

Ashley Brooks
(765) 494-6574

Indiana State Climate Office

Monthly Weather Report

Nov 7, 2005



<http://iclimate.org>

October 2005 Climate Summary

October 1-5

High pressure and fair weather gave way to an upper level disturbance and a surface warm front that brought over a half inch of rain to the northwestern corner of the state on the evening of the first and into the 2nd. These amounts decreased to the south and east. After the passage of the warm front, temperatures soared into the mid 80s from the 3rd-5th. Low temperatures were mainly in the 60s. High and low averaged temperatures across the state started at about twelve degrees above the normal of 58 degrees.

October 6-9

On the morning of the 6th, a cold front began to march through the state and brought with it cooler than normal temperatures. There was little moisture left with this system as it swept across the state, therefore only a few showers fell. By the 7th, temperatures dropped down into the 60s for highs and high pressure began to dry out the area. On the 9th, temperatures struggled to get out of the 50s and highs ranged from the mid-to-upper 50s. The extreme southern portion of the state did make it out of the 50s and into the low 60s. During the overnight hours however, under mainly clear skies, temperatures did plummet into the low to mid 40s.

October 10-12

Temperatures rebounded slightly into the 60s from the 10th-12th, while low temperatures also gained momentum and made it up into the 50s. A low pressure center began to form over the northeastern part of the state on the evening of the 10th and then moved out of the state by the morning of the 11th. 0.02 to 0.04 inches of rain fell in this area due to the low pressure system.

October 13-17

A cold front on the Illinois and Indiana border on the evening of the 13th moved through the state overnight. 0.01 to 0.02 inches of rain on average fell across the northern and central portions of the state. Another cold front passed through the state overnight on the 14th and into the morning of the 15th. Again, little precipitation was associated with the system and only the central and southeastern portions of the state received an average of 0.01 to 0.02 inches of rain. On the 17th, rain was noticeable across the northern part of

the state in advance of yet another cold frontal system. On average, 0.02 to 0.03 inches of rain fell across this area. Temperatures during this time frame were slightly above normal with 60s across the northern part of the state on the 13th and 70s across the rest of the state. By the 14th the entire state warmed into the 70s, however the northern part of the state dropped back down into the 60s by the 16th. Lows in the 40s and 50s across the state gave way to 30s across the northern sections for the 16th and 17th.

October 18-21

After the next storm system moved through during the morning of the 18th, it dropped south and set up a stationary front near the Ohio River between Indiana and Kentucky. This scenario was short-lived, however, and by the next morning the previous front had moved on and another cold front was knocking on Indiana's doorstep. This cold front, after moving through the state, also set up as a stationary front near the Ohio River by the morning of the 20th. This system continued to bring moisture up into the state on the 21st before starting to move to the east. Generally temperatures gradually warmed from the 18th until the 20th. Highs on the 18th were in the mid 60s across the north and mid 70s were across the south. By the 20th, the northern part of the state remained in the 60s, however the central part of the state recorded mid 70s. The southern portions of the state saw temperatures into the upper 80s on the 20th. As colder air began to filter into Indiana by the 21st, dramatic temperature changes ensued. Average highs barely made it to 50 in the northern counties with the southern portions dropping over 10 degrees to the mid 70s for highs. Low temperatures remained fairly constant with 50s across the south and 40s across the north. This temperature trend cooled above normal temperatures to below normal values. The rain associated with these storm systems has been greater than the previous time period's fronts. During this time period the average total rainfall values ranged from 0.18 to 0.46 inches across the northern third of the state. The north central and northeastern sections of the state recorded below normal precipitation at about 0.12 inches. The rest of the state received above average rainfall. The central portions of the state received 1.19-1.27 inches and the southern sections reported 0.63-0.98 inches of rainfall. The heaviest and most widespread rainfall totals occurred on the 20th.

October 22-24

The next system, already partially occluded, overtook the state on the evening of the 22nd and into the morning on the 23rd. Moisture on the back side of the low continued to feed some showers on the evening of the 23rd through the 24th as the low pressure center sat over Ohio. Overcast skies were prevalent across the state and contributed to cool daytime temperatures. The 22nd and 23rd saw high temperatures in the 50s across the northern and central sections and 60s across the southern portions of the state, however by the 24th northeastern Indiana was unable to climb out of the 40s while the rest of the state saw temperatures in the 50s. The cool temperatures continued overnight when northeastern Indiana dropped down into the upper 30s.

