

Summary of Monthly Normals
1991-2020

Generated on 04/25/2024

Current Location: Elev: 1100 ft. Lat: 41.3150° N Lon: 94.0183° W

Station: WINTERSET 1S, IA US USC00139132

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	29.9	9.8	19.9	5.3	5.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	1089.4	1151.4	1244.5	1399.5	0.0	0.0	2.7	17.0	30.2	6.7
02	34.8	13.2	24.0	7.2	6.6	6.7	0.2	0.1	0.0	0.0	0.0	0.0	868.0	923.9	1007.9	1147.9	0.0	0.0	5.0	11.6	25.4	3.6
03	47.6	24.8	36.2	6.1	4.6	5.1	10.2	6.5	3.1	0.6	0.0	0.0	593.1	651.4	741.0	893.4	0.0	0.0	14.2	4.0	22.2	0.5
04	60.5	35.4	48.0	3.9	3.4	3.5	40.4	27.9	14.4	3.3	0.2	0.1	252.0	299.4	375.9	514.8	0.0	0.0	25.2	0.1	8.8	0.0
05	70.8	48.0	59.4	3.3	2.9	2.9	188.0	148.0	97.7	39.8	11.4	6.0	51.7	73.6	116.3	213.4	0.0	0.3	30.7	0.0	0.8	0.0
06	80.0	58.3	69.2	2.3	2.3	2.1	426.0	368.1	283.9	156.5	63.8	39.5	1.7	3.8	9.5	32.1	0.0	1.8	30.0	0.0	0.0	0.0
07	83.8	62.2	73.0	3.3	2.6	2.8	558.0	496.0	403.6	254.5	125.6	86.2	0.0	0.1	0.6	6.5	0.2	6.4	31.0	0.0	0.0	0.0
08	82.3	59.4	70.9	2.6	2.8	2.4	491.5	429.9	339.2	198.8	90.3	59.8	0.3	0.7	3.0	17.6	0.1	4.5	31.0	0.0	0.0	0.0
09	75.6	50.6	63.1	3.5	3.5	3.2	265.7	218.2	155.2	75.2	28.4	17.1	22.8	35.3	62.3	132.3	0.0	1.6	30.0	0.0	0.9	0.0
10	63.3	38.3	50.8	3.6	2.7	2.8	71.7	52.3	30.7	9.7	2.4	1.2	201.9	244.5	315.9	449.9	0.0	0.0	27.0	0.1	7.9	0.0
11	48.1	26.0	37.1	6.4	4.8	5.5	6.0	3.3	1.0	0.0	0.0	0.0	544.5	601.7	689.5	838.5	0.0	0.0	14.6	3.5	19.6	0.2
12	35.1	15.9	25.5	5.6	5.3	5.3	0.3	0.1	0.0	0.0	0.0	0.0	914.6	976.5	1069.4	1224.4	0.0	0.0	3.7	12.9	28.9	3.6
Summary	59.3	36.8	48.1	4.4	3.9	3.9	2058	1750	1329	738	322	210	4540	4962	5636	6870	0.3	14.6	245.1	49.2	144.7	14.6

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	0.78	5.2	2.8	0.2	0.0	0.44	0.73	1.05	
02	1.28	5.6	3.5	0.6	0.1	0.88	1.31	1.72	
03	2.12	7.3	4.7	1.6	0.3	1.21	1.80	3.05	
04	3.59	10.3	7.6	2.8	0.7	2.57	3.42	4.37	
05	4.99	11.9	8.9	3.3	1.3	3.56	4.49	6.21	
06	4.64	10.2	7.3	3.1	1.2	2.64	4.03	5.95	
07	4.10	9.5	7.2	3.1	1.4	2.26	3.38	5.26	
08	3.62	8.8	6.0	2.3	1.1	1.67	3.16	5.05	
09	3.60	7.4	5.4	2.3	0.9	1.88	3.35	4.45	
10	2.88	7.7	4.9	1.7	0.6	1.29	2.81	3.96	
11	1.96	5.9	3.8	1.4	0.4	1.15	1.69	2.32	
12	1.23	6.2	3.2	0.5	0.1	0.60	0.99	1.64	
Summary	34.79	96.0	65.3	22.9	8.1	20.15	31.16	45.03	

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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	7.30	3.6	2.8	1.2	0.2	0.0	18.3	13.8	9.2	2.3	2.00	8.40	9.70
02	8.30	4.0	2.9	0.8	0.5	0.0	15.0	11.2	8.3	3.1	2.30	7.40	14.50
03	4.70	1.7	1.4	0.7	0.4	0.1	6.4	3.7	2.5	1.0	0.70	4.50	6.30
04	0.80	0.6	0.4	0.2	0.1	0.0	0.6	0.3	0.2	0.0	0.00	0.00	0.50
05	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
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	0.90	0.3	0.3	0.1	0.1	0.0	0.3	0.1	0.1	0.0	0.00	0.00	0.00
11	2.70	1.2	0.8	0.3	0.1	0.0	2.5	0.9	0.4	0.0	0.00	1.20	3.70
12	5.90	4.3	3.3	0.8	0.3	0.1	11.9	7.3	4.7	1.6	1.90	7.00	9.00
Summary	30.7	15.7	11.9	4.1	1.7	0.2	55.0	37.3	25.4	8.0	6.9	28.5	43.7

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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	3.6	15.1	100.2	275.9	602.0	874.2	1022.8	956.1	693.1	359.1	94.4	11.7
45	0.5	4.8	55.0	168.9	449.8	724.2	867.8	801.1	544.1	237.7	45.5	3.5
50	0.0	1.0	26.5	89.7	308.5	574.5	712.9	646.2	399.0	140.7	19.4	1.0
55	0.0	0.2	10.2	40.4	188.0	426.0	558.0	491.5	265.7	71.7	6.0	0.3
60	0.0	0.0	3.1	14.4	97.7	283.9	403.6	339.2	155.2	30.7	1.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	4.9	15.1	75.6	182.1	363.3	572.5	689.5	633.9	438.3	230.6	66.8	9.2

Growing Degree Units (Accumulated Monthly)												
40	4	19	119	395	997	1871	2894	3850	4543	4902	4996	5008
45	0	5	60	229	679	1403	2271	3072	3616	3854	3899	3903
50	0	1	28	117	426	1000	1713	2359	2758	2899	2918	2919
55	0	0	10	51	239	665	1223	1714	1980	2052	2058	2058
60	0	0	3	18	115	399	803	1142	1297	1328	1329	1329
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	5	20	96	278	641	1214	1903	2537	2975	3206	3273	3282

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

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