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## Indiana State Climate Office

### Monthly Weather Report



<http://www.iclimate.org>

**May 9, 2016**

## April 2016 Climate Summary

### Month Summary

One month but two seasons. The first half of April was cold with snow. Wind damage was noted on April 2<sup>nd</sup> and 6<sup>th</sup>. Cold temperatures on April 9<sup>th</sup> caused minor freeze damage to early fruit and winter wheat. Spring finally sprung the second half of the month with warmer days but with multiple severe weather events. Tornadoes in Greene and Vanderburgh counties struck on April 26<sup>th</sup>. Lightning likely set two homes on fire. Hail and wind damage were widespread. Two vehicles required water rescues in Vanderburgh county the next day. Another tornado occurred on April 28<sup>th</sup> in Boone county. There were no deaths in these tornadoes. April extremes balanced to render this month slightly above normal in both temperature and precipitation.

Its 52.0°F state average temperature was just 0.6°F above normal, an April surprisingly close to normal despite the long spells of cold and warm. This was the 50<sup>th</sup> warmest April on record yet only three ApriIs since 2000 had colder average temperature: 2007, 2009, and 2013! The warmest April in Indiana record books was in 1896 with its 57.8°F state average. The day split in April 2016 was 15 days of below normal temperature, 14 days above normal, and 1 day at normal. There were 3 days when the state temperature was at least 10°F above normal and 2 days at least 10°F or more below normal. The highest temperature of the month was 91°F recorded on April 17<sup>th</sup> at Myers Lock and Dam. The lowest temperature was 16°F at Wanatah 2wnw on April 14<sup>th</sup>.

The April state precipitation average was 4.26", which is 0.32" above normal, and the 45<sup>th</sup> wettest April on record. Recent ApriIs have been wet. Consider the 5.73" state average in 2014, the 14<sup>th</sup> wettest April, which barely lags the 5.74" number set in 2009, good for the 13<sup>th</sup> spot. In 6<sup>th</sup> place is the 6.38" state average set in 2013. The wettest April on record happened in 2011 with a hefty 9.61" state average precipitation! The highest single day precipitation among cooperative stations in April 2016 was 2.58" on April 28<sup>th</sup> at Leavenworth 2nw. The highest among CoCoRaHS stations was 2.87" that same day at station Milltown 5.7sse. The highest monthly precipitation in the cooperative network was 6.91" collected by the Indianapolis NWS office. In the CoCoRaHS network the highest monthly total was 7.97" summed at Bedford 8.6nnw. Widespread precipitation fell on about 15 days this month.

Regionally April 2016 precipitation was near 95% of normal in northern Indiana, 110% in central counties, and about 115% of normal in the south. Normal April precipitation ranges from 3.5" in northeast Indiana to 4.5" in the southwest corner of the state.

The highest monthly snow total in the cooperative network was 10.7" at Kendallville. In the CoCoRaHS network the most was 11.4" at Woodburn 2.8wsw. The highest daily snowfall in the

cooperative network was 9.1" measured on April 10<sup>th</sup> in Kendallville. A 11.0" daily amount was noted a day earlier at Woodburn 2.8sw in the CoCoRaHS network. There was just 1 day when snow was observed generally in several counties.

### **April 1<sup>st</sup> – 9<sup>th</sup>**

The calendar had flipped to April, the first full month of spring, but winter refused to leave. Snow fell in Indiana on 4 of the first 9 days of the month. April 1<sup>st</sup> fooled us all as temperatures the next 8 days were all below normal after a very mild March. While temperatures trended colder almost day by day, precipitation was above normal in the north and slightly less than normal in central and southern Indiana.

The weather pattern was very active to start April with a steady parade of fronts into or near Indiana. In the upper atmosphere the jet stream tapped into a supply of cold Canadian air, pipelining chilly temperatures to Indiana.

On April 1<sup>st</sup> Indiana began sunny, located between two cold fronts. This day would become the warmest of the 9 day interval at 2°F above normal. The next day a cold front in Wisconsin stalled into a stationary front as part of a slowing, intensifying storm system. The Indiana state temperature fell to 5°F below normal. A wedge of high pressure burst southward behind a new cold front into Indiana on April 3<sup>rd</sup>. Meanwhile the stalled storm retreated west into Minnesota. There was little change in Indiana temperature that day.

The Minnesota low traveled to Ohio the next day, dragging a brief warm front across Indiana followed by a cold front. The state temperature fell a few more degrees to 7°F below normal. On April 5<sup>th</sup> high pressure out of Manitoba settled overhead Indiana. Light winds and clear skies tugged the temperature down another degree to 8°F below normal.

The Indiana high center drifted east to the Atlantic coast the next day, allowing a warm wind backflow to begin. The state temperature rose briefly to 1°F below normal.

Temperatures the remainder of the 9 day interval reversed and resumed their slide to colder weather. On April 7<sup>th</sup> a strengthening low pressure system passed north of Indiana into Canada, dragging an occluded front, then a cold front, through the state. Colder air behind the storm lowered the state temperature to 5°F below normal. Cold continued pouring into Indiana the next day as the intense storm raced into northeast Canada. The state temperature plummeted to 10°F below normal.

