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Indiana State Climate Office

Monthly Weather Report

April 04, 2007



<http://www.iclimat.org>

March Summary 2007

March 1-11

Although March overall was well above normal, during the first part of March both temperatures and precipitation were below normal. Temperatures were 2.3°F below the normal mean average temperature of 37.6°F and precipitation was 0.88 inches below the normal of 1.21 inches. A warm front moved north across the state on the first in the morning helping to push temperatures up into the 40s to 60s for highs with an occluded front passing during the evening. Rainfall continued on the 2nd as a stationary front set up across the region with temperatures reaching the 30s to 50s. By the 3rd the front moved to the east as a cold front and on the back side, light snow fell across a majority of the state, except for the southwest corner of the state. Temperatures were generally in the 30s for the 3rd and 4th. After the passage of the snow, high pressure built in on the 5th with temperatures in the 30s to 50s. Another cold front swept through the state later in the day on the 5th, however with this system coming down from Canada there was little moisture to work with and the state remained dry. A weak disturbance brought a few light showers to the northern part of the state on the 5th before drying out again on the 7th. Temperatures were generally on the increase after this point. By the 9th another system approached the state with first a warm front and then a cold front passed on by bringing another round of precipitation to the area. A large area of high pressure built in for the remainder of the period with dry conditions. High temperatures by the end of the period were in the 50s and 60s.

March 12-17

The second part of March was characterized different than the first. Precipitation amounts and temperatures were both above normal. Mean average temperatures were 3.1°F above the normal of 40.3°F and precipitation values were 0.32 inches above the normal 0.64 inches. An upper level disturbance brought rainfall across the state on the 12th and 13th before more organized heavier precipitation on the 14th and 15th in association with cold fronts that moved across the state. With the passage of the cold front some locations received snowfall on the 15th. Over an inch of precipitation fell across portions of central Indiana during this two day time frame. High pressure and drier conditions moved in behind the fronts for the 16th and 17th. The warmest day during this time frame was on the 13th when record breaking warmth could be felt with temperatures topping the 80 degree mark.

March 18-24

Like the 2nd part of March, the 3rd part also experienced temperatures well above normal and above normal rainfall as well. Temperatures were 13.3°F above the normal mean temperature of 41.9°F and rainfall values were 1.07 inches above the normal of 0.68 inches. Rain fell across the state everyday during this time frame. A warm front began to approach the state on the 18th and 19th with a cold front moving through by the evening of the 19th. The front stayed just south of the state and therefore more rain fell on the 20th. Storms fired on the 21st and set down some hail across the northern half of the state. 0.88 inch hail fell two miles to the east of Delphi in Carroll County and one inch hail fell across Goshen in Elkhart County Indiana. A cold front moved through early on the 22nd and brought with it rainfall amounts of over an inch in some locations. The front got held up as a stationary front on the 23rd and 24th bringing more rain across Indiana. High temperatures went from the 40s to start this time period to the 60s, 70s, and 80s to finish this period off.

March 25-31

The end of March continued the trend of most of the rest of March with above normal rainfall and temperatures. Rain fell on everyday across the state except for the 25th bringing rainfall values 0.05 inches above the normal 0.91 inches. Temperatures were 15.5°F above the average normal of 46.4°F. An approaching system brought showers to the northern and west central parts of the state on the 26th with more widespread precipitation on the 27th as a low pressure system neared the area. A stationary front set up on the 28th and a backdoor cold front moved to the south across the area on the 29th. Another stationary front set itself up across the state on the 30th and the 31st to finish the month on a soggy note. Temperatures reached the 80 degree mark across portions of the state from the 25th until the 27th before dropping a few degrees into the 60s and 70s for the rest of the month.

