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Indiana State Climate Office

Monthly Weather Report

Jan 19, 2005



<http://www.iclimat.org>

December 2005 Climate Summary

December 1-4

Much of the state had a snowy start to the month as a fast moving clipper system blew through the region. As is common with clipper systems, they are fast moving; therefore, high pressure was already in place by the 2nd. Another system built in by the 3rd and brought snow across the north and into portions of the central region and freezing rain and sleet over other central portions of the state. There were a few remaining snow showers during the morning of the 4th, but these soon dissipated. Average precipitation amounts for the state were below normal at 0.15 inches, whereas normal conditions would be 0.37. Temperatures averaged about 14 degrees below normal for the state. Low 30s across the north to low 40s across the south on the 1st gave way to cooler conditions on the 2nd with most areas only making it into the 20s. Temperatures warmed up into the 30s across much of the state on the 3rd before cooling off a few degrees on the 4th. Low temperatures were mainly in the 20s except for on the 2nd when many areas dropped down into the teens.

December 5-7

There was a very cold start to the day on the 5th as clear skies overnight allowed for radiational cooling. There was another cold start on the 6th; however, pockets of light snow and flurries were located across the state as the day progressed. High pressure and continued cold temperatures were welcomed on the 7th. Multiple negative temperatures and single digits were reported across the northern two-thirds of the state during this time frame. Slightly warmer overnight temperatures occurred to the south, where mainly teens and 20s were present. Small precipitation amounts and colder-than-normal temperatures occurred during this time period across the state. Daytime temperatures on the 5th were primarily in the 20s and then cooled off into the teens on the 6th for the northern part of the state and increased into the 30s for the southern part of the state. Temperatures cooled off by only a few degrees on the 7th.

December 8-11

Accumulating snowfalls accompanied a low that moved in from the southwest to the region on the 8th. This was the first major snowfall of the season, lasting most of the afternoon and evening with snowfall rates upwards of 1 to 2 inches an hour. Some of the

snowfall totals included Fort Wayne, which received 8.4 inches of snowfall; Indianapolis, which accumulated 7.7 inches; and South Bend, which came in at 8.0 inches. The snow exited late in the evening of the 8th and early in the morning of the 9th, while strong winds created blowing snow. Subsequent clipper systems on the 10th and 11th added a blanket of light snow on top of the previous snow. Temperatures were still below normal, however, warmer than in the previous time period. Twenties and 30s on the 8th gave way to low 20s on the 9th. A rebound on the 10th occurred as temperatures rose to the upper 20s across the north and mid to upper 30s across the south. Thirties were prevalent across the state on the 11th with a few 40 degree readings across the southern portion of the state.

December 12-16

There was a drier start to the day on the 12th with chilly conditions present and lows that ranged from the single digits across portions in the northwestern part of the state to 30s for lows across the extreme southern portions. During the day, temperatures warmed up into the upper 20s to low 40s. A few flurries were scattered about on the 13th with larger concentrations in the central and southern locations. Greater amounts of precipitation fell on the 14th due to two low pressure systems. Precipitation types varied from snow in the north to rain in the southern portions of the state. On average, 0.07 inches of precipitation fell across the northwestern corner of Indiana to around 0.30 inches in the southeastern locations of the state. Precipitation continued into the day on the 15th; however, by this time mainly the eastern half of the state was receiving rainfall. By the 16th only a few snow flurries remained in the northwestern portion of the state. High temperatures on the 13th to 16th were mainly in the 30s to 40s range with lows in the teens to 30s.

December 17-23

The main dominating force during this time was high pressure that prevented any large amounts of precipitation from encroaching upon the state. Small disturbances brought light amounts of precipitation across the state on the 18th, to southern locations on the 21st, and to the southwest, central, and northern parts of Indiana on the 23rd. This period marked a distinct change in temperature patterns. On the 19th temperatures struggled to get out of the teens; however, by the 23rd high temperatures ranged from the upper 30s in northern portions to the upper 50s across the south. Low temperatures ranged from a few negative temperatures and single digits earlier in the period on the 19th to 30s by the 23rd. Most of the previous snowfall melted under these conditions.

