

Summary of Monthly Normals
1991-2020

Generated on 05/23/2024

Current Location: Elev: 1326 ft. Lat: 43.1653° N Lon: 95.1467° W

Station: **SPENCER 1 N, IA US USC00137844**

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	25.1	7.0	16.1	5.1	6.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1207.1	1269.1	1362.1	1517.2	0.0	0.0	0.6	21.4	30.9	10.3
02	29.8	11.4	20.6	6.5	6.9	6.6	0.1	0.0	0.0	0.0	0.0	0.0	963.0	1019.0	1102.9	1243.0	0.0	0.0	1.5	16.0	27.2	6.7
03	43.0	23.7	33.3	6.1	4.7	5.2	4.5	2.9	1.4	0.3	0.0	0.0	675.7	736.1	827.7	981.5	0.0	0.0	9.3	6.6	25.1	1.5
04	57.7	34.9	46.3	4.5	3.5	3.8	33.0	23.4	13.2	4.1	0.6	0.2	294.0	344.4	424.3	565.1	0.0	0.1	21.7	0.8	11.5	0.0
05	69.9	47.4	58.6	3.6	3.1	3.2	179.4	142.2	95.9	43.1	14.5	8.7	66.4	91.1	137.9	240.0	0.1	0.9	30.1	0.0	1.2	0.0
06	80.3	58.3	69.3	2.7	2.5	2.4	431.0	373.1	289.2	164.0	71.2	47.4	2.2	4.3	10.5	35.1	0.0	4.2	30.0	0.0	0.0	0.0
07	83.7	61.8	72.7	3.5	2.9	3.1	550.1	488.1	396.0	248.7	123.8	85.6	0.0	0.0	0.9	8.5	0.1	6.3	31.0	0.0	0.0	0.0
08	81.0	59.0	70.0	2.4	2.7	2.3	465.2	403.9	313.2	175.9	74.4	47.0	0.3	1.0	3.3	21.0	0.0	2.9	31.0	0.0	0.0	0.0
09	74.6	50.2	62.4	3.3	3.3	3.1	251.9	206.7	146.1	70.2	26.3	15.9	30.1	44.9	74.3	148.4	0.0	1.4	29.7	0.0	0.8	0.0
10	60.2	37.3	48.7	3.9	2.8	3.1	50.1	35.5	19.8	6.4	1.6	0.9	243.9	291.3	368.6	510.2	0.0	0.1	25.0	0.4	9.7	0.0
11	43.6	23.9	33.8	6.6	4.4	5.3	3.0	1.5	0.5	0.0	0.0	0.0	640.4	699.0	787.9	937.5	0.0	0.0	9.6	6.4	24.3	0.5
12	30.0	12.7	21.3	5.6	5.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1042.9	1104.9	1197.9	1353.0	0.0	0.0	1.5	16.9	30.3	5.9
Summary	56.6	35.6	46.1	4.5	4.0	4.1	1968	1677	1275	713	312	206	5166	5605	6298	7560	0.2	15.9	221.0	68.5	161.0	24.9

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	0.72	6.3	2.3	0.1	0.0	0.35	0.62	0.87
02	0.79	5.9	2.5	0.3	0.0	0.31	0.71	0.94
03	1.66	7.5	4.1	1.0	0.2	0.76	1.56	2.45
04	3.49	10.7	6.5	2.2	0.7	2.35	3.38	4.66
05	4.19	12.7	8.6	2.7	1.1	3.44	4.21	4.86
06	4.60	11.5	7.8	3.2	1.2	2.81	3.63	5.69
07	3.74	8.8	6.0	2.3	1.0	2.77	3.37	4.83
08	3.77	8.7	5.8	2.5	1.2	1.62	2.57	6.12
09	3.29	8.2	5.3	2.0	0.7	1.48	2.54	3.31
10	2.35	8.1	4.5	1.4	0.6	1.35	1.85	3.22
11	1.41	6.1	3.2	0.9	0.2	0.58	1.18	2.08
12	0.98	6.5	2.5	0.4	0.1	0.36	0.77	1.17
Summary	30.99	101.0	59.1	19.0	7.0	18.18	26.39	40.20

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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	9.80	5.5	3.0	1.1	0.6	0.0	22.3	17.2	13.8	3.7	7.00	10.30	12.00
02	8.90	5.2	3.0	1.0	0.4	0.0	19.1	14.0	10.2	4.5	5.20	8.00	11.90
03	5.90	3.4	1.7	0.6	0.3	0.0	9.3	5.0	3.2	1.3	3.50	6.70	8.10
04	3.00	1.4	0.9	0.4	0.2	0.0	1.7	0.7	0.5	0.1	0.00	0.50	3.60
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	0.70	0.4	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.00	0.00	0.40
11	5.30	2.8	1.4	0.6	0.3	0.0	5.5	2.4	1.4	0.1	1.20	3.30	8.50
12	9.60	5.2	3.5	1.2	0.4	0.0	17.4	12.1	7.9	1.7	5.00	7.20	10.90
Summary	43.3	23.9	13.8	4.9	2.2	0.0	75.5	51.4	37.0	11.4	21.9	36.0	55.4

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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	0.6	6.1	64.2	239.2	579.3	878.7	1015.1	929.9	672.0	304.7	59.3	3.1
45	0.0	1.6	31.8	142.1	430.1	728.8	860.1	774.9	523.8	191.1	27.3	0.9
50	0.0	0.4	12.9	73.7	293.2	579.1	705.1	619.9	381.0	105.9	10.7	0.1
55	0.0	0.1	4.5	33.0	179.4	431.0	550.1	465.2	251.9	50.1	3.0	0.0
60	0.0	0.0	1.4	13.2	95.9	289.2	396.0	313.2	146.1	19.8	0.5	0.0
Growing Degree Units for Corn (Monthly)												
50/86	1.1	4.7	45.8	153.7	344.1	568.9	681.6	613.4	420.4	187.9	42.3	2.8

Growing Degree Units (Accumulated Monthly)												
40	1	7	71	310	889	1768	2783	3713	4385	4690	4749	4752
45	0	2	33	176	606	1334	2194	2969	3493	3684	3712	3712
50	0	0	13	87	380	959	1664	2284	2665	2771	2782	2782
55	0	0	5	38	217	648	1198	1663	1915	1965	1968	1968
60	0	0	1	15	110	400	796	1109	1255	1275	1275	1275
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	1	6	52	205	549	1118	1800	2413	2834	3022	3064	3067

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

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