Yet another two cold fronts passed through Indiana on April 9<sup>th</sup>, reinforcing the cold and ending the 9 day interval at 12°F below normal, the coldest day. Mostly clear skies that morning with light winds allowed very cold temperatures to cause minor scattered freeze damage to winter crops in central and southern Indiana that had awoken earlier to a much warmer than normal March.

Over the 9 day interval the state temperature averaged to 6°F below normal. More typical of early April are daily maximum temperatures which vary from 55°F in far northern Indiana to 64°F in the southwest corner of the state. Daily minimums normally range between 35°F and 41°F north to south across the state. The warmest temperature of the interval among cooperative network stations

was 73°F at Vincennes 5ne on April 1<sup>st</sup>. The coolest temperature among stations in that same network was 18°F at South Bend Airport on April 5<sup>th</sup> and at Perrysville 4wnw on April 3<sup>rd</sup>.

Snowfall was measured on the mornings of April 3<sup>rd</sup>, 5<sup>th</sup>, 8<sup>th</sup>, and 9<sup>th</sup>, and fell generally northeast of a Lowell to Liberty line with little to no snow elsewhere. Up to 3" was seen in the Plymouth, Elkhart, and Angola areas. The heaviest single day amounts in the CoCoRaHS network were recorded on the coldest day, April 9<sup>th</sup>, and included 2.3" near Bremen, 1.9" in Laporte and Lagrange, and 1.8" just outside Plymouth and Muncie. Over the 9 days the largest snow totals included Plymouth at 2.3", the vicinity of Angola with 2.2", 1.9" in Laporte, and 1.8" collected by two volunteers in Yorktown.

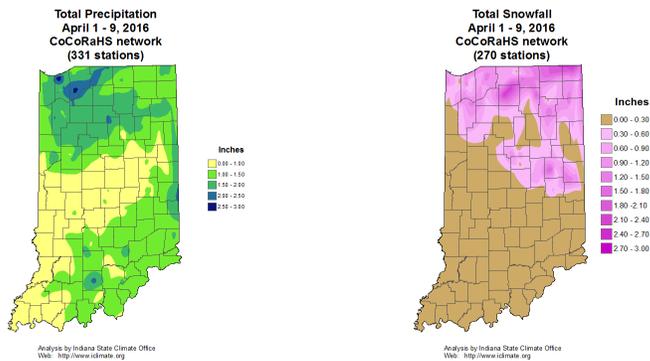
Rain occurred on all 9 days, even on days when snow also fell. Most daily amounts were quite light but moderate rain was noted on April 1<sup>st</sup> and 7<sup>th</sup>. Among CoCoRaHS stations 1.70" and 1.64" of precipitation were caught in the gages of two observers in Hanna on April 7<sup>th</sup>. That same day 1.69" and 1.52" were measured by two observers near Wanatah. Macy noted 1.49" that morning. Over the 9 days the Wanatah location tallied 3.10" and Paoli had 2.37". Two observers had 2.25" near Macy and Richmond. A Porter observer had 2.22" of precipitation.

On the weekly precipitation map northwest counties received the most. At least 2" fell in Porter, Laporte, and St. Joseph counties. More than an inch was measured mostly north of an Attica to Bluffton line and southeast of a Richmond to Spencer to Tell City line. Mostly less than an inch fell elsewhere. Precipitation fell generally statewide on April 1<sup>st</sup>, 7<sup>th</sup>, 8<sup>th</sup>, and 9<sup>th</sup>. Regionally over 9 days about 1.6" was reported across northern Indiana, 1.0" in central, and 0.8" in the south. These amounts equate to about 150% of normal in the north, 80% across central counties, and 70% of normal in southern Indiana.

April 2<sup>nd</sup> was a very windy day with gust damage reported in 13 counties, mostly in central and west central Indiana. Wind gusts peaked to 65 mph in some areas. Affected counties were Tippecanoe, Vermillion, Boone, Marion, Johnson, Hamilton, Putnam, Knox, Clinton, Hendricks, Delaware, Madison, and Morgan.

Fallen trees were noted in 11 counties and were the most common trigger to follow up damage. Trees blocked roads in Vermillion and Hamilton counties while also ripping down power and utility lines in Knox, Boone, Madison, Marion, and Tippecanoe counties. In Tippecanoe county 1600 homes lost power in the southern part of the county. Siding was peeled off buildings in Vermillion county. In Johnson county whole fence sections were ripped down and shingles blown off rooftops there and in Hendricks county. Roofing was torn off a church in Hamilton county. In Clinton county a street light and large sign were blown down.

Another round of high winds struck on April 6<sup>th</sup> in southwest Indiana. Wind gusts were measured to 60 mph in Vanderburgh county. Power outages due to downed lines were the most common complaint. In Posey county large limbs were blown down.



