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Indiana State Climate Office

Monthly Weather Report

Mar 14, 2007



<http://www.iclimete.org>

February 2007 Climate Summary

February 1-10

The first ten days of February were bitterly cold across Indiana with temperatures 15.4°F below normal. Precipitation amounts were also below normal for this time frame with 0.26 inches of precipitation, 0.40 inches below normal. A weak cold front brought light snow showers to southern Indiana on the first and the second. After the passage of the cold front drier conditions prevailed, however temperatures dropped from having highs in the 20s to having highs in teens and single digits across portions of central and northern Indiana on the 3rd and 4th. Southern Indiana hung onto the warmer upper 20s to low 30s for highs. Temperatures dropped below zero to the single digits for all except southern portions of the state for the extent of the period. Southern Indiana generally hung onto lows into the low to middle teens. High temperatures finished off the ten day period in the teens across the north to the low 30s across the south. The passage of a moisture starved cold front on the 3rd sparked off some lake effect snow across north central Indiana on the 4th under northwest flow. Light precipitation also occurred on the 5th, however the bulk of the snow did not occur until the 6th. Snowfall in February had been light up until Tuesday the 6th. Tuesday's in February would cause hazardous driving conditions across the state as snowfall amounts rallied. Around six inches of snow fell across portions of Indiana including central Indiana as a warm front lifted north across the area. Even with this snowfall exiting the state by the evening cold temperatures at night froze left over moisture on roadways. High pressure then returned to the state with only very light flurries and snow showers occurring after this point. It was this combination of high pressure with northwesterly flow and the fresh snow cover that kept temperatures so cold

February 11-20

The cold weather continued for the middle portion of the month with temperatures 10.7 degrees below the normal of 31.9°F, however this time with the colder temperatures precipitation amounts were above normal. The 0.58 inches above the normal 0.81 inches of precipitation can largely be attributed to the pre-Valentine's Day snowstorm that tore across the state and gave some regions over 24 straight hours of snow. A low down in Texas began to move northward and precipitation began spilling into the area on the 12th and continued into the 13th. The greatest snowfall occurred across the Lafayette area where 17 inches of snow fell with blizzard conditions. Areas to the south around

Indianapolis received 8 inches and due to slightly warmer conditions, hours of sleet as well. South of Indianapolis freezing rain caused havoc to residents and across extreme southern Indiana high rainfall totals were prevalent with over an inch of rain falling. On Valentine's Day lake effect snow showers fell across northern portions of the state after the passage of the main segment of the system. Again the snow cover and the cold air behind the system from Canada brought the return of bitterly cold temperatures across the state on the 14th. Highs were generally in the teens on the 14th and 15th in areas that received high amounts of snow including central Indiana. The entire state made it up into the 20s by the 17th with areas across the south cracking the 30 degree mark. Another low brought precipitation to the state on the 16th and 17th, with around four inches of snow falling across central Indiana and other pockets around the state. By the 19th temperatures were in the 40s and by the 20th temperatures had even reached into the 50s across southern Indiana. This helped in the melting of the snow by day and then the freezing of the melted snow by night when temperatures dropped below freezing.

February 21-28

The last week of February again had below normal temperatures and above normal precipitation totals, however to a lesser degree. Mean temperatures were 2.3°F below the normal of 35.6°F and state averaged precipitation totals were 0.36 inches above the normal of 0.77 inches. Weak disturbances brought light precipitation to the state on the 21st and 23rd with a larger system encroaching upon the state on the 24th and into the 25th. With this system temperatures were right around the freezing mark and therefore some areas of the state saw snow, others experienced sleet and freezing rain, some portions rain, and a large area of the state received all of these forms of precipitation. Warm air began to push into the state and a large portion of the area had changed over to rain by the 25th. High pressure then returned until the 28th when a weak disturbance brought precipitation to the state, with southern portions receiving higher totals.