October 25-31

By the 25th the rain finally started to leave the state, however temperatures still remained chilly. Daytime highs only made it up into the 50s with the winds out of the north-northwest. High pressure moved in and dominated until the evening of the 30th into the 31st when pre-cold frontal showers pushed through the state. The front began to move through during the evening hours and during the overnight. Temperatures over this time period were about six degrees below normal.

Temperature

Region	Average	Normal	Deviation
Northwest	54.5	52.9	1.6
North central	53.9	52.2	1.7
Northeast	53.6	51.8	1.8
West central	55.4	54.1	1.3
Central	55.3	53.5	1.8
East central	54.7	52.7	2.0
Southwest	57.8	56.7	1.1
South central	57.2	56.0	1.2
Southeast	56.3	55.2	1.1
State	55.5	54.0	1.5

Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	1.39	2.92	-1.53	48
North central	1.08	2.95	-1.87	37
Northeast	0.75	2.70	-1.96	28
West central	1.61	2.90	-1.29	55
Central	1.69	2.82	-1.13	60
East central	2.25	2.73	-0.47	83
Southwest	0.97	3.04	-2.07	32
South central	1.07	3.02	-1.94	36
Southeast	1.66	2.98	-1.32	56
State	1.36	2.90	-1.54	47

Local extremes with over 50% of the data available

Site	Ob	Dev	% Available Data
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Low Precipitation	CROWN POINT 1 N	0.24	-2.73	58
High Precipitation	GREENFIELD	4.13	1.27	97

Fall Season-to-date September-October

Temperature

Region	Average	Normal	Deviation
Northwest	61.5	58.6	2.9
North central	60.9	58.0	2.9
Northeast	60.5	57.6	2.9
West central	62.5	59.9	2.6
Central	62.3	59.3	3.0
East central	61.6	58.5	3.1
Southwest	64.9	62.4	2.5
South central	64.2	61.6	2.6
Southeast	63.3	60.9	2.4
State	62.5	59.7	2.8

Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	5.95	6.14	-0.18	97
North central	5.68	6.25	-0.57	91
Northeast	5.18	5.90	-0.72	88
West central	6.48	5.93	0.56	109
Central	6.50	5.81	0.69	112
East central	7.19	5.52	1.68	130
Southwest	4.37	6.18	-1.80	71
South central	4.58	6.13	-1.55	75
Southeast	4.83	5.95	-1.12	81
State	5.63	5.99	-0.36	94

**Annual-to-date
January-October 2005**

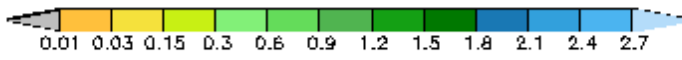
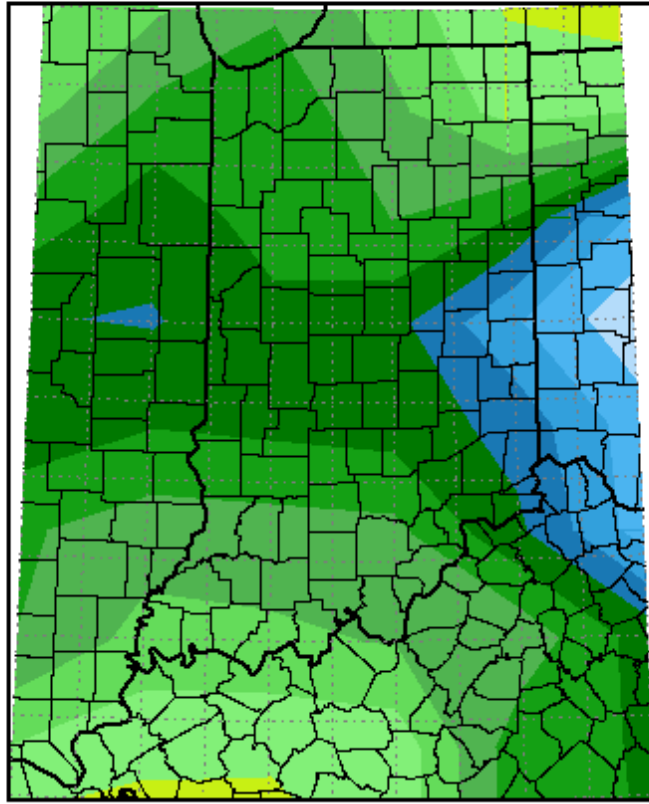
Temperature

Region	Average	Normal	Deviation
Northwest	55.0	53.4	1.6
North central	54.4	52.9	1.5
Northeast	54.0	52.5	1.5
West central	56.6	55.0	1.6
Central	56.2	54.5	1.7
East central	55.3	53.7	1.6
Southwest	60.0	58.1	1.9
South central	59.1	57.5	1.6
Southeast	58.0	56.6	1.3
State	56.6	55.0	1.6

Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	29.25	32.20	-2.95	91
North central	30.80	32.25	-1.45	96
Northeast	29.21	31.04	-1.83	94
West central	37.27	34.67	2.60	108
Central	41.05	34.12	6.93	120
East central	39.05	33.00	6.05	118
Southwest	37.29	37.75	-0.46	99
South central	38.40	38.06	0.35	101
Southeast	36.55	37.01	-0.45	99
State	35.70	34.53	1.16	103

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

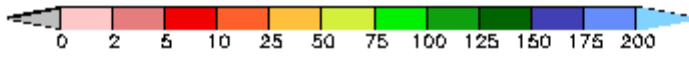
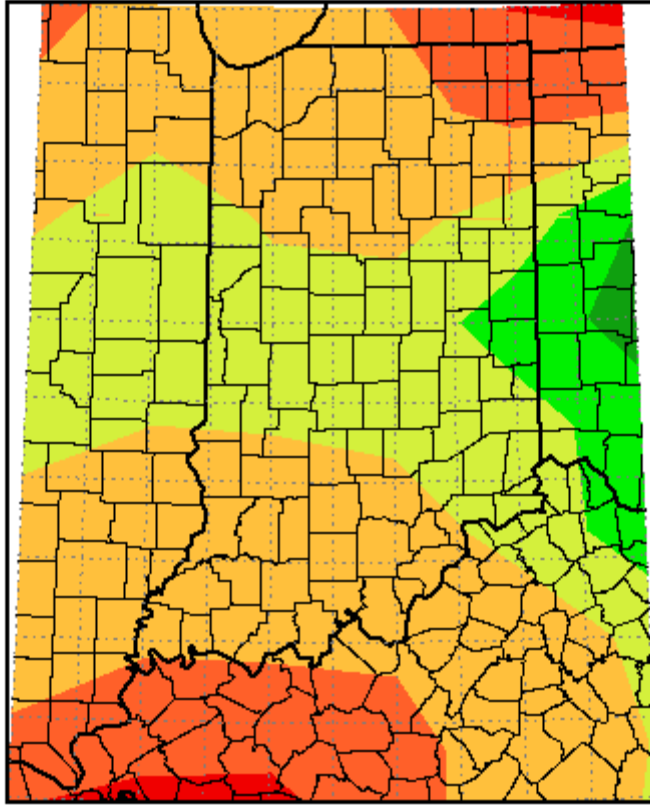


Midwestern Regional Climate Center

Illinois State Water Survey

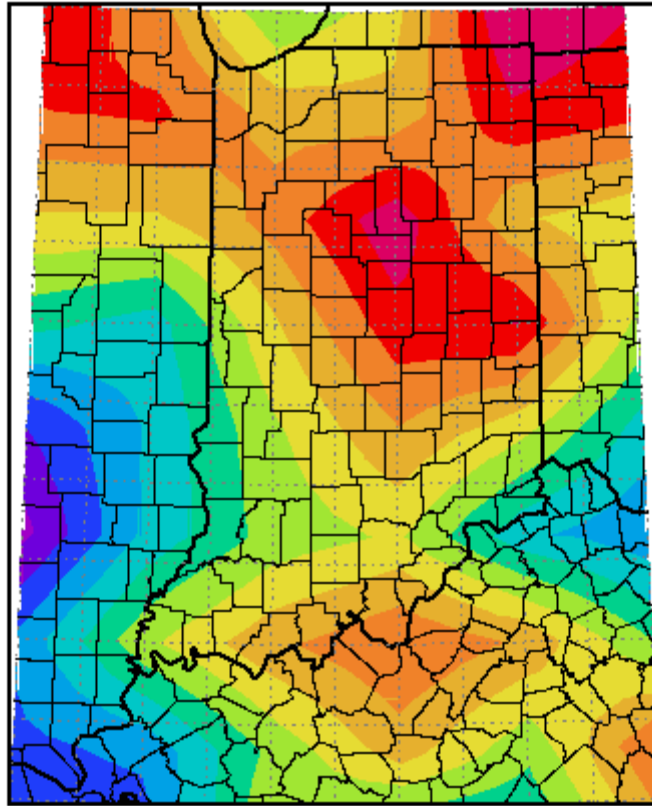
Champaign, Illinois

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



Midwestern Regional Climate Center
Illinois State Water Survey
Champaign, Illinois

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



Midwestern Regional Climate Center
Illinois State Water Survey
Champaign, Illinois