

Ashley Brooks
(765) 494-6574

Indiana State Climate Office

Monthly Weather Report

Sep 1, 2006



<http://www.iclimat.org>

July 2006 Climate Summary

July 1-7

Temperatures and precipitation were slightly below normal during the first week of July. Average rainfall measured 0.68 inches, 0.16 inches below normal and the average temperature was 1.8°F below the normal 74.2°F. Light rain began to move into the state on the 1st before storms moved in on the 2nd and 3rd associated with a stationary front. Severe weather occurred on the 2nd in the northeastern part of the state and on the 3rd in the northwestern part of the state. 0.88 inch hail fell in Miami County on the 2nd in addition to fast moving winds that caused a barn roof to blow off. Other counties that reported trees and power lines down included Huntington, Wabash, Allen, Kosciusko, and other locations in Miami County. Tippecanoe County was the only site where one inch hail fell in the state on the 3rd. Wind reports were more common with seven reports received. A cold front came through the state on the 4th and 5th. This brought showers and thunderstorms back to the state for the 4th of July and showers across southern Indiana for the 5th before high pressure built in for the 6th and 7th. Temperatures that began the month around 90 degrees for highs dropped to the low 80s across the northern sections of the state on the 3rd. After the cold front progressed through the state temperatures only made it into the mid 70s to low 80s for the 5th. By the end of the period temperatures only recovered into the low 80s. Low temperatures also dropped from the 60s and 70s before the frontal passage to the 50s after the front passed through the state.

July 8-15

Unlike the first week of July, the 2nd week was characterized by above normal precipitation, 1.04 inches above the normal of 1.05, and temperatures were 1.4 °F above normal. The next disturbance brought light showers across northern Indiana on the 8th, but failed to move much further until the 9th when rain drifted south into west central, southwestern, and south central portions of the state. A stationary front that was draped across the state on the 10th, lifted as a warm front on the 11th bringing heavy rains across portions of northern Indiana. Average amounts of over an inch of rain were reported with local totals over nine inches. Southern Indiana averaged less than an inch of rain. On the 12th and 13th, more rain fell across portions of the state as once again a stationary front was in place. Two to over five inches of rain fell in northern Clinton and southern Carroll Counties on the 12th causing localized flooding. Another disturbance helped to

kick off severe weather on the 14th across extreme southern portions of Indiana. This included nickel to quarter size hail in Clark County. Washington, Floyd, Ohio, and Switzerland Counties all reported trees down in the county. By the 15th, except for a few showers in east central Indiana, the showers and thunderstorms had exited the state. High temperatures were generally in the 80s to around 90 across the state except for the 11th when temperatures failed to make it out of the 70s and the 15th in which low 90s could be seen across the state. Low temperatures gradually increased from the 50s and 60s to mainly 70s.

July 16-23

This time frame experienced near normal temperatures and rainfall amounts. High pressure and dry weather on the 16th gave way to severe weather on the 17th and 18th with the approach of a frontal system. Although a majority of the severe weather was north of the state on the 17th, South Bend was pelted with one inch hail. In addition to the hail, portions of St. Joseph County received over two inches of rain. Trees were reported down in Kosciusko, Fulton, and Blackford Counties due to strong winds. The front began its push through the state on the 18th and settled across central portions of Indiana. 0.88 inch hail was then reported in Hancock, Marion, Morgan and Johnson Counties and 0.75 inch hail in Vermillion and Vigo Counties. Eight miles south of Indianapolis an aluminum awning was blown over and near Greencastle trees were down depicting the strength of the winds as the storms blew through. The other hardest hit area was in Martinsville in Morgan County where power lines were down. Another disturbance continued the rainfall across a large portion of the state on the 19th and 20th. On the 21st a stationary front parked over southern portions of the state allowed for more rainfall across the state in addition to severe weather in southern portions of the state closer to the front. Average rainfall values around southern portions of the state ranged from around a half inch to an inch while across the north less than 0.05 inches fell in most places. The main damages from the storms were trees and power lines down. Some residual moisture prompted some showers across portions of state on the 22nd and 23rd. Temperatures above 90 degrees were felt across the state from the 16th until the 20th until the front on the 21st brought temperatures down into mainly the 80s for the rest of the period. Lows only dropped down into the 60s and 70s until the 23rd when a majority of the state saw temperatures in the 50s.

