



Hopper Throttle® MaxStax™ Corn is a revolutionary combination of biology, nutrition, and EPA-registered actives delivered seamlessly through an advanced planter box seed fluency system.

Powered by Meristem's patented Bio-Capsule™ Technology, farmers now have an easy-to-use system to deliver multiple, EPA-registered actives to maximize corn yields.

ONE INTEGRATED BIOLOGICAL DEFENSE SYSTEM

Combined outcome: a healthier plant with stronger roots, earlier establishment, enhanced stress tolerance, broader pest and disease defense, and improved opportunity to maximize yield.



GUARD
NEMATODE PROTECTION

Broad-spectrum biofungicide providing PPFM-driven ISR, hormone balance, stress tolerance, and enhanced vigor.



GUARDX
INSECT MANAGEMENT + ROOT REGEN

EPA-registered PPFM bioinsecticide that primes the plant to defend itself against labeled insect pests while supporting season-long plant health.



POWERGUARD
BROAD-SPECTRUM BIOFUNGICIDE

Broad-spectrum biofungicide providing PPFM-driven ISR, hormone balance, stress tolerance, and enhanced vigor.



PREPHYTE
BROAD-SPECTRUM FUNGICIDE

Bacillus-based biofungicide delivering SAR activation, ISR, direct antifungal metabolites, and rhizosphere protection.



MERISTEM
CROP PERFORMANCE

MORE BUSHEL FOR LESS



LEVEL UP EVERY ACRE

Co-packed with GuardC™, GuardX™ PowerGuard™ and Prephyte™ ST*



Revline®

Proven, industry-leading biostimulant PPFM strain that builds massive root structures & healthier plants.



PowerGuard™

EPA Reg No.: 95699-1-95552

EPA-registered biofungicide that primes the plant's natural defenses to respond quickly and powerfully when facing pressure



Prephyte™ ST

EPA Reg. No.: 94485-5-95552

Broad-spectrum, EPA-registered fungicide for prevention, control or suppression of many soil-borne diseases, including crown rot complex.



GuardX™

EPA Reg. No.: 95699-2-95552

EPA-registered bioinsecticide that colonizes the root and stays with the plant all season.



Protectis™ *Beauveria Bassiana*

A fungal strain that increases microbial activity and promotes plant vigor during periods of stress.



GuardC™

FIFRA 25b Exempt Product

Bionematicide containing Fungal Chitosan to suppress nematodes and stimulate plant development

Base Pail Seed Fluency Blend

- Seed Fluency
- Ether Enzyme Technology (*lipase & mannanase*)
- IonLock Mn & Fe
- 2.7 lbs IonLock Zinc



**VALUE IN THE PAIL:
\$114.00/A**

*GuardC: FIFRA 25b Exempt Product | GuardX EPA Reg No.: 95699-2-95552 | PowerGuard EPA Reg No.: 95699-1-95552 | Prephyte ST EPA Reg No.: 94485-5-95552

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DEFEND — TAKE COST OUT

Bio-Capsule Technology	Hopper Throttle MaxStax Corn: Components	Farmer Traditional: Components	Farmer Traditional: Cost Per Unit of Corn
	PowerGuard*	Broad-Spectrum biofungicide with full season activity	\$15.00
	Prephyte ST*	In-furrow fungicide	\$15.00
	GuardX*	CRW and broad-spectrum seedling pest and nematode protection	\$28.00
	GuardC*		
	Protectis	<i>Beauveria Bassiana</i>	\$3.00
TOTAL DEFENSE VALUE: \$61.00/acre			

