

Summary of Monthly Normals
1991-2020

Current Location: Elev: 893 ft. Lat: 37.5339° N Lon: 95.8269° W
Station: FREDONIA, KS US USC00142894

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	42.8	21.8	32.3	4.2	3.3	3.5	1.4	0.9	0.4	0.0	0.0	0.0	704.8	766.3	858.8	1013.4	0.0	0.0	11.0	6.3	27.5	0.9
02	48.5	25.5	37.0	5.5	3.6	4.3	4.4	2.2	1.0	0.1	0.0	0.0	508.3	562.1	644.8	783.9	0.0	0.0	15.0	2.4	22.3	0.1
03	58.0	34.6	46.3	5.0	4.8	4.6	36.5	25.2	13.5	3.6	0.4	0.2	306.2	356.9	438.2	583.3	0.0	0.0	23.5	0.7	14.0	0.0
04	67.8	44.3	56.1	3.7	3.3	3.4	129.1	98.0	60.7	20.9	4.3	1.9	97.6	126.5	179.2	289.4	0.0	0.2	28.5	0.0	3.9	0.0
05	76.1	55.9	66.0	3.2	2.7	2.8	350.4	295.2	218.8	113.7	43.7	25.6	9.5	16.2	32.9	82.8	0.0	1.2	30.9	0.0	0.2	0.0
06	85.0	65.3	75.2	3.3	2.5	2.7	604.4	544.5	455.0	308.6	173.8	126.9	0.1	0.2	0.7	4.3	0.1	9.1	30.0	0.0	0.0	0.0
07	90.3	69.4	79.9	3.3	2.8	2.8	770.2	708.2	615.1	460.3	307.1	248.1	0.0	0.0	0.0	0.0	2.5	19.1	31.0	0.0	0.0	0.0
08	89.6	67.2	78.4	4.0	2.7	3.1	725.2	663.2	570.2	416.0	267.6	212.7	0.0	0.0	0.1	0.8	2.7	17.5	31.0	0.0	0.0	0.0
09	81.7	58.6	70.2	3.2	2.7	2.6	458.4	401.1	318.6	194.3	97.9	68.4	4.0	6.8	14.2	39.9	0.6	6.7	30.0	0.0	0.1	0.0
10	70.1	45.9	58.0	3.4	2.7	2.6	169.3	132.7	86.7	34.4	9.0	4.3	76.2	101.7	148.6	251.4	0.0	0.4	30.0	0.0	3.0	0.0
11	57.5	34.7	46.1	4.9	3.7	4.0	30.7	20.8	10.3	2.0	0.2	0.0	297.7	347.8	427.3	569.0	0.0	0.0	23.6	0.3	14.5	0.0
12	45.6	25.9	35.8	4.2	3.6	3.7	2.5	1.4	0.5	0.0	0.0	0.0	599.0	659.9	752.0	906.5	0.0	0.0	13.3	4.5	24.7	0.3
Summary	67.8	45.8	56.8	4.0	3.2	3.3	3282	2893	2351	1554	904	688	2603	2944	3497	4525	5.9	54.2	297.8	14.2	110.2	1.3

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	1.19	3.6	2.5	0.5	0.3	0.33	0.94	1.81	
02	1.48	3.1	2.6	0.8	0.3	0.41	1.57	2.14	
03	2.76	6.3	4.9	2.1	0.7	1.89	2.30	3.64	
04	4.31	7.3	5.9	2.9	1.5	2.53	4.00	5.21	
05	5.80	8.3	7.0	3.5	1.7	3.46	5.32	6.58	
06	6.11	7.7	6.5	3.7	1.8	3.12	4.76	7.87	
07	4.08	6.8	5.5	2.8	1.3	2.65	3.73	4.81	
08	4.15	5.8	4.7	2.4	1.1	2.36	3.45	6.29	
09	4.20	5.4	4.6	2.3	1.1	2.18	3.37	6.10	
10	3.58	6.7	5.2	2.5	1.3	1.89	3.49	5.19	
11	2.31	4.1	3.0	1.3	0.7	1.00	1.64	2.55	
12	1.80	3.8	3.0	1.4	0.5	0.78	1.62	2.87	
Summary	41.77	68.9	55.4	26.2	12.3	22.60	36.19	55.06	

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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	2.90	1.4	0.8	0.3	0.0	0.0	3.1	1.4	0.7	0.0	0.50	1.80	5.20
02	0.80	0.5	0.3	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.00	0.00	1.60
03	0.40	0.1	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.00	0.00	0.00
04	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
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	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.00	0.00	0.00
12	2.30	0.8	0.5	0.2	0.1	0.0	2.8	1.8	1.1	0.1	0.00	0.00	3.20
Summary	6.5	3.0	1.7	0.5	0.1	0.0	7.1	3.3	1.8	0.1	0.5	1.8	10.0

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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	39.7	79.5	253.9	487.6	806.0	1054.2	1235.1	1190.0	904.3	561.7	235.6	67.5
45	13.9	37.4	154.9	350.0	651.4	904.2	1080.1	1035.0	754.5	415.4	139.5	27.4
50	4.3	15.4	82.2	226.9	497.9	754.3	925.2	880.2	605.3	281.0	70.6	9.4
55	1.4	4.4	36.5	129.1	350.4	604.4	770.2	725.2	458.4	169.3	30.7	2.5
60	0.4	1.0	13.5	60.7	218.8	455.0	615.1	570.2	318.6	86.7	10.3	0.5
Growing Degree Units for Corn (Monthly)												
50/86	33.3	65.3	167.3	297.8	511.8	726.2	845.5	800.9	595.6	350.9	148.7	46.8

Growing Degree Units (Accumulated Monthly)												
40	40	119	373	861	1667	2721	3956	5146	6050	6612	6848	6915
45	14	51	206	556	1208	2112	3192	4227	4981	5397	5536	5564
50	4	20	102	329	827	1581	2506	3386	3992	4273	4343	4353
55	1	6	42	171	522	1126	1896	2622	3080	3249	3280	3282
60	0	1	15	76	294	749	1364	1935	2253	2340	2350	2351
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	33	99	266	564	1076	1802	2647	3448	4044	4395	4543	4590

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