Temperature

Region	Average	Normal	Deviation
Northwest	17.3	28.1	-10.8
North central	17.2	27.6	-10.4
Northeast	17.0	27.1	-10.1
West central	19.6	30.3	-10.7
Central	19.3	30.0	-10.6
East central	18.3	29.0	-10.7
Southwest	27.6	35.1	-7.4
South central	25.8	34.8	-9.0
Southeast	23.2	33.7	-10.5
State	20.8	30.7	-10.0

Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	1.94	1.67	0.27	116
North central	1.82	1.78	0.04	102
Northeast	1.57	1.76	-0.20	89
West central	2.49	2.11	0.38	118
Central	3.15	2.21	0.94	143
East central	3.00	2.09	0.91	144
Southwest	3.54	2.80	0.74	126
South central	3.68	2.87	0.81	128
Southeast	3.77	2.78	0.99	135
State	2.79	2.24	0.55	125

Local extremes with over 50% of the data available

	Site	Ob	Dev	% Available Data
Low Precipitation	West Lafayette FCWOS	0.29	-1.59	100
High Precipitation	Bloomington IN Univ	5.63	3.02	93

Winter Season-to-date (December-February)

Temperature

Region	Average	Normal	Deviation
Northwest	27.1	26.4	0.8
North central	27.3	26.3	0.9
Northeast	27.4	26.1	1.3
West central	29.0	28.5	0.6
Central	29.2	28.5	0.7
East central	28.7	27.8	0.9
Southwest	34.0	33.0	1.0
South central	33.1	32.9	0.2
Southeast	32.1	32.1	0.0
State	29.8	29.1	0.7

Precipitation

Region	Total	Normal	Deviation	Percent of Normal
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Northwest	8.61	6.17	2.44	139
North central	8.97	6.60	2.37	136
Northeast	9.00	6.41	2.58	140
West central	10.60	7.35	3.25	144
Central	12.47	7.55	4.92	165
East central	11.37	7.26	4.11	157
Southwest	12.78	9.40	3.38	136
South central	13.07	9.56	3.51	137
Southeast	12.31	9.18	3.13	134
State	11.11	7.74	3.38	144

Annual-to-Date

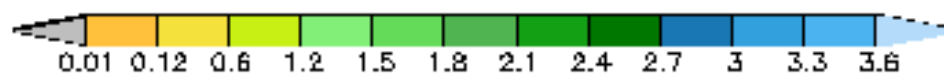
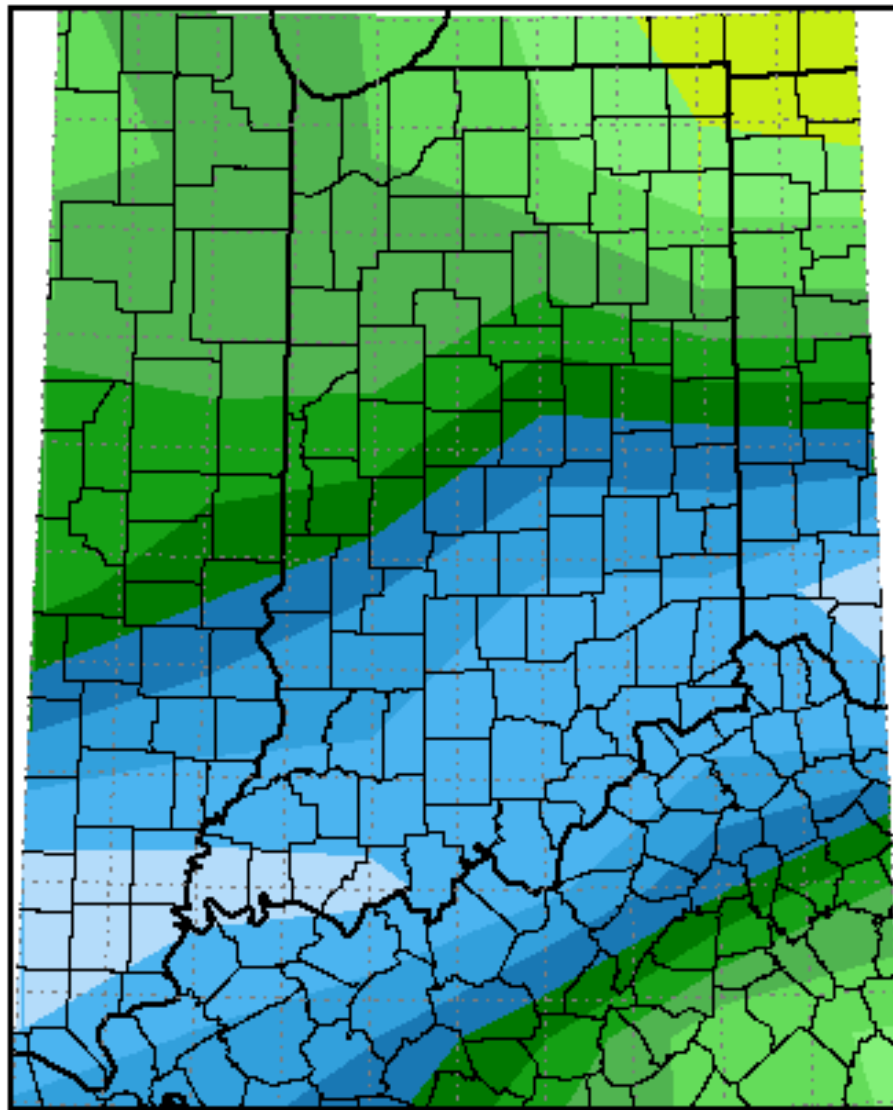
Temperature

