



In This Issue:

- [From South to North: Tracking Indiana's Planting Progress](#)
- [Purdue Corn Team Research Update](#)
- [Cover Crops, Winter Annual Weeds, Caterpillars and Crops](#)
- [What Farmers Think About Tariffs: Tight 2025, Strong Future?](#)
- [A Bit of Rain Coming Our Way](#)

From South to North: Tracking Indiana's Planting Progress

(Jefferson Pimentel, Dan Quinn, Betsy Bower & Bruno Scheffer)

As of May 16, 2025, **62% of the U.S. corn crop has been planted**, ahead of both last year's pace (47%) and the 5-year average of 56% (Table 1). Favorable weather conditions last week allowed farmers across much of the Corn Belt and northern states to make strong progress.

Southern states continue to lead progress, with Texas (84%), North Carolina (86%), and Tennessee (76%) nearing completion of early vegetative establishment.

Across the Corn Belt, planting activity accelerated sharply. Iowa climbed to 76%, Minnesota reached 75%, and Nebraska advanced to 73%, all well ahead of their historical averages. Illinois also made

significant gains, jumping from 32% to 54%. While Ohio (25%) and Wisconsin (44%) remain behind their average pace. Warmer temperatures and drier conditions are expected to support continued improvement in seedbed preparation, emergence, and early stand establishment in the coming weeks.

In Indiana, the USDA-NASS report indicates that **45% of the corn crop has been planted as of May 16**, representing a significant 19 percentage-point increase from the previous week (Figure 1). This sharp weekly gain reflects strong planting momentum, bringing the state ahead of the 5-year average of 42% this time of year. Compared to past seasons (2015–2024), 2025 progress is now on pace with, or ahead of, several years that saw delayed starts but rapid mid-May planting surges.

With recent dry weather and rising temperatures, **planting conditions across the state have significantly improved**. Growers have taken advantage of this favorable window, and continued progress is likely if current weather patterns persist. Emergence is underway for corn already in the ground, particularly in southern Indiana. **Producers should begin evaluating stand establishment** to assess planting depth consistency, spot emergence issues, and plan any needed management interventions.

 [Let us know if we can help.](#)

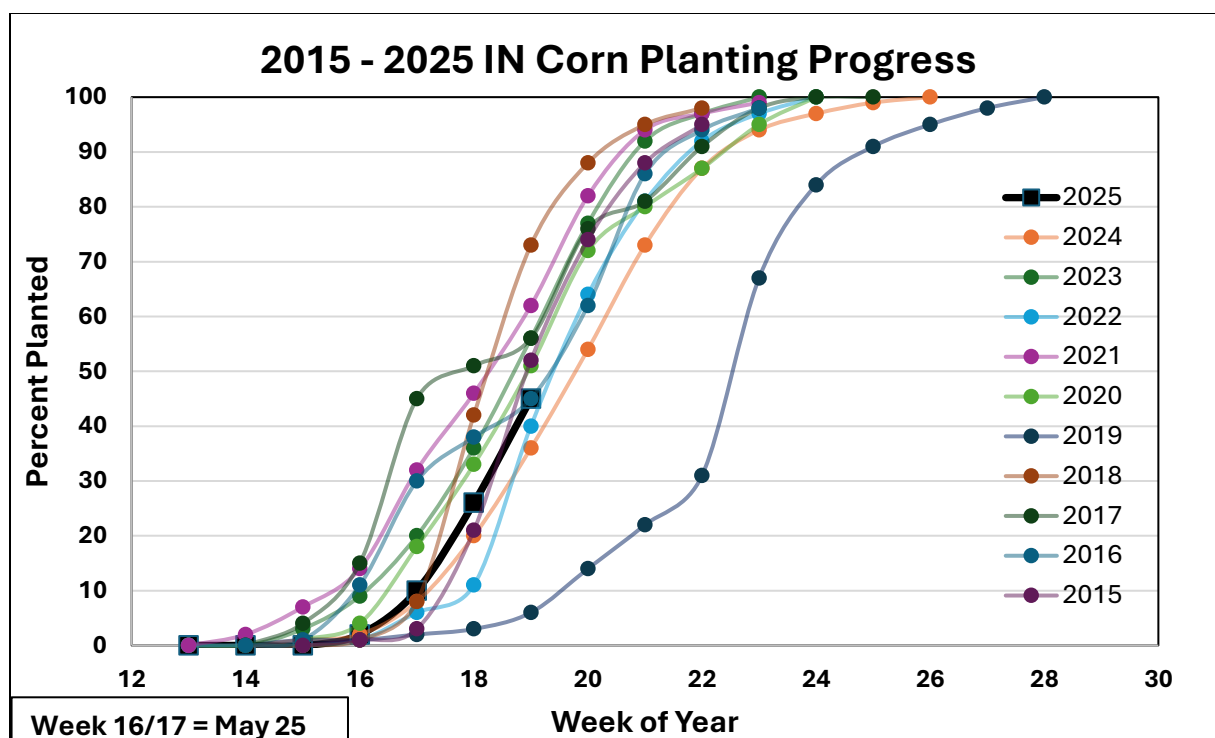


Figure 1. 2015-2025 Indiana corn planting progress by week (USDA-NASS)