July 24-31

The last week of the month experienced more heat and humidity making for dangerous heat indices. Precipitation was also above normal, 0.16 above the average of 0.95 inches. Temperatures started out in the low to middle 80s, however by the 29th highs had reached into the upper 80s. Temperatures around 90 occurred on the 30th and by the 31st low to middle 90s could be felt across Indiana. Lows were generally in the 60s on the 24th and 25th, but with the heat wave beginning to occur over the state, temperatures only made it down into the 70s from the 26th until the 31st. High pressure was short lived on the 24th as western and central parts of the state began to encounter precipitation from a system to

the west of the state on the 25th. The disturbances brought the last two severe weather days of the month on the 26th and 27th. The severe weather was very localized on the 26th as a storm crossed over into west central Indiana dropping 0.88 inch hail in Benton County near Boswell. 58 MPH winds were also reported with this storm. The severe events on the 27th were also localized, however these events were located in extreme northwestern locations in the state. Seven miles to the northeast of Valparaiso, a 30 foot tree was down on a road at the county line 2 miles west of Westville near Route 6. South Bend had a 12 inch diameter tree limb down in St. Joseph County. Showers and thunderstorms also occurred on the 28th to 31st across portions of the state; however none of the storms reached severe limits or were associated with a major frontal system.

Temperature

Region	Average	Normal	Deviation
Northwest	75.3	73.7	1.6
North central	74.6	73.2	1.5
Northeast	74.4	72.9	1.5
West central	76.1	74.8	1.3
Central	75.5	74.3	1.2
East central	75.1	73.5	1.6
Southwest	77.6	77.1	0.5
South central	76.8	76.3	0.6
Southeast	76.3	75.5	0.8
State	75.8	74.7	1.2

Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	6.33	3.80	2.53	167
North central	5.89	3.74	2.16	158
Northeast	5.68	3.55	2.13	160
West central	5.15	4.28	0.87	120
Central	4.81	4.09	0.72	118
East central	5.17	3.88	1.29	133
Southwest	4.48	4.15	0.33	108
South central	4.00	4.23	-0.24	94
Southeast	4.56	4.00	0.55	114
State	5.10	3.99	1.11	128

Local extremes with over 50% of the data available

	Site	Ob	Dev	% Available Data
Low Precipitation	2 miles ESE of Merom	1.05	-3.56	65
High Precipitation	2 miles NE of Alpine	9.29	5.15	97

Summer Season-to-date (June-July)

Temperature

Region	Average	Normal	Deviation
Northwest	72.2	71.9	0.3
North central	71.6	71.4	0.2
Northeast	71.5	71.1	0.4
West central	73.3	73.2	0.1
Central	72.4	72.6	-0.2
East central	72.0	71.8	0.2
Southwest	75.5	75.3	0.2
South central	74.3	74.5	-0.2
Southeast	73.3	73.6	-0.4
State	73.0	72.9	0.1

Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	9.21	8.07	1.13	114
North central	8.94	8.01	0.93	112
Northeast	8.68	7.66	1.02	113
West central	9.79	8.62	1.17	114
Central	10.57	8.27	2.30	128
East central	10.63	8.26	2.37	129
Southwest	8.66	8.29	0.37	104
South central	8.99	8.36	0.62	107
Southeast	9.58	8.27	1.31	116
State	9.45	8.21	1.24	115