## April 10<sup>th</sup> – 16<sup>th</sup>

The active weather pattern of last week ended April 11<sup>th</sup> in Indiana. A strong ridge over New England sprawled south and east over the eastern half of the country, blocking storms from crossing the Mississippi River the remainder of the week. Snow, rain, and unusual cold departed Indiana by mid-week leading to much warmer and drier weather to wrap up the week.

High pressure stretched from Canada to Florida along the Atlantic coast on April 10<sup>th</sup>. The Indiana state temperature stood at 3°F below normal. A southerly wind flow west of this Atlantic ridge had little time to warm up Indiana. A Nebraska storm system moved to Lake Superior the next day. Its warm front, then its cold front, raced through Indiana ahead of the slower storm core. The state temperature remained at 3°F below normal. High pressure from central Canada dove into Iowa and spread east on April 12<sup>th</sup>, settled overhead Indiana, cleared skies, and cooled the ground to subfreezing levels. State temperatures dipped to their lowest level of the week at 9°F below normal.

The arrival of this ridge would mark a change in weather pattern from a cold start to April to a warmer and drier trend. On April 13<sup>th</sup> the ridge traveled to Quebec, setting up a return flow of warmer air to Indiana. The state temperature started to climb, reaching 6°F below normal. The Quebec ridge moved little on April 14<sup>th</sup>, blocking the next storm system in South Dakota from advancing eastward. Indiana temperatures continued warming to 1°F below normal with no precipitation. The Quebec ridge spilled south down the Atlantic coast and edged west toward Indiana. The South Dakota storm system yielded and retreated west, keeping Indiana dry and temperatures rising to 5°F above normal. The Atlantic ridge continued strengthening and by April 16<sup>th</sup> it dominated the east half of the country. Indiana temperatures continued warming, peaking at 9°F above normal to end the week as its warmest day.

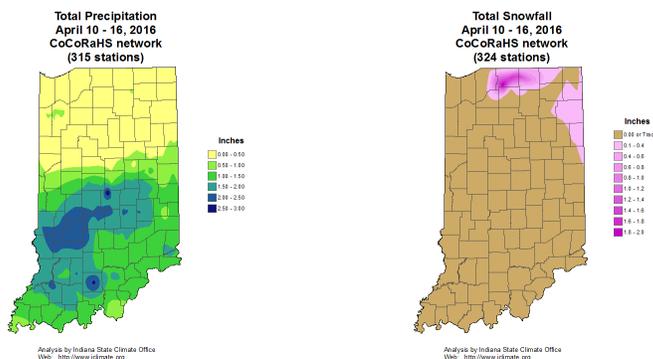
Overall for the week the state temperature averaged to 1°F below normal. Usually by mid-April the Indiana daily maximum temperature should range between 59°F and 67°F north to south across the state. Daily minimums normally vary from 38°F in far northern Indiana to 44°F in the far southwest corner of the state. The warmest temperature of the week among cooperative network stations was 81°F at Shoals on April 16<sup>th</sup>. The coolest temperature among stations in this same network was 16°F at Wanatah 2wnw on April 14<sup>th</sup>.

Precipitation fell the first half of the week while none fell later on. Snow was observed only on April 10<sup>th</sup> in a few northern counties, primarily St. Joseph, Elkhart, Lagrange, DeKalb, and Adams. Amounts ranged from just 0.1” in northeast Indiana up to 2.0” in the vicinity of South Bend.

Rain was measured each day April 10<sup>th</sup> – 13<sup>th</sup>, falling statewide on April 11<sup>th</sup>, and on all but the northwest on April 12<sup>th</sup>. The heaviest single day amounts measured in the CoCoRaHS network on April 11<sup>th</sup> included 1.83” near West Terre Haute, 1.62” in the vicinity of Bedford, and 1.50” outside Cloverdale. The next day Paoli had 1.71” and the volunteer at Stendal recorded 1.56”. The heaviest weekly totals included 2.79” near Indianapolis, 2.39” at Paoli, 2.24” outside Spencer, 2.21” near to Jasonville, and 2.20” south of Indianapolis.

On the precipitation map generally more than 1” fell south of a Marshall to Anderson to Winchester line. At least 2” was noted inside a Terre Haute to Indianapolis to Bloomington to Vincennes box. Regionally about 0.5” was collected across northern Indiana, 1.3” in central counties, and 1.5” across the south. These amounts equate to about 50% of normal in the north, 130% in the central section, and 140% of normal in southern Indiana.

Temperatures well below freezing the mornings of April 9-11 caused minor freeze damage to wheat and fruit trees in central and southern Indiana. Throughout the south some early peach varieties and apricots were nipped by the cold. Crops had not advanced enough in northern Indiana despite the warm March to be impacted. Some freeze damage to ornamentals was reported in northwest Indiana.



