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## Indiana State Climate Office

### Monthly Weather Report

Sep 8, 2005



<http://iclimate.org>

## August 2005 Climate Summary

### August 1-3

Warmer temperatures started to enter the state as high pressure shifted to the east and allowed for light winds out of the south. The 1<sup>st</sup> and 2<sup>nd</sup> of the month saw temperatures up into the upper 80s across the northern part of the state with 90s spanning the rest of Indiana. By August 3<sup>rd</sup> the entire state was under the influence of muggy 90-degree temperatures.

### August 4-8

A few severe storms began to fire in Indiana on the 4<sup>th</sup> in advance of the next cold frontal system and the severe weather continued on into the 5<sup>th</sup>. This severe weather caused a few trees to fall down in Huntington County. On the 5<sup>th</sup>, as the cold front moved south, so did the bulk of the storms. West Fork in Crawford County reported several trees down with this system. Cooler weather started to filter in by the 6<sup>th</sup>, with upper 70s and low 80s across the central and northern part of the state, and 90s across the extreme southern portions of the state near the front. This came as relief from the previous days' 90 plus degree temperatures across the state. Temperatures were above average overall with rainfall still below normal. Rainfall amounts varied from a little over a tenth of an inch of rain in the northeast corner of the state to over 0.66 inches in the southeast. Locally higher amounts were scattered at various locations.

### August 9-16

The 9<sup>th</sup> marked the quiet before the storm as severe weather pelted Indiana on the 10<sup>th</sup>, 11<sup>th</sup>, 13<sup>th</sup>, and 14<sup>th</sup>. A cold frontal system moved southward, stalled, and then set up a stationary front across of the state. In addition to the numerous severe weather events across Indiana, copious amounts of rainfall also fell during this period. Temperatures remained relatively warm and in the 90s until cooler temperatures in the 70s finally began to encompass the state, except for the extreme southern portions, on the 15<sup>th</sup>. On the 10<sup>th</sup>, Tippecanoe County received 1.25 inch hail at 4 N West Lafayette and 0.75 inch hail at 1 W Battleground. A barn roof was damaged by wind in Henry County. Hendricks and Tippecanoe Counties both saw downed trees. The central part of the state was again battered by severe weather on the 11<sup>th</sup> with multiple hail and wind reports. By the 13<sup>th</sup> severe weather returned to Indiana, and this time it included the only tornado reported in the United States for the day. The F1 tornado reported in Fulton had a path length of  $\frac{3}{4}$

of a mile and a width of 75 yards. Two hail reports were also recorded in Huntington and Wabash Counties. Multiple trees and power lines went down due to strong winds associated with storms in southern and northern parts of the state. By the 14<sup>th</sup> the storm system and severe weather had moved further south, and only Mount Vernon in the state's southwest corner made a severe wind report.

### **August 17-20**

Severe weather clashed around the state again during this time frame in addition to temperatures that rose by a few degrees into the upper 80s and mid 90s by the 20<sup>th</sup>. Little rainfall occurred across the state except for in the southwest corner of the state on the 17<sup>th</sup>. Storms started to initiate to the east of a cold front on the 18<sup>th</sup> causing wind damage in Vermillion, Parke, and Vigo Counties. Between the evening of the 18<sup>th</sup> and morning of the 19<sup>th</sup>, 1 to 5 inches of rain covered a 10 to 20 mile wide area from Clinton to Madison. No severe reports on the 19<sup>th</sup>, however rainfall was spread across the state. On the 20<sup>th</sup> the cold front was draped across the eastern and southern regions. Also located in these areas were multiple wind reports. Precipitation amounts were above normal for this period; the state averaged 0.75 inches, instead of the normal 0.39 inches. The highest amounts of precipitation fell over the southern portions of the state. By August 20<sup>th</sup>, the Palmer Drought Severity Index reported moderate drought in north central Indiana only.

### **August 21-24**

The state began to dry out by the 21<sup>st</sup> and high pressure dominated it by the 22<sup>nd</sup>. With winds out of the north and east and clear skies overnight, most areas saw temperatures drop down into the 50s. During the day temperatures varied from 90 degrees on the 21<sup>st</sup> to the 70s and low 80s by the 24<sup>th</sup>.

