

**Ashley Brooks**  
(765) 494-6574

## Indiana State Climate Office

### Monthly Weather Report

Oct 11, 2006



## September 2006 Climate Summary

### September 1-7

Temperatures and rainfall were both below normal values for the week. Residual moisture, left over from a previous system, brought light rain across a large portion of the state on the 1<sup>st</sup>. The system continued to pull out early in the day on the 2<sup>nd</sup> leaving only north central, northeast, and east central locations with spotty precipitation. A cold front began knocking on Indiana's door on the evening of the 3<sup>rd</sup>. Associated with this front 0.02 inches fell in the northwest corner of the state. Transitioning into the next day the rain began falling across a larger portion of the state, and with the exception of the northwest corner of the state where the average was 0.13 inches of rainfall, amounts were generally less than a tenth of an inch. Spotty showers and thunderstorms occurred on the 5<sup>th</sup> with mainly marginally severe hail as the greatest threat. One storm did produce one inch hail two miles south of Warsaw in Kosciusko County. A cold front sagged south on the 6<sup>th</sup> sparking more storms and another severe storm of one inch hail in Veedersburg, IN before moving out of the state late in the evening. This left the 7<sup>th</sup> dry. Due to the relatively light nature of the rainfall, values ended up being 0.47 inches below the normal of 0.63 inches of rainfall for the state. High temperatures reached mainly only into the 70s until the 7<sup>th</sup> when 80s were achieved across much of the state. Low temperatures on the other hand started out in the 60s and then dropped to the 50s by the 2<sup>nd</sup> and continued through the 7<sup>th</sup>.

### September 8-14

The second week of September, unlike the first week, encountered high above normal precipitation totals. Everyday during this period there was rain falling across some portion of the state. First a cold front positioned itself to the northwest of the state on the 8<sup>th</sup> and then moved through on the 9<sup>th</sup>. The front then stalled out as a stationary front on the 10<sup>th</sup> before lifting across the state as a warm front on the 11<sup>th</sup>. This brought the heaviest rain on the 11<sup>th</sup> and continued into the 12<sup>th</sup> and morning of the 13<sup>th</sup> as the front lingered across the region. Although 0.75 inch hail was reported in Gibson County on the 10<sup>th</sup>, the biggest problem became the flooding that occurred with the heavy rains. Rainfall amounts were greater than eight inches in portions of northwestern Indiana and southern Indiana. Central Indiana also experienced a large quantity of rain with one half to five inches from the 11<sup>th</sup> until the 13<sup>th</sup>. Flooding problems occurred across the state with again the most significant local problems in southwest and northwest Indiana. Lake

County declared a disaster emergency. The Highland and Griffith areas were especially hard hit. According to the Northwest Indiana Times, structural damage occurred to at least 16 structures or homes. Upwards of millions of dollars in damage occurred with some streets becoming impassible. Later in the day on the 13<sup>th</sup> the rain began to dissipate and only portions of eastern Indiana received light rainfall on the 14<sup>th</sup> before high pressure settled over the state to try to help dry things out. As a state, rainfall totals were 1.06 inches above the 0.83 inch normal and temperatures were a degree below the normal of the averaged 67.9°F. High temperatures dropped down from the 80s to 60s across the north on the 10<sup>th</sup> and then recovered across the north and the state to the 70s on the 11<sup>th</sup> with the warm front. The 70s further dropped to the 60s on the 13<sup>th</sup> with the passage of the cold front. Again temperatures warmed to the 70s on the 14<sup>th</sup> after a majority of the rain had passed. Low temperatures only fluctuated between the 50s and 60s.