Table 1. U.S. Corn Planting Progress (USDA-NASS)

State	Week ending			2020-2024 Average
	May 11, 2024	May 4, 2025	May 11, 2025	
	(percent)	(percent)	(percent)	
Colorado	30	37	53	38
Illinois	41	32	54	60
Indiana	34	26	45	42
Iowa	56	49	76	69
Kansas	60	50	61	57
Kentucky	56	40	52	63
Michigan	25	23	42	31
Minnesota	54	44	75	61
Missouri	71	54	68	71
Nebraska	52	50	73	65
North Carolina	94	73	86	92
North Dakota	20	17	41	16
Ohio	35	22	25	27
Pennsylvania	28	15	32	25
South Dakota	30	39	69	43
Tennessee	72	61	76	75
Texas	79	78	84	81
Wisconsin	37	16	44	40
U.S Total	47	40	62	56

Table 2. U.S. Corn Emerged Progress (USDA-NASS)

State	Week ending			2020-2024 Average
	May 11, 2024	May 4, 2025	May 11, 2025	
	(percent)	(percent)	(percent)	
Colorado	4	-	2	5
Illinois	23	8	25	26
Indiana	14	6	19	14
Iowa	23	10	30	23
Kansas	39	24	42	30
Kentucky	37	19	33	39
Michigan	3	1	3	4
Minnesota	13	3	30	15
Missouri	53	31	43	45
Nebraska	16	8	36	20
North Carolina	79	57	75	78
North Dakota	1	1	5	1
Ohio	23	4	14	9
Pennsylvania	3	1	3	2
South Dakota	3	4	21	5
Tennessee	43	30	51	47
Texas	69	70	79	68
Wisconsin	7	-	5	5
U.S Total	21	11	28	21

As of May 11, 2025, **28%** of the U.S. corn crop has emerged, showing a strong uptick from the prior week (11%) and ahead of the 5-year average of 21%. This increase reflects the accelerated planting pace observed the week prior, coupled with improving soil temperatures and moisture conditions across much of the Corn Belt.

In line with planting progress, key Corn Belt states are now reporting notable emergence activity. **Nebraska** leads with **36%** emerged, nearly doubling its average (20%). **Iowa** shows similar trends with 30% of corn emerged, up from 10% the previous week and well ahead of its average (23%). **Minnesota** has also surged to **30%** emerged, doubling its 5-year average (15%) and mirroring strong planting momentum in the region. **Indiana** has 19% of its corn crop emerged, exceeding the 5-year average of 14%, reflecting the quick turnaround in soil conditions and

continued dry weather aiding rapid germination and growth.

Illinois (25%) and **Ohio** (14%) remain in line with historical patterns, but emergence in Ohio lags planting pace, indicating potentially cooler soil conditions or rainfall-related delays in germination.

Wisconsin remains sluggish at 5%, mirroring a later planting start and suggesting the crop is just beginning to emerge in more northern zones.

Continued warm weather and adequate moisture levels across much of the Midwest should support ongoing emergence in the coming week. Farmers are encouraged to scout early planted fields for stand uniformity and emergence issues, especially in fields planted just ahead of recent rains or under marginal seedbed conditions.

Purdue Corn Team Research Update

(Bruno Scheffer, Jeferson Pimentel, Dan Quinn & Betsy Bower)

The first Purdue Corn Team research trials were first planted on April 16th at the Agronomy Center for Research and Education (ACRE), beginning with a planting date study. The majority of planting for our team started on **April 29th**. Currently, the Purdue Corn Team is still planting at many other locations throughout Indiana (Figure 1). In 2025, we have experiments at Throckmorton-Purdue Agricultural Center (TPAC), Davis Purdue Agricultural Center (DPAC), Southeast Purdue Agricultural Center (SEPAC), Northeast Purdue Agricultural Center (NEPAC), and Pinney Purdue Agricultural Center (PPAC).



Figure 1. Corn planting at ACRE.

In total, there are around **50 trials** planned for the 2025 season. Trial focus includes testing a diversity of agronomic management practices with the goal of **improving recommendations** for farmers and helping with the **agronomic decision-making** process.

