

# Central Indiana

## June 2015

### Climate Summary

*65<sup>th</sup> Warmest on record at Indianapolis*

*7<sup>th</sup> Wettest on record at Indianapolis*

#### Temperatures

After a cool first few days to the month, temperatures warmed quickly into the 80s as high pressure expanded across the region. Highs rose into the middle and upper 80s by the 7<sup>th</sup>. After a brief cool down on the 8<sup>th</sup> as a front passed through with rain and thunderstorms, highs returned into the 80s, then surged into the lower 90s for many locations from the 10<sup>th</sup> through the 12<sup>th</sup>. Highs would persist in the middle and upper 80s through the middle of the month.

The weather pattern became increasingly more unsettled for the second half of the month as a frontal boundary remained in the vicinity of the Ohio Valley and lower Great Lakes with multiple waves of low pressure riding along it. In addition, the remnants of Tropical Storm Bill tracked through the Ohio Valley on the 19<sup>th</sup> and 20<sup>th</sup>. These features resulted in more cloudy and stormy periods impacting various parts of central Indiana. Highs generally ranged anywhere from the upper 70s to middle 80s with lows predominantly in the 60s.

The arrival of an upper level trough for the last few days of the month ushered in cooler weather for the region. Highs on the 27<sup>th</sup> only rose into the lower and middle 70s, with lows falling into the 50s for the first time in three weeks in many locations. Highs returned to around 80 by the last day of June.

Site	June 2015 Avg Temp	June 2015 Difference from Normal	Highest Temperature	Lowest Temperature
Indianapolis	72.6	<b>+0.6</b>	90 on 10 and 11	49 on 2
Lafayette	70.2	<b>-1.3</b>	89 on 10 and 11	46 on 2 and 3
Muncie	71.2	<b>-0.2</b>	90 on 10 and 11	46 on 2
Terre Haute	72.9	<b>+0.5</b>	90 on 7 and 11	49 on 2 and 3
Bloomington	72.5	<b>+1.1</b>	90 on 11	47 on 3
Shelbyville	73.8	<b>+2.3</b>	93 on 11	48 on 3
Indy – Eagle Crk.	72.0	<b>-0.3</b>	90 on 11	48 on 2

At Indianapolis, there were 16 days with above normal average temperatures, 9 days with below normal average temperatures and 5 days with normal average temperatures.

June 2015 was the 65<sup>th</sup> warmest in the Indianapolis area since 1871.

## Precipitation

Rainfall totals in June reached historic levels in portions of northern Indiana. Monthly totals ranged from slightly over 4 inches in extreme north central Indiana to over 18 inches in portions of Jasper County in northwest Indiana. Totals in central and southern Indiana ranged from 5 inches in Marion County to over 13 inches in Greene County in southwest Indiana. About half of the state received more than twice the average rainfall for June. Precipitation during the month was normal to above normal for every location in the state.

For the Indianapolis area the monthly total of 8.36 inches was the 7<sup>th</sup> wettest June of record and the wettest June since 2010. For Fort Wayne, the monthly total of nearly 12 inches in June surpassed the previous monthly record set in July 1986 by almost an inch.

After beneficial rains at the end of May, much of Indiana was dry for the first 6 days of June. Beginning on the afternoon of the 7<sup>th</sup> and continuing the remainder of the month, various storm systems brought at times torrential rains to parts of the state. On the 7<sup>th</sup> rains of 2 to more than 6 inches fell in portions of east central Illinois and west central and northwest Indiana.

A series of storms from the 12<sup>th</sup> through the 18<sup>th</sup> dropped 4 to more than 8 inches of rainfall in northern Indiana. Quickly following, the remnants of tropical storm Bill brought 3 to nearly 8 inches of rain on the 19<sup>th</sup> and early on the 20<sup>th</sup> to previously dry southern Indiana. The last widespread rains of the month were the result of a developing low

pressure area that moved through the state on the 26<sup>th</sup> and early on the 27<sup>th</sup>. Much of the state along and north of I-70 received 2 to 5 inches of rain.

Rainfall of this magnitude brought major river flooding to portions of northern Indiana and significant river flooding to the Tippecanoe, Mississinewa and the Wabash Rivers. River flooding began in western Indiana on the 8<sup>th</sup> and continued into July. This was the worst river flooding for late June and early July in 12 to 17 years or longer for many areas.

Site	June 2015 Precipitation	June 2015 Difference from Normal	Wettest Day	Longest Dry Stretch
Indianapolis	8.36	<b>+4.11</b>	1.90 on 8	6 days 2-7
Lafayette	7.66	<b>+3.56</b>	1.81 on 7	6 days 1-6
Muncie	7.69(*)	<b>+3.03</b>	2.29 on 19	5 days 2-6
Terre Haute	7.64(**)	<b>+3.20</b>	1.78 on 19	4 days 9-12
Bloomington	10.57	<b>+5.68</b>	3.52 on 19	3 days 2-4, 9-11 and 22-24
Shelbyville	7.82	<b>+3.42</b>	1.22 on 8	6 days 2-7
Indy – Eagle Crk.	5.17	<b>+0.78</b>	1.07 on 26	6 days 2-7

June 2015 was the 7<sup>th</sup> wettest in the Indianapolis area since weather records began in 1871.

(\*) Precipitation missing at Muncie 6/26 and 6/27

(\*\*) Precipitation missing at Terre Haute 6/26 and 6/27

## Severe Weather

After a dry first week to the month, strong to severe thunderstorms impacted central Indiana periodically throughout the remainder of June as the Ohio Valley remained in a generally unsettled weather pattern. The remnants of Tropical Storm Bill moved across the southern half of Indiana on the 19<sup>th</sup> into the early part of the 20<sup>th</sup>. A few funnel clouds were observed on the afternoon of the 19<sup>th</sup> across far southern portions of central Indiana.

Some of the most significant wind damage from storms during the month occurred during the early morning of the 21<sup>st</sup> as intense storms moved into central Indiana from the west. Widespread tree and structure damage occurred in Tipton where maximum wind gusts were estimated at around 80 mph. Additional significant tree damage occurred over Attica, Lafayette, and across portions of Hamilton, Madison and Delaware Counties. A 70 mph wind gust was measured in Zionsville.

Strong thunderstorms producing torrential rainfall on the 26<sup>th</sup> into the morning of the 27<sup>th</sup> produced severe flash flooding in Muncie with multiple water rescues. Two individuals perished near Noblesville when their automobile hit high water on a road and crashed. Several kayakers needed to be rescued from swift moving waters on area streams on the 28<sup>th</sup>. In addition, an individual was swept away on a rain-swollen Coal Creek in Fountain County on the 13<sup>th</sup>.

For information on severe weather in other areas during June, visit the Storm Prediction Center "Severe Weather Event Summaries" website at <http://www.spc.noaa.gov/climo/online/>.

## Miscellaneous

The maximum wind gust at the Indianapolis International Airport was 50 mph from the southwest on the afternoon of the 18<sup>th</sup> as strong thunderstorms moved through the Indianapolis metro area. Fog or haze was reported at Indianapolis on 19 days this month. Thunder was reported at Indianapolis on 12 days in June.

## July 2015 Outlook

The official outlook for July 2015 from the Climate Prediction Center indicates a greater chance of below normal temperatures across central Indiana. At Indianapolis, the average temperature for the month is 75.4 degrees. A much greater chance of above normal precipitation exists, especially across the southern half of central Indiana. The average precipitation for July at Indianapolis is 4.55".

***Data prepared by the Indianapolis Forecast Office.***