

MEASURING THE PIVOT BIO PROVEN® 40 NITROGEN ADVANTAGE

In side-by-side on-farm tests comparing Pivot Bio PROVEN® 40 Liquid In-Furrow, and On-Seed to grower standard practice, agronomists found PROVEN® 40 provided a nitrogen advantage. Agronomists utilized industry-standard chlorophyll meters and plant biomass readings to measure plant nitrogen status in each location.

TESTING PROTOCOL

Plants were sampled from two sections of the field by cutting the corn stalks flush with the soil surface. Plants in each section were the same hybrid, had the same planting date, and were on similar soil types and elevations. Above-ground plant biomass was measured using a standard, calibrated scale. The chlorophyll concentration of the uppermost collared leaf was measured if the plant had not tasseled. Chlorophyll was measured in the leaf below and opposite of the primary ear if the plant had a tassel.

TEST LOCATIONS

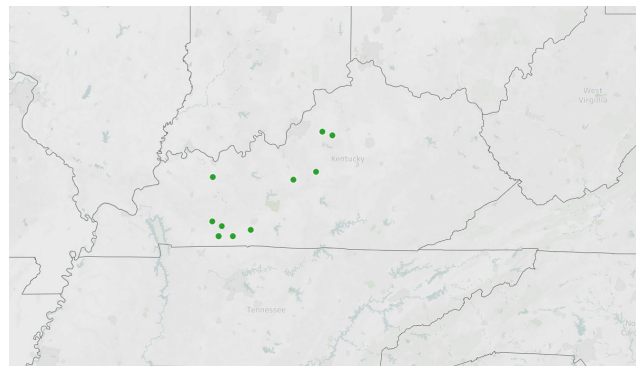
Multiple tests were conducted in different locations to demonstrate in-season product performance and how Pivot Bio PROVEN® 40 can replace up to 40 lbs. of synthetic nitrogen.



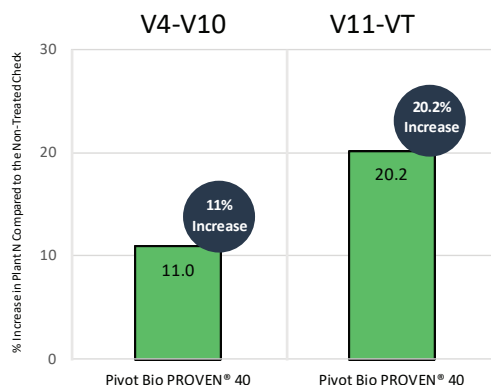
4,413
Total
Acreage



10
Fields
Visited



IN-PLANT NITROGEN LEVELS



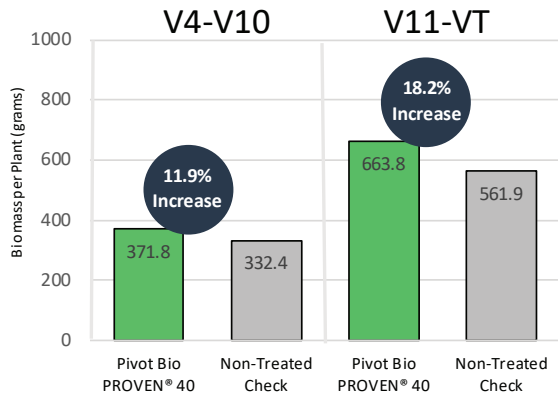
Pivot Bio PROVEN® 40 provides a daily supply of nitrogen that is delivered directly to the roots of the plants throughout all growth stages. Plants treated with Pivot Bio PROVEN® 40 had overall higher levels of in-plant nitrogen compared to the untreated check.

SHELBY COUNTY, KY - GROWTH STAGE V11-VT



NON-TREATED CHECK

Pivot Bio PROVEN® 40

WHOLE PLANT BIOMASS LEVELS


Plants sampled from Pivot Bio PROVEN® 40 treated fields had more overall fresh weight biomass compared to plants sampled from the untreated check.

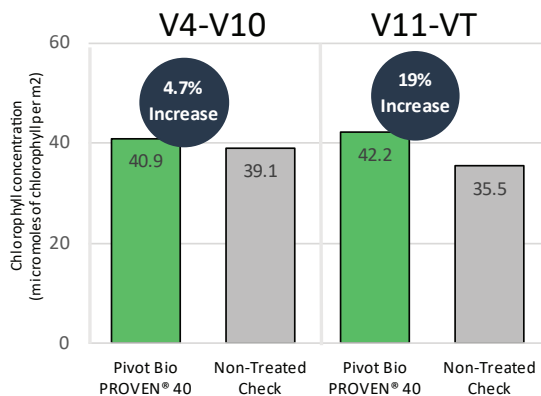
SUMMARY

Pivot Bio continues to invest in the performance and measurement of Pivot Bio PROVEN® 40, validating the nitrogen advantage growers receive from PROVEN® 40.

Why Biomass? Nitrogen is critical to producing a healthy and productive crop. By measuring biomass during the growing season, growers can be confident that nitrogen availability is not a limiting factor for plant growth well before the crop is harvested.

Why Chlorophyll? Nitrogen is a fundamental component of chlorophyll in plant tissue. The chlorophyll concentration of leaves provides a direct measure of the nitrogen status of a corn plant.

Why Do We Visit Fields? By measuring the in-field performance of Pivot Bio PROVEN® 40 in multiple locations, we are able to provide growers confidence to replace their synthetic nitrogen application with a better and more reliable source of nitrogen.

LEAF CHLOROPHYLL LEVELS


Fields treated with Pivot Bio PROVEN® 40 had overall larger plants and more green biomass compared to fields without Pivot Bio PROVEN® 40.

LARUE COUNTY, KY - GROWTH STAGE V11-VT

NON-TREATED CHECK
Pivot Bio PROVEN® 40
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