### **August 25-26**

A return of wet weather, warmer temperatures, humidity, and severe weather occurred on the 25<sup>th</sup> and 26<sup>th</sup>. 0.75-inch hail fell in Evansville on the 25<sup>th</sup> due to disturbances that were present near the Ohio River. This system stayed in place through the 26<sup>th</sup> with severe wind reported in Posey, Warrick, and Spencer Counties in southwest Indiana. High temperatures were generally in the 80s with low temperatures in the 60s and 70s. A few low temperatures were reported down into the 50s on the morning of the 25<sup>th</sup>. The state's average precipitation was above normal by 0.07 inches, however in the southwest portions of the state an average of 1.20 inches fell. This value is 0.95 inches above normal. Some locations received even higher amounts.

### **August 27-29**

A thin line of storms moved through the state from west to east during the early afternoon on the 27<sup>th</sup> in advance of the first of two frontal systems. Rainfall continued into the 28<sup>th</sup> and 29<sup>th</sup> with averaged values ranging from 0.05 inches in northwest Indiana to 0.89

inches in southwest Indiana. Averaged out over the whole state, rainfall amounts were slightly below normal, with just above normal conditions in the areas of heavier rainfall. Averaged high and low temperatures were normal for this time of year. With this system, only one county received severe weather in Indiana on the 28<sup>th</sup>. Clark County received 0.75 inch hail, saw several downed trees, and received 1.75 inches of rain in about 30 minutes.

### August 30-31

The effects of Katrina were felt in the form of flooding rains and high gas prices. Katrina's center of circulation tracked up along the Ohio River and then into Ohio. Especially hard hit by the rain was the southern portion of the state. Rainfall amounts decreased to the north and west with northwest Indiana hardly feeling the effects of Katrina. While the state's averaged precipitation was about an inch-and-a-half, still slightly above normal, averaged precipitation along the Ohio River to central Indiana averaged above two-and-a-half inches in most regions. 3 to 5 inches of rain fell in a band from Vincennes to Winchester. Since most of the area was relatively dry prior to the event, only localized flooding occurred.

### Temperature

Region	Average	Normal	Deviation
Northwest	73.5	71.6	1.9
North central	73.1	71.0	2.1
Northeast	73.1	70.6	2.4
West central	75.1	72.8	2.3
Central	75.0	72.2	2.8
East central	74.2	71.4	2.9
Southwest	78.4	75.2	3.1
South central	77.5	74.5	3.0
Southeast	76.5	73.8	2.7
State	75.2	72.7	2.6

### Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	3.27	3.81	-0.54	86
North central	3.16	3.83	-0.67	83
Northeast	2.54	3.68	-1.14	69
West central	4.20	3.96	0.24	106
Central	5.13	3.75	1.38	137
East central	5.31	3.55	1.76	150
Southwest	6.87	3.67	3.20	187
South central	6.86	3.91	2.95	175
Southeast	6.27	3.90	2.37	161

State	4.87	3.79	1.09	129
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**Local extremes with over 50% of the data available**

	Site	Ob	Dev	% Available Data
Low Precipitation	Decatur_1_N	0.90	-2.74	71
High Precipitation	Vincennes	11.15	7.39	100

**Summer Season-to-date  
June - August 2005**

**Temperature**

Region	Average	Normal	Deviation
Northwest	73.9	71.8	2.2
North central	73.6	71.2	2.4
Northeast	73.7	70.9	2.8
West central	74.7	73.0	1.7
Central	74.5	72.4	2.1
East central	74.0	71.6	2.4
Southwest	77.0	75.2	1.8
South central	76.2	74.4	1.7
Southeast	75.4	73.6	1.8
State	74.8	72.8	2.1

