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## Indiana State Climate Office

### Monthly Weather Report

**Jun 7, 2005**



<http://iclimate.org>

## May 2005 Climate Summary

### May 1-5

Early May was characterized by an upper-level trough that was in place over Indiana that brought in very cool temperatures from Canada. Trace precipitation amounts occurred in the eastern half of the state on the first of the month that moved off to the northeast by the third. Weak cold air advection occurred during mid-week around the third. This allowed for low temperatures to drop into the upper 20s across central to northeast Indiana locations. Record low temperatures occurred including at Indianapolis which set two new records: a low of 31 on the second and 29 degrees on the third (which was also the second lowest temperature ever recorded at Indianapolis in May). This replaced or tied the old record lows of 31. High Temperatures across most of Indiana were in the 50s with low temperatures dipping down into the 30s, about 10 to 20 degrees cooler than normal for this time of year. Surface high pressure started to build in by the fourth, which allowed for temperatures to reach into the 60s.

### May 6-8

A stationary front and later a warm front associated with the next system moved into the state during this period and brought with it rainfall amounts upwards of 0.26 inches in Butler, IN and 0.56 inches in Indianapolis, IN. This began the period of above normal 80-degree temperatures over most of the state while the normal high temperatures during this time usually reach only into the mid to upper 60s.

### May 9-11

An upper atmospheric ridge of high pressure started to move eastward as the next low pressure system traveled through the plains. As the trough aloft delved into the area on the tenth, a surface cold front surged south across the state. This brought with it a swath of severe weather on the eleventh. This included large hail and wind reports over Indiana, except for the northwest and southwest corners of the state. The largest hail report occurred in Delaware County at 2055 UTC with a measurement of 2.50 inches. Other severe hail reports ranged from 0.75 inches to 1.75 inches in diameter. Above normal temperatures persisted as cold air remained trapped in Canada.

### **May 12-14**

It was a quiet day on the twelfth as an upper level ridge was in place. Temperatures ranged from the low 80s in northwest Indiana counties to upper 80s in the south as warmer air filtered in. The next batch of large hail and damaging winds occurred in response to a strong upper level trough with its rising motion on the thirteenth. In addition to the severe weather heavy rainfall fell across much of the central and southern portions of the state. A few local areas received 2-4 inches of rain. The cold front moved through on the fourteenth and began a period of cooler weather. Due to additional rainfall on the fourteenth with the cold frontal passage, Jackson county experienced lowland flooding while many rivers in the southern portions of the state experienced high river levels.

### **May 15-18**

A major weather pattern shift occurred that was quite different from the previous week. Temperatures cooled to below normal. A tranquil pattern took hold with the state receiving little precipitation as high pressure dominated.

### **May 19-23**

The final batch of severe weather for the month in Indiana occurred on the nineteenth of May and affected the southern and western parts of the state. Mainly wind damage occurred with a few hail reports as well. Most of the hail reports were less than an inch in diameter. Some of the northern counties received a half-inch of rainfall while down to the south around an inch of rain fell. Localized areas received higher rainfall amounts causing flash flooding to occur in parts of Morgan, Monroe, Brown, and Bartholomew Counties. Brown County had to shut down schools on the 20th due to flooding of roadways. The pressure system that was the culprit of the severe weather included a mid atmospheric closed low and an occluding front at the surface. On the twenty-second there was a short break from the rain before the next short wave brought in precipitation to the region. Temperatures warmed into the 70s across the area.

### **May 24-26**

A ridge of high pressure over the state kept most of the precipitation away with only a few showers in the eastern half of the state. Temperatures remained steady in the 70s.

### **May 27-31**

Weak cold fronts moved through on the twenty-seventh and twenty-eighth, however little temperature change occurred with these systems. Temperatures at a few locations in the southern part of the state rebounded and hit the 80 degree mark while the rest of the state enjoyed the 70s. A stationary front brought a few showers to the midsection of the state on the thirtieth. The last few days of May were drier than normal with an average 0.22 inches of rainfall across Indiana. Normally the end of May is wet with 0.76 inches of average rainfall.

### Temperature

| Region        | Average | Normal | deviation |
|---------------|---------|--------|-----------|
| Northwest     | 58.7    | 60.8   | -2.1      |
| North central | 57.7    | 60.3   | -2.5      |
| Northeast     | 56.8    | 59.8   | -3.1      |
| West central  | 60.2    | 62.3   | -2.0      |
| Central       | 59.2    | 61.7   | -2.5      |
| East central  | 58.2    | 60.8   | -2.6      |
| Southwest     | 63.2    | 64.6   | -1.4      |
| South central | 61.8    | 63.9   | -2.1      |
| Southeast     | 60.1    | 63.0   | -2.9      |
| State         | 59.7    | 62.0   | -2.3      |