Region	Average	Normal	Deviation
Northwest	22.9	25.4	-2.5
North central	23.0	25.3	-2.3
Northeast	23.1	25.0	-1.9
West central	25.0	27.6	-2.5
Central	25.2	27.5	-2.3
East central	24.6	26.7	-2.1
Southwest	31.1	32.3	-1.2
South central	30.1	32.2	-2.1
Southeast	28.6	31.3	-2.7
State	26.1	28.2	-2.1

Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	5.57	3.54	2.02	157
North central	5.83	3.83	2.00	152
Northeast	5.60	3.74	1.86	150
West central	6.75	4.41	2.34	153
Central	8.06	4.57	3.50	177
East central	7.67	4.40	3.27	174
Southwest	8.64	5.88	2.75	147
South central	8.76	6.02	2.74	145
Southeast	8.50	5.82	2.68	146
State	7.30	4.70	2.61	156

**Total Precipitation in Inches
February 1, 2007 to February 28, 2007**

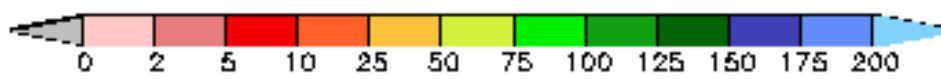
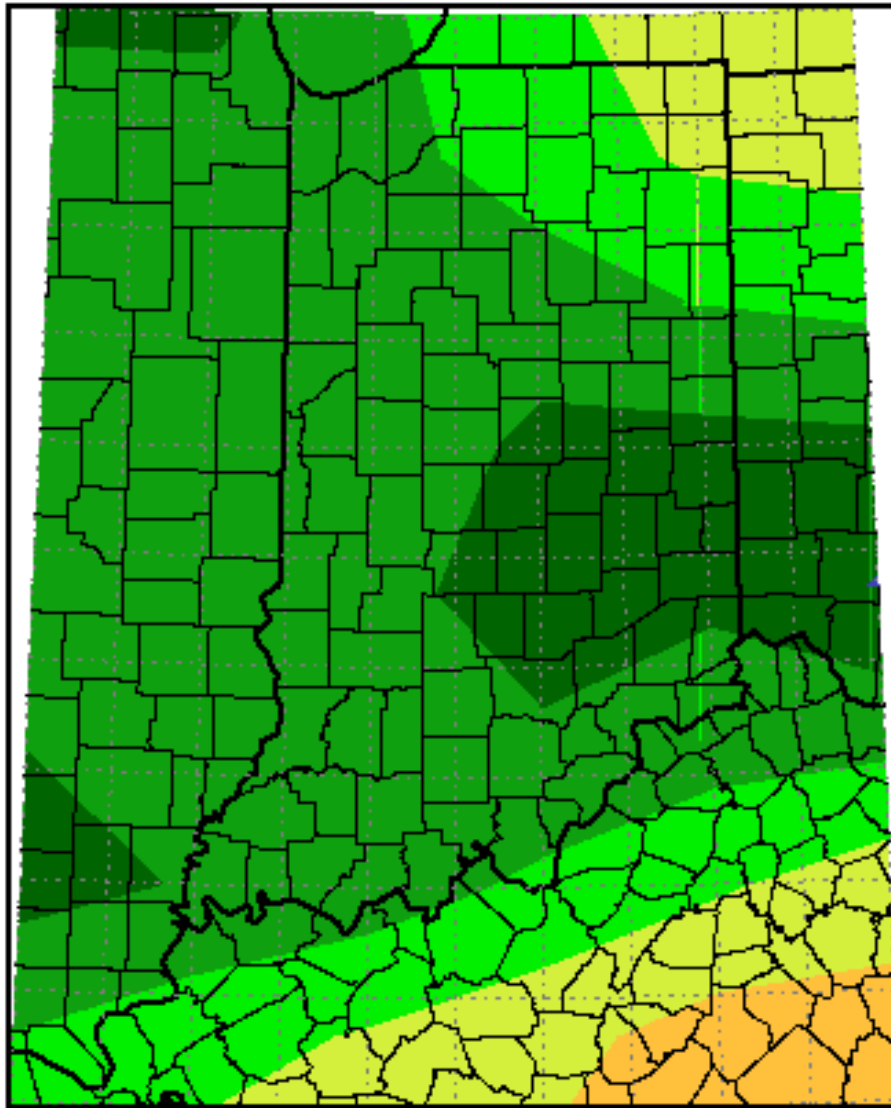


