

Summary of Monthly Normals
1991-2020

Generated on 06/04/2024

Current Location: Elev: 700 ft. Lat: 39.4761° N Lon: 88.1653° W

Station: CHARLESTON, IL US USC00111436

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	37.9	20.7	29.3	4.5	4.7	4.4	0.6	0.2	0.0	0.0	0.0	0.0	797.1	858.6	951.5	1106.4	0.0	0.0	4.9	10.4	25.9	2.1
02	43.3	24.6	33.9	5.5	5.6	5.4	3.2	1.7	0.7	0.0	0.0	0.0	592.5	647.0	730.0	869.3	0.0	0.0	8.5	5.7	21.3	1.0
03	54.3	33.6	44.0	5.3	4.8	4.9	36.0	26.1	15.1	4.5	1.0	0.3	378.6	430.6	512.6	657.0	0.0	0.0	18.9	1.2	14.9	0.0
04	67.3	44.1	55.7	3.5	3.6	3.4	129.0	99.0	62.5	23.4	5.8	2.7	108.0	138.0	191.5	302.5	0.0	0.0	28.2	0.0	4.0	0.0
05	77.1	54.1	65.6	3.4	3.3	3.2	340.7	287.2	213.7	115.8	48.4	29.6	12.1	20.6	40.1	97.2	0.0	1.2	31.0	0.0	0.2	0.0
06	85.5	63.0	74.2	2.1	2.2	1.9	577.5	517.8	428.9	285.9	158.9	116.3	0.2	0.4	1.5	8.6	0.1	7.5	30.0	0.0	0.0	0.0
07	88.1	66.2	77.2	3.3	2.3	2.6	686.6	624.6	531.6	376.8	228.4	175.6	0.0	0.0	0.0	0.2	0.6	11.4	31.0	0.0	0.0	0.0
08	86.6	64.4	75.5	2.7	2.7	2.5	635.4	573.4	480.6	327.3	185.1	136.3	0.0	0.0	0.1	1.9	0.0	8.8	31.0	0.0	0.0	0.0
09	81.2	56.8	69.0	3.3	2.7	2.8	424.1	367.6	286.4	167.3	78.3	53.1	4.2	7.7	16.5	47.4	0.0	4.3	30.0	0.0	0.0	0.0
10	68.9	45.6	57.3	2.9	2.5	2.5	155.3	122.0	80.3	34.1	10.3	5.8	85.5	114.3	165.6	274.4	0.0	0.3	30.0	0.0	2.9	0.0
11	54.4	34.9	44.6	4.8	3.9	4.2	25.8	16.9	7.8	1.7	0.2	0.0	336.2	387.3	468.3	612.2	0.0	0.0	19.0	0.8	12.7	0.0
12	42.4	26.1	34.3	4.6	4.8	4.5	2.7	1.6	0.5	0.0	0.0	0.0	645.9	706.8	798.7	953.1	0.0	0.0	7.5	6.3	22.7	0.4
Summary	65.6	44.5	55.0	3.8	3.6	3.5	3017	2638	2108	1337	716	520	2960	3311	3876	4930	0.7	33.5	270.0	24.4	104.6	3.5

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	2.54	10.2	5.7	1.6	0.7	1.49	2.22	3.20	
02	2.69	8.3	5.0	1.4	0.5	1.32	2.34	3.49	
03	3.11	10.7	6.7	2.3	0.6	1.56	2.93	4.31	
04	5.09	12.0	8.5	3.2	1.2	3.28	4.78	6.88	
05	4.52	12.9	8.7	2.9	1.0	2.81	4.22	5.51	
06	4.84	10.4	7.4	3.5	1.4	2.95	4.50	6.74	
07	4.40	9.2	6.0	3.0	1.5	2.86	3.85	5.67	
08	2.94	8.1	5.3	1.9	0.8	1.85	3.11	3.80	
09	3.15	7.8	5.0	2.1	0.8	1.46	2.46	3.87	
10	3.94	9.5	6.2	2.9	1.4	2.37	3.61	5.52	
11	3.74	10.5	7.1	3.1	0.9	2.57	3.12	4.71	
12	2.79	10.6	6.1	2.0	0.6	1.77	2.49	3.45	
Summary	43.75	120.2	77.7	29.9	11.4	26.29	39.63	57.15	

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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	8.10	4.1	3.1	1.1	0.4	0.1	11.5	5.5	3.0	1.0	4.50	5.90	11.20
02	5.50	2.6	1.5	0.3	0.2	0.0	7.3	3.6	1.9	0.2	1.10	4.90	10.00
03	1.30	1.4	0.9	0.3	0.2	0.0	2.8	1.2	0.5	0.0	0.00	0.30	2.00
04	0.30	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	0.80	0.5	0.3	0.1	0.0	0.0	0.6	0.1	0.0	0.0	0.00	0.00	0.50
12	3.00	3.2	1.7	0.5	0.2	0.0	5.2	2.4	0.7	0.0	0.50	2.60	5.60
Summary	19.0	11.9	7.6	2.3	1.0	0.1	27.5	12.8	6.1	1.2	6.1	13.7	29.3

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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	29.0	57.6	204.8	478.4	793.6	1027.2	1151.5	1100.3	869.8	537.4	206.5	56.5
45	11.2	26.1	124.2	343.6	638.7	877.3	996.6	945.4	720.0	390.1	119.4	24.8
50	3.8	10.5	70.7	224.6	485.4	727.3	841.6	790.4	570.7	260.1	61.6	9.3
55	0.6	3.2	36.0	129.0	340.7	577.5	686.6	635.4	424.1	155.3	25.8	2.7
60	0.0	0.7	15.1	62.5	213.7	428.9	531.6	480.6	286.4	80.3	7.8	0.5
Growing Degree Units for Corn (Monthly)												
50/86	15.8	33.9	123.6	293.0	507.4	693.0	786.9	749.9	568.7	328.2	114.5	26.9
Growing Degree Units (Accumulated Monthly)												
40	29	87	291	770	1563	2591	3742	4842	5712	6250	6456	6513
45	11	37	162	505	1144	2021	3018	3963	4683	5073	5193	5217
50	4	14	85	310	795	1522	2364	3154	3725	3985	4047	4056
55	1	4	40	169	510	1087	1774	2409	2833	2988	3014	3017
60	0	1	16	78	292	721	1252	1733	2020	2100	2108	2108
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	16	50	173	466	974	1667	2454	3204	3772	4100	4215	4242

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