



 PIVOT BIO
PROVE N40

2022 GROWER HANDBOOK

For more information, contact
Pivot Bio Customer Success Center
877-451-1977 | pivotbio.com



It helps me sleep at night knowing the nitrogen we're putting on with Pivot Bio is going **to stay in the soil, no matter the weather.**

Chad Rubbelke
North Dakota



The better we can manage our nitrogen, **the better crops we'll have,** and the **less nitrogen we'll have in our water sources.**

Don Vos
Iowa



A nitrogen-fixing microbe **is huge for the future of farming** and our ability **to feed the world.**

Dane Whitley
Kansas



I'm getting a better ROI because pound-for-pound, there is **more nitrogen available to my crop.**

Brian Renelt
South Dakota



I'm using Pivot Bio PROVEN® 40 to create a **better way to use nitrogen** and produce **a more profitable crop.**

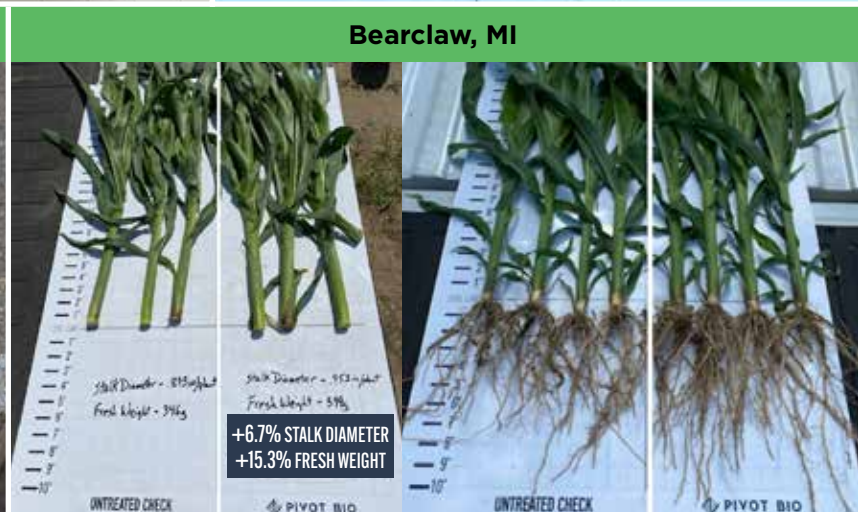
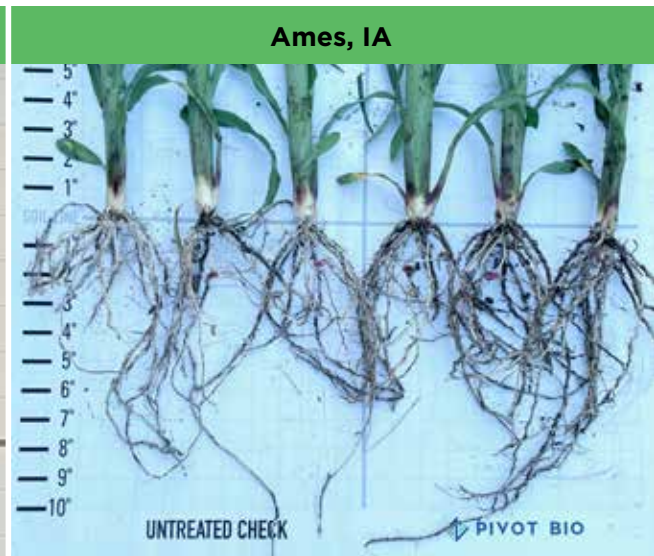
Jaycob Ohanlon
Nebraska