Research will be aggregated across various locations and environments across Indiana to achieve a comprehensive understanding and improve agronomic practices. Research topics include soil fertility management, nitrogen stability and application rates, the effectiveness of biological and

newly developed agricultural products, and the utilization of cover crops. Advances in precision agriculture also play a crucial role in our research program, including spatial management of planting populations, optimal planting dates, and nutrient management involving potassium and sulfur.

For example, at the Internet of Things for Precision Agriculture (IoT4Ag) testbed, we evaluate both tall and short-stature corn hybrids under varying nitrogen application rates (Figure 2). The primary objective of this testbed is to test and assess the effectiveness of multiple remote sensing platforms, robotics, and handheld proximal sensors for assessing plant nitrogen status and improving in-season nitrogen management practices.

In collaboration with **Corteva**, we are also investigating corn responses to various nitrogen sources, application rates, timings, and stabilizers, including the use of the nitrification inhibitor **Instinct NXTGEN**. The trial has been fully planted, with different nitrogen rates applied, and we are also monitoring nitrous oxide (N_2O) emissions to quantify nitrogen losses.



Figure 2. Partnership between the Purdue Corn Team and the IoT4Ag for the first IoT4Ag soil sampling.

Partnering with **Becks Hybrids**, we have also established an experiment (Figure 3) to examine the differences between hybrid root architecture types (vertical and horizontal) and how these different architectures may respond to banding (Figure 4) versus broadcast fertility in a silt loam soil.



Figure 3. Planting different hybrids for the Beck's hybrids trial at ACRE.



Figure 4. Nitrogen, phosphorus, and sulfur banding application for the Beck's hybrids trial at ACRE.

Cover Crops, Winter Annual Weeds, Caterpillars and Crops

(Christian Krupke)

Every spring, black cutworm moths and armyworms (Figure 1) invade our state. They don't overwinter here, but move north each spring seeking sites to lay eggs. Both are sporadic and unpredictable and although trap counts help, they are not always a reliable predictor of larval populations (Figure 2). At this time, when we may see damage to crops (Figure 3), it's worth reviewing a few key parts of the biology of these annual invaders.



Figure 1. A true armyworm larva on a grass host.

Larvae of both moths will be actively feeding now. The increased popularity of cereal rye as a cover crop presents new opportunities for egg-laying female **armyworms** to find attractive food sources (grasses are their favored hosts), while **black cutworms** may favor broadleaf weeds, including chickweed and a range of cover crops.

For both species the highest risk for egg laying occurs where dense vegetation (either cover crops or winter annual weeds) is present. Fields with sparse weeds are not likely to harbor as many larvae. In both cases, the risk comes when annual weeds or cover crops are terminated and the hungry caterpillars move onto the main crop for feeding – neither black cutworms or armyworms are obligate corn feeders but both will do

well on corn seedlings, with black cutworm able to feed on soybean as well. Armyworm larvae will attempt to feed on soybean, but cannot effectively digest the foliage and will die shortly afterwards.



Figure 2. The five larval instars, or stages, of black cutworm.

The question about ideal termination often arises. Ideally, cover crops or dense annual weeds will be terminated 2-3 weeks before corn emergence. With the wet weather of most springs, this often is not possible. A period of weeks is ideal, but there is not a magic number of days to starve out caterpillars. The rule of thumb is that the longer the period between termination of cover crops or weeds and emergence of the main crop, the better. Caterpillars need to feed often to survive and cannot go without food for long, so even a few days of no host plants will reduce their populations dramatically.

One last reminder: Don't be dependent on traited-corn, as high armyworm or cutworm infestations may still cause significant damage before the Bt-proteins suppress their feeding. An ideal reference to understand which Bt-traited corn has efficacy against specific insects is the "Handy Bt Trait Table." This table, produced by Chris DiFonzo, Field Crops

Entomologist at Michigan State University, is worth a look. It can be downloaded [HERE](#). Remember that seed-applied neonicotinoid insecticides do not have efficacy against armyworm, although there are many effective options for control with [foliar insecticide sprays](#). A reminder that with this insect, especially when they are "marching" in large numbers, scouting for caterpillars and damage still wins the day.



Figure 3. Only the larger instars damage plants by "cutting", as shown; younger larvae will notch leaf edges.

What Farmers Think About Tariffs: Tight 2025, Strong Future?

(James Mintert, Michael Langemeier, & Chad Fiechter)

When evaluating the U.S. government's tariff policy, farmers express short-term concerns about farm incomes but maintain long-term confidence in the resilience of the U.S. agricultural economy. According to the April survey from the Purdue University – CME Group Ag Economy Barometer, over half of the 400 farmers surveyed (56%) anticipate a negative impact on 2025 farm income due to the tariff policy. However, 70% of respondents believe that the increased use of tariffs will ultimately strengthen the U.S. agricultural economy in the long run.

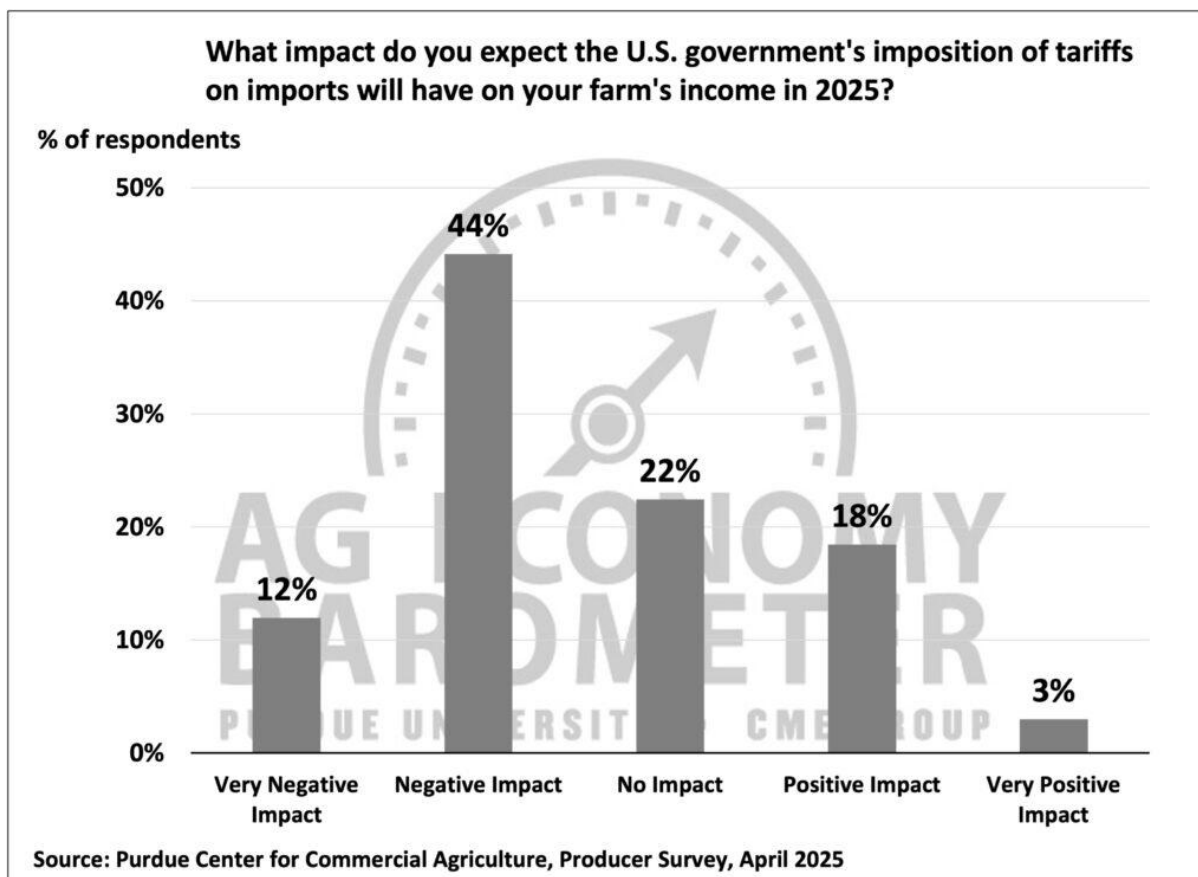


Figure 1. Expected Impact on 2025 Farm Income of U.S. Tariffs on Imports, April 2025.

A Bit of Rain Coming Our Way

(Beth Hall)

The last few weeks have been on the drier side, particularly for northwestern and west-central Indiana (Figure 1). While temperatures have been seasonal, they are still gradually increasing as we approach summer. Therefore, evapotranspiration rates are starting to increase. This has resulted in the U.S. Drought Monitor classifying much of northern Indiana as Abnormally Dry (D0) (Figure 2).

Technically, this is not drought, but more a cautionary tale that conditions are drying. The National Weather Service is predicting around two inches of rain to fall across the western and southern parts of the state over the next seven days (Figure 3). A little over half of this will likely come at the end of this week, followed by a break for early next week, closing with another round of decent precipitation next Tuesday-

Thursday. It is too early to know if this will be enough to eliminate the Abnormally Dry (D0) areas in our state, but it should not degrade things into official drought status.

Another thing that will help stave off drought is the national Climate Prediction Center is favoring below-normal temperatures for the last few weeks of May. There is no concern at this time for freezing temperatures, but it should keep temperatures pleasant with lower evapotranspiration rates. Climate outlooks for June are slightly favoring above-normal temperatures across Indiana with above-normal precipitation possible for our eastern counties. The 3-month (June-July-August) outlook is slightly favoring above-normal temperatures with no statistically significant guidance about precipitation.

Accumulated modified growing degree days (50°F/86°F) (MGDD) since April 15th (Figure 4) are

running around 10-50 units above normal (Figure 5).
With the cooler climate outlooks for the rest of this

month, expect that pattern of near-normal MGDD accumulations to continue.

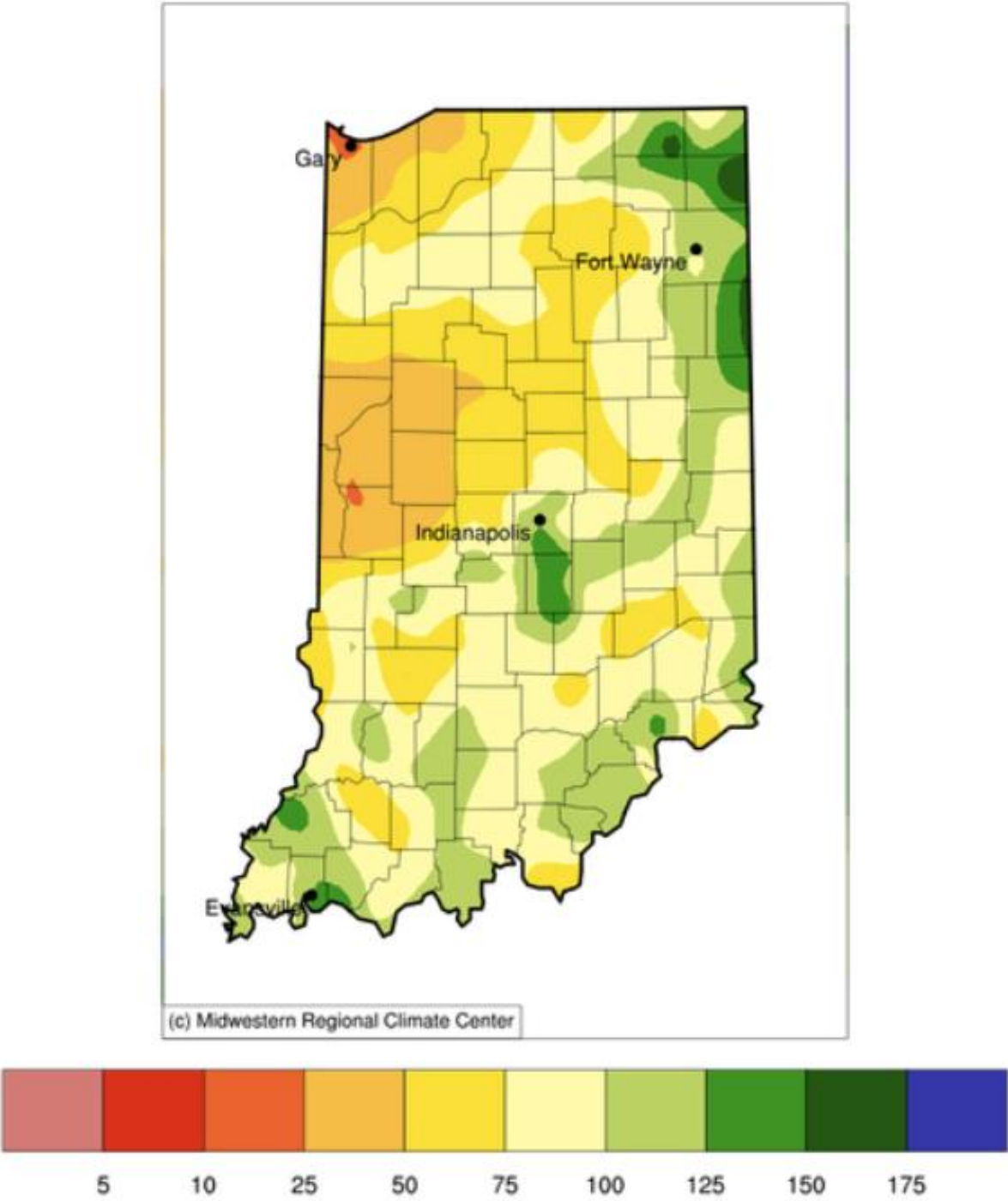
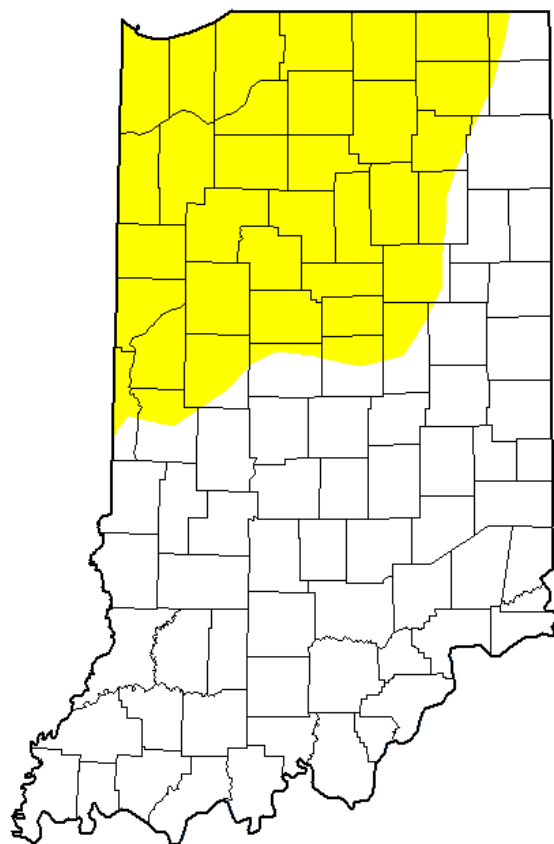