Midwestern Regional Climate Center

Illinois State Water Survey

Champaign, Illinois

**Total Precipitation Percent of Mean
February 1, 2007 to February 28, 2007**

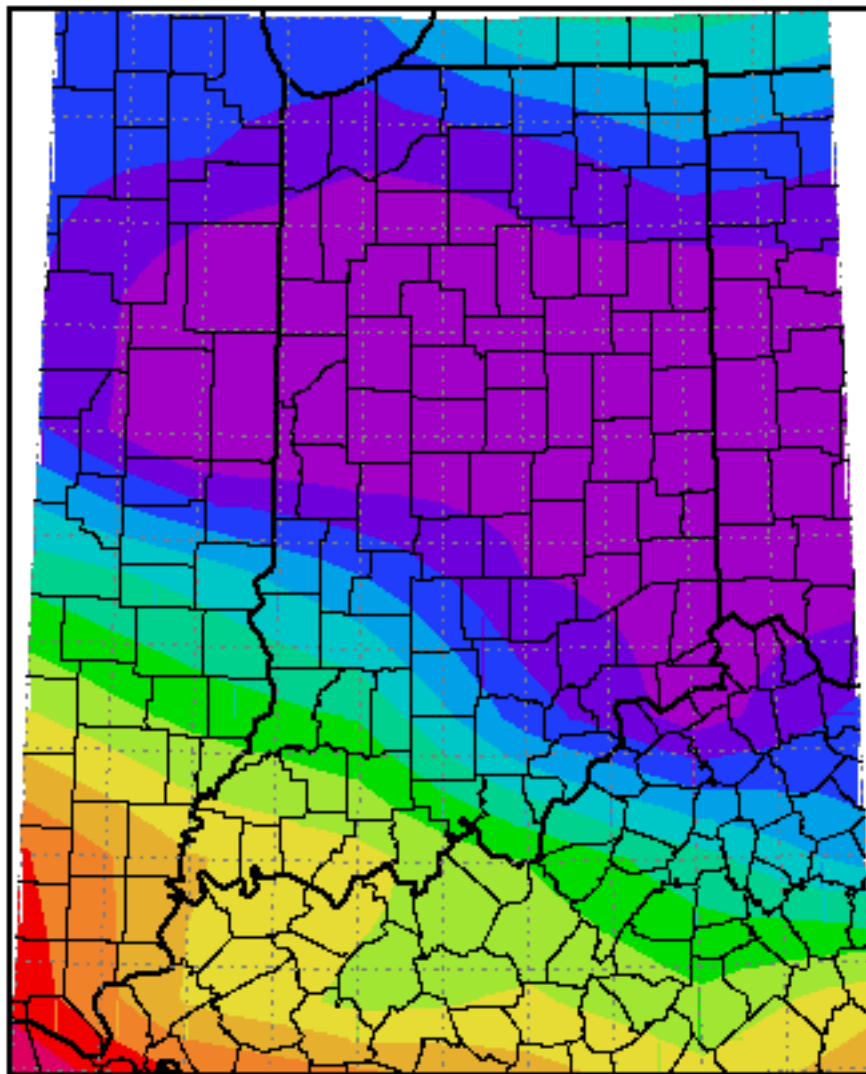


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Champaign, Illinois

**Average Temperature Departure from Mean in Degrees F
February 1, 2007 to February 28, 2007**



Midwestern Regional Climate Center

Illinois State Water Survey

Champaign, Illinois

Contributions made by Al Shipe NWS Indianapolis