

Description

Powered by the Prime Technology Platform, Residue XL Prime accelerates the degradation of crop residue using a robust microbial package paired with AMS, creating an ideal environment for accelerated residue breakdown and nutrient release.

Benefits



ACCELERATES
BREAKDOWN OF
CROP RESIDUE



INCREASES
AVAILABLE
NUTRIENTS FOR
UPTAKE



IMPROVES
PLANTABILITY &
UNIFORM CROP
EMERGENCE

Features

- Robust Microbial Package of Beneficial Bacteria and Fungi designed to break down crop residue and cycle nutrients for uptake.
- AMS provides readily available N source, creating favorable C to N ratio for microbes to break down residue and mineralize nutrients.
- Novel Prime technology speeds germination of Bacillus spores for faster acceleration of crop residue breakdown and nutrient release even under stress.

CREATES CONDITIONS FOR IMPROVED BREAKDOWN & NUTRIENT UPTAKE

Untreated vs. Residue



AMS creates a more balanced environment between carbon, which supplies energy for microbes, and nitrogen. A balanced C:N ratio accelerates decomposition, making for more available nutrients.



Untreated vs. Residue

The Breakdown

Ammonium Sulfate

Nitrogen 13%
Sulfur 15%

Bacillus spp

Primed Beneficial Bacteria that accelerate crop residue cellulose breakdown.

Phanerochaete chrysosporium

Beneficial naturally occurring fungus capable of organic breakdown of the lignin (woody plant parts) of crop residue.

Trichoderma harzianum

Major producer of enzyme cellulase. Cellulases are enzymes that are responsible for breakdown of challenging crop residue components

Sugars

Act as a binder and are a good food source for microbial community

\$45 NPK VALUE IN 200 BU/ACRE CORN

- An application of Residue XL unlocks nutrients in crop residue in time for planting and continues to release throughout the season.
- A multi-year study shows that Residue accelerates stalk degradation by 20% prior to planting.
- Post planting, Residue continues to breakdown organic matter and cycle nutrients for uptake, further increasing value.

200 BU/ACRE CORN CROP EXAMPLE

Nutrient Released	Total lbs. of NPK in Residue	NPK Available at Planting @ 19.7% Degradation	Value/Acre at Planting
Nitrogen (N)	100 lbs	19.7 lbs	\$ 12.80
Phosphorus (P)	50 lbs	9.85 lbs	\$ 9.10
Potassium (K)	210 lbs	41.37 lbs	\$ 22.75

Total Value per Acre:

\$ 44.65/Acre

Projected 3:1 + ROI by Planting

Values based on the Michigan State NPK Stover Calculator and August 2025 National Dry Fertilizer Price Averages.

IMPROVE NEXT YEAR'S CROP

Improved Nutrient Availability

Residue

Grower Standard