December 24-25

A storm system began to move into the region on Christmas Eve and into the day on Christmas. Both rain and snow occurred with this storm. Due to warmer temperatures, the precipitation mainly started out as rain; however, as colder air started to filter in on the backside of the system, 1 to 3 inches of snow fell in portions of central and northern Indiana later in the day on the 25th. The rainfall from this system, in addition to generally

warmer temperatures, displaced ice on rivers, allowing for minor ice jams on small streams in north central Indiana.

December 26-31

The cool weather in the 30s on the 26th was short-lived as the two warmest days of the month occurred on the 27th and 28th. Temperatures in most areas across the southern two-thirds of the state rose into the 50s and locations across the north into the 40s under a southerly flow. Lows on these two days only dropped down into the 30s and 40s. Light amounts of rainfall occurred on the 27th due to an advancing storm system. The low and associated fronts crossed the state on the 28th bringing heavy rainfall to the state. On average, 0.15 to 0.50 inches of rain fell on the 28th. In addition to this, the one lone severe storm report for the month occurred in Lawrence County. 0.75 inches of hail was reported six miles to the southeast of Bedford. Cooler temperatures in the 30s were located to the west of the front during the day on the 29th with some leftover precipitation. A slight rebound in temperatures occurred on the 30th as temperatures climbed into the upper 30s to mid 40s. On the 31st there was a range of high temperatures from the upper 30s to around 50, from north to south respectively, across the state. Another storm system on the 30th drenched the state with rainfall values averaging from 0.16 inches to 0.34 inches. Remnants of this system brought lighter showers across the state on the 31st.

Temperature

Region	Average	Normal	Deviation
Northwest	23.7	28.5	-4.8
North central	26.3	30.7	-4.4
Northeast	23.9	28.7	-4.8
West central	23.9	28.6	-4.7
Central	26.0	30.4	-4.4
East central	25.7	30.2	-4.5
Southwest	31.1	34.5	-3.5
South central	30.4	34.5	-4.1
Southeast	29.3	34.0	-4.6
State	26.8	31.1	-4.4

Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	1.56	2.66	-1.10	59
North central	2.00	2.79	-0.79	72

Northeast	2.40	2.68	-0.28	90
West central	2.06	2.96	-0.90	70
Central	2.66	2.99	-0.33	89
East central	2.53	2.87	-0.34	88
Southwest	2.22	3.53	-1.32	63
South central	2.61	3.56	-0.95	73
Southeast	2.41	3.41	-0.99	71
State	2.27	3.06	-0.78	74

Local extremes with over 50% of the data available

	Site	Ob	Dev	% Available Data
Low Precipitation	Remington	0.95	-1.65	90
High Precipitation	Elwood	3.26	0.34	97

**Winter Season to date
(Same as month to date)**

Temperature

Region	Average	Normal	Deviation
Northwest	23.7	28.5	-4.8
North central	26.3	30.7	-4.4
Northeast	23.9	28.7	-4.8
West central	23.9	28.6	-4.7
Central	26.0	30.4	-4.4
East central	25.7	30.2	-4.5
Southwest	31.1	34.5	-3.5
South central	30.4	34.5	-4.1
Southeast	29.3	34.0	-4.6
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Southwest	2.22	3.53	-1.32	63
South central	2.61	3.56	-0.95	73
Southeast	2.41	3.41	-0.99	71
State	2.27	3.06	-0.78	74