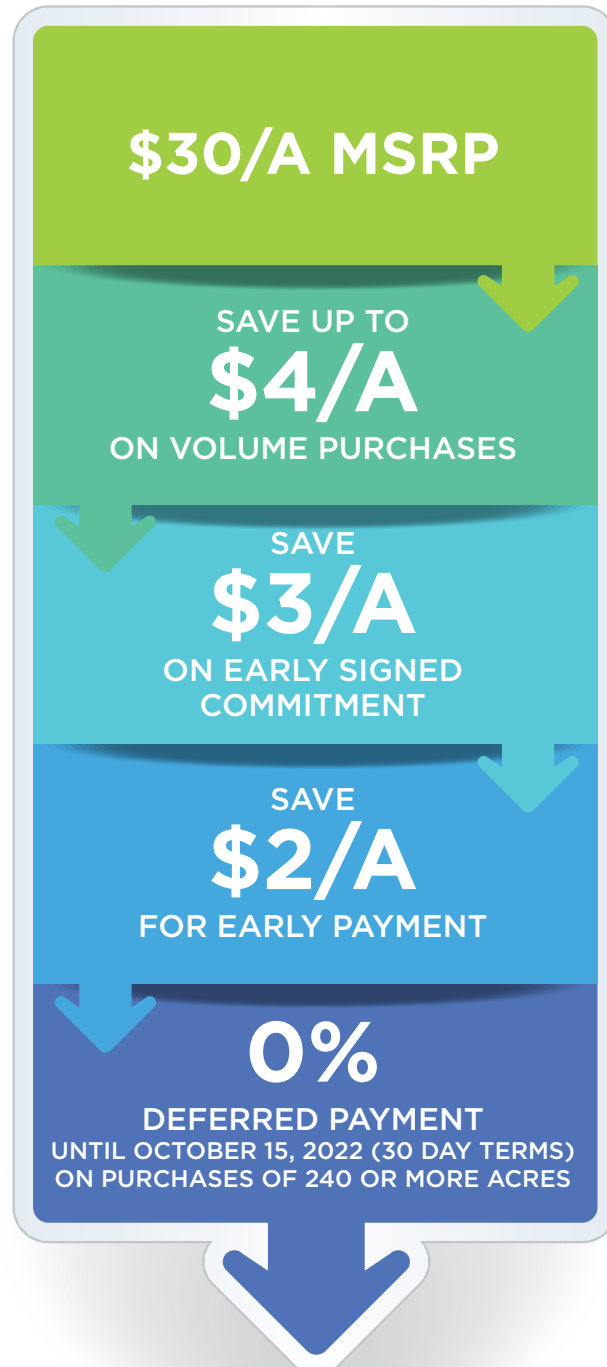
I've seen positive results every year I've used Pivot Bio; that's why we're now **using it on all of our acres.**

Jeff Stensland
Iowa

SUCCESS IN GROWER DEMONSTRATIONS ACROSS THE COUNTRY



PROVE N40 COUNTDOWN TO SAVINGS



**TOTAL POTENTIAL
SAVINGS:
\$9/ACRE**

N-OVATOR PROGRAM PARTICIPATE AND RECEIVE AN ADDITIONAL SAVINGS OF \$2/ACRE

SYNTHETIC NITROGEN REPLACEMENT PROGRAM

Replace
between

25-40

Lbs./Acre
of synthetic
nitrogen with
**Pivot Bio
PROVEN[®] 40**

Enroll a
minimum of

520

Acres
or whole
farm in the
**N-OVATOR
PROGRAM**

VALIDATE NITROGEN REPLACEMENT

with farm-level geospatial,
purchase and field management
data submitted by Aug. 15, 2022

Ask your local representative for details.



 PIVOT BIO
PROVE N40

In farmer demonstration locations, with a 35 lbs. reduction of synthetic nitrogen vs. an untreated check, plants treated with Pivot Bio PROVEN[®] 40 had a 7.0% plant material increase, resulting in a 5.5% greater nitrogen uptake.

