MERISTEM®

CROP PERFORMANCE

OSC

OPHEIM | SEED & CHEMICAL

Shane Brockhoff

Michael Martin

12.4.25