**Annual to Date
January-December 2005**

Temperature

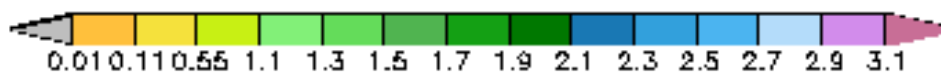
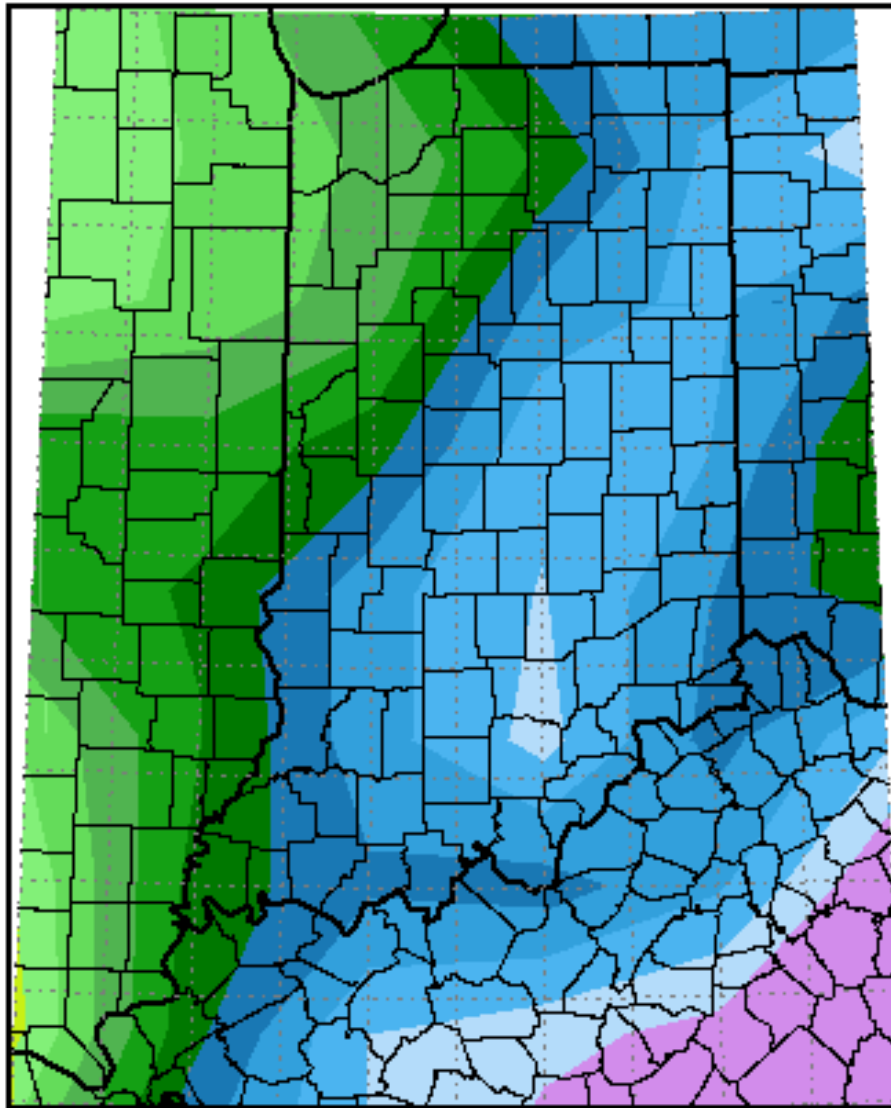
Region	Average	Normal	Deviation
Northwest	51.3	50.2	1.1
North central	50.8	49.8	1.0
Northeast	50.5	49.5	1.0
West central	52.8	51.9	1.0
Central	52.5	51.5	1.1
East central	51.8	50.7	1.1
Southwest	56.5	55.1	1.5
South central	55.5	54.5	1.0
Southeast	54.6	53.7	0.9
State	53.0	51.9	1.1

Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	33.93	38.01	-4.08	89
North central	35.86	38.19	-2.33	94
Northeast	35.22	36.75	-1.53	96
West central	42.90	41.23	1.67	104
Central	48.87	40.74	8.13	120
East central	47.34	39.23	8.11	121
Southwest	44.95	45.56	-0.61	99

South central	46.11	45.70	0.40	101
Southeast	45.22	44.12	1.11	103
State	42.49	41.18	1.32	103

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

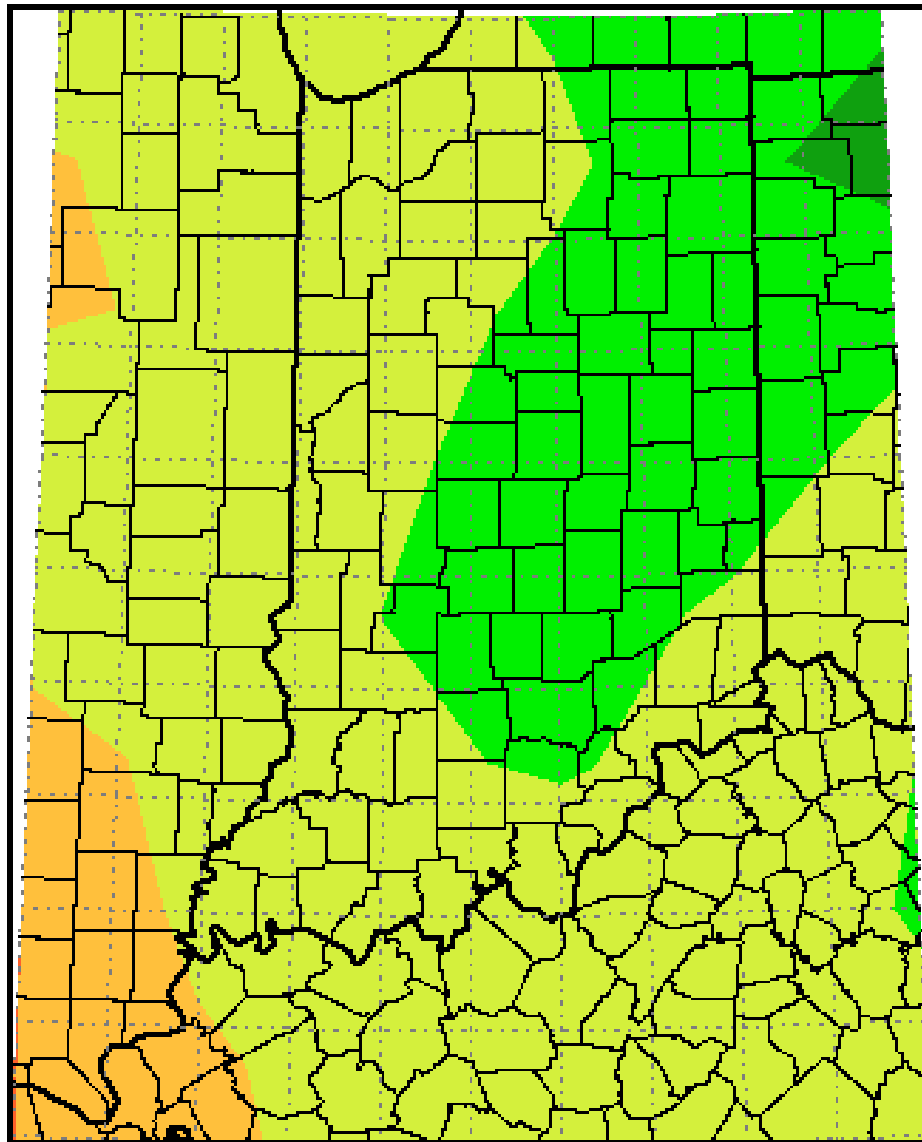


Midwestern Regional Climate Center

