

Summary of Monthly Normals
1991-2020

Generated on 06/04/2024

Current Location: Elev: 750 ft. Lat: 42.2972° N Lon: 89.6039° W
Station: **FREEPORT WASTE WTP, IL US USC00113262**

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	27.9	11.3	19.6	4.6	5.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0	1097.1	1159.2	1252.3	1407.3	0.0	0.0	1.0	19.8	30.0	7.3
02	32.6	14.8	23.7	5.7	7.1	6.3	0.1	0.0	0.0	0.0	0.0	0.0	876.3	932.3	1016.4	1156.4	0.0	0.0	1.7	12.9	26.3	4.4
03	44.9	25.8	35.4	5.0	4.8	4.7	7.5	5.4	3.0	0.5	0.0	0.0	616.7	676.6	767.2	919.7	0.0	0.0	10.2	4.4	23.7	0.6
04	58.2	36.4	47.3	4.0	3.0	3.3	35.6	24.7	13.4	3.4	0.6	0.2	266.6	315.7	394.4	534.4	0.0	0.0	23.3	0.2	9.5	0.0
05	69.9	48.4	59.1	3.5	3.1	3.1	186.6	147.9	99.3	44.3	15.0	8.4	58.0	81.3	125.7	225.7	0.0	0.5	30.3	0.0	0.7	0.0
06	79.3	58.6	69.0	2.2	2.0	1.9	420.4	362.8	279.4	155.5	66.6	42.4	2.1	4.4	11.0	37.0	0.0	2.8	30.0	0.0	0.0	0.0
07	82.4	62.3	72.4	3.2	2.6	2.8	537.7	475.8	383.2	234.2	110.2	73.7	0.0	0.0	0.4	6.4	0.1	4.1	31.0	0.0	0.0	0.0
08	80.7	59.9	70.3	2.4	2.8	2.5	474.3	412.6	321.2	179.6	72.3	44.1	0.1	0.4	1.9	15.3	0.0	2.2	31.0	0.0	0.0	0.0
09	74.3	51.0	62.6	3.2	2.9	2.8	252.5	205.7	143.8	65.7	21.6	12.8	23.1	36.3	64.3	136.2	0.0	0.9	29.9	0.0	0.4	0.0
10	61.5	39.3	50.4	3.2	2.5	2.5	57.2	40.5	22.8	6.8	1.7	0.9	199.8	245.1	320.4	459.4	0.0	0.1	26.7	0.0	7.6	0.0
11	46.0	28.2	37.1	5.6	3.8	4.6	4.5	2.6	1.1	0.1	0.0	0.0	541.4	599.6	688.1	837.1	0.0	0.0	11.5	3.4	20.9	0.1
12	33.3	17.9	25.6	5.1	5.7	5.3	0.4	0.1	0.0	0.0	0.0	0.0	911.6	973.4	1066.4	1221.4	0.0	0.0	2.0	13.2	28.5	3.0
Summary	57.6	37.8	47.7	4.0	3.8	3.7	1977	1678	1267	690	288	183	4593	5024	5708	6956	0.1	10.6	228.6	53.9	147.6	15.4

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	1.58	8.7	4.4	0.8	0.2	0.94	1.45	2.04
02	1.65	8.0	4.4	1.0	0.1	0.90	1.48	2.08
03	2.15	9.4	4.7	1.4	0.4	1.05	1.63	2.88
04	3.66	10.7	7.1	2.5	0.8	2.21	3.64	4.66
05	4.36	13.1	8.2	2.9	1.0	2.56	4.21	5.93
06	5.26	11.7	8.0	3.5	1.5	3.21	5.09	7.40
07	4.21	9.8	6.0	2.4	1.1	2.45	3.75	4.94
08	4.21	9.7	5.8	2.9	1.3	2.81	3.38	5.14
09	4.11	9.0	5.8	2.5	1.4	2.06	3.36	4.95
10	2.98	9.4	5.3	2.0	0.8	1.34	2.96	4.21
11	2.36	8.1	4.8	1.7	0.4	1.29	1.88	3.07
12	1.83	8.7	4.6	1.0	0.2	0.92	1.47	2.34
Summary	38.36	116.3	69.1	24.6	9.2	21.74	34.30	49.64

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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	9.70	6.0	3.4	1.0	0.4	0.0	20.3	14.1	8.4	1.2	5.90	10.30	13.60
02	8.50	5.0	2.7	1.1	0.2	0.0	15.1	9.8	6.1	1.7	2.10	8.40	13.30
03	3.80	2.9	1.1	0.4	0.2	0.0	5.1	2.7	1.2	0.0	1.50	2.70	6.60
04	0.80	0.6	0.4	0.1	0.0	0.0	0.6	0.1	0.0	0.0	0.00	0.00	1.00
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	0.20	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.00	0.00	0.00
11	2.60	1.2	0.8	0.3	0.1	0.0	2.4	0.7	0.3	0.0	0.00	1.50	3.80
12	8.90	5.0	3.1	1.0	0.4	0.0	12.1	7.7	4.6	0.8	1.60	6.50	11.10
Summary	34.5	20.8	11.6	3.9	1.3	0.0	55.7	35.1	20.6	3.7	11.1	29.4	49.4

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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	1.8	7.6	71.2	254.1	594.1	868.3	1002.7	939.1	679.5	336.8	81.4	9.9
45	0.2	2.3	36.4	149.8	442.6	718.3	847.7	784.2	530.7	213.5	37.5	3.4
50	0.0	0.5	17.3	77.7	302.8	568.6	692.8	629.2	385.7	120.7	14.6	1.3
55	0.0	0.1	7.5	35.6	186.6	420.4	537.7	474.3	252.5	57.2	4.5	0.4
60	0.0	0.0	3.0	13.4	99.3	279.4	383.2	321.2	143.8	22.8	1.1	0.0
Growing Degree Units for Corn (Monthly)												
50/86	1.4	5.0	47.8	152.9	349.6	564.3	676.9	622.3	418.8	198.8	47.6	4.9

Growing Degree Units (Accumulated Monthly)												
40	2	9	81	335	929	1797	2800	3739	4418	4755	4837	4846
45	0	2	39	189	631	1350	2197	2982	3512	3726	3763	3767
50	0	0	18	96	398	967	1660	2289	2675	2795	2810	2811
55	0	0	8	43	230	650	1188	1662	1915	1972	1976	1977
60	0	0	3	16	116	395	778	1100	1243	1266	1267	1267
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	1	6	54	207	557	1121	1798	2420	2839	3038	3085	3090

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