U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Summary of Monthly Normals
1991-2020

Generated on 03/28/2024

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 1748 ft. Lat: 44.9047° N Lon: 97.1494° W

Station: **WATERTOWN RGNL AP, SD US USW00014946**

Temperature (°F)

	Mean						Cooling Degree Days Base (above)						Heating Degree Days Base (above)				Mean Number of Days					
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	21.4	3.1	12.2	5.3	6.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	1325.0	1387.0	1480.1	1635.0	0.0	0.0	0.1	23.7	31.0	13.6
02	25.9	6.7	16.3	7.4	7.9	7.6	0.0	0.0	0.0	0.0	0.0	0.0	1083.4	1139.4	1223.5	1363.4	0.0	0.0	1.0	18.6	27.5	9.7
03	38.6	19.6	29.1	7.0	5.3	6.0	1.3	0.8	0.3	0.1	0.0	0.0	804.3	865.8	958.3	1113.0	0.0	0.0	7.0	9.9	27.1	2.8
04	54.0	31.5	42.8	4.9	3.6	4.1	15.8	9.9	4.4	0.7	0.1	0.0	383.3	437.4	521.9	668.2	0.0	0.0	19.4	1.7	16.1	0.0
05	66.9	44.5	55.7	3.5	2.9	3.0	124.2	93.6	58.5	21.8	4.9	2.3	102.6	134.0	191.8	310.3	0.0	0.3	29.2	0.0	2.3	0.0
06	76.8	55.4	66.1	3.0	2.5	2.7	339.1	283.7	207.3	101.7	37.0	22.4	6.2	10.8	24.4	68.8	0.0	1.6	30.0	0.0	0.0	0.0
07	82.0	60.0	71.0	3.8	2.6	3.1	496.0	434.4	343.6	201.9	91.5	60.2	0.2	0.5	2.7	16.1	0.2	4.1	31.0	0.0	0.0	0.0
08	79.5	57.5	68.5	2.8	2.4	2.4	419.6	359.0	271.5	143.5	55.1	33.4	1.2	2.6	8.0	35.1	0.0	2.6	31.0	0.0	0.0	0.0
09	71.6	48.6	60.1	3.2	3.0	2.8	198.8	158.3	106.6	46.0	14.3	7.7	46.0	65.5	103.7	193.1	0.0	0.7	29.8	0.0	1.1	0.0
10	56.2	35.2	45.7	4.6	2.9	3.5	28.6	19.2	10.2	2.7	0.2	0.1	316.9	369.5	453.5	601.0	0.0	0.0	22.1	0.8	11.9	0.0
11	39.8	21.3	30.6	6.9	4.8	5.7	0.8	0.3	0.0	0.0	0.0	0.0	734.3	793.7	883.5	1033.5	0.0	0.0	6.8	9.1	26.3	1.1
12	26.3	9.3	17.8	6.2	5.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1153.0	1215.0	1308.1	1463.0	0.0	0.0	0.6	20.4	30.9	8.1
Summary	53.2	32.7	43.0	4.9	4.1	4.4	1624	1359	1002	518	203	126	5956	6421	7159	8500	0.2	9.3	208.0	84.2	174.2	35.3

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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	0.58	5.9	1.9	0.1	0.0	0.33	0.45	0.67
02	0.65	6.0	1.9	0.2	0.0	0.37	0.56	0.85
03	1.00	6.9	3.0	0.4	0.1	0.44	0.85	1.15
04	2.06	8.9	4.9	1.2	0.4	1.50	1.74	2.31
05	2.87	11.4	6.3	1.9	0.4	2.10	2.56	3.47
06	3.85	11.4	7.1	2.7	1.2	2.21	3.72	4.50
07	3.05	9.5	6.0	2.2	0.5	1.87	3.14	3.72
08	2.89	8.6	4.7	1.9	0.7	1.84	2.59	3.56
09	2.45	8.5	4.9	1.6	0.5	1.27	2.13	3.44
10	1.95	7.5	3.9	1.2	0.3	0.79	1.73	2.45
11	0.68	5.4	2.0	0.2	0.0	0.18	0.54	1.12
12	0.68	6.3	2.2	0.2	0.0	0.24	0.61	0.92
Summary	22.71	96.3	48.8	13.8	4.1	13.14	20.62	28.16

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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	6.70	5.6	2.4	0.7	0.2	0.0	25.8	20.7	15.7	8.2	3.60	5.10	9.60
02	8.90	5.9	2.6	1.0	0.5	0.0	21.4	15.5	12.4	6.8	3.80	7.70	11.20
03	5.40	3.5	1.6	0.6	0.2	0.1	14.5	10.1	8.0	4.3	1.90	5.00	7.10
04	5.20	1.9	1.3	0.6	0.2	0.2	3.7	2.0	1.2	0.4	0.00	1.50	5.70
05	0.10	0.0	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	1.40	1.1	0.5	0.1	0.0	0.0	1.1	0.2	0.1	0.0	0.00	0.00	1.30
11	4.50	2.6	1.1	0.6	0.3	0.0	4.8	3.0	1.4	0.4	0.20	3.10	6.50
12	8.90	6.0	3.3	0.9	0.4	0.0	21.5	15.2	9.3	3.4	3.40	6.40	12.70
Summary	41.1	26.6	12.8	4.5	1.8	0.3	92.8	66.7	48.1	23.5	12.9	28.8	54.1

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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	0.1	2.7	35.0	168.5	489.7	782.8	960.7	883.3	603.5	234.3	36.1	0.5
45	0.0	0.7	14.9	91.2	347.6	632.9	805.8	728.4	456.6	136.4	14.6	0.0
50	0.0	0.1	5.2	42.1	223.0	483.9	650.8	573.5	318.5	68.4	4.3	0.0
55	0.0	0.0	1.3	15.8	124.2	339.1	496.0	419.6	198.8	28.6	0.8	0.0
60	0.0	0.0	0.3	4.4	58.5	207.3	343.6	271.5	106.6	10.2	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.2	2.7	28.2	115.3	288.3	490.2	636.4	572.3	365.4	139.7	26.8	0.9

Growing Degree Units (Accumulated Monthly)

40	0	3	38	206	696	1479	2440	3323	3926	4161	4197	4197
45	0	1	16	107	454	1087	1893	2622	3078	3214	3229	3229
50	0	0	5	47	270	754	1405	1979	2297	2366	2370	2370
55	0	0	1	17	141	480	976	1396	1595	1623	1624	1624
60	0	0	0	5	63	270	614	886	992	1002	1002	1002
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	3	31	146	435	925	1561	2134	2499	2639	2666	2666

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

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