

MONTHLY CLIMATE SUMMARY, OCTOBER 2018

NIU WEATHER SERVICE: DE KALB, IL.

Day	Record		Average		Obs.		Obs. Avg.	GDD	CDD	HDD	Precip. (in)	Snowfall (in)
	HI	LO	HI	LO	HI	LO						
1	93	28	73	45	58	51	54.5	5	0	10	0.22	0.0
2	90	25	70	45	73	54	63.5	14	0	1	1.1	0.0
3	89	26	67	44	60	53	56.5	7	0	8	0.02	0.0
4	92	27	68	45	86	54	70.0	20	5	0	0.02	0.0
5	89	26	66	43	60	47	53.5	4	0	11	0.17	0.0
6	92	20	67	44	62	51	56.5	7	0	8	0.86	0.0
7	87	26	66	43	64	53	58.5	9	0	6	0.12	0.0
8	89	22	65	43	62	53	57.5	8	0	7	0.76	0.0
9	86	23	66	43	83	62	72.5	23	8	0	0	0.0
10	87	21	64	42	83	65	74.0	24	9	0	0.08	0.0
11	86	20	64	40	71	40	55.5	6	0	9	0.1	0.0
12	84	22	66	41	47	32	39.5	0	0	25	T	0.0
13	87	21	65	42	40	29	34.5	0	0	30	T	0.0
14	85	21	63	41	51	29	40.0	0	0	25	T	0.0
15	88	21	63	42	49	34	41.5	0	0	23	0.22	0.0
16	85	25	63	41	46	31	38.5	0	0	26	0	0.0
17	87	22	62	40	58	30	44.0	0	0	21	0	0.0
18	86	18	60	39	49	29	39.0	0	0	26	0	0.0
19	86	18	60	39	58	29	43.5	0	0	21	0	0.0
20	86	18	59	38	54	39	46.5	0	0	18	0.02	0.0
21	87	22	59	39	49	24	36.5	0	0	28	T	T
22	84	20	59	38	50	23	36.5	0	0	28	0	0.0
23	83	22	58	37	64	33	48.5	0	0	16	0	0.0
24	80	18	58	39	52	32	42.0	0	0	23	0	0.0
25	77	22	57	38	51	32	41.5	0	0	23	0	0.0
26	82	15	58	39	52	38	45.0	0	0	20	0	0.0
27	82	19	57	40	53	39	46.0	0	0	19	0	0.0
28	78	19	56	37	54	35	44.5	0	0	20	0.09	0.0
29	80	15	58	36	48	35	41.5	0	0	23	0	0.0
30	83	13	58	38	54	34	44.0	0	0	21	0	0.0
31	85	16	58	37	62	44	53.0	3	0	12	0.21	0.0

Temperature

1981-2010 AVG HI: 65.7 °F
 1981-2010 AVG LOW: 40.5 °F
 1981-2010 AVG TEMP.: 53.1 °F
 October 2018 AVG HI: 58.2 °F
 October 2018 AVG LOW: 39.8 °F
 October 2018 AVG TEMP.: 49 °F

Precipitation

October 2018 TOTAL: 3.99 in.
 October AVG: 2.85 in.
 October 2018 SNOW: Trace.
 October SNOW AVG.: 0 in.
 2018 Liquid-Eq. YEAR TO DATE: 34.96 in.
 Liquid-Eq. YEAR TO DATE AVG: 32.83 in.
 2018-2019 Seasonal SNOW TO DATE: Trace.
 Seasonal SNOW TO DATE AVG: 0 in.

Degree Days

COOLING: 10/18: 22
 1/18-Now: 954
 HEATING: 10/18: 508
 7/18-Now: 592
 GROWING: 10/18: 130
 1/18-Now: 3238

Discussion

October's average temperature was 49 °F, which is 4.1 degrees colder than the historical average temperature. October's average high of 58.2 °F was 7.5 degrees cooler than the historical average high. The average minimum temperature was slightly cooler than the historical average by 0.7 degrees. October had 7 days with above average highs and 18 days with below average lows. October of 2018 is tied with the October of 2012 for having the 5th coolest average mean temperature since 1966. There was a total of 11 days where low temperatures were at or below the freezing point, with the first freezing temperature occurring on October 12th. No temperature related records were broken for the month of October.

October's precipitation total for 2018 was 3.99 inches., which was 1.14 in. above the average. This ranks October 2018 the 9th wettest October to date for our 53-year record. The 2018 liquid-equivalent year to date now is 34.96 in., which is 2.13 in. above the year to date average of 32.83 in. October had a trace of snowfall on the 21st of the month. The majority of the precipitation fell in the first half of the month, as 91% of the precipitation fell in the first 15 days of this past October. No records for precipitation were broken for the month.

The amount of cooling degree days (CDDs) for the month was 22. This puts the total since January at 954 CDDs. The number of October 2018 heating degree days (HDD) was 508. The seasonal HDD total now stands at 592. October had 130 growing degree days (GDDs). The total for the 2018 growing season now stands at 3,238 GDDs.

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This summary was prepared by Nicholas Rodeo, November 15, 2018. Forecast information (updated once daily at approx. 7:30 am): (815) 753-1623.

Climate Website: <http://climate.niu.edu>

The Climate Summary is supported by the Department of Geography, the College of Liberal Arts and Sciences, and the Department of Operations.

**October 2018 Daily Highs and Lows with 1981-2010 Average Highs and Lows
Prepared by Nick Rodeo, NIU Weather Director**