## April 17<sup>th</sup> – 23<sup>rd</sup>

A strong expansive ridge of high pressure that reached from ground level into the upper atmosphere dominated weather in the east half of the country as the week began. The ridge blocked storms from crossing the Mississippi River into Indiana. The ridge collapsed little by little, day by day, until April 21<sup>st</sup> when it was forced out into the Atlantic. Storms were unblocked and resumed their journey to the east to finish out the week. A week long cooling trend in Indiana temperature mirrored the collapse of the ridge. So did the dry first half of the week followed by a wet second half of moderate rainfall. Minor wind damage was reported in Hendricks county on April 21<sup>st</sup>.

On April 17<sup>th</sup> the state temperature stood at 12°F above normal. A very large warm air mass sector covered the east half of the country, supported by a large ridge. A slow gradual collapse of the ridge began the next day. To its north a stationary front drifted south into Wisconsin, linked to its main low pressure center in South Dakota. From this center the western edge of the ridge was marked by another stationary front that extended south into Texas. The Indiana state average temperature was 11°F above normal.

The ridge collapse continued on April 19<sup>th</sup>. Fronts originating from the South Dakota low lapped themselves into an occluded front. A new core low emerged in Iowa and formed a cold front across northern Indiana. A second cold front in Missouri marked the west edge of the shrinking eastern ridge. The Indiana temperature slid a bit colder to 9°F above normal. On April 20<sup>th</sup> the Indiana front reached the Ohio River but stalled there. The eastern ridge was now half its original size and confined to the southern states.

The western front reached Illinois on April 21<sup>st</sup>. Meanwhile in the upper atmosphere a strong cutoff low pressure center had migrated from Colorado to Iowa. The torque of the upper low aided a brief resurgence of warm air, pulling a front north through Indiana just ahead of the Illinois cold front. Rain fell across Indiana with the passage of the warm front, cooling the air and maintaining the downward trend in state temperature to 6°F above normal for the day.

By April 22<sup>nd</sup> the center of the old ridge had finally moved offshore into the Atlantic. The ridge collapse was complete. High pressure in the Yukon took control of Indiana weather, thrusting the cold front which had marked the west edge of the old ridge through Indiana. More rain fell as the state temperature dropped to 4°F above normal.

The next day the Yukon ridge sprawled east to Hudson Bay, clearing all fronts out of the Midwest and sending them to the Atlantic coast. Rain ended in Indiana with the departure of the fronts. The state temperature wrapped up the week at 1°F above normal.

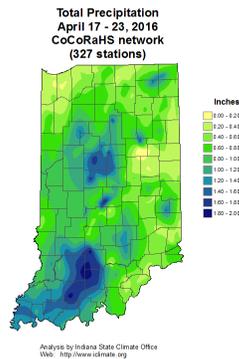
Overall for the week the state temperature averaged to 7°F above normal. Typically at this point in April the daily maximum temperature should spread from 61°F in far northern counties to 69°F in far southwest Indiana. Daily minimums normally vary between 40°F and 46°F north to south across the state. The warmest reported temperature in the cooperative station network this week was 87°F at Brookville on April 19<sup>th</sup>. The coolest temperature among stations in this same network was 32°F at Laporte on April 23<sup>rd</sup>.

The first half of the week was dry as high pressure kept fronts away from Indiana. Rain was measured every day later in the week after the ridge left the Midwest. Rain was recorded statewide on April 21<sup>st</sup> and 22<sup>nd</sup>, then south of a Vincennes to South Bend line in the morning reports of April 23<sup>rd</sup>. The heaviest single day amounts in the CoCoRaHS network were noted on April 22<sup>nd</sup> with 1.76" collected by a Huntingburg observer. Near Macy 1.51" was observed while the Shoals volunteer had 1.48" and 1.46" fell outside Lebanon that day. For the week 1.99" was summed near Shoals and the Huntingburg gage tallied 1.93". The total near Speedway was 1.83" while 1.82" was caught near Kokomo.

On the state precipitation map the areas of heaviest rainfall occurred in central and south central Indiana while the lightest totals were generally in the northwest and east central parts of the state.

Regionally about 0.6” fell across northern Indiana this week while 0.8” was noted in central areas with 1.0” in the south. These amounts equate to about 80% of normal in the northern third of the state and 90% of normal in central and southern Indiana.

A lone severe weather report came in from Hendricks county on April 21<sup>st</sup> where tree limbs were downed by wind gusts in heavy rain.



## April 24<sup>th</sup> – 30<sup>th</sup>

Warmth the first half of the week gave way to near normal temperatures as April drew to a close. A few days of dry weather to start the week led into 5 consecutive days of rainfall. Statewide coverage was observed only on April 28<sup>th</sup>. Severe weather ramped up this week with 3 confirmed tornadoes on April 26<sup>th</sup> and 28<sup>th</sup> along with hail, wind gust, and lightning damage.

A large sector of warm air blanketed the east half of the country on April 24<sup>th</sup>, courtesy of strong high pressure over the southeast states. The Indiana state temperature was set at 5°F above normal. The ridge traveled to the Atlantic coast the next day, allowing a stationary front to drift south through Michigan and a cold front to wander east into Iowa. The Atlantic ridge began to yield its territory to a Canadian high center advancing south from Hudson Bay. Indiana remained in the warm sector and its state temperature rose to 10°F above normal.

