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

Summary of Monthly Normals
1991-2020

Generated on 10/07/2026

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

Current Location: Elev: 728 ft. Lat: 35.2236° N Lon: 80.9553° W

Station: **CHARLOTTE DOUGLAS AP, NC US USW00013881**

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	52.3	31.8	42.1	3.3	3.7	3.4	10.9	6.4	2.3	0.2	0.0	0.0	412.2	469.6	558.6	711.6	0.0	0.0	18.0	0.8	16.6	0.0
02	56.6	34.9	45.7	4.3	3.5	3.8	21.8	14.1	6.8	1.5	0.1	0.0	280.7	329.0	405.8	540.5	0.0	0.0	20.7	0.3	12.0	0.0
03	64.2	41.2	52.7	3.9	3.9	3.7	84.1	61.3	35.1	10.2	0.9	0.2	155.4	194.6	261.3	391.5	0.0	0.0	28.4	0.0	6.3	0.0
04	73.2	49.1	61.1	2.3	2.5	2.2	216.1	171.8	115.5	47.1	11.3	4.9	31.6	47.3	81.0	162.6	0.0	0.1	29.8	0.0	0.7	0.0
05	80.1	58.0	69.0	2.9	3.1	2.8	437.3	377.5	292.1	164.8	68.2	41.7	1.8	4.0	11.6	39.3	0.0	2.1	31.0	0.0	0.0	0.0
06	86.9	66.2	76.6	2.9	1.7	2.1	646.5	586.4	496.6	348.3	207.3	155.3	0.0	0.0	0.2	1.9	0.3	10.3	30.0	0.0	0.0	0.0
07	90.3	69.9	80.1	2.5	1.6	1.9	778.0	716.0	623.0	468.1	313.7	252.8	0.0	0.0	0.0	0.1	0.5	18.0	31.0	0.0	0.0	0.0
08	88.6	68.7	78.6	2.7	1.8	2.1	733.1	671.1	578.1	423.2	269.7	210.1	0.0	0.0	0.0	0.1	0.2	13.5	31.0	0.0	0.0	0.0
09	82.8	62.6	72.7	3.1	2.4	2.5	531.2	471.6	383.5	244.1	123.8	85.1	0.2	0.7	2.6	13.1	0.0	5.0	30.0	0.0	0.0	0.0
10	73.3	50.4	61.9	2.5	2.8	2.3	239.5	191.1	128.2	53.9	16.5	9.3	27.2	40.7	70.9	151.5	0.0	0.3	31.0	0.0	1.0	0.0
11	62.9	39.8	51.4	3.7	3.0	3.1	59.0	41.5	22.4	5.7	0.8	0.4	168.4	210.9	281.8	415.1	0.0	0.0	27.5	0.0	7.4	0.0
12	54.9	34.5	44.7	4.4	4.4	4.3	21.4	14.4	7.0	1.4	0.2	0.0	340.7	395.6	481.2	630.6	0.0	0.0	21.5	0.0	14.4	0.0
Summary	72.2	50.6	61.4	3.2	2.9	2.9	3779	3323	2691	1769	1012	760	1418	1692	2155	3058	1.0	49.3	329.9	1.1	58.4	0.0

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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	3.49	10.3	7.1	2.4	0.8	2.34	3.33	4.58
02	3.13	9.7	6.4	2.2	0.6	2.37	2.99	3.81
03	3.95	10.2	7.3	2.9	1.1	2.79	4.29	4.88
04	3.84	9.0	6.1	2.7	1.2	2.09	3.91	5.40
05	3.36	9.5	5.9	2.3	0.8	1.68	2.86	4.15
06	3.99	10.6	6.7	2.8	1.1	2.60	3.29	5.59
07	3.74	10.5	6.1	2.5	0.8	2.31	3.53	4.43
08	4.35	10.1	6.3	2.8	1.2	2.18	3.97	5.66
09	3.71	7.7	5.1	2.5	1.1	2.54	3.89	4.44
10	3.16	7.1	4.4	1.9	1.0	1.35	2.91	5.13
11	3.31	8.1	5.3	2.5	0.8	1.69	2.95	4.24
12	3.57	9.6	6.1	2.5	1.0	2.38	2.99	4.20
Summary	43.60	112.4	72.8	30.0	11.5	26.32	40.91	56.51

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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	1.60	0.9	0.5	0.2	0.0	0.0	1.2	0.4	0.1	0.0	0.00	0.50	2.40
02	1.10	0.5	0.3	0.1	0.0	0.0	0.4	0.2	0.1	0.0	0.00	0.00	0.50
03	0.30	0.2	0.1	0.0	0.0	0.0	0.1	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	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
12	0.40	0.3	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.00	0.00	0.00
Summary	3.5	1.9	1.0	0.3	0.0	0.0	1.9	0.6	0.2	0.0	0.0	0.5	2.9

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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	151.6	199.0	402.5	634.7	900.5	1096.4	1243.0	1198.1	980.9	677.5	348.7	193.2
45	77.7	111.9	270.4	486.4	745.5	946.4	1088.0	1043.1	830.9	523.8	222.5	104.8
50	33.6	54.9	162.8	344.3	590.8	796.4	933.0	888.1	680.9	375.5	124.5	50.4
55	10.9	21.8	84.1	216.1	437.3	646.5	778.0	733.1	531.2	239.5	59.0	21.4
60	2.3	6.8	35.1	115.5	292.1	496.6	623.0	578.1	383.5	128.2	22.4	7.0
Growing Degree Units for Corn (Monthly)												
50/86	88.3	121.0	241.8	393.3	591.5	753.2	857.3	831.0	664.2	420.9	212.5	110.8

Growing Degree Units (Accumulated Monthly)

40	152	351	753	1388	2288	3385	4628	5826	6807	7484	7833	8026
45	78	190	460	946	1692	2638	3726	4769	5600	6124	6347	6451
50	34	88	251	596	1186	1983	2916	3804	4485	4860	4985	5035
55	11	33	117	333	770	1417	2195	2928	3459	3698	3758	3779
60	2	9	44	160	452	948	1571	2150	2533	2661	2684	2691
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	88	209	451	844	1436	2189	3046	3877	4542	4962	5175	5286

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

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