Annual-to-Date

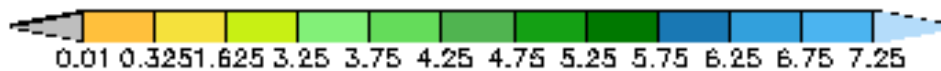
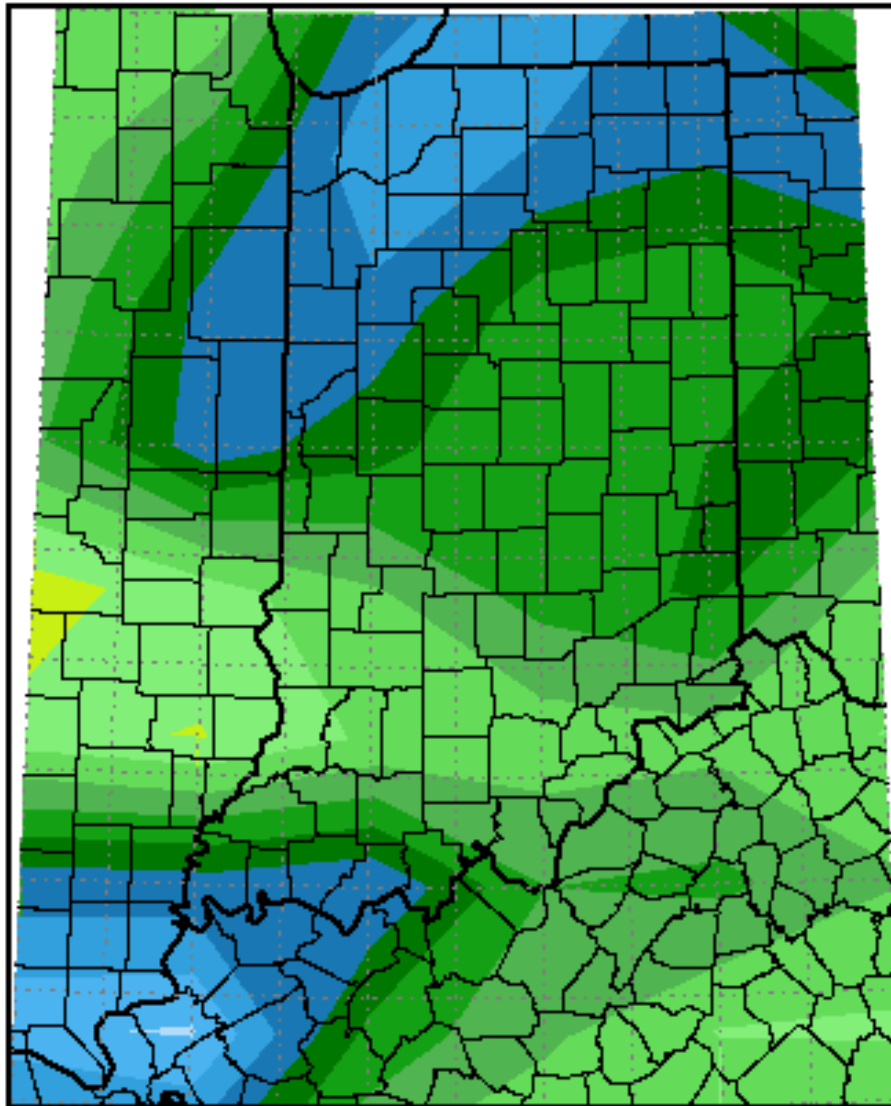
Temperature

Region	Average	Normal	Deviation
Northwest	52.0	49.4	2.5
North central	51.5	49.0	2.5
Northeast	51.4	48.6	2.7
West central	53.5	51.2	2.3
Central	53.1	50.8	2.3
East central	52.5	49.9	2.6
Southwest	56.7	54.6	2.2
South central	55.6	54.0	1.6
Southeast	54.6	53.1	1.5
State	53.5	51.3	2.3

Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	24.86	22.25	2.60	112
North central	24.96	22.18	2.79	113
Northeast	25.11	21.45	3.66	117
West central	28.38	24.75	3.63	115
Central	31.11	24.51	6.59	127
East central	28.14	23.89	4.25	118
Southwest	32.37	27.88	4.49	116
South central	33.17	28.00	5.18	118
Southeast	30.95	27.13	3.83	114
State	29.00	24.73	4.27	117