The Michigan stationary front continued sinking south into central Indiana on April 26<sup>th</sup>. The state temperature changed little to 9°F above normal. Yet the instability of the air mass south of the front induced two tornadoes in southwest Indiana that evening, an EF-0 in Greene county and an EF-1 in Vanderburgh county. On April 27<sup>th</sup> the Atlantic ridge was in retreat as the Hudson Bay ridge spread into the Great Lakes, nudging the stationary front south of the Ohio River. Temperatures cooled in Indiana, returning to normal.

A storm center in Nebraska moved to Iowa on April 28<sup>th</sup>. The fronts with this mature storm occluded and its energy transferred to a new low center in Illinois. The wind circulation around this new storm tugged the Kentucky stationary front back north into central Indiana. The state temperature bumped to 2°F above normal that day. Conditions were ideal once again for the

outbreak of severe weather. The third tornado of the week, an EF-1, touched down in Boone county.

The Hudson Bay ridge expanded again on April 29<sup>th</sup>. The Illinois storm had moved to West Virginia. The old stationary front in Indiana morphed into a cold front and tracked south into Tennessee. This removed the threat of more severe weather in Indiana as the state temperature cooled to 1°F below normal. The next day a new storm in Texas traveled to Kansas. The storm slowed the Tennessee cold front and reversed its direction to become a warm front. Moisture overran this front and spilled to its north into Indiana, ending April in southern Indiana with a wet day and the state temperature at 2°F below normal, the coolest day of the week.

Over the 7 days the state temperature averaged to 3°F above normal. Usually near the end of April the daily maximum temperature should range between 64°F and 71°F north to south across the state. The typical daily minimum temperature should vary from 43°F in far northern Indiana to 48°F in the southwest corner of the state. The warmest temperature in the state this week among cooperative network stations was 86°F at Boonville 1s on April 26<sup>th</sup>. The coolest temperature in that same network was 36°F at Woodburn 3n on April 24<sup>th</sup> and at Shoals 5s on April 29<sup>th</sup>.

Rain fell every day somewhere in Indiana according to the CoCoRaHS reports of April 26<sup>th</sup> – 30<sup>th</sup>. Only on April 28<sup>th</sup> was precipitation observed statewide and on that day rainfall was also the heaviest. Among CoCoRaHS readings that day 2.87” and 2.31” were collected in the rain gages of two volunteers outside Milltown in far southern Indiana. The Cannelton observer measured 2.41” while the Leopold gage had captured 2.02”. For the week the Milltown gages accumulated 3.38” and 3.01” while Bloomington summed to 3.13”. In Boonville 3.03” was tallied and in Leopold 2.65” had fallen.

On the weekly precipitation map less than 1” was common across the north half of the state. Less than a half inch was noted in northwest Indiana. The heaviest totals were between 2.0” and 3.5” along the Ohio River and in the Greencastle and Bloomington areas. Regionally about 0.7” of rain was recorded in northern Indiana, 1.2” in central sections, and 1.8” across the south. These amounts equate to about 90% of normal in the north, 150% of normal in central Indiana, and 180% of normal across the southern third of Indiana.

Severe weather erupted across the southern half of Indiana on April 26<sup>th</sup>. Hail was reported mostly in southeast Indiana and wind damage in counties bordering the Ohio River. Two tornadoes were confirmed, one in Greene county and a second in Vanderburgh county.

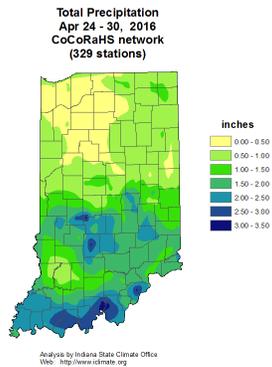
The Greene county tornado touched down near Worthington. This tornado was rated an EF-0 with winds up to 85 mph with a short path length of just 0.1 mile. The tornado damaged several barns but little else. Witnesses noted some debris scattered in the vicinity. No injuries occurred.

The Vanderburgh county tornado was stronger, rated an EF-1 with winds to 100 mph. The tornado path length was much longer at 7.5 miles. There were dozens of trees uprooted by this tornado. Utility poles were toppled and damaged 8 buildings. A metal roof was peeled off one building. There was other minor damage to homes and fences along with many broken tree limbs. Seven power poles were snapped and 2 street poles were bent. Two homes were set on fire by lightning strikes. There were no injuries with this tornado.

Thunderstorms in central and southern Indiana produced 1.00” hail in Morgan, Johnson, Fayette, Jefferson, Pike, and Vanderburgh counties. Hail to 1.50” in diameter was reported in Decatur county. Wind damage occurred along the Ohio River. Wind gusts destroyed a grain bin and blew a tree onto a road in Gibson county. In Floyd county a pole barn was flattened. Winds to 60 mph snapped 3 trees in Vanderburgh county. Trees fell on power lines and caused power outages in Perry, Harrison, and Scott counties. In some counties fallen trees caused little other damage including in Dubois, Crawford, and Clark counties. Limbs were reported down in Fayette county.

