

Summary of Monthly Normals
1991-2020

Generated on 04/19/2024

Current Location: Elev: 100 ft. Lat: 36.6983° N Lon: 77.5597° W
Station: **EMPORIA 1 WNW, VA US USC00442790**

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	50.9	28.7	39.8	3.4	3.8	3.5	7.6	4.5	2.1	0.2	0.0	0.0	478.6	537.6	628.2	781.3	0.0	0.0	16.0	1.8	21.9	0.1
02	54.2	30.5	42.4	4.3	3.2	3.6	8.8	5.3	2.4	0.5	0.1	0.0	363.0	415.5	496.5	634.6	0.0	0.0	17.5	0.5	18.7	0.1
03	61.5	36.6	49.0	4.2	3.3	3.6	47.3	32.5	17.4	4.9	0.7	0.2	231.7	278.9	356.8	499.3	0.0	0.0	25.8	0.1	11.3	0.0
04	71.7	45.8	58.7	2.3	1.9	1.9	169.1	133.4	89.0	37.3	9.9	4.9	56.6	80.9	126.5	224.8	0.0	0.3	29.5	0.0	1.2	0.0
05	78.8	55.7	67.2	2.9	3.5	3.1	383.4	325.9	245.8	134.4	55.3	33.5	3.6	8.1	21.1	64.6	0.0	1.8	31.0	0.0	0.0	0.0
06	86.0	64.8	75.4	2.2	2.1	2.0	612.0	552.1	462.6	317.1	183.6	136.7	0.0	0.1	0.6	5.1	0.4	8.7	30.0	0.0	0.0	0.0
07	89.8	69.3	79.6	2.3	1.9	1.9	761.0	699.0	606.0	451.0	296.9	236.8	0.0	0.0	0.0	0.0	0.5	15.7	31.0	0.0	0.0	0.0
08	88.3	67.8	78.1	2.4	2.0	2.0	714.5	652.5	559.5	404.6	251.7	193.9	0.0	0.0	0.0	0.0	0.2	11.7	31.0	0.0	0.0	0.0
09	82.7	61.6	72.2	2.7	2.5	2.3	514.8	455.6	367.9	229.2	114.0	77.8	0.4	1.2	3.4	14.8	0.0	3.7	30.0	0.0	0.0	0.0
10	72.9	49.0	60.9	2.3	2.7	2.3	216.0	170.7	113.2	48.0	15.5	9.1	31.5	48.2	83.8	173.5	0.0	0.4	30.8	0.0	0.5	0.0
11	62.6	38.3	50.4	4.0	3.0	3.3	52.6	36.7	19.2	4.4	0.5	0.1	189.1	233.2	305.6	440.8	0.0	0.0	26.7	0.0	10.3	0.0
12	54.0	32.3	43.1	4.3	4.1	4.1	14.8	9.1	4.0	0.7	0.0	0.0	382.1	438.4	526.3	678.0	0.0	0.0	19.3	0.4	18.9	0.0
Summary	71.1	48.4	59.7	3.1	2.8	2.8	3502	3077	2489	1632	928	693	1737	2042	2549	3517	1.1	42.3	318.6	2.8	82.8	0.2

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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	3.40	10.0	7.2	2.5	0.9	2.38	3.30	4.28
02	2.59	8.7	5.6	1.6	0.6	1.44	2.28	3.62
03	4.05	10.3	7.5	2.9	1.1	2.98	3.96	4.82
04	3.43	9.2	6.5	2.4	0.7	2.28	3.49	4.10
05	3.71	10.5	7.1	2.3	0.8	2.75	3.46	4.99
06	3.97	9.5	6.8	2.6	1.4	2.55	3.32	5.02
07	4.86	10.6	7.6	3.2	1.3	3.44	4.52	5.94
08	5.07	9.2	6.5	3.3	1.6	2.41	4.39	6.57
09	4.92	8.9	6.3	3.2	1.4	3.16	4.04	5.21
10	3.47	7.0	4.8	2.4	1.1	2.75	3.60	4.50
11	3.16	8.3	5.4	2.1	0.7	1.34	3.30	3.89
12	3.56	9.9	6.4	2.5	1.0	2.27	3.57	4.91
Summary	46.19	112.1	77.7	31.0	12.6	29.75	43.23	57.85

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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	0.60	0.3	0.2	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.00	0.00	0.20
02	0.30	0.2	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.00	0.00	0.00
03	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
04	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
05	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
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	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
11	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
12	0.50	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.00	0.00	0.00
Summary	1.4	0.7	0.5	0.1	0.0	0.0	0.4	0.1	0.1	0.0	0.0	0.0	0.2

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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	116.8	131.9	301.3	563.2	844.8	1062.0	1226.0	1179.5	964.4	649.5	325.2	159.8
45	56.6	64.7	185.9	417.1	689.8	911.9	1070.9	1024.5	814.4	495.6	202.3	80.5
50	22.8	26.2	101.7	281.6	535.2	761.9	915.9	869.5	664.4	347.7	111.1	36.6
55	7.6	8.8	47.3	169.1	383.4	612.0	761.0	714.5	514.8	216.0	52.6	14.8
60	2.1	2.4	17.4	89.0	245.8	462.6	606.0	559.5	367.9	113.2	19.2	4.0
Growing Degree Units for Corn (Monthly)												
50/86	82.1	96.9	196.5	351.3	542.1	723.6	846.3	815.8	648.8	402.3	204.0	102.8

Growing Degree Units (Accumulated Monthly)												
40	117	249	550	1113	1958	3020	4246	5426	6390	7039	7365	7524
45	57	121	307	724	1414	2326	3397	4421	5236	5731	5934	6014
50	23	49	151	432	968	1729	2645	3515	4179	4527	4638	4675
55	8	16	64	233	616	1228	1989	2704	3218	3434	3487	3502
60	2	4	22	111	357	819	1425	1985	2353	2466	2485	2489
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	82	179	376	727	1269	1992	2839	3655	4303	4706	4910	5013

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