**Total Precipitation in Inches
July 1, 2006 to July 31, 2006**

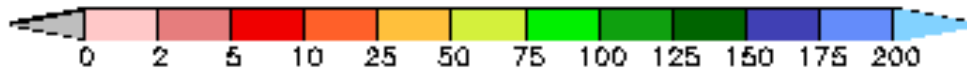
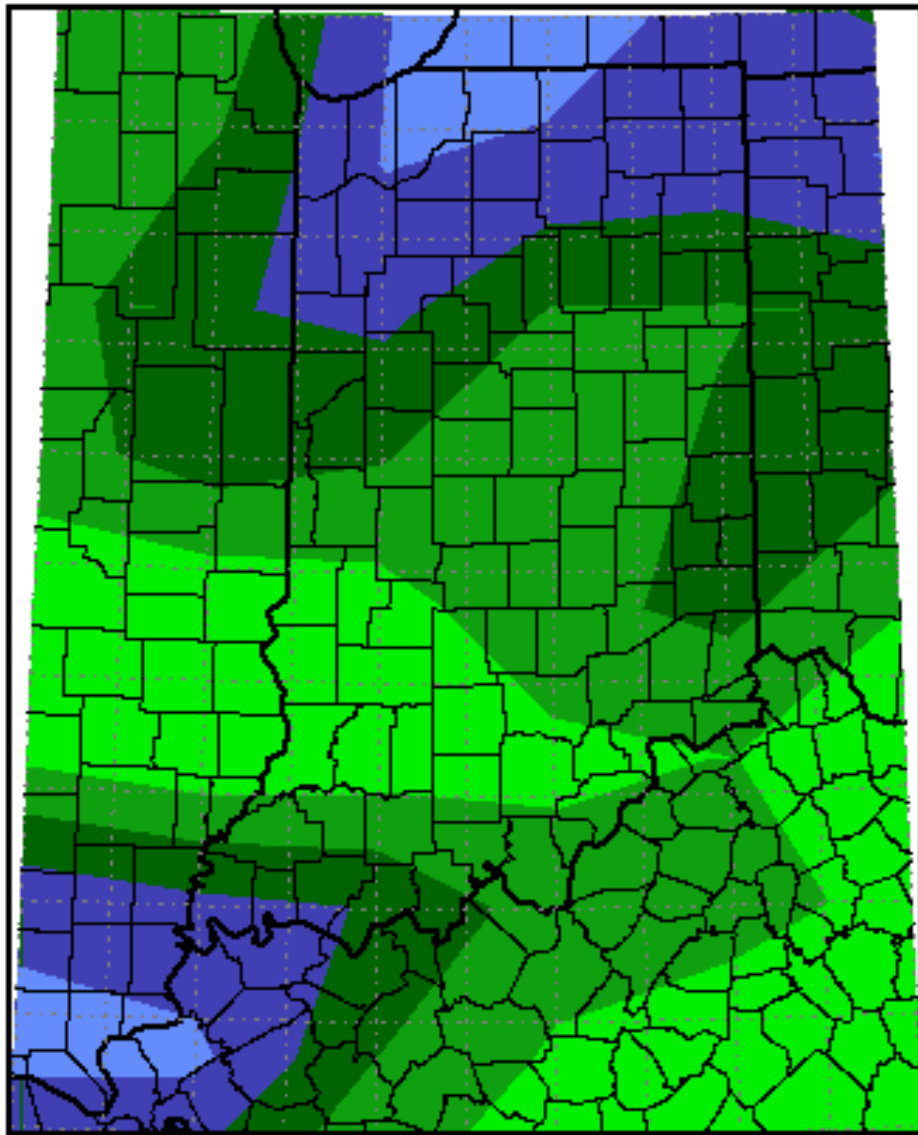