Early on April 27<sup>th</sup> two vehicles were reported submerged in Evansville. Water rescues were required for these vehicles and a few others in that same area. Reports of isolated tree damage were taken in Crawford county due to high winds there.

On April 28<sup>th</sup> a confirmed EF-1 tornado touched down in Boone county. A barn was destroyed and its debris thrown onto houses in its 100 mph winds. Other affected property included 2 homes and a metal barn which suffered significant damage. There was fencing and many trees ripped down. There were no injuries reported in this tornado. A lone report of a tree down due to high winds was noted in Wayne county. Hail up to 1.75” was reported in Rush county and in Dearborn county 1.50” diameter hail was seen.



## April 2016

<b>Region</b>	<b>Temperature</b>	<b>Temperature</b>	
		<b>Normal</b>	<b>Deviation</b>
Northwest	48.9	49.5	-0.5
North Central	48.5	48.9	-0.4
Northeast	48.0	48.5	-0.4
West Central	52.2	51.5	0.7
Central	52.0	50.9	1.2
East Central	51.1	49.9	1.2
Southwest	56.0	54.9	1.1
South Central	55.5	54.2	1.3
Southeast	54.6	53.1	1.4
<b>State</b>	52.0	51.4	0.6

<b>Region</b>	<b>Precipitation</b>	<b>Precipitation</b>		
		<b>Normal</b>	<b>Deviation</b>	<b>Percent of Normal</b>
Northwest	3.30	3.60	-0.30	92
North Central	3.53	3.59	-0.05	99
Northeast	3.32	3.47	-0.16	95
West Central	4.29	3.88	0.41	111
Central	4.73	3.91	0.82	121
East Central	3.70	3.78	-0.08	98
Southwest	5.11	4.45	0.66	115
South Central	5.03	4.42	0.61	114
Southeast	4.80	4.21	0.59	114
<b>State</b>	4.26	3.94	0.33	108

## Spring so far (March - April)

Region	Temperature	Temperature	
		Normal	Deviation
Northwest	46.6	43.9	2.7
North Central	46.1	43.3	2.8
Northeast	45.8	42.8	3.0
West Central	49.8	46.0	3.8
Central	49.7	45.4	4.4
East Central	49.0	44.4	4.6
Southwest	53.2	49.7	3.4
South Central	52.8	49.1	3.6
Southeast	51.9	48.1	3.8
<b>State</b>	49.5	46.0	3.6

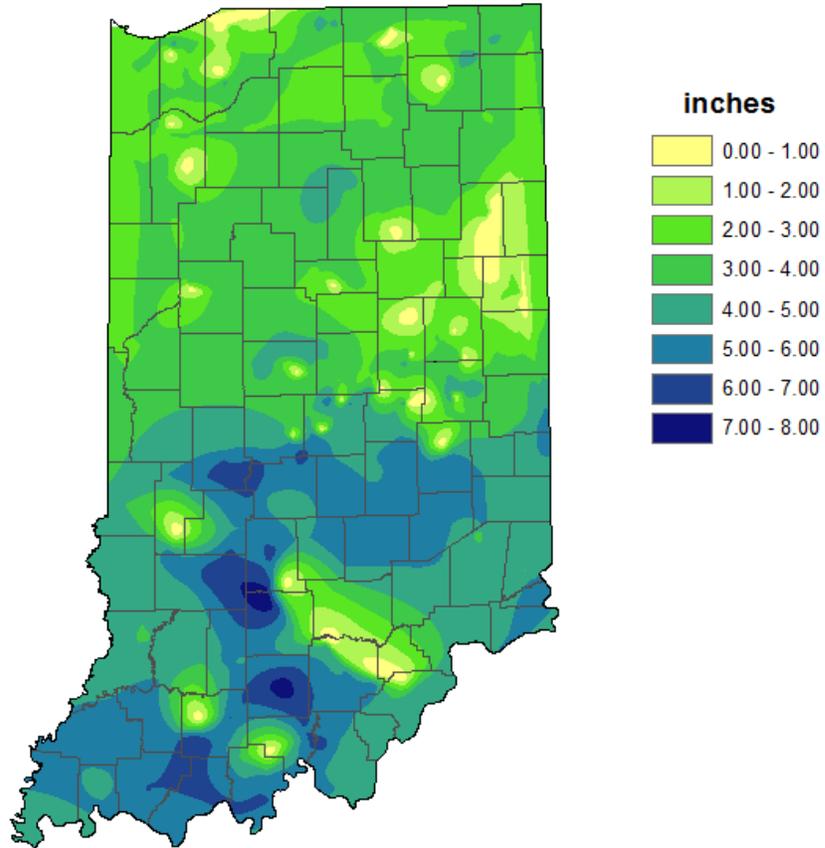
Region	Precipitation	Precipitation		
		Normal	Deviation	Percent of Normal
Northwest	7.20	6.52	0.68	110
North Central	7.13	6.37	0.76	112
Northeast	6.97	6.18	0.79	113
West Central	8.29	7.23	1.06	115
Central	9.33	7.19	2.14	130
East Central	8.79	6.85	1.93	128
Southwest	10.55	8.68	1.88	122
South Central	10.86	8.59	2.28	126
Southeast	9.73	8.16	1.57	119
<b>State</b>	8.83	7.34	1.49	120