Temperature

Region	Average	Normal	Deviation
Northwest	44.5	38.9	5.6
North central	43.5	38.3	5.2
Northeast	42.1	37.7	4.4
West central	47.9	41.0	6.9
Central	47.3	40.4	6.8
East central	45.9	39.4	6.5
Southwest	52.5	45.1	7.4
South central	51.3	44.6	6.8
Southeast	49.6	43.5	6.1
State	47.4	41.1	6.3

Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	3.66	2.98	0.68	123
North central	3.36	2.83	0.52	118
Northeast	3.08	2.75	0.33	112
West central	4.22	3.41	0.81	124
Central	5.46	3.32	2.14	165
East central	5.89	3.11	2.79	190
Southwest	3.38	4.20	-0.82	80
South central	3.35	4.15	-0.79	81
Southeast	3.17	3.93	-0.76	81
State	3.99	3.43	0.56	116

Local extremes with over 50% of the data available

	Site	Ob	Dev	% Available Data
Low Precipitation	2 NE of Alpine	1.49	-2.03	58
High Precipitation	2 S of Castleton	6.87	3.58	100

**Spring Season-to-date
(Same as month-to-date)
Temperature**

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Northeast	42.1	37.7	4.4
West central	47.9	41.0	6.9
Central	47.3	40.4	6.8
East central	45.9	39.4	6.5
Southwest	52.5	45.1	7.4
South central	51.3	44.6	6.8
Southeast	49.6	43.5	6.1
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Annual-to-Date

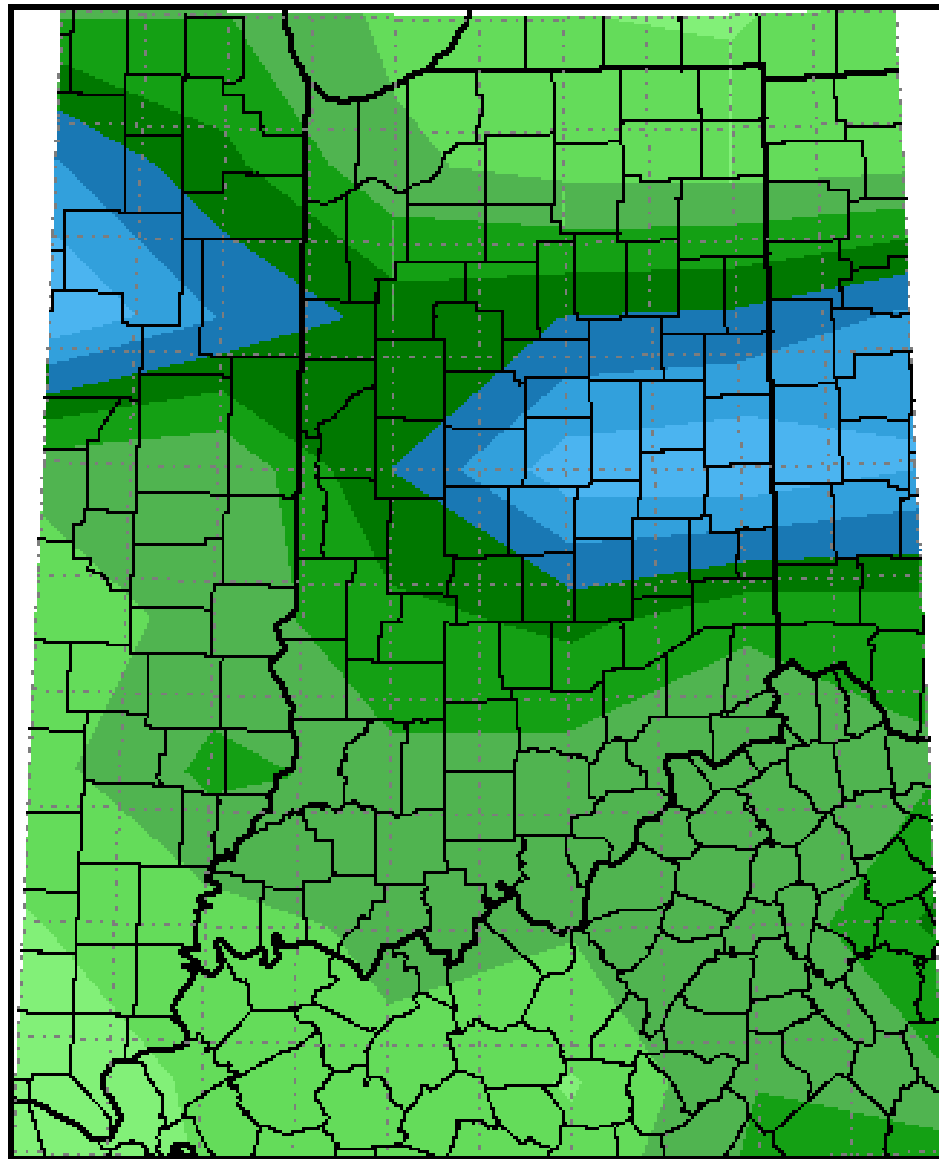
Temperature

Region	Average	Normal	Deviation
Northwest	30.4	30.0	0.3
North central	30.1	29.7	0.3
Northeast	29.6	29.4	0.3
West central	32.9	32.2	0.7
Central	32.8	32.0	0.9
East central	31.9	31.1	0.8
Southwest	38.5	36.7	1.8
South central	37.4	36.5	0.9
Southeast	35.9	35.5	0.4
State	33.4	32.6	0.8