PLANT FRESH WEIGHT

+7.0%

ACROSS GROWTH STAGES

PLANT NITROGEN UPTAKE

+5.5%

ACROSS GROWTH STAGES

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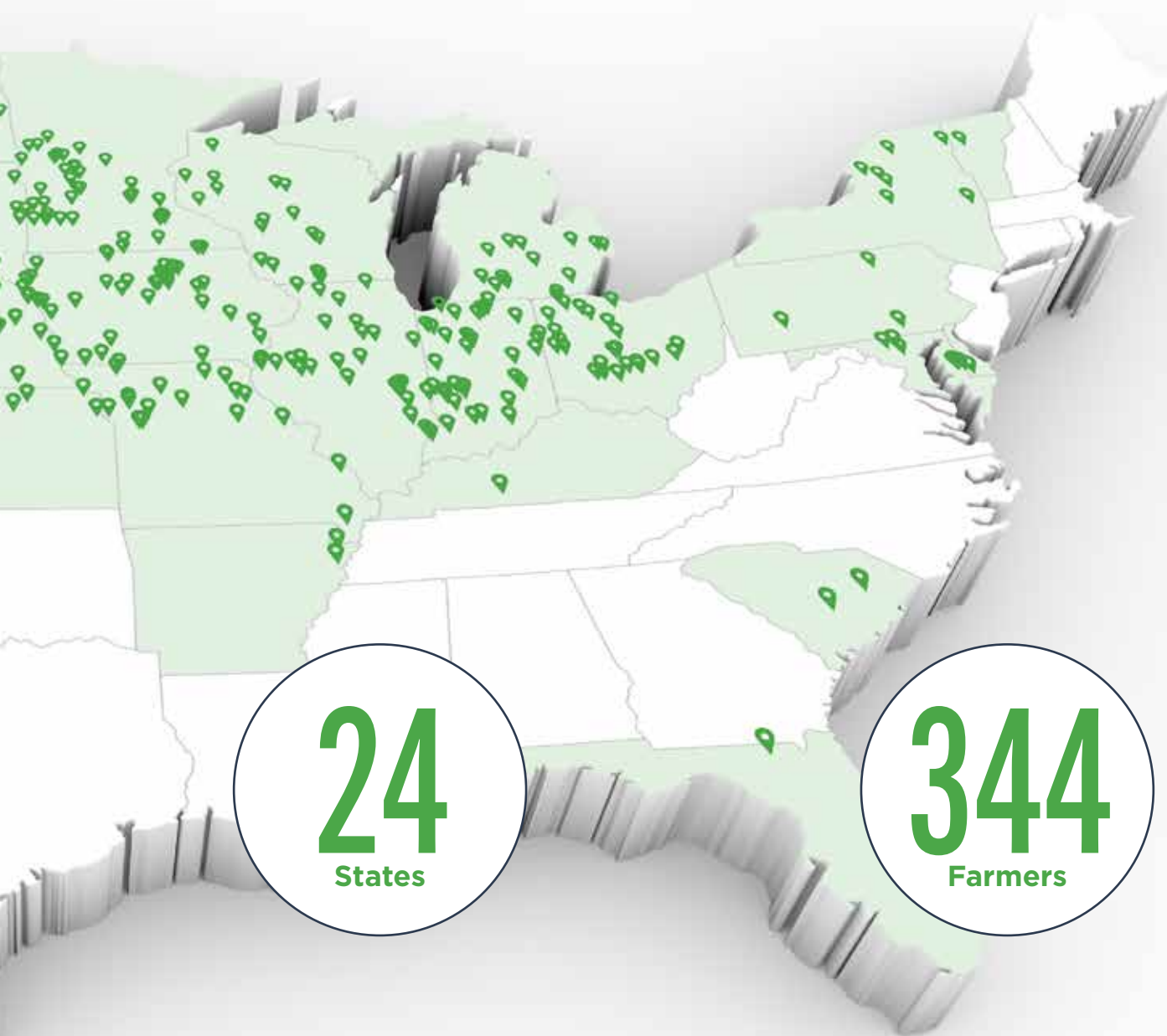
IT'S ALL IN THE NAME

Across these demonstration locations, Pivot Bio PROVEN[®] 40 lived up to its name by making up far more than the 35-pound reduction of synthetic nitrogen.

Data from samples as of August 2, 2021.

During the 2021 growing season, 344 farmers across 24 states managed demonstration locations with Pivot Bio PROVEN® 40.

