

**MONTHLY CLIMATE SUMMARY, NOVEMBER 2000**  
**NIU WEATHER SERVICE, DEKALB, IL**

Day	Record Hi (F)	Record Lo (F)	Average Hi (1895-1995) (F)	Average Low (1895-1995) (F)	Observed Hi (F)	Observed Lo (F)	Observed Avg Daily Temp (F)	CD	HD	Precip (in.)	Snow-fall (in)
1	82	15	54	37	71	49	60	0	5	0	0
2	77	12	53	36	76	55	65.5	0.5	0	0.06	0
3	75	8	52	35	64	38	51	0	14	0	0
4	75	8	51	33	56	36	46	0	19	0	0
5	75	1	50	33	57	33	45	0	20	0	0
6	74	11	50	33	60	34	47	0	18	0	0
7	78	7	50	32	56	43	49.5	0	15.5	0.96	0
8	72	6	49	32	43	29	36	0	29	0	0
9	76	8	49	32	44	29	36.5	0	28.5	0.45	0
10	74	13	48	31	36	33	34.5	0	30.5	0.57	0
11	74	8	47	31	40	26	33	0	32	0	0
12	72	11	47	30	43	26	34.5	0	30.5	0.01	0
13	69	3	47	30	45	32	38.5	0	26.5	0.07	0
14	73	2	47	30	32	26	29	0	36	T	T
15	70	2	48	30	32	20	26	0	39	0	0
16	73	-2	48	31	39	20	29.5	0	35.5	0.01	0
17	72	-2	48	31	38	24	31	0	34	0.02	0.5
18	71	5	48	31	30	17	23.5	0	41.5	T	T
19	73	6	46	29	29	19	24	0	41	T	0
20	67	3	45	29	39	20	29.5	0	35.5	0.03	0.6
21	72	2	44	27	25	10	17.5	0	47.5	T	0.5
22	68	0	43	27	24	9	16.5	0	48.5	0	T
23	66	-2	42	26	28	13	20.5	0	44.5	0	T
24	64	-5	42	27	37	21	29	0	36	0	0
25	64	-6	42	27	45	21	33	0	32	0	0
26	65	-4	41	26	43	33	38	0	27	0.32	0
27	65	-2	40	25	37	30	33.5	0	31.5	0.01	0
28	66	-6	39	25	35	27	31	0	34	0	0
29	64	-3	38	24	39	29	34	0	31	0.23	T
30	65	-9	37	23	35	33	34	0	31	T	0

**Temperature**  
 1895-1995 AVG. HI: 46.7(F)  
 1896-1995 AVG. LOW: 30.2(F)  
 1896-1995 AVG. TEMP: 38.7(F)  
 NOVEMBER 2000 AVG. HI: 42.6(F)  
 NOVEMBER 2000 AVG. LO: 27.8(F)  
 NOVEMBER 2000 AVG. TEMP: 35.2(F)

**Precipitation**  
 NOVEMBER AVG: 2.95in.  
 NOVEMBER TOTAL: 2.74in.  
 SNOW: 1.1in.  
 YEAR TO DATE: 35.31in.  
 YEAR TO DATE AVG: 34.52in.

**Degree Days**  
 COOLING: 11/00: 0.5  
 1/00-Now: 652.5  
 HEATING: 11/00: 894  
 7/00-Now: 1378.5

**DISCUSSION**

November is the month of the year in which the greatest average temperature fall is experienced (15 degree drop from 45 degrees on the 1<sup>st</sup> to 30 degrees on the 30<sup>th</sup>) from beginning to end. This is because shorter days and a lower sun angle here result in a solar radiation deficit. The sun is not strong enough this time of year to replenish the warmth lost during the long nights. It's no wonder then that the temperature graph for November displays such a downward trend. November 2000 is no different. The sun has completely set on the northern latitudes allowing cold air to build and spread. The polar jet stream for most of the month had its orientation in a northwest/southeast direction, allowing this cold air to plunge into the Midwest. The November 2000 average temperature of 35.2 degrees is almost a full 8 degrees below the average observed for November 1999, when a zonal (west to east) jet stream flow brought in air from the Pacific region rather than the Arctic region. It is 3.5 degrees below the normal November average temperature. In fact, ten straight days were observed with temperatures below 40 degrees (14<sup>th</sup> - 24<sup>th</sup>). The extent of the overall below average temperature for the month is remarkable considering that the first 7 days of the month were observed to be above average. Amazingly, the high temperature on the 2<sup>nd</sup> was within one degree of tying a record high. A bulk of the month's precipitation fell during the transition from above average temperatures to below average temperatures from the 7<sup>th</sup> to the 10<sup>th</sup>. Precipitation for November 2000 (2.74in.) totaled just under the November average (2.95in.). A series of fast moving low pressure systems known as Alberta Clippers (low pressure centers that form in Alberta, Canada and "clip" the region with light precipitation) produced the season's first measurable snowfall events, totaling 1.1 in. for the month. This is below the November average of 1.9 in. of snow. It is hard to say what an anomalously dry and cold November will lead to for the upcoming months, but rest assure that snow is a more distinct possibility as December averages 7 to 9 inches for the month, and temperatures will remain on the decrease.

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