**Precipitation**

Region	Total	Normal	Deviation	Percent of Normal
Northwest	11.07	12.01	-0.94	92
North central	11.15	11.93	-0.78	93
Northeast	10.37	11.42	-1.06	91
West central	12.89	12.68	0.21	102
Central	14.09	12.11	1.98	116
East central	13.21	11.88	1.33	111
Southwest	14.70	12.04	2.66	122
South central	14.70	12.32	2.38	119
Southeast	13.20	12.23	0.97	108
State	12.94	12.08	0.86	107

**Annual-to-date  
January-August 2005**

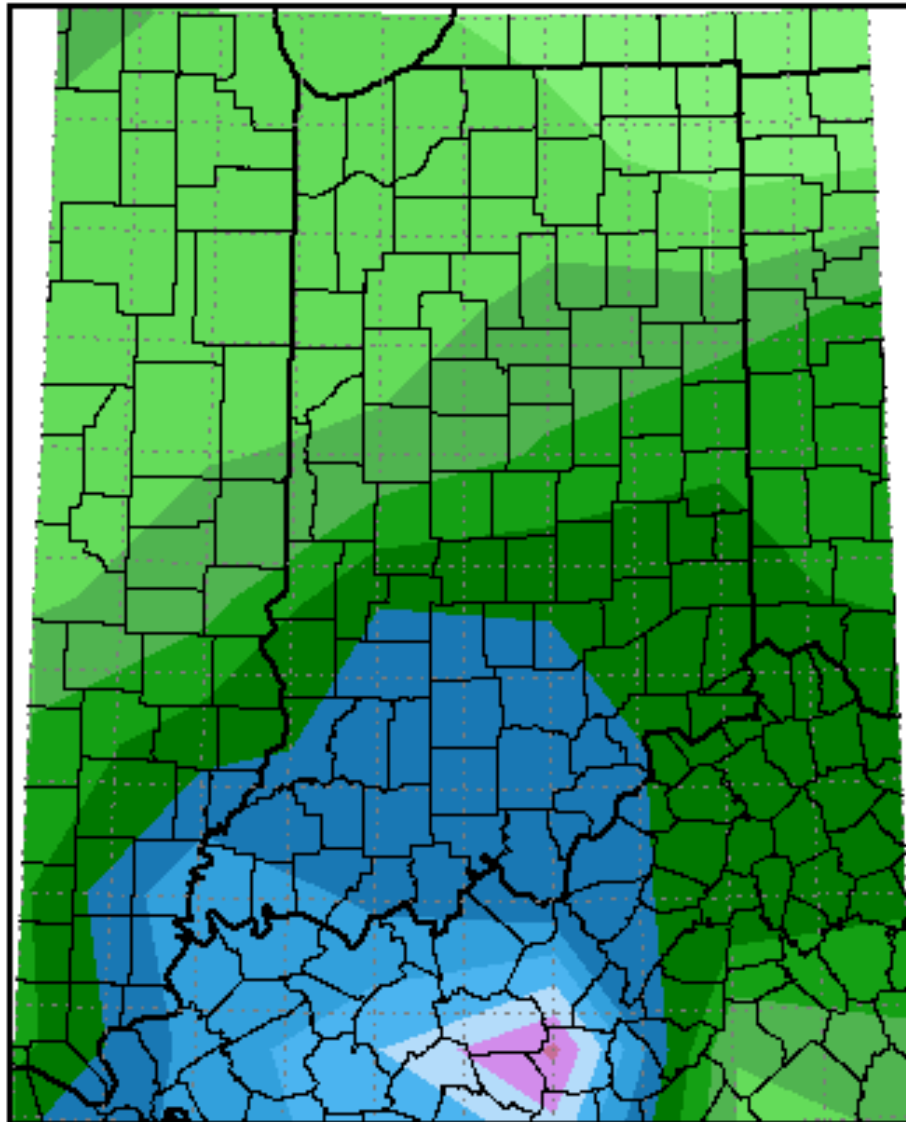
## Temperature

Region	Average	Normal	Deviation
Northwest	53.4	52.1	1.3
North central	52.8	51.6	1.2
Northeast	52.4	51.2	1.1
West Central	55.1	53.8	1.3
Central	54.7	53.3	1.4
East central	53.8	52.5	1.3
Southwest	58.8	57.0	1.7
South central	57.8	56.4	1.4
Southeast	56.6	55.6	1.1
State	55.1	53.8	1.3

## Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	23.97	26.06	-2.10	92
North central	25.15	26.00	-0.85	97
Northeast	24.18	25.15	-0.96	96
West central	31.00	28.74	2.26	108
Central	34.59	28.31	6.28	122
East central	32.21	27.48	4.73	117
Southwest	33.44	31.58	1.86	106
South central	34.75	31.98	2.82	109
Southeast	32.40	31.05	1.35	104
State	30.44	28.54	1.90	107

**Total Precipitation in Inches  
August 1, 2005 to August 31, 2005**

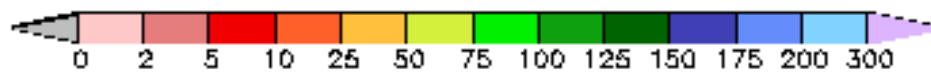
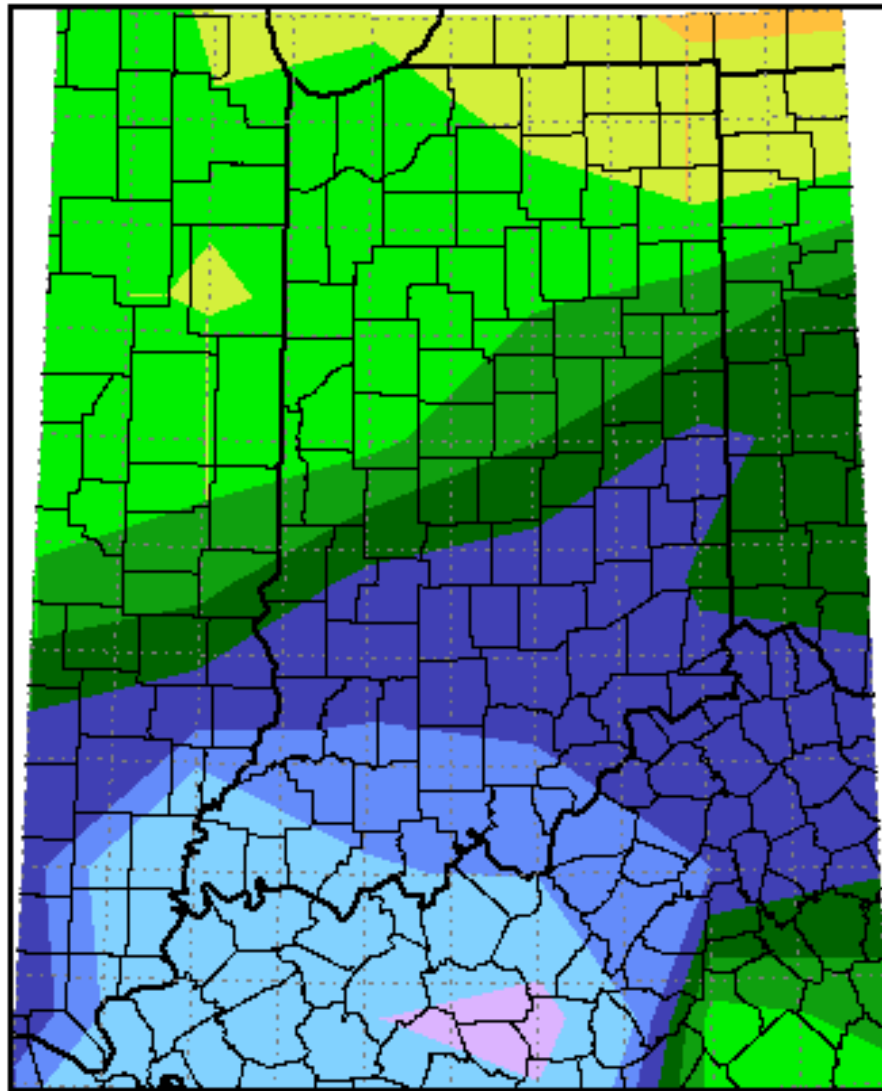


