

Summary of Monthly Normals
1991-2020

Generated on 05/20/2024

Current Location: Elev: 1175 ft. Lat: 37.3169° N Lon: 79.9742° W

Station: ROANOKE RGNL AP, VA US USW00013741

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	47.1	28.7	37.9	3.9	3.8	3.7	4.7	2.7	0.9	0.1	0.0	0.0	534.6	594.7	685.8	840.1	0.0	0.0	11.7	3.3	20.6	0.1
02	50.8	30.8	40.8	4.8	3.5	3.9	7.6	4.5	1.6	0.3	0.0	0.0	405.1	458.1	539.2	677.9	0.0	0.0	14.2	1.4	17.2	0.1
03	59.0	37.6	48.3	4.5	3.4	3.9	47.2	33.6	18.4	5.2	0.4	0.1	254.8	303.3	381.1	522.9	0.0	0.0	23.4	0.2	9.8	0.0
04	69.7	46.3	58.0	2.5	2.1	2.2	157.0	122.4	79.4	31.0	7.6	3.4	67.1	92.4	139.4	241.0	0.0	0.2	28.7	0.0	1.4	0.0
05	77.2	55.0	66.1	3.4	3.3	3.1	350.8	295.3	218.6	113.3	42.6	24.3	6.7	13.2	29.5	79.2	0.0	1.1	31.0	0.0	0.0	0.0
06	84.4	63.2	73.8	2.4	1.7	1.9	564.0	504.2	415.0	271.6	143.2	100.3	0.1	0.3	1.1	7.6	0.1	5.5	30.0	0.0	0.0	0.0
07	88.1	67.4	77.8	2.5	2.0	2.1	705.2	643.2	550.2	395.4	243.8	186.6	0.0	0.0	0.0	0.2	0.2	12.2	31.0	0.0	0.0	0.0
08	86.5	66.0	76.2	2.6	2.1	2.1	658.7	596.7	503.7	349.4	201.1	148.0	0.0	0.0	0.0	0.7	0.2	8.4	31.0	0.0	0.0	0.0
09	80.0	59.1	69.6	3.0	2.5	2.4	438.1	380.0	295.3	169.1	73.5	46.7	1.6	3.5	8.8	32.7	0.0	2.9	30.0	0.0	0.0	0.0
10	70.1	47.8	58.9	2.4	2.7	2.1	171.8	131.5	81.9	30.3	8.5	4.7	49.4	71.0	114.5	217.8	0.0	0.2	30.4	0.0	1.1	0.0
11	59.0	37.7	48.4	4.4	3.1	3.6	36.1	23.6	11.0	2.0	0.2	0.1	235.6	283.0	360.5	501.5	0.0	0.0	23.5	0.0	8.9	0.0
12	50.0	31.8	40.9	4.6	3.5	3.9	7.7	4.4	1.6	0.1	0.0	0.0	444.7	503.4	593.6	747.1	0.0	0.0	14.9	1.2	17.7	0.0
Summary	68.5	47.6	58.1	3.4	2.8	2.9	3149	2742	2178	1368	721	514	2000	2323	2853	3869	0.5	30.5	299.8	6.1	76.7	0.2

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	3.17	9.5	5.8	2.3	0.8	1.79	2.46	3.75
02	2.89	9.5	5.4	1.9	0.7	1.93	2.21	3.92
03	3.51	11.1	7.1	2.2	0.8	2.61	3.40	3.99
04	3.49	10.7	6.1	2.2	0.7	2.53	3.12	4.93
05	4.31	12.4	8.3	2.8	1.0	2.38	3.83	5.24
06	4.66	12.2	7.3	3.0	1.3	2.52	4.56	6.44
07	4.28	11.7	7.2	2.9	1.1	3.10	3.72	5.45
08	3.37	9.7	5.8	2.1	0.9	2.31	3.11	4.38
09	4.06	9.0	5.6	2.9	1.2	1.53	3.32	5.75
10	2.96	7.7	5.0	2.1	0.8	1.52	2.47	4.53
11	3.04	7.8	4.9	2.1	0.9	1.63	3.06	4.25
12	3.08	9.2	5.7	2.4	0.7	2.33	2.60	3.51
Summary	42.82	120.5	74.2	28.9	10.9	26.18	37.86	56.14

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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	4.30	2.0	1.1	0.6	0.2	0.1	3.2	1.4	0.7	0.3	0.30	2.80	4.90
02	4.80	2.2	1.2	0.5	0.3	0.1	3.7	2.2	1.8	0.5	0.20	2.40	7.90
03	2.30	1.4	0.7	0.2	0.1	0.0	1.1	0.4	0.3	0.1	0.00	0.50	3.20
04	0.10	0.1	0.1	0.0	0.0	0.0	0.1	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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
12	3.20	1.3	0.7	0.3	0.2	0.1	2.4	1.1	0.6	0.2	0.00	0.20	4.60
Summary	14.8	7.1	3.8	1.6	0.8	0.3	10.5	5.1	3.4	1.1	0.5	5.9	20.6

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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	89.6	114.8	288.4	541.5	809.1	1013.9	1170.1	1123.6	886.4	587.9	273.4	122.2
45	39.9	56.1	178.7	397.4	654.1	863.9	1015.1	968.6	736.4	436.2	164.0	57.9
50	14.9	22.7	97.8	265.0	499.8	713.9	860.2	813.7	586.7	293.7	85.0	23.2
55	4.7	7.6	47.2	157.0	350.8	564.0	705.2	658.7	438.1	171.8	36.1	7.7
60	0.9	1.6	18.4	79.4	218.6	415.0	550.2	503.7	295.3	81.9	11.0	1.6
Growing Degree Units for Corn (Monthly)												
50/86	51.3	72.4	171.3	324.1	511.6	686.5	805.4	772.6	580.5	349.7	159.0	66.9

Growing Degree Units (Accumulated Monthly)												
40	90	204	493	1034	1843	2857	4027	5151	6037	6625	6899	7021
45	40	96	275	672	1326	2190	3205	4174	4910	5346	5510	5568
50	15	38	135	400	900	1614	2474	3288	3875	4168	4253	4277
55	5	12	60	216	567	1131	1836	2495	2933	3105	3141	3149
60	1	2	21	100	319	734	1284	1788	2083	2165	2176	2178
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	51	124	295	619	1131	1817	2623	3395	3976	4325	4484	4551

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