

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 164 ft. Lat: 37.5050° N Lon: -77.3203° W
Station: RICHMOND INTL AP, VA US USW00013740

Summary of Monthly Normals
1991-2020
Generated on 05/04/2021

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

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	47.8	28.8	38.3	3.9	3.6	3.6	6.9	4.2	1.6	0.2	0.0	0.0	524.4	583.8	674.2	827.7	0.0	0.0	13.6	2.6	20.3	0.1
02	51.6	30.4	41.0	4.7	3.7	4.0	9.7	6.0	2.6	0.4	0.0	0.0	401.7	454.0	534.5	672.4	0.0	0.0	15.2	1.1	17.3	0.0
03	59.6	37.2	48.4	3.9	3.2	3.5	47.4	33.8	18.5	4.9	0.7	0.3	252.0	300.4	378.0	519.4	0.0	0.0	25.0	0.2	9.5	0.0
04	70.4	46.4	58.4	2.5	2.3	2.2	164.7	130.2	87.1	37.1	10.7	5.4	62.8	88.2	135.1	235.1	0.0	0.5	29.5	0.0	1.0	0.0
05	77.8	55.7	66.7	3.3	3.3	3.2	369.0	312.1	233.7	126.2	52.7	32.7	4.7	9.9	24.5	72.0	0.0	2.5	31.0	0.0	0.0	0.0
06	85.6	64.5	75.0	2.3	1.9	1.9	601.5	541.7	452.4	307.6	176.0	130.2	0.1	0.2	0.9	6.1	0.3	9.2	30.0	0.0	0.0	0.0
07	89.5	69.2	79.4	2.5	2.0	2.1	754.8	692.8	599.8	444.8	291.1	231.6	0.0	0.0	0.0	0.0	1.0	16.9	31.0	0.0	0.0	0.0
08	87.5	67.6	77.5	2.4	1.8	1.9	699.0	637.0	544.0	389.2	238.1	181.1	0.0	0.0	0.0	0.2	0.2	11.5	31.0	0.0	0.0	0.0
09	81.2	61.1	71.2	2.7	2.6	2.3	485.2	426.3	339.7	205.9	98.2	65.5	0.8	1.8	5.3	21.5	0.0	4.0	30.0	0.0	0.0	0.0
10	70.9	49.0	60.0	2.3	2.8	2.2	193.0	151.3	99.4	40.4	12.5	6.8	39.5	59.8	100.9	196.9	0.0	0.3	30.8	0.0	0.3	0.0
11	60.4	38.8	49.6	3.6	2.9	3.1	47.8	32.8	16.6	3.1	0.4	0.2	209.8	254.8	328.5	465.0	0.0	0.0	26.1	0.0	7.8	0.0
12	51.5	32.1	41.8	4.4	3.8	4.0	13.5	9.0	4.2	0.8	0.1	0.0	422.6	480.1	568.3	719.9	0.0	0.0	17.8	0.9	17.3	0.0
Summary	69.5	48.4	58.9	3.2	2.8	2.8	3392	2977	2400	1561	881	654	1918	2233	2750	3736	1.5	44.9	311.0	4.8	73.5	0.1

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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	3.23	10.0	6.1	2.4	0.7	2.26	3.35	3.62
02	2.61	9.0	5.7	1.7	0.5	1.51	2.71	3.54
03	4.00	10.8	6.7	2.8	0.9	2.77	3.78	5.30
04	3.18	10.5	6.5	2.1	0.6	2.23	2.79	3.86
05	4.00	11.1	7.1	2.8	1.0	2.50	3.37	4.59
06	4.64	10.6	6.6	3.0	1.3	2.29	4.34	6.20
07	4.37	11.4	7.5	3.0	1.1	2.74	4.05	5.83
08	4.90	9.4	6.6	3.0	1.4	2.64	3.90	5.98
09	4.61	9.3	5.7	2.8	1.4	2.20	3.71	6.40
10	3.39	8.1	5.1	2.2	1.0	2.24	3.24	4.56
11	3.06	8.4	5.2	2.0	1.0	1.33	3.15	3.98
12	3.51	10.0	6.2	2.5	0.9	2.36	3.25	4.47
Summary	45.50	118.6	75.0	30.3	11.8	27.07	41.64	58.33

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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	3.7	1.9	1.0	0.4	0.2	0.0	3.1	1.6	1.0	0.2	0.0	2.1	5.3
02	2.2	1.7	0.8	0.2	0.1	0.0	2.0	1.2	0.2	0.0	0.1	0.9	2.7
03	1.1	1.0	0.3	0.1	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.3	1.0
04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	1.8	0.9	0.6	0.1	0.1	0.0	1.3	0.8	0.2	0.0	0.0	0.1	1.9
Summary	8.8	5.6	2.7	0.8	0.4	0.0	7.0	3.6	1.4	0.2	0.1	3.4	10.9

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Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	100.1	118.1	288.7	552.8	829.3	1051.4	1219.7	1164.0	934.4	618.6	303.8	140.4
45	47.7	60.0	178.2	407.6	674.3	901.4	1064.6	1008.9	784.3	465.2	187.8	71.6
50	19.7	27.2	98.7	273.6	519.7	751.4	909.7	854.0	634.4	319.3	102.4	33.3
55	6.9	9.7	47.4	164.7	369.0	601.5	754.8	699.0	485.2	193.0	47.8	13.5
60	1.6	2.6	18.5	87.1	233.7	452.4	599.8	544.0	339.7	99.4	16.6	4.2
Growing Degree Units for Corn (Monthly)												
50/86	59.5	77.4	174.5	335.6	526.3	713.7	840.6	805.7	622.2	370.9	176.5	79.9

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	100	218	507	1060	1889	2940	4160	5324	6258	6877	7181	7321
45	48	108	286	694	1368	2269	3334	4343	5127	5592	5780	5852
50	20	47	146	419	939	1690	2600	3454	4088	4408	4510	4543
55	7	17	64	229	598	1199	1954	2653	3138	3331	3379	3392
60	2	4	23	110	344	796	1396	1940	2279	2379	2395	2400
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	60	137	311	647	1173	1887	2728	3533	4156	4526	4703	4783

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