

Summary of Monthly Normals
1991-2020

Generated on 05/03/2024

Current Location: Elev: 1135 ft. Lat: 43.7467° N Lon: 93.7367° W

Station: **WELLS, MN US USC00218808**

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	23.9	4.6	14.3	4.6	6.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1262.9	1325.0	1418.0	1573.0	0.0	0.0	0.2	22.2	30.9	12.6
02	28.6	9.7	19.1	6.3	7.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0	1003.7	1059.7	1143.7	1283.7	0.0	0.0	0.9	17.1	27.2	8.6
03	41.0	23.1	32.1	5.7	5.0	5.2	4.4	2.9	1.3	0.3	0.0	0.0	715.9	776.4	867.8	1021.8	0.0	0.0	7.2	7.4	24.9	2.1
04	56.2	35.0	45.6	4.5	4.0	4.1	30.0	20.3	10.6	2.5	0.4	0.2	312.0	362.3	442.6	584.5	0.0	0.1	20.4	0.6	12.3	0.0
05	68.9	47.9	58.4	3.7	3.2	3.2	173.1	136.6	90.5	39.2	13.1	7.5	67.8	93.2	140.2	243.8	0.0	0.8	29.9	0.0	1.2	0.0
06	78.9	58.7	68.8	2.4	2.2	2.1	416.9	359.9	277.5	155.6	66.2	43.1	3.1	6.1	13.6	41.7	0.0	2.6	30.0	0.0	0.0	0.0
07	82.2	61.8	72.0	2.9	3.0	2.8	526.9	465.1	373.2	225.8	105.0	69.5	0.0	0.2	1.3	8.9	0.1	4.0	31.0	0.0	0.0	0.0
08	79.5	59.6	69.6	2.5	2.5	2.4	451.5	390.4	300.1	164.1	64.9	38.9	0.6	1.4	4.1	23.1	0.0	1.6	31.0	0.0	0.0	0.0
09	73.5	51.3	62.4	3.4	3.4	3.1	254.4	209.1	149.1	72.2	25.9	15.3	32.6	47.2	77.3	150.3	0.0	1.0	29.8	0.0	0.8	0.0
10	59.7	37.6	48.6	4.0	3.0	3.3	53.6	38.6	22.7	7.9	1.9	0.9	250.4	297.4	374.6	514.7	0.0	0.1	24.5	0.2	10.4	0.0
11	43.1	24.4	33.8	6.8	5.2	5.9	2.2	1.1	0.2	0.0	0.0	0.0	639.7	698.6	787.8	937.5	0.0	0.0	9.4	5.9	23.1	0.6
12	29.4	12.2	20.8	5.2	5.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	1060.0	1122.1	1215.1	1370.1	0.0	0.0	1.1	17.9	29.9	6.4
Summary	55.4	35.5	45.5	4.3	4.3	4.1	1913	1624	1225	668	277	175	5349	5790	6486	7753	0.1	10.2	215.4	71.3	160.7	30.3

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	0.71	6.7	2.8	0.2	0.0	0.44	0.67	0.95	
02	0.73	5.5	2.3	0.4	0.0	0.40	0.59	0.95	
03	1.65	6.8	3.6	1.0	0.2	0.93	1.66	2.26	
04	3.39	11.0	7.2	2.4	0.7	2.25	3.05	4.68	
05	4.60	13.2	8.5	3.6	1.3	3.59	4.53	5.99	
06	5.45	11.7	8.0	3.5	1.6	3.67	5.17	6.52	
07	4.86	10.2	6.6	3.3	1.5	3.63	5.17	6.48	
08	4.13	9.9	6.6	2.3	1.0	2.68	3.59	4.86	
09	3.72	8.9	5.7	2.0	0.7	1.48	2.22	4.01	
10	2.50	8.8	5.0	1.6	0.6	1.22	1.76	3.09	
11	1.66	5.7	3.1	0.8	0.2	0.81	1.27	2.35	
12	1.11	7.7	3.7	0.4	0.1	0.54	0.99	1.34	
Summary	34.51	106.1	63.1	21.5	7.9	21.64	30.67	43.48	

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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	8.50	5.4	3.8	1.2	0.6	0.0	24.0	20.2	14.9	4.1	4.70	8.00	11.30
02	8.60	4.3	3.0	1.0	0.3	0.0	21.0	17.2	13.8	6.7	6.00	8.00	11.00
03	5.80	2.9	1.8	0.8	0.4	0.0	11.4	7.5	5.1	2.6	2.50	6.00	8.00
04	2.90	1.2	1.0	0.5	0.2	0.0	1.8	1.1	0.5	0.0	0.00	0.50	4.00
05	0.40	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	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	0.40	0.4	0.2	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.00	0.00	0.00
11	2.60	1.7	1.3	0.5	0.2	0.0	4.6	2.2	1.1	0.0	0.00	2.40	4.00
12	10.90	5.5	3.6	1.5	0.4	0.0	21.5	16.0	10.1	2.6	4.90	8.90	11.80
Summary	40.1	21.4	14.7	5.5	2.1	0.0	84.7	64.4	45.6	16.0	18.1	33.8	50.1

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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	0.1	4.9	54.1	227.8	571.5	863.8	991.9	916.0	672.1	304.3	61.4	3.8
45	0.0	1.2	26.6	135.6	422.5	713.7	836.8	760.9	524.4	193.0	28.2	1.3
50	0.0	0.2	11.7	69.2	286.0	564.0	681.8	605.9	382.5	108.7	9.5	0.2
55	0.0	0.0	4.4	30.0	173.1	416.9	526.9	451.5	254.4	53.6	2.2	0.0
60	0.0	0.0	1.3	10.6	90.5	277.5	373.2	300.1	149.1	22.7	0.2	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.3	2.5	33.0	136.9	332.7	559.3	670.7	603.4	414.5	183.3	38.5	2.7

Growing Degree Units (Accumulated Monthly)												
40	0	5	59	287	858	1722	2714	3630	4302	4606	4668	4672
45	0	1	28	163	586	1300	2136	2897	3422	3615	3643	3644
50	0	0	12	81	367	931	1613	2219	2601	2710	2720	2720
55	0	0	4	34	208	624	1151	1603	1857	1911	1913	1913
60	0	0	1	12	102	380	753	1053	1202	1225	1225	1225
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	3	36	173	505	1065	1735	2339	2753	2937	2975	2978

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

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