2021 GROWING SEASON



EQUIPMENT REIMBURSEMENT PROGRAM



Pivot Bio PROVEN® 40 must be applied in-furrow at planting and participating growers may be entitled to reimbursement of the cost of purchasing qualified application equipment.* All equipment reimbursed under this program is the sole property of the participating grower.**

PIVOT BIO NLIGHTEN SYSTEM EQUIPMENT REIMBURSEMENT PROGRAM
IN-FURROW/DIRECT INJECTION ADOPTION
3-YEAR COMMITMENT ACRE PURCHASES MAY BE ANY COMBINATION OF PIVOT BIO PROVEN® 40 OR PIVOT BIO RETURN®
520 ACRES x 3 YEARS UP TO \$5,000 REIMBURSEMENT
1,000 ACRES x 3 YEARS UP TO \$10,000 REIMBURSEMENT
EQUIPMENT INVOICE REQUIRED FOR REIMBURSEMENT

PURCHASE OF APPLICATION EQUIPMENT MUST BE COMPLETED ON OR BEFORE FEBRUARY 1, 2022.

*Qualified means the ability to get liquid in a precisely measured application in-furrow. Minimum requirements apply. Refer to "Pivot Bio Minimum System Specification" document, or contact your local sales representative for more details.

**Restrictions and rules apply. See program contract for all details.

PIVOT BIO PROVEN[®] 40 NITROGEN GUARANTEE

Pivot Bio stands behind its product with its nitrogen guarantee. For every 520 acres enrolled in the nitrogen guarantee, 1% (or ~5 acres of a representative sample) must be left as an untreated check (UTC). If multiple samples from the 520 acres are within 3% of the in-plant nitrogen of the untreated check, as determined by the established performance protocol, that 520-acre block would be subject to reimbursement for the price of the product. All reimbursements are determined incrementally on the 520 acre block vs. UTC. See the Pivot Bio Nitrogen Guarantee agreement for complete details.



520
Acres
or whole farm

- Untreated check for each 520 Acres
- Same crop management
- Requires stewardship certification

NITROGEN ANALYSIS

- Tissue samples
- Satellite imagery
- Nitrogen performance score

NITROGEN VALIDATION

- Comparison with untreated check
- Parity is within 3% nitrogen of untreated check

PIVOT BIO PROVEN[®] 40 STEWARDSHIP CERTIFICATION*

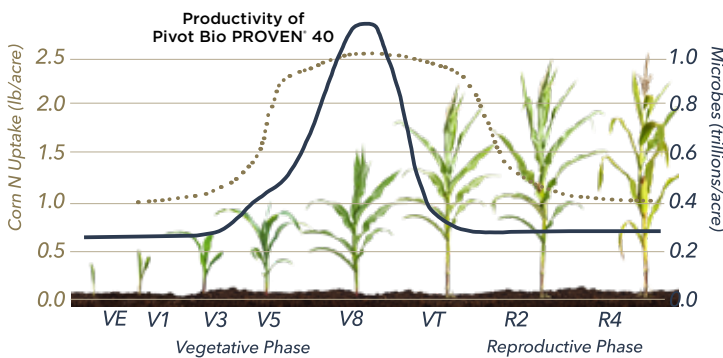


*Required to qualify for the nitrogen guarantee.