### **September 15-21**

Above normal rainfall values and below normal temperatures continued into the 3<sup>rd</sup> week of September. The 15<sup>th</sup> remained dry as high pressure still gripped the state and the 16<sup>th</sup> only experienced very light precipitation of less than 0.05 inches due to a weak disturbance. A line of storms brought heavier amounts of around a half inch or more to the locations where the storms were located. Then an area of more stratiform precipitation spread across the state to the west of the cold front on the 18<sup>th</sup>. Another disturbance on the 19<sup>th</sup> and early on the 20<sup>th</sup> brought light showers to the state. High pressure attempted to build later in the day on the 20<sup>th</sup>, however by the evening of the 21<sup>st</sup> more showers began moving into the area associated with a large circulation across the mid-section of the country. Wild swings in temperature occurred during this period as fronts and disturbances traveled across the state. Highs in the 70s and 80s dropped off into the 50s and 60s by the 19<sup>th</sup>. The 60s then stuck around for the remainder of the time frame. Low temperatures also had large variations from the 30s to the 60s. The morning of the 21<sup>st</sup> was one of the coolest mornings of the month with lows in the 30s and 40s across the state. The 17<sup>th</sup>, although breezy, was one of the warmest days of the month across most of the state with temperatures in the middle 80s.

### **September 22-25**

Above normal rainfall continued once again with temperatures also slightly above normal. State averaged rainfall totals were 0.94 inches or 0.44 inches above normal. Temperatures were 1.1 degrees above the normal of 59.9°F. Severe weather also returned to southern portions of the state in addition to the heavy rainfall across a large portion of the region on the 22<sup>nd</sup>. Severe reports included 1.25 inch hail three miles north of Evansville with flash flooding at Korsle Road and highway 66. One inch hail fell in Grandview Indiana in addition to wind reports and damage from Perry, Posey, and Spencer Counties. Rain and severe weather continued on into the 23<sup>rd</sup> as a cold front swept across the state. Corydon in Harrison County had wind damage in addition to some county roads under water. There was 4 feet of water over a bridge and county road in northeastern portions of the county. Locations across southern portions of the state received the heaviest rainfall totals. Eight inches or more of rain fell in some southern

locations. A secondary cold front brought lighter rainfall on the 24<sup>th</sup> before drying out on the 25<sup>th</sup>.

### September 26-30

To finish off the month, rainfall totals finally came in below normal for the final days. The state averaged precipitation was 0.41, 0.05 inches below normal. Temperatures were also below normal, 4.3°F below 61.5°F. Although rainfall totals were below normal, this did not cut down on the severe weather with the state receiving severe weather on the 27<sup>th</sup> and 30<sup>th</sup>. A weak cold front on the 26<sup>th</sup> gave way to a more powerful cold front on the 27<sup>th</sup>. A line of storms dropped hail from the northeastern corner of the state to the southwestern corner of the state. All of the hail reports were an inch or less in diameter. Residual moisture on the 28<sup>th</sup> and 29<sup>th</sup> brought light rain, but no severe weather, to much of the region. To finish off the month a warm front, followed by a cold front, brought contrasting air masses and a return to severe weather across east central Indiana. This included a report of 0.75 inch hail in Richmond. High temperatures dropped from the 70s to the 60s during this time frame and low temperatures hovered in the 40s and 50s. The morning of the 29<sup>th</sup> saw slightly cooler temperatures that dropped into the upper 30s in some portions of central and northern Indiana.

### Temperature

Region	Average	Normal	Deviation
Northwest	61.8	64.2	-2.4
North central	61.2	63.6	-2.3
Northeast	60.9	63.2	-2.3
West central	63.0	65.5	-2.6
Central	62.3	64.9	-2.6
East central	61.7	64.1	-2.4
Southwest	64.6	67.9	-3.2
South central	63.7	67.2	-3.4
Southeast	63.3	66.5	-3.2
State	62.6	65.3	-2.7

### Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	3.56	3.20	0.36	111
North central	2.97	3.28	-0.31	91

Northeast	2.93	3.19	-0.26	92
West central	3.64	3.07	0.58	119
Central	3.98	3.05	0.92	130
East central	3.28	2.89	0.39	113
Southwest	6.52	3.10	3.42	210
South central	6.63	3.11	3.52	213
Southeast	5.51	3.03	2.48	182
State	4.39	3.11	1.28	141

**Local extremes with over 50% of the data available**

	Site	Ob	Dev	% Available Data
Low Precipitation	2 miles SSE of Winamac	0.97	-2.26	93
High Precipitation	Grandview	13.93	10.57	100

