

## **MONTHLY CLIMATE SUMMARY, DECEMBER, 2007**

### **NIU WEATHER SERVICE, DEKALB, IL**

Day	Record HI	Record LO	Average HI	Average LO	Obs. HI	Obs. LO	Obs. Avg.	CDD	HDD	GDD	Precip. (in)	Snowfall (in)
1	63	4	37	25	26	17	21.5	0	43.5	0	0	0
2	64	-5	38	23	36	21	28.5	0	36.5	0	0.62	0.7
3	66	-14	38	23	39	15	27	0	38	0	0	0
4	60	-4	37	22	27	16	21.5	0	43.5	0	0.00	0
5	64	-4	38	24	31	21	26	0	39	0	0.42	6
6	65	-7	37	22	22	1	11.5	0	53.5	0	T	T
7	66	-9	35	21	26	2	14	0	51	0	0.11	1.5
8	63	-8	34	22	29	9	19	0	46	0	T	T
9	59	-18	34	19	19	9	14	0	51	0	0.02	0.1
10	56	-18	33	18	24	18	21	0	44	0	0.01	T
11	60	-15	32	17	31	20	25.5	0	39.5	0	0.31	0.1
12	55	-10	34	18	32	20	26	0	39	0	0.55	0
13	60	-19	33	19	30	20	25	0	40	0	0.01	0.1
14	58	-12	35	21	29	12	20.5	0	44.5	0	0.00	0
15	59	-14	37	22	23	12	17.5	0	47.5	0	0.09	1.8
16	58	-17	35	20	28	14	21	0	44	0	0.30	4.8
17	57	-13	31	17	18	13	15.5	0	49.5	0	T	T
18	56	-12	30	15	22	14	18	0	47	0	T	T
19	55	-17	30	18	33	16	24.5	0	40.5	0	0.00	0
20	57	-19	32	16	25	16	20.5	0	44.5	0	0.00	0
21	57	-18	31	16	37	24	30.5	0	34.5	0	0.05	0
22	55	-12	31	15	38	32	35	0	30	0	0.02	0
23	58	-17	32	18	47	11	29	0	36	0	0.56	0.5
24	55	-22	32	17	21	9	15	0	50	0	0.01	0.3
25	60	-13	28	13	25	20	22.5	0	42.5	0	0.00	0
26	56	-22	27	13	39	20	29.5	0	35.5	0	0.00	0
27	55	-20	30	15	42	28	35	0	30	0	0.05	T
28	64	-24	32	16	31	27	29	0	36	0	T	T
29	63	-12	32	16	32	19	25.5	0	39.5	0	0.29	3.8
30	59	-13	30	14	25	17	21	0	44	0	0.00	0
31	57	-14	30	16	30	18	24	0	41	0	0.01	0.4

#### Temperature

1971-2000 AVG. HI: 33.0°F  
 1971-2000 AVG. LOW: 18.3°F  
 1971-2000 AVG. TEMP: 25.9°F  
 December 2007 AVG. HI: 29.6°F  
 December 2007 AVG. LO: 16.4°F  
 December 2007 AVG. TEMP: 23.0°F

#### Precipitation

December liquid equivalent TOTAL: 3.43 in  
 December liquid equivalent AVG: 2.18 in.  
 December SNOW: 20.1 in.  
 December SNOW AVG: 9.5 in.  
 2007 TOTAL SNOW: 44.18 in.  
 AVG ANNUAL SNOW: 37.40 in.  
 2007-08 SEASONAL SNOW TOTAL: 20.5 in.

#### Degree Days

COOLING: 12/07: 0  
 1/07-Now: 934.5  
 HEATING: 12/07: 1301.5  
 7/07-Now: 2379.5  
 GROWING: 12/07: 0  
 1/07-Now: 3100

#### Discussion

December 2007 was a very cold month; the December average lows, highs, and average all ranked within the top 10 coldest on record for a December. The December 2007 average high was 3.4°F colder than the 1971-2000 average and ranked as the 7<sup>th</sup> coldest on record. The December 2007 average low, which was 1.9°F colder than the 1971-2000 average, ranked as the 10<sup>th</sup> coldest on record. The average temperature for December 2007 tied with 1995 as the 8<sup>th</sup> coldest on record, with the average being 2.9°F colder than the 1971-2000 average.

December 2007 was also very wet, with 1.25" more liquid equivalent precipitation and twice as much snow than an average December. This is the 6<sup>th</sup> most liquid equivalent precipitation for a December on record and the 5<sup>th</sup> most snowfall on record. Only nine days in December had no precipitation, with the rest of the days in the month at least having a trace of precipitation occurring. Pure liquid precipitation only occurred on 3 of the 22 days that had precipitation. Snow was also on the ground for most of the month, except for on Dec 1<sup>st</sup>, 3<sup>rd</sup>, and 4<sup>th</sup>. The year ended with a total of 44.18" of precipitation, 6.78" more than the average. 2007 is ranked as the 5<sup>th</sup> wettest year on record, only slightly behind 4<sup>th</sup> place 1993 with its 44.64" of precipitation.

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December 2007 Daily Highs and Lows with 1971-2000 Average Highs and Lows