NITROGEN IS APPLIED DAILY

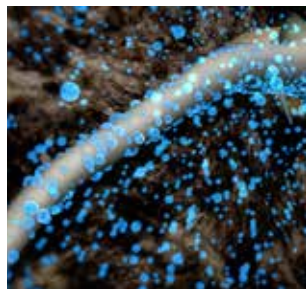
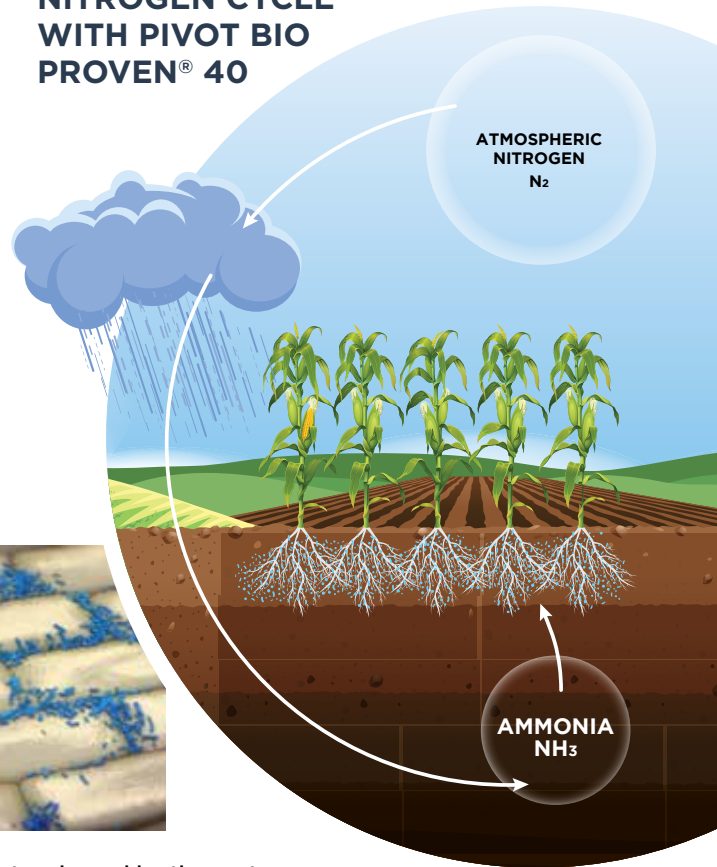
Pivot Bio PROVEN® 40 is the only microbial product available to U.S. corn growers that applies nitrogen everyday throughout the growing season, with peak nitrogen production when the crops need it the most. Applied at planting, the microbes adhere to the corn roots so growers can be confident their corn is getting a consistent daily source of nitrogen. Unlike traditional nitrogen, Pivot Bio PROVEN® 40 does not leach when it rains.

NITROGEN UTILIZATION



The corn plant's demand for nitrogen over the growth cycle is in correlation to the nitrogen production of Pivot Bio PROVEN® 40.

NITROGEN CYCLE WITH PIVOT BIO PROVEN® 40



As the seed germinates and the roots reach out into the soil, the microbes adhere to the root structure. The microbes and roots quickly form a mutually beneficial relationship.

The byproducts released by the roots, called exudates, support robust colonization of the microbes along the rhizoplane of the roots and give the microbes the energy they need to fix atmospheric nitrogen.

PRODUCT INFO



Pivot Bio PROVEN® 40 produces ammonia, a readily available nitrogen source for corn.



Liquid formulation that comes ready to use.



Pivot Bio PROVEN® 40 contains living microbes that must be stored between 32°F - 70°F and away from direct sunlight.



Applied in-furrow.



Can be tank mixed with pop-up fertilizers and insecticides.

**THE ODDS ARE SET BY MOTHER NATURE AND MARKETS.
BEATING THE ODDS IS UP TO YOU.
PIVOT BIO HELPS YOU LEVEL THE FIELD.**

In your annual battle against weather and input costs, Pivot Bio is on your side bringing more certainty to your nitrogen plan.



PREDICTABLE

Adhering directly to the roots, Pivot Bio PROVEN® 40 predictably applies nitrogen daily throughout critical growth stages. It's right in the name...Pivot Bio PROVEN® 40 predictably applies 40 pounds of nitrogen per acre.



PRODUCTIVE

Level out performance across various soil types and topography.



PRICE

Pivot Bio PROVEN® 40 is not impacted by the up and down price swings of the petroleum and fertilizer markets.



WEATHERPROOF

Pivot Bio PROVEN® 40 stays put – weather or not. It is not susceptible to runoff, leaching or denitrification like synthetic nitrogen products.



RETURN ON INVESTMENT

Get what you pay for...benefit from nitrogen applied to the plant as opposed to the field. Eliminate costly nitrogen loss and potentially reduce expenses and in-season passes across the field.

**MAKE PIVOT BIO PROVEN® 40 YOUR FIRST FORTY POUNDS OF NITROGEN.
A SOLID FOUNDATION FOR A STRONG CROP.**



pivotbio.com