Precipitation

Region	Total	Normal	Deviation	Percent of Normal
Northwest	9.23	6.52	2.71	141
North central	9.18	6.66	2.52	138
Northeast	8.68	6.49	2.19	134
West central	10.97	7.82	3.15	140
Central	13.52	7.88	5.64	172
East central	13.56	7.51	6.05	181
Southwest	12.02	10.09	1.93	119
South central	12.11	10.17	1.94	119
Southeast	11.67	9.75	1.93	120
State	11.29	8.12	3.17	139

**Total Precipitation in Inches
March 1, 2007 to March 31, 2007**

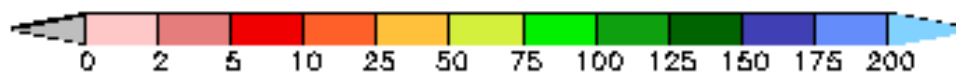
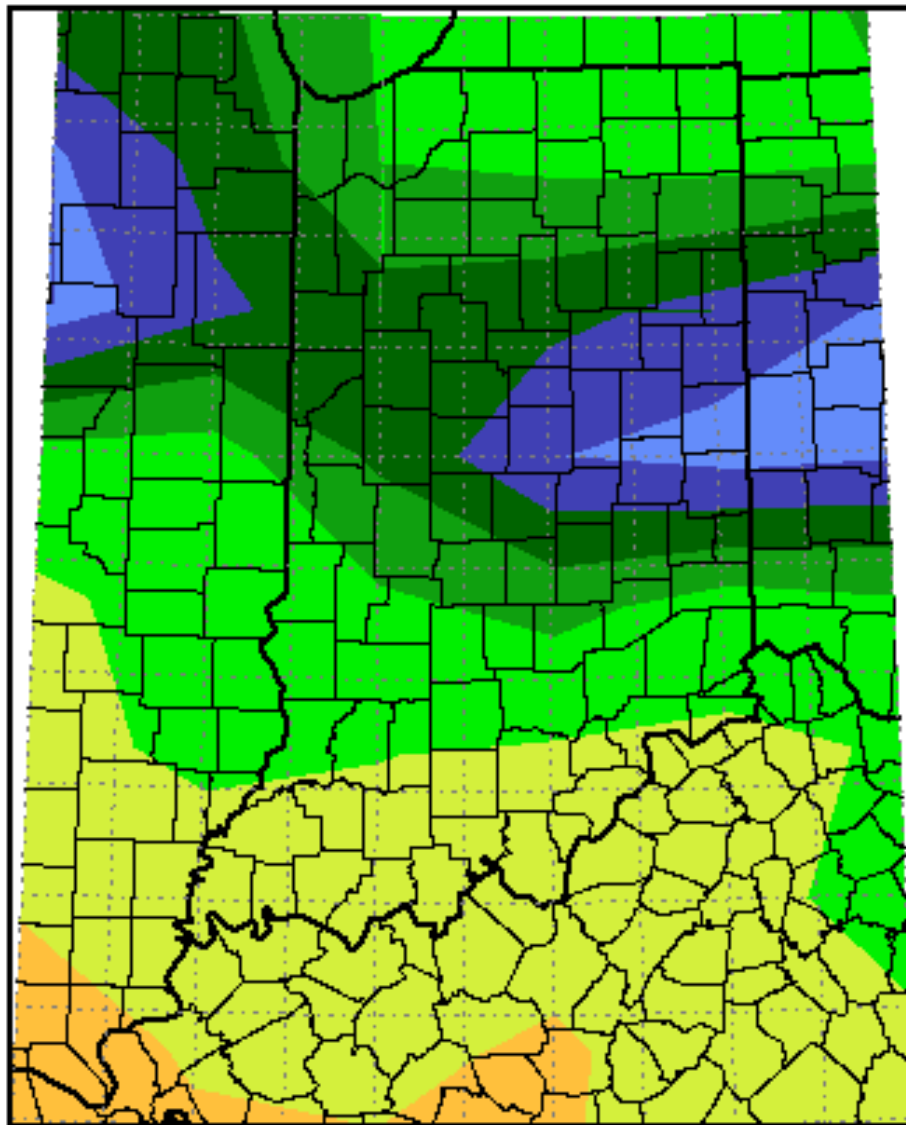