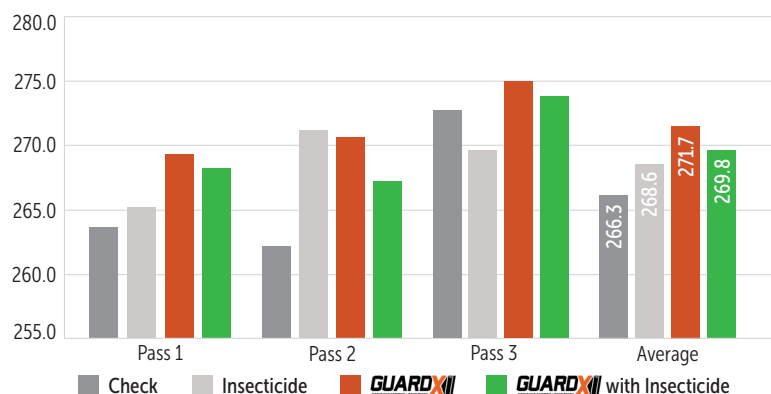
OPTIMIZE — MAKE IT PAY

Bio-Capsule Technology	Hopper Throttle MaxStax Corn: Components	Plant Health & Yield Drivers: Components	Plant Health & Yield Drivers: Cost
	Revline	PGR	\$6.00
	Nitrogen-Fixing Microbes	Nitrogen Fixation Biology	\$15.00
	Ether Enzyme Technology (lipase & mannanase)	Starter: ie. 6-24-6	\$24.00
	IonLock Zinc	1.5 qt Zinc 9% EDTA	\$6.00
	IonLock Mn & Fe	Mn & Fe	\$1.00
	Seed Fluency	Seed Fluency	\$1.00
TOTAL OPTIMIZATION VALUE: \$53.00/acre			

REDUCE YOUR COST OF TRADITIONAL IN-FURROW FERTILITY, INSECTICIDE, AND FUNGICIDE.

GuardX shows a **+3.1 bu/a yield advantage** and **10% less damage from rootworms** when compared to traditional insecticide in third-party field plot trials in Illinois.

Increased Yield Potential with GuardX



Rootworm Damage across Treatments

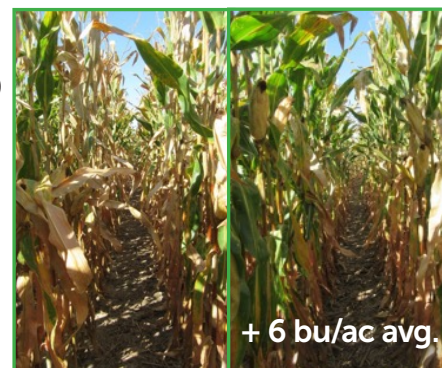
Nodes	% Damage Check	% Insecticide	% Hopper Throttle GUARDX
6	33%	25%	16%
5	38%	28%	14%
4	29%	14%	10%
% Total Damage	34%	32%	22%



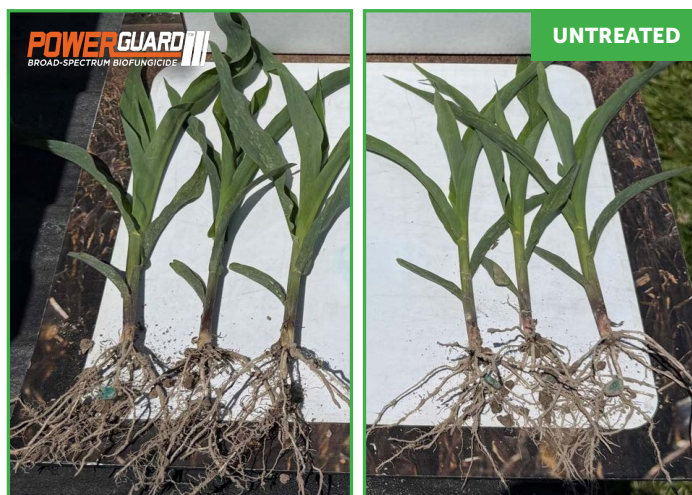
In 65 multi-year, large plot field trials across 9 states, Guard X has show an **average yield increase of +8.8 bu/a** compared to grower standard practice. This average is an aggregate of trials with and without CRW pressure.

PREPHYTETM ST
BROAD-SPECTRUM FUNGICIDE

Across 40 plots at 10 trial sites, Prephyte ST (179.9 bu/ac) applied in-furrow had an **average yield increase of +6 bu/a** compared to the untreated control (173.9 bu/ac).



ILLINOIS FIELD RESULT



ILLINOIS FIELD RESULT



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