**Fall Season-to-date  
(Same as month-to-date)**

**Temperature**

Region	Average	Normal	Deviation
Northwest	61.8	64.2	-2.4
North central	61.2	63.6	-2.3
Northeast	60.9	63.2	-2.3
West central	63.0	65.5	-2.6
Central	62.3	64.9	-2.6
East central	61.7	64.1	-2.4
Southwest	64.6	67.9	-3.2
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## Annual-to-Date

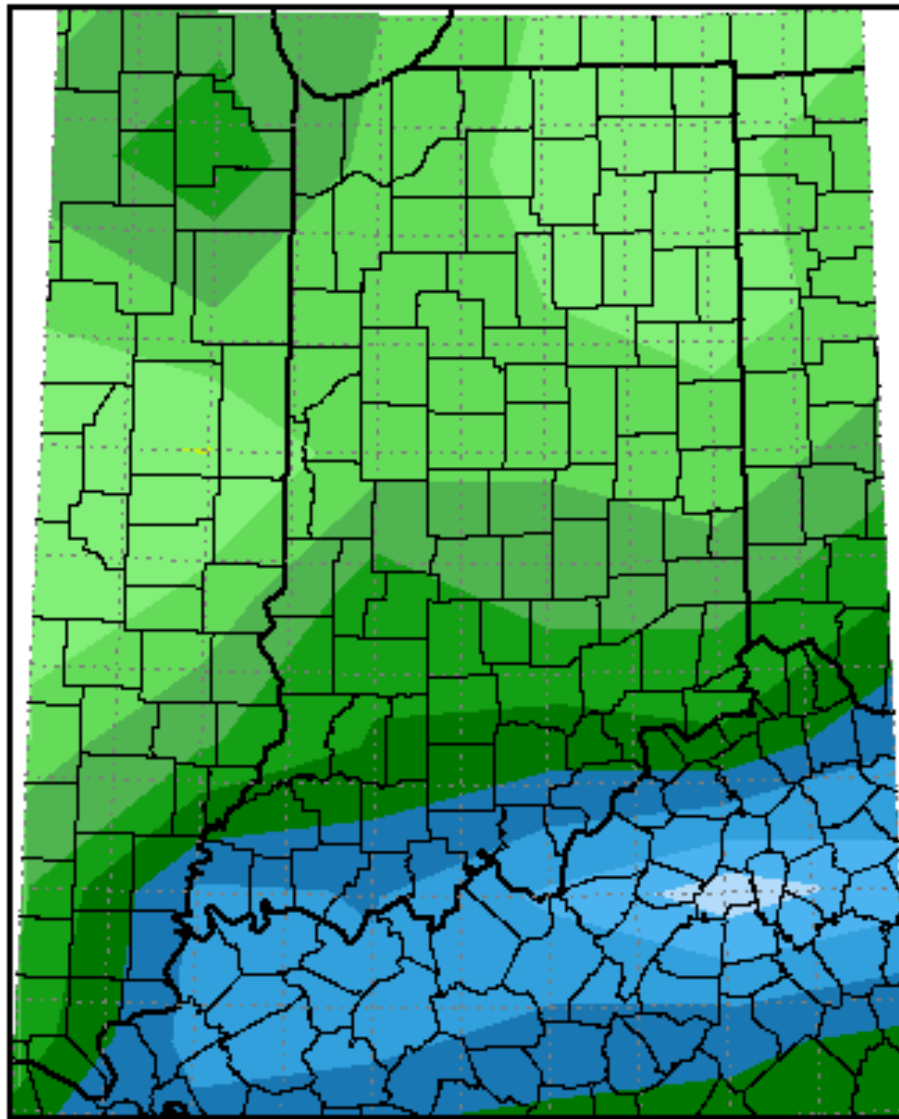
### Temperature

Region	Average	Normal	Deviation
Northwest	55.4	53.6	1.8
North central	54.8	53.1	1.7
Northeast	54.8	52.7	2.1
West central	56.8	55.2	1.6
Central	56.4	54.8	1.7
East central	55.8	53.9	1.9
Southwest	60.0	58.4	1.6
South central	58.9	57.8	1.1
Southeast	58.0	56.9	1.1
State	56.9	55.2	1.6

### Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	33.68	29.30	4.37	115
North central	32.87	29.31	3.55	112
Northeast	31.29	28.34	2.95	110
West central	35.85	31.83	4.01	113
Central	39.65	31.37	8.27	126
East central	35.78	30.37	5.41	118
Southwest	43.94	34.72	9.22	127
South central	45.13	35.04	10.08	129
Southeast	40.65	34.06	6.59	119
State	37.97	31.67	6.30	120

**Total Precipitation in Inches  
September 1, 2006 to September 30, 2006**



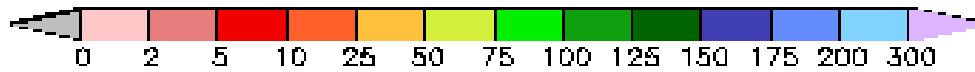
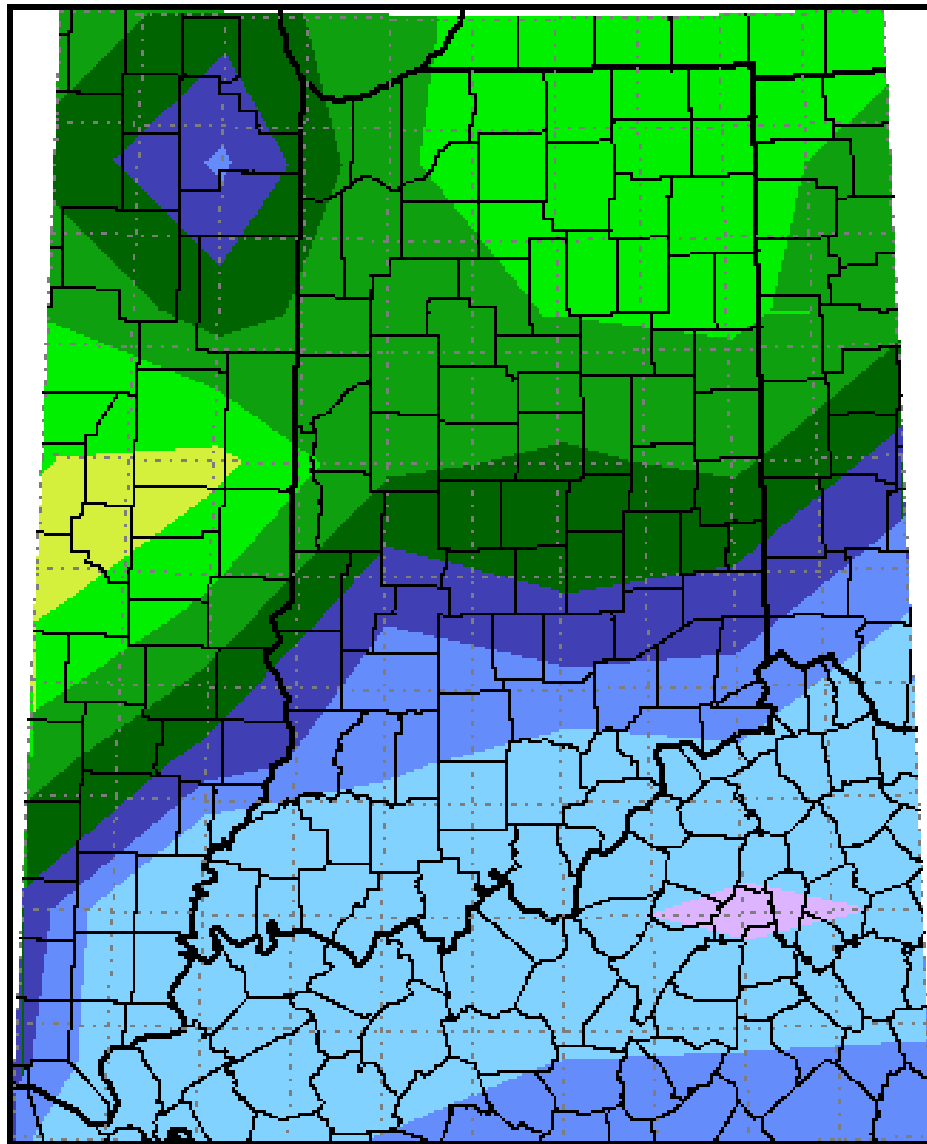
0.01 0.2 1 2 3 4 5 6 7 8 9 10