**Midwestern Regional Climate Center**

**Illinois State Water Survey**

**Champaign, Illinois**

**Total Precipitation Percent of Mean  
August 1, 2005 to August 31, 2005**

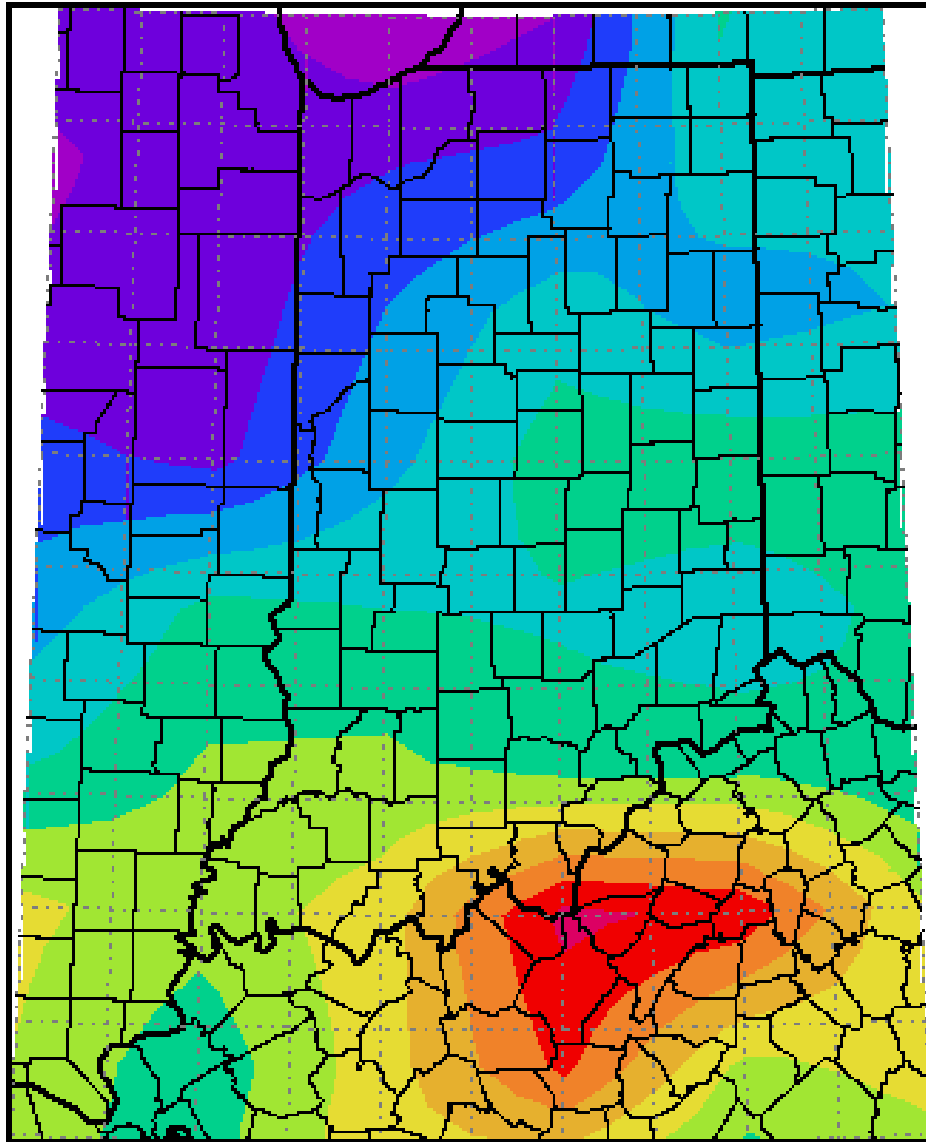


**Midwestern Regional Climate Center**

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**Champaign, Illinois**

**Average Temperature Departure from Mean in Degrees F  
August 1, 2005 to August 31, 2005**



**Midwestern Regional Climate Center**

**Illinois State Water Survey**

**Champaign, Illinois**

*Contributions by Al Shipe NWS Indianapolis*