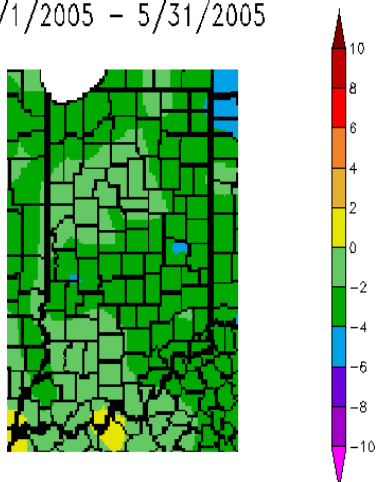
### Precipitation

| Region          | Total                   | Normal | deviation | percent of normal |
|-----------------|-------------------------|--------|-----------|-------------------|
| Northwest       | 1.57                    | 3.98   | -2.41     | 39                |
| North central   | 1.69                    | 3.85   | -2.16     | 44                |
| Northeast       | 1.87                    | 3.78   | -1.91     | 49                |
| West central    | 2.69                    | 4.38   | -1.68     | 62                |
| Central         | 3.19                    | 4.40   | -1.20     | 73                |
| East central    | 2.78                    | 4.31   | -1.53     | 65                |
| Southwest       | 3.29                    | 4.99   | -1.70     | 66                |
| South central   | 4.48                    | 5.00   | -0.52     | 90                |
| Southeast       | 3.53                    | 4.85   | -1.32     | 73                |
| State           | 2.81                    | 4.40   | -1.60     | 64                |
| Rank since 1895 | 21 <sup>st</sup> driest |        |           |                   |

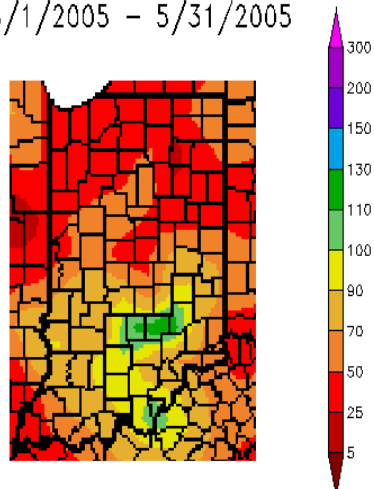
### Local extremes

|                    | Site      | Observed | Deviation | percent available data |
|--------------------|-----------|----------|-----------|------------------------|
| Low Precipitation  | Remington | 0.59     | -3.42     | 94                     |
| High Precipitation | Nashville | 7.80     | 3.00      | 61                     |

Departure from Normal Temperature (F)  
5/1/2005 - 5/31/2005



Percent of Normal Precipitation (%)  
5/1/2005 - 5/31/2005



**Spring Season  
March - May 2005**

**Temperature**

| <b>Region</b> | <b>Average</b> | <b>Normal</b> | <b>deviation</b> |
|---------------|----------------|---------------|------------------|
| Northwest     | 48.9           | 49.6          | -0.7             |
| North central | 48.1           | 49.0          | -0.9             |
| Northeast     | 47.4           | 48.5          | -1.2             |
| West central  | 50.7           | 51.5          | -.08             |
| Central       | 49.8           | 50.9          | -1.0             |
| East central  | 48.8           | 49.9          | -1.1             |
| Southwest     | 54.0           | 54.7          | -0.7             |
| South central | 52.9           | 54.1          | -1.2             |
| Southeast     | 51.5           | 53.1          | -1.6             |
| State         | 50.4           | 51.4          | -1.0             |

**Precipitation**

| <b>Region</b> | <b>Total</b> | <b>Normal</b> | <b>deviation</b> | <b>percent of normal</b> |
|---------------|--------------|---------------|------------------|--------------------------|
| Northwest     | 5.12         | 10.50         | -5.38            | 49                       |
| North central | 5.70         | 10.22         | -4.53            | 56                       |
| Northeast     | 5.94         | 9.96          | -4.01            | 60                       |
| West central  | 7.79         | 11.61         | -3.83            | 67                       |
| Central       | 9.33         | 11.59         | -2.26            | 80                       |
| East central  | 9.24         | 11.16         | -1.92            | 83                       |
| Southwest     | 9.51         | 13.66         | -4.15            | 70                       |
| South central | 11.22        | 13.59         | -2.37            | 83                       |
| Southeast     | 10.67        | 13.01         | -2.34            | 82                       |
| State         | 8.27         | 11.74         | -3.47            | 70                       |

**Annual-to-date  
January - May 2005**

**Temperature**

| <b>Region</b> | <b>Average</b> | <b>Normal</b> | <b>deviation</b> |
|---------------|----------------|---------------|------------------|
| Northwest     | 40.9           | 40.1          | 0.8              |
| North central | 40.1           | 39.7          | 0.4              |
| Northeast     | 39.3           | 39.3          | 0.1              |
| West central  | 43.2           | 42.1          | 1.2              |
| Central       | 42.7           | 41.7          | 1.0              |
| East central  | 41.6           | 40.8          | 0.8              |
| Southwest     | 47.7           | 45.9          | 1.8              |
| South central | 46.7           | 45.5          | 0.6              |
| Southeast     | 45.1           | 44.5          | 0.6              |
| State         | 43.2           | 42.3          | 0.9              |

**Precipitation**

| <b>Region</b> | <b>Total</b> | <b>Normal</b> | <b>deviation</b> | <b>percent of normal</b> |
|---------------|--------------|---------------|------------------|--------------------------|
| Northwest     | 13.13        | 14.05         | -0.92            | 93                       |
| North central | 14.53        | 14.07         | 0.47             | 103                      |
| Northeast     | 14.34        | 13.72         | 0.62             | 104                      |
| West central  | 18.05        | 16.06         | 1.99             | 112                      |
| Central       | 20.72        | 16.20         | 4.52             | 128                      |
| East central  | 19.49        | 15.60         | 3.89             | 125                      |
| Southwest     | 18.78        | 19.54         | -0.76            | 96                       |
| South central | 20.74        | 19.61         | 1.13             | 106                      |
| Southeast     | 19.83        | 18.82         | 1.02             | 105                      |
| State         | 17.83        | 16.46         | 1.37             | 108                      |