

MONTHLY CLIMATE SUMMARY, OCTOBER 2019

NIU WEATHER SERVICE: DE KALB, IL.

Day	Record	Record	Average	Average	Obs.	Obs.	Obs.	GDD	CDD	HDD	Precip.	Snowfall
	HI	LO	HI	LO	HI	LO	Avg.				(in)	(in)
1	93	28	73	45	84	64	74.0	24	9	0	T	0.0
2	90	25	70	45	85	65	75.0	25	10	0	0.08	0.0
3	89	26	67	44	66	52	59.0	9	0	6	1.92	0.0
4	92	27	68	45	62	41	51.5	1.5	0	13.5	0	0.0
5	89	26	66	43	58	42	50.0	0	0	15	0	0.0
6	92	20	67	44	62	46	54.0	4	0	11	0.35	0.0
7	87	26	66	43	63	46	54.5	4.5	0	10.5	0	0.0
8	89	22	65	43	68	44	56.0	6	0	9	0	0.0
9	86	23	66	43	70	44	57.0	7	0	8	0	0.0
10	87	21	64	42	70	47	58.5	8.5	0	6.5	0	0.0
11	86	20	64	40	68	54	61.0	11	0	4	0.56	0.0
12	84	22	66	41	64	32	48.0	0	0	17	0.07	0.0
13	87	21	65	42	55	31	43.0	0	0	22	0	0.0
14	85	21	63	41	50	33	41.5	0	0	23.5	0	0.0
15	88	21	63	42	54	33	43.5	0	0	21.5	0	0.0
16	85	25	63	41	66	43	54.5	4.5	0	10.5	0	0.0
17	87	22	62	40	52	37	44.5	0	0	20.5	0	0.0
18	86	18	60	39	55	36	45.5	0	0	19.5	0	0.0
19	86	18	60	39	60	38	49.0	0	0	16	0	0.0
20	86	18	59	38	67	43	55.0	5	0	10	0	0.0
21	87	22	59	39	66	47	56.5	6.5	0	8.5	0	0.0
22	84	20	59	38	65	45	55.0	5	0	10	0.72	0.0
23	83	22	58	37	48	37	42.5	0	0	22.5	0.04	0.0
24	80	18	58	39	57	36	46.5	0	0	18.5	0.06	0.0
25	77	22	57	38	47	36	41.5	0	0	23.5	0	0.0
26	82	15	58	39	46	33	39.5	0	0	25.5	0	0.0
27	82	19	57	40	47	35	41.0	0	0	24	1.58	0.0
28	78	19	56	37	59	37	48.0	0	0	17	T	0.0
29	80	15	58	36	46	32	39.0	0	0	26	0.22	T
30	83	13	58	38	38	32	35.0	0	0	30	T	0.0
31	85	16	58	37	37	28	32.5	0	0	32.5	0.39	1.4

Temperature

1981-2010 AVG HI: 65.7 °F
 1981-2010 AVG LOW: 40.5 °F
 1981-2010 AVG TEMP.: 53.1 °F
 October 2019 AVG HI: 59.2 °F
 October 2019 AVG LOW: 40.9 °F
 October 2019 AVG TEMP: 50 °F

Precipitation

October 2019 TOTAL: 5.99in.
 October AVG: 2.85 in.
 October 2019 SNOW: 1.4 in..
 October SNOW AVG.: 0 in.
 2019 Liquid-Eq. YEAR TO DATE: 42.55 in.
 Liquid-Eq. YEAR TO DATE AVG: 32.83 in.
 2019-2020 Seasonal SNOW TO DATE: 1.4 in.
 Seasonal SNOW TO DATE AVG: 0 in.

Degree Days

COOLING: 10/19: 19
 1/19-Now: 766.5
 HEATING: 10/19: 482
 7/19-Now: 521.5
 GROWING: 10/19: 122.5
 1/19-Now: 2961.5

Discussion

October's average temperature was 50 °F, which is 3.1 degrees colder than the historical average temperature. October's average high of 59.2 °F was 6.5 degrees cooler than the historical average high. The average minimum temperature was slightly warmer than the historical average by 0.9 degrees. October featured 11 days with above average highs and 14 days with above average lows. October of 2019 had the 14th coolest average mean temperature since 1966. There was a total of 5 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 2019 was 5.99 inches., which was 3.14 in. above the average. This ranks October 2019 the 4th wettest October to date for our 53-year record. The 2019 liquid-equivalent year to date now is 42.55 in., which is 7.73 in. above the year to date average of 32.83 in., which is also the second highest year-to-date liquid equivalent total through October since 1966. The September-October period has featured 15.54 in., which is the second wettest September-October period in Dekalb/Sycamore since 1895. October had 1.4 in. of snowfall on the 31st, which was the snowiest Halloween on record in Dekalb/Sycamore since 1895. October 2019 was also the 6th snowiest in Dekalb/Sycamore going back to 1895. Only 7% of Octobers have featured measurable snow since 1966.

The amount of cooling degree days (CDDs) for the month was 19. This puts the total since January at 766.5 CDDs. The number of October 2019 heating degree days (HDD) was 482. The seasonal HDD total now stands at 521.5. October had 122.5 growing degree days (GDDs). The total for the 2019 growing season now stands at 2,961 GDDs.

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This summary was prepared by Luke Henderson, November 30, 2019. 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 2019 Daily Highs and Lows with 1981-2010 Average Highs and Lows Prepared by Luke Henderson, NIU Weather Director