## 2016 Annual so far (Jan - Apr)

Region	Temperature		
	Temperature	Normal	Deviation
Northwest	37.2	34.7	2.4
North Central	36.9	34.4	2.6
Northeast	37.0	34.0	3.0
West Central	39.9	36.8	3.1
Central	40.1	36.5	3.6
East Central	39.4	35.6	3.7
Southwest	43.5	41.1	2.4
South Central	43.2	40.7	2.5
Southeast	42.4	39.7	2.7
<b>State</b>	40.0	37.2	2.9

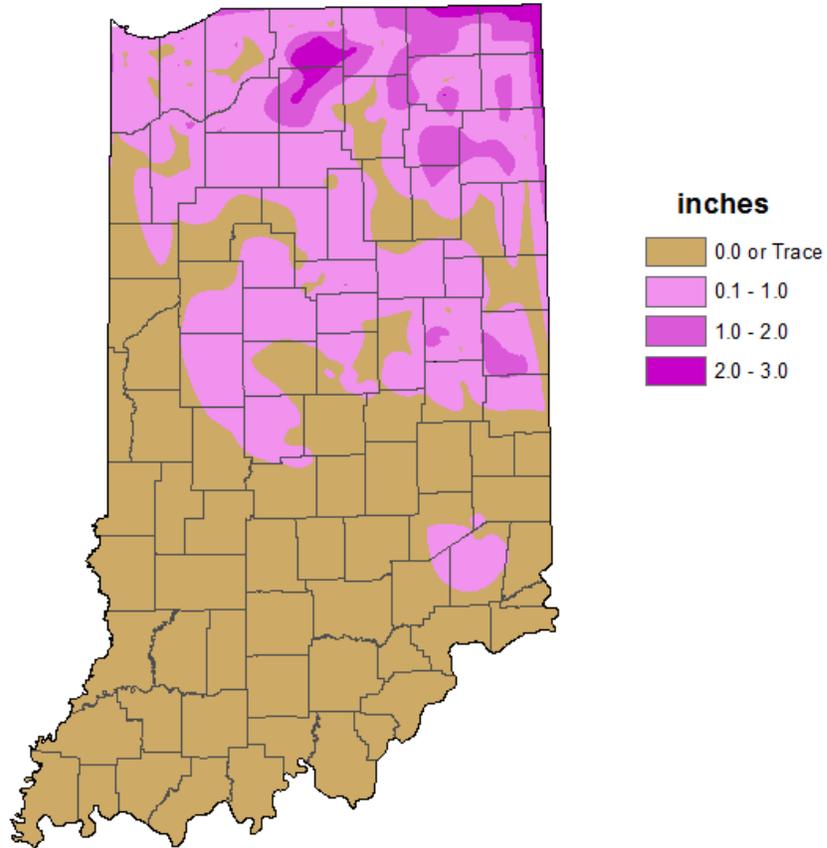
Region	Precipitation			
	Precipitation	Normal	Deviation	Percent of Normal
Northwest	9.95	10.11	-0.16	98
North Central	10.13	10.24	-0.11	99
Northeast	9.96	9.96	0.00	100
West Central	11.32	11.68	-0.36	97
Central	13.77	11.81	1.96	117
East Central	13.28	11.30	1.98	118
Southwest	15.93	14.55	1.37	109
South Central	17.01	14.61	2.40	116
Southeast	15.79	13.97	1.82	113
<b>State</b>	13.06	12.06	0.99	108

**Total Precipitation  
April 2016  
CoCoRaHS network  
(325 stations)**



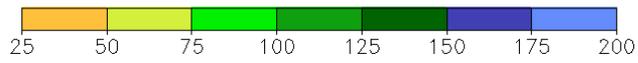
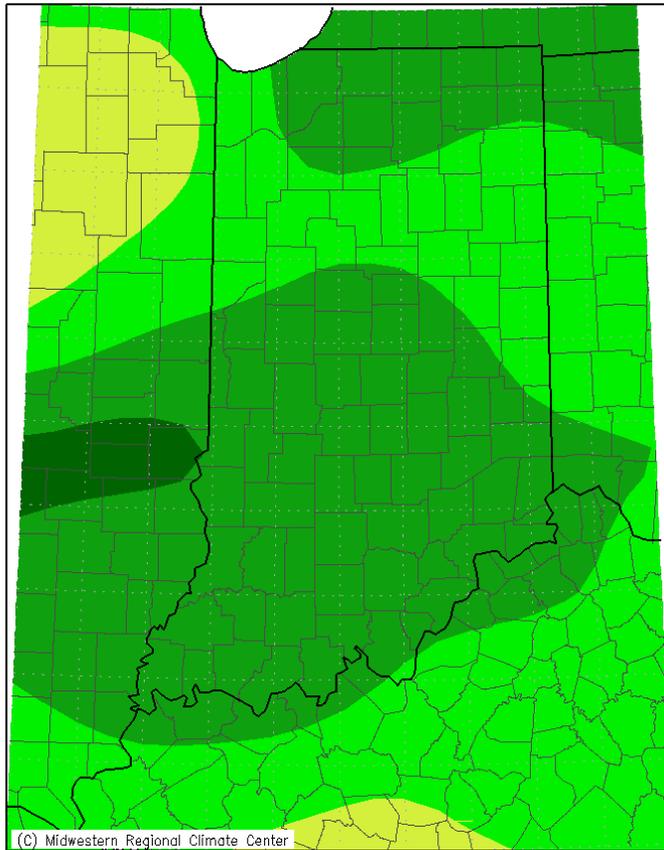
Analysis by Indiana State Climate Office  
Web: <http://www.iclimate.org>