Illinois State Water Survey

Champaign, Illinois

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

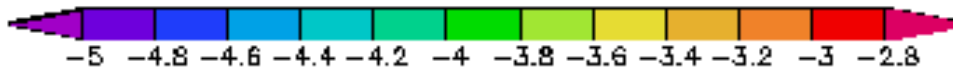
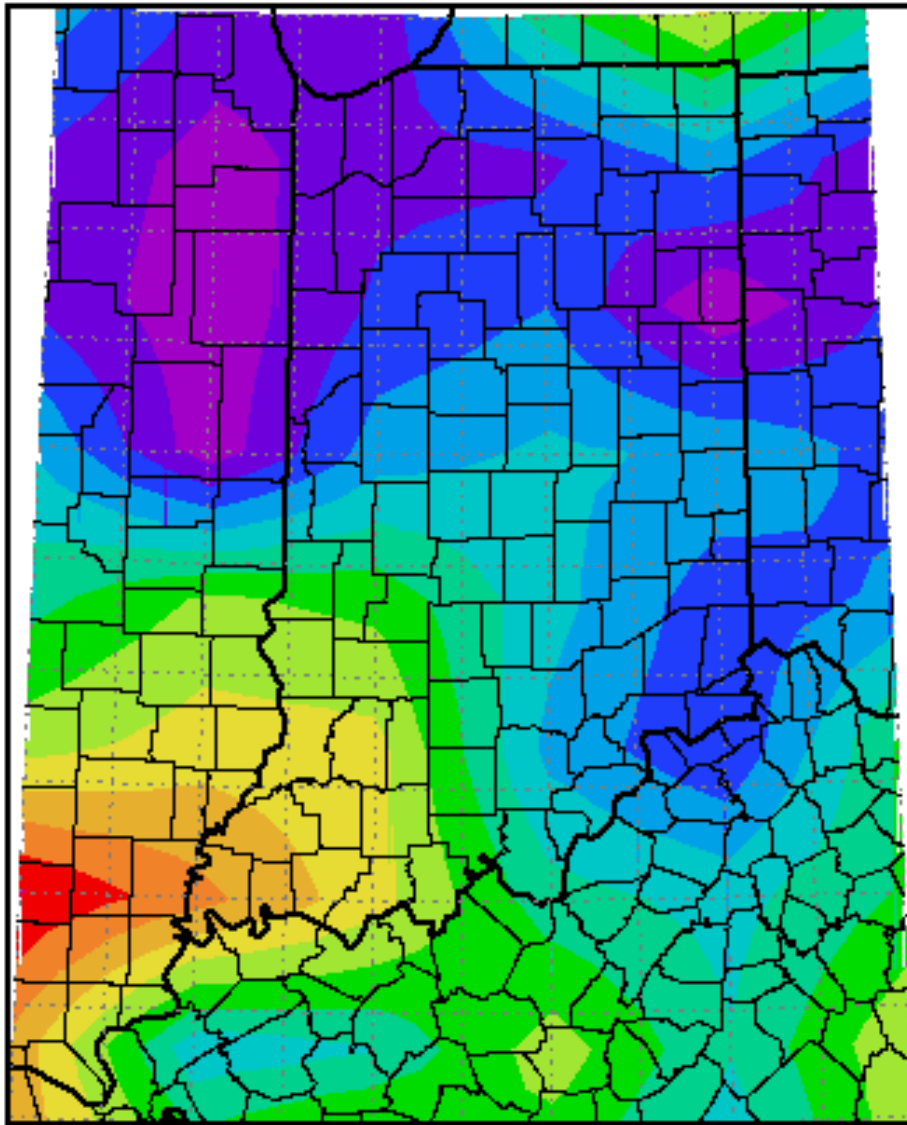


Midwestern Regional Climate Center

Illinois State Water Survey

Champaign, Illinois

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



Midwestern Regional Climate Center

Illinois State Water Survey

Champaign, Illinois

Contributions made by Al Shipe NWS Indianapolis