**Midwestern Regional Climate Center**

**Illinois State Water Survey**

**Champaign, Illinois**

**Total Precipitation Percent of Mean  
September 1, 2006 to September 30, 2006**

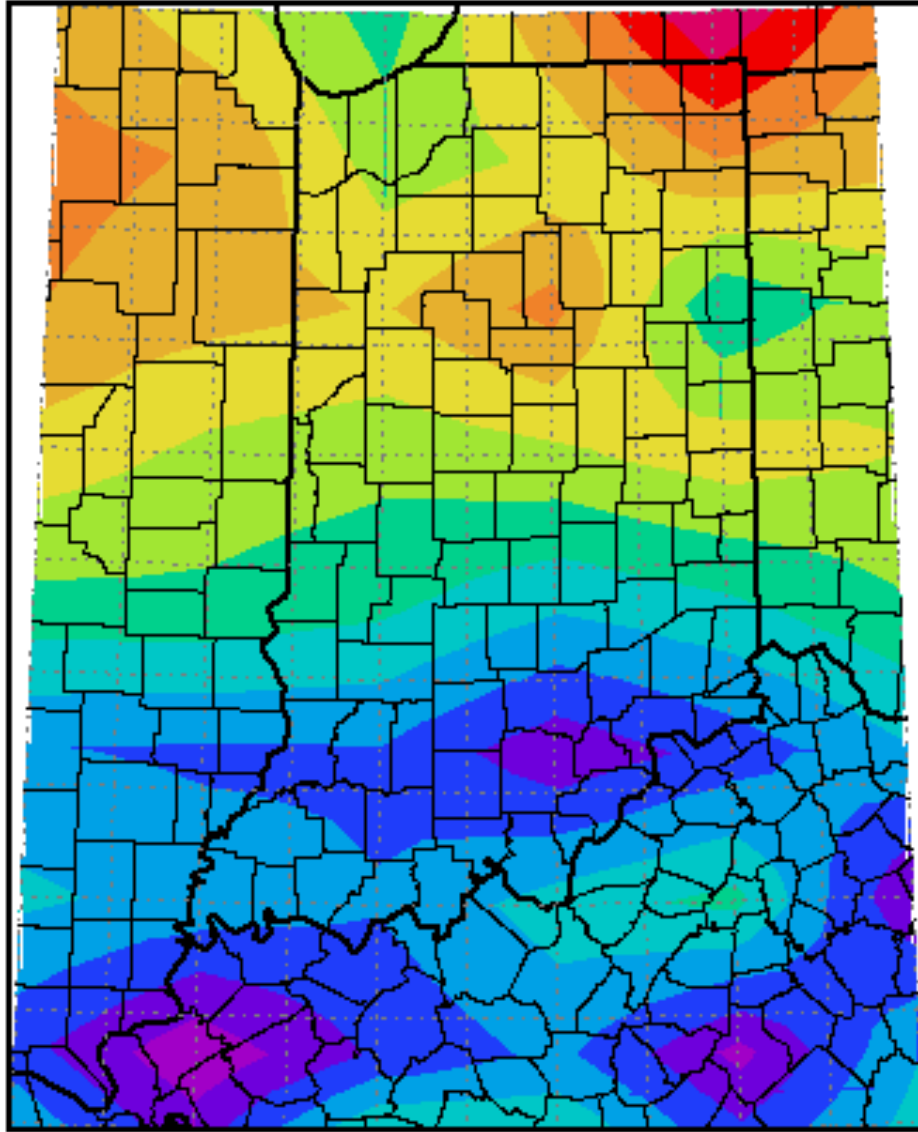


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**Champaign, Illinois**

**Average Temperature Departure from Mean in Degrees F  
September 1, 2006 to September 30, 2006**



-3.8 -3.6 -3.4 -3.2 -3 -2.8 -2.6 -2.4 -2.2 -2 -1.8

**Midwestern Regional Climate Center**

**Illinois State Water Survey**

**Champaign, Illinois**

*Contributions made by Al Shipe NWS Indianapolis*