**Total Snowfall  
April 2016  
CoCoRaHS network  
(359 stations)**



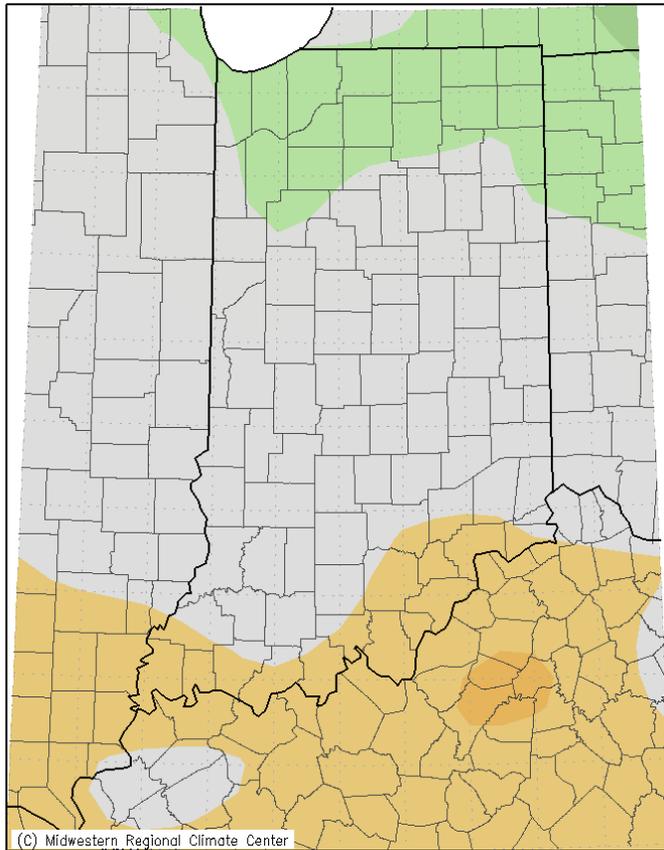
Analysis by Indiana State Climate Office  
Web: <http://www.iclimate.org>

Accumulated Precipitation: Percent of Mean  
April 1, 2016 to April 30, 2016

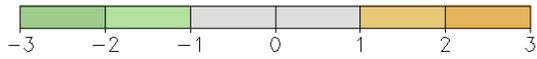


Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 5/9/2016 8:57:33 AM CDT

Average Temperature (°F): Departure from Mean  
April 1, 2016 to April 30, 2016



Mean period is 1981-2010.



Midwestern Regional Climate Center  
cli-MATE: MRCC Application Tools Environment  
Generated at: 5/9/2016 8:58:27 AM CDT

## *Drought Summary from the U.S. Drought Monitor*

Below is a drought summary for the state of Indiana from the U.S. Drought Monitor. Areas in white are not experiencing any drought. Yellow areas are abnormally dry, but not considered a drought. Drought begins when the moisture levels become more severe, with beige, orange, red, and brown indicating increasing levels of drought (moderate, severe, extreme, and exceptional, respectively). The table below indicates what percentage of the state is drought free, and how much of the state is in drought by degree of severity (D1 - D4 category).

▼
Indiana ▼
Statistics type: Categorical Percent Area ▼

### Percent Area in U.S. Drought Monitor Categories

Show  entries

Search:

Week ▼	None ◀▶	D0 ▶	D1 ▶	D2 ▶	D3 ▶	D4 ▶
2016-05-03	100.00	0.00	0.00	0.00	0.00	0.00
2016-04-26	100.00	0.00	0.00	0.00	0.00	0.00
2016-04-19	100.00	0.00	0.00	0.00	0.00	0.00
2016-04-12	100.00	0.00	0.00	0.00	0.00	0.00
2016-04-05	100.00	0.00	0.00	0.00	0.00	0.00

*April 5<sup>th</sup> Drought Summary*



*April 12<sup>th</sup> Drought Summary*



*April 19<sup>th</sup> Drought Summary*



*April 26<sup>th</sup> Drought Summary*

