	27.1	4.9	5.5	5.1	0.7	0.5	0.3	0.0	0.0	0.0	865.7	927.4	1020.2	1175.0	0.0	0.0	6.2	8.4	28.3	4.6
04	52.6	28.0	40.3	4.8	3.2	3.8	7.2	4.0	1.4	0.1	0.0	0.0	448.2	505.0	592.4	741.1	0.0	0.0	17.8	1.1	20.6	0.1
05	66.1	40.2	53.2	3.6	2.9	3.1	83.2	61.2	36.1	12.1	2.5	1.0	140.6	180.6	248.5	379.5	0.0	0.3	28.8	0.0	5.1	0.0
06	75.2	50.5	62.9	2.7	2.2	2.4	249.1	199.1	133.5	53.6	14.2	7.2	13.7	23.6	48.1	118.1	0.0	0.9	29.9	0.0	0.0	0.0
07	79.7	55.4	67.6	3.5	2.7	3.0	390.3	330.2	243.5	120.1	40.0	21.7	1.4	3.2	9.5	41.1	0.0	2.7	31.0	0.0	0.0	0.0
08	77.8	53.2	65.5	2.8	2.4	2.4	329.1	271.0	189.9	82.9	24.2	13.2	3.7	7.6	19.5	67.5	0.0	1.4	31.0	0.0	0.0	0.0
09	68.1	44.7	56.4	3.4	3.1	3.0	124.6	93.6	56.8	18.8	3.5	1.7	82.6	111.7	164.8	276.8	0.0	0.2	29.3	0.0	2.0	0.0
10	52.8	33.3	43.1	4.2	2.8	3.3	15.2	9.5	3.8	0.3	0.0	0.0	385.7	441.9	529.3	680.8	0.0	0.0	18.9	0.8	14.8	0.0
11	36.1	20.1	28.1	6.3	5.0	5.6	0.2	0.1	0.0	0.0	0.0	0.0	807.3	867.1	957.0	1107.0	0.0	0.0	4.4	11.8	26.7	1.4
12	23.1	6.5	14.8	5.6	6.9	6.1	0.0	0.0	0.0	0.0	0.0	0.0	1246.1	1308.1	1401.1	1556.1	0.0	0.0	0.2	23.5	30.8	10.6
Summary	51.2	29.0	40.1	4.4	4.3	4.2	1200	969	665	288	84	45	6581	7080	7871	9319	0.0	5.5	198.3	92.1	186.9	45.7

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	0.97	10.9	3.0	0.1	0.1	0.51	0.85	1.27	
02	0.85	8.8	2.5	0.1	0.0	0.48	0.76	1.19	
03	1.33	8.4	3.9	0.5	0.1	0.78	1.20	1.55	
04	2.10	9.8	5.4	1.1	0.3	1.16	1.73	2.77	
05	3.23	12.7	7.1	2.2	0.5	2.26	2.96	4.03	
06	4.70	13.5	8.3	3.1	0.9	3.29	4.67	5.75	
07	4.14	12.2	7.3	2.8	0.9	2.32	3.91	5.62	
08	3.40	10.4	6.2	2.1	0.9	2.06	2.91	4.76	
09	3.05	11.4	6.3	1.9	0.6	1.96	2.52	4.25	
10	2.79	11.3	6.3	1.7	0.6	1.69	2.54	3.93	
11	1.59	10.6	4.0	0.7	0.2	0.87	1.27	2.03	
12	1.23	11.7	3.7	0.4	0.0	0.85	1.21	1.66	
Summary	29.38	131.7	64.0	16.7	5.1	18.23	26.53	38.81	

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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	12.20	11.5	4.1	1.0	0.2	0.1	30.5	28.9	26.8	17.6	7.20	10.90	14.40
02	9.70	8.7	2.8	1.0	0.3	0.0	28.3	28.1	26.5	21.8	5.00	8.20	12.90
03	7.50	6.3	2.4	0.7	0.2	0.0	23.5	21.5	19.4	14.6	4.40	7.20	8.70
04	5.60	3.8	1.6	0.6	0.2	0.0	5.7	3.6	3.0	1.4	1.20	3.70	8.20
05	0.20	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.10
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	2.00	1.7	0.7	0.2	0.0	0.0	1.3	0.6	0.1	0.0	0.00	0.30	4.00
11	9.00	7.3	2.7	0.8	0.2	0.1	13.0	8.4	3.9	0.5	4.80	7.90	14.10
12	13.40	11.8	4.2	1.1	0.3	0.0	26.4	22.6	18.6	6.3	6.90	13.20	17.60
Summary	59.6	51.4	18.5	5.4	1.4	0.2	128.7	113.7	98.3	62.2	29.5	51.4	80.0

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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	1.0	19.5	120.0	414.1	685.4	853.8	790.3	493.6	166.6	21.9	0.1
45	0.0	0.1	6.3	58.0	277.7	535.6	698.8	635.3	351.2	87.0	7.6	0.0
50	0.0	0.0	1.9	23.0	163.1	388.1	543.9	480.7	224.3	39.5	1.9	0.0
55	0.0	0.0	0.7	7.2	83.2	249.1	390.3	329.1	124.6	15.2	0.2	0.0
60	0.0	0.0	0.3	1.4	36.1	133.5	243.5	189.9	56.8	3.8	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.1	1.5	18.5	98.1	264.4	419.7	544.5	495.4	294.4	99.1	14.7	0.1

Growing Degree Units (Accumulated Monthly)												
40	0	1	20	140	555	1240	2094	2884	3378	3544	3566	3566
45	0	0	6	64	342	878	1576	2212	2563	2650	2658	2658
50	0	0	2	25	188	576	1120	1601	1825	1864	1866	1866
55	0	0	1	8	91	340	730	1060	1184	1199	1200	1200
60	0	0	0	2	38	171	415	605	662	665	665	665
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	2	20	118	383	802	1347	1842	2137	2236	2250	2250

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