Midwestern Regional Climate Center

Illinois State Water Survey

Champaign, Illinois

**Total Precipitation Percent of Mean
July 1, 2006 to July 31, 2006**

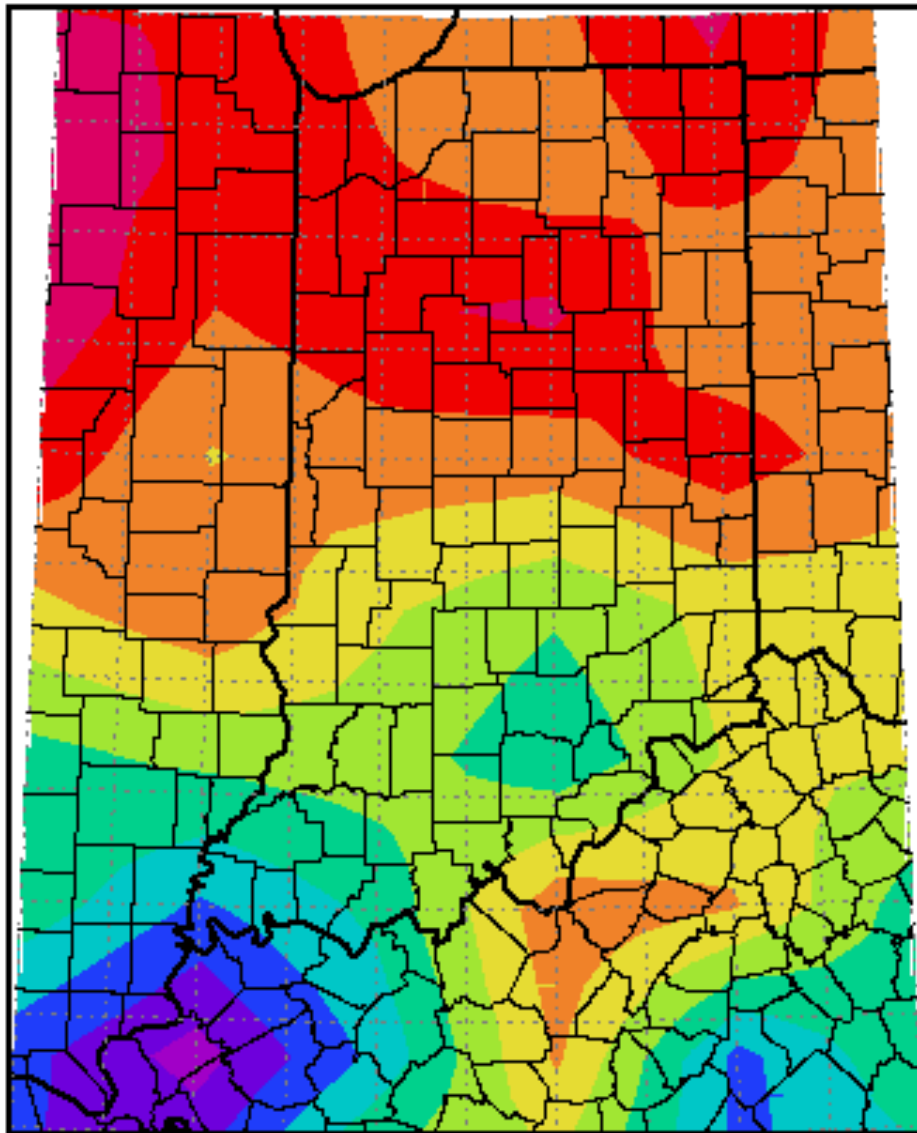


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Champaign, Illinois

**Average Temperature Departure from Mean in Degrees F
July 1, 2006 to July 31, 2006**



-0.6 -0.3 0 0.3 0.6 0.9 1.2 1.5 1.8

Midwestern Regional Climate Center

Illinois State Water Survey

Champaign, Illinois

Contributions made by Al Shipe NWS Indianapolis