Midwestern Regional Climate Center

Illinois State Water Survey

Champaign, Illinois

**Total Precipitation Percent of Mean
March 1, 2007 to March 31, 2007**

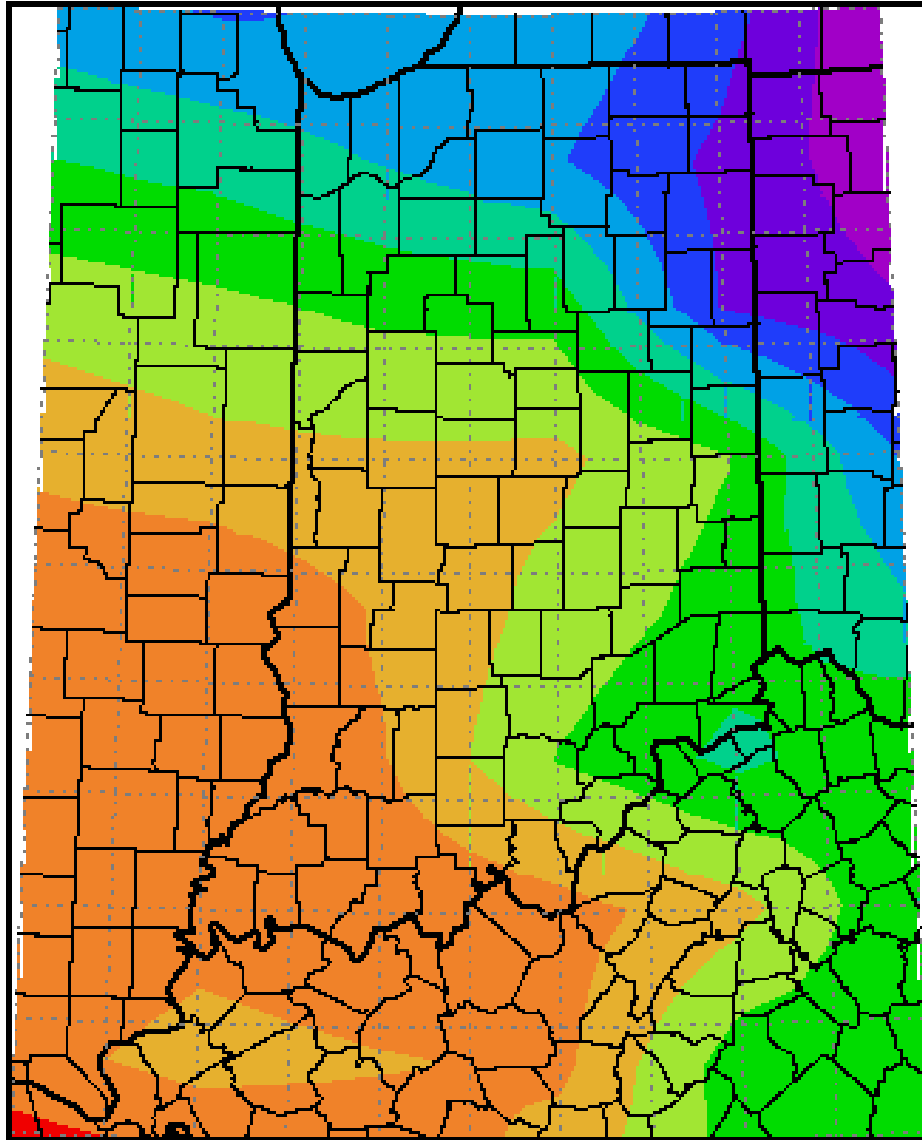


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Champaign, Illinois

**Average Temperature Departure from Mean in Degrees F
March 1, 2007 to March 31, 2007**



Midwestern Regional Climate Center

Illinois State Water Survey

Champaign, Illinois