Figure 1. Precipitation from May 1 - 14, 2025 represented as a percentage of the 1991-2020 normal amounts for that period.

U.S. Drought Monitor Indiana



May 13, 2025
(Released Thursday, May. 15, 2025)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	63.12	36.88	0.00	0.00	0.00	0.00
Last Week 05-06-2025	83.19	16.81	0.00	0.00	0.00	0.00
3 Months Ago 02-11-2025	31.72	68.28	0.00	0.00	0.00	0.00
Start of Calendar Year 01-07-2025	49.64	50.36	2.02	0.00	0.00	0.00
Start of Water Year 10-01-2024	6.65	93.35	17.54	0.11	0.00	0.00
One Year Ago 05-14-2024	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

Rocky Bilotta
NCEI/NOAA



droughtmonitor.unl.edu

Figure 2. U.S. Drought Monitor status for conditions as of Tuesday, May 13, 2025.

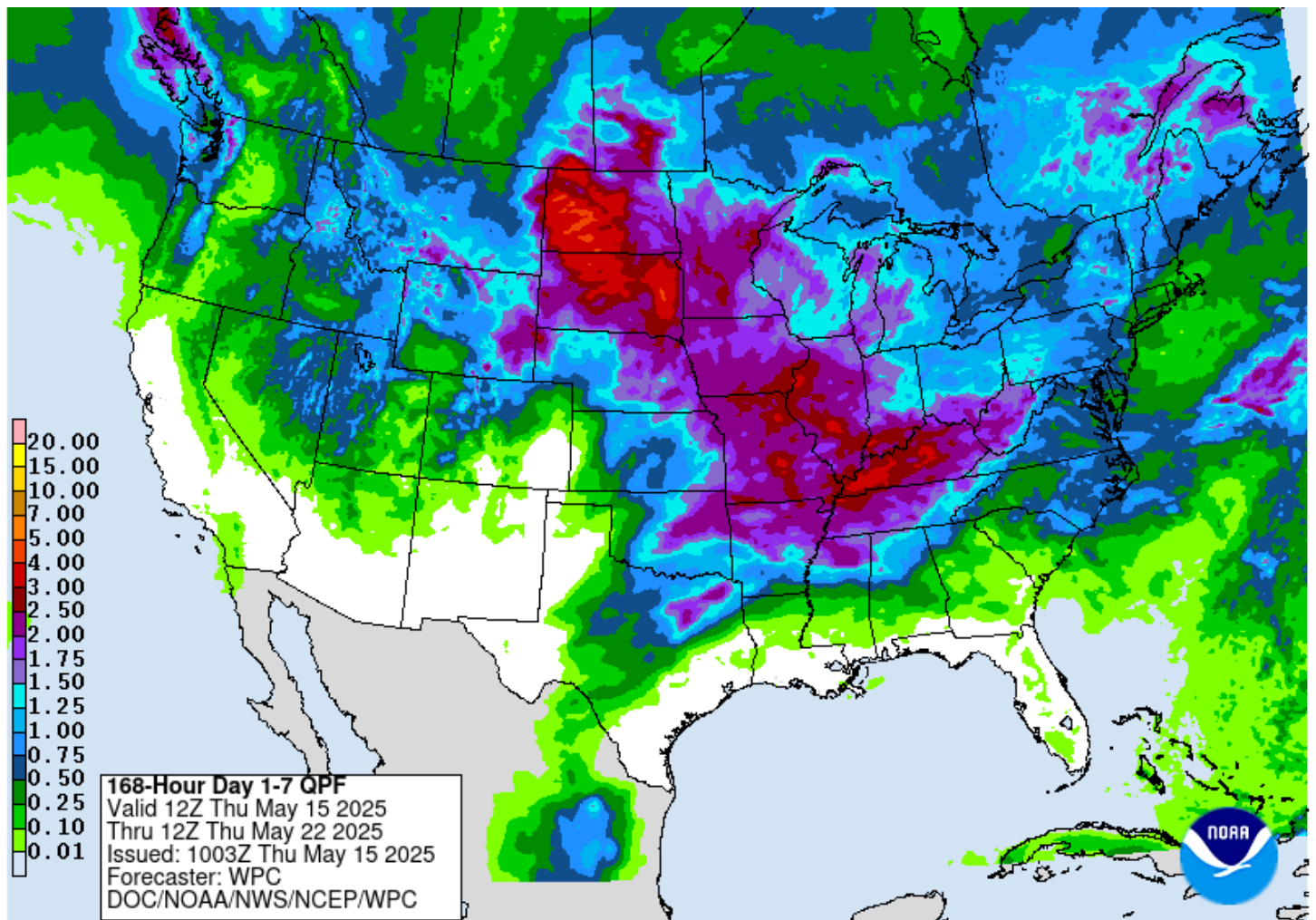


Figure 3. 7-day precipitation total forecasted for May 15-22, 2025.

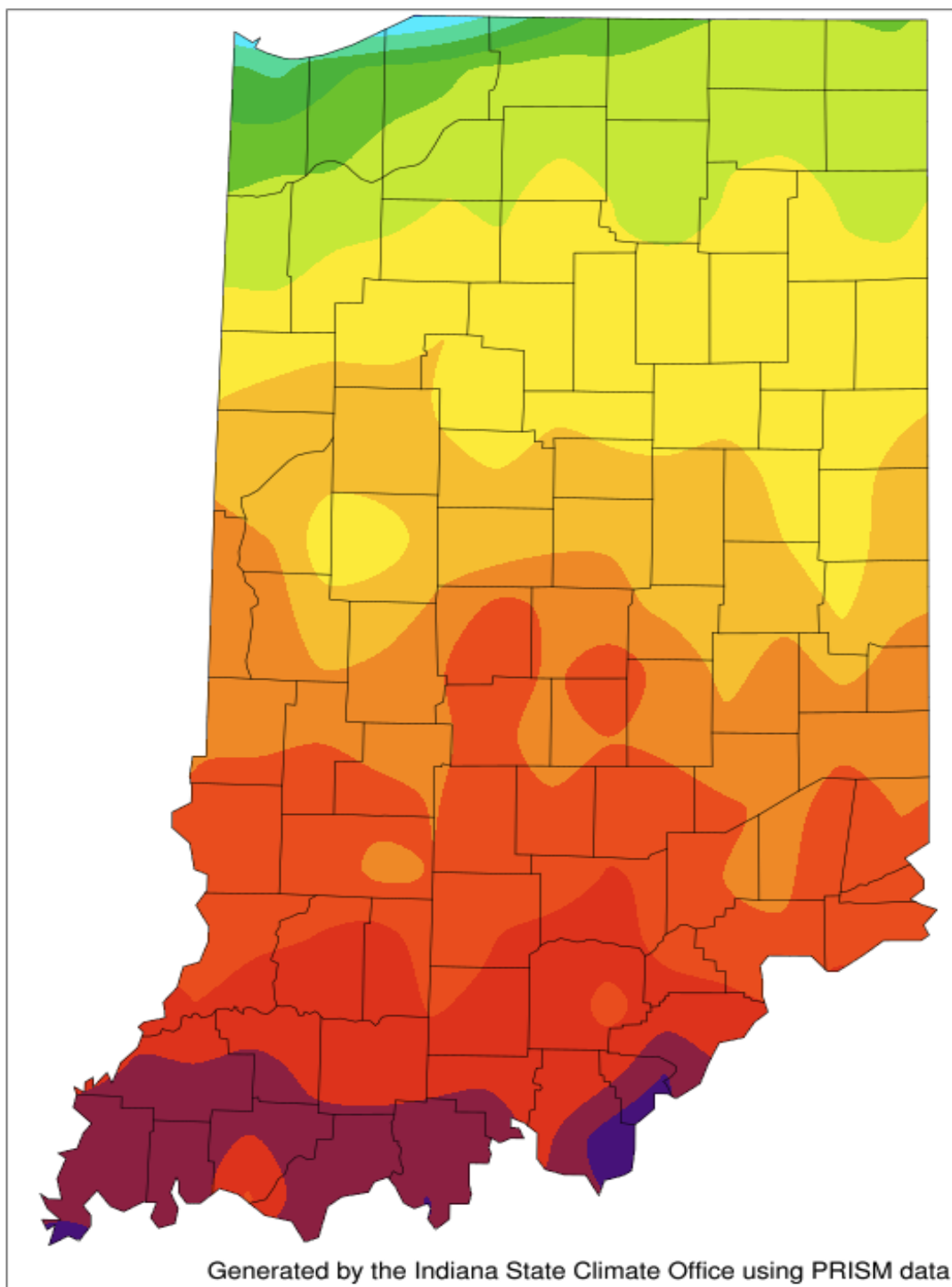


Figure 4. Modified growing degree day (50°F / 86°F) accumulation from April 15 – May 14, 2025.

