



# OUR TAKE | on the 2023 Beck's PFR Study

OHIO

Addressing Ohio Plot Concerns and Enhancing Local Agricultural Practices

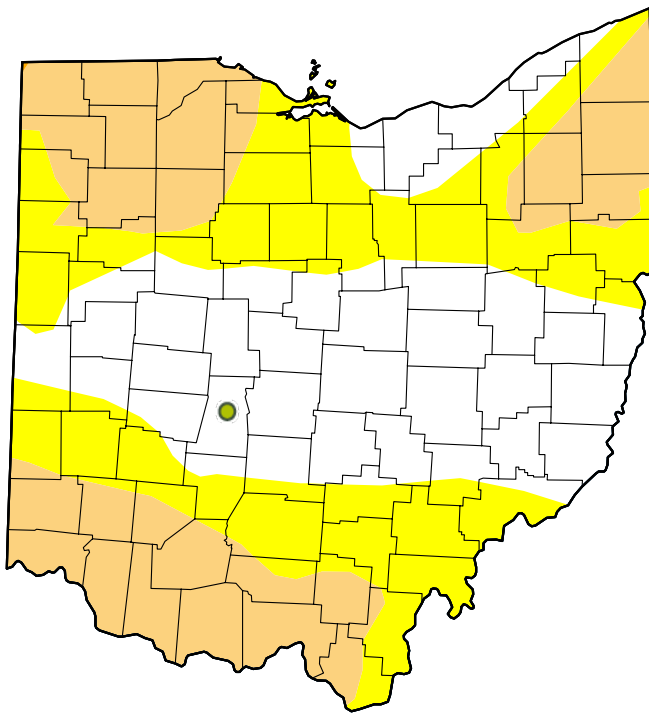
In Ohio, the Beck's trial found that PROVEN® 40, with a reduced synthetic nitrogen rate, resulted in lower yields compared to the control. However, the control had significantly higher stand count than the trial plots, which would explain the difference.

## U.S. Drought Monitor: Ohio

July 4, 2023

(Released Thursday, July 6, 2023)

Valid 8 a.m. EDT



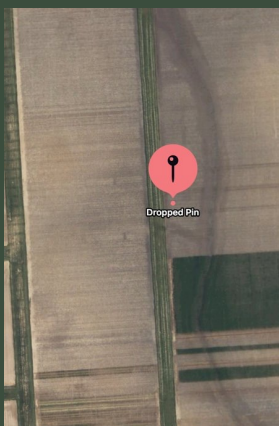
● Trial Site Location

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	38.30	61.70	28.41	0.01	0.00	0.00
<b>Last Week</b> <i>06-27-2023</i>	24.84	75.16	33.38	0.01	0.00	0.00
<b>3 Months Ago</b> <i>04-04-2023</i>	100.00	0.00	0.00	0.00	0.00	0.00
<b>Start of Calendar Year</b> <i>01-03-2023</i>	57.14	42.86	27.16	0.00	0.00	0.00
<b>Start of Water Year</b> <i>09-27-2022</i>	93.91	6.09	0.00	0.00	0.00	0.00
<b>One Year Ago</b> <i>07-05-2022</i>	64.06	35.94	0.00	0.00	0.00	0.00

Intensity:

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



## Pivot Bio's Analysis

- **Soil Type:** In response to these findings, Pivot Bio is intensifying efforts to understand the specific factors influencing this plot's data. We are investigating how in-furrow application and soil conditions specific to Ohio, such as Kokomo silty-clay loam, might have influenced this result.
- **Population Differences:** The plot used in this Ohio trial had a waterway running through the middle of the field. This waterway led to variable stand counts across strips. The study recorded a population difference across treatments of -3 to -9% compared to the control, suggesting variability that might have affected the study's outcome.

## KEY TAKEAWAY

The Ohio Beck's trial, generated unreliable results due to a significant anomaly in the trial plot. A waterway running through the plot led to a -3% to -9% stand-count difference, compared to the control. Given these factors, Pivot Bio's analysis concludes this plot's data may not accurately reflect the true performance of PROVEN® 40, and such plots should ideally be omitted from the trial to ensure the integrity of the results