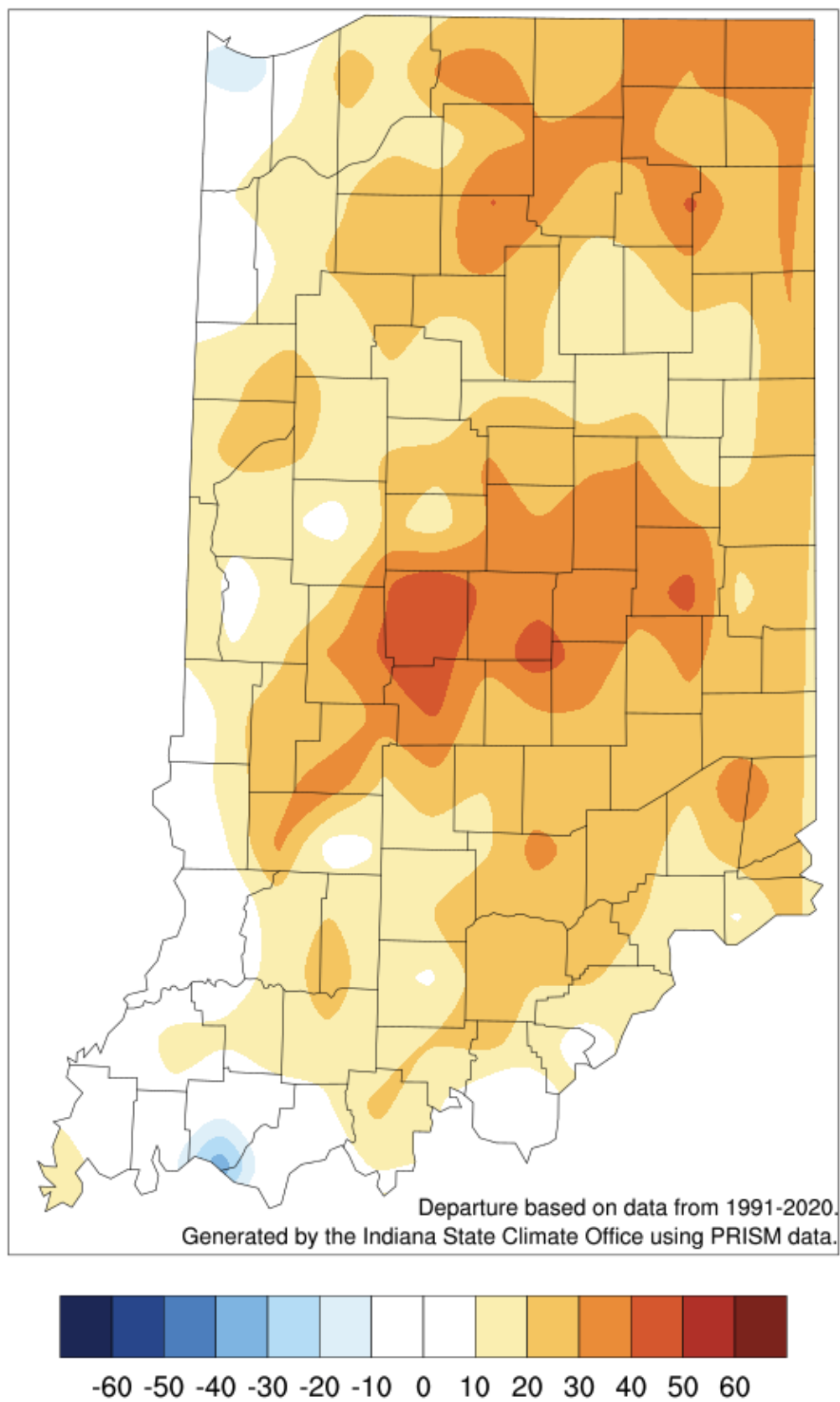


Figure 5. Modified growing degree day (50°F / 86°F) accumulation from April 15-May 8, 2025, represented as the departure from the 1991-2020 climatological average.

Acknowledgments

The authors greatly appreciate the feedback and contributions of all growers, county agents, consultants, and corn industry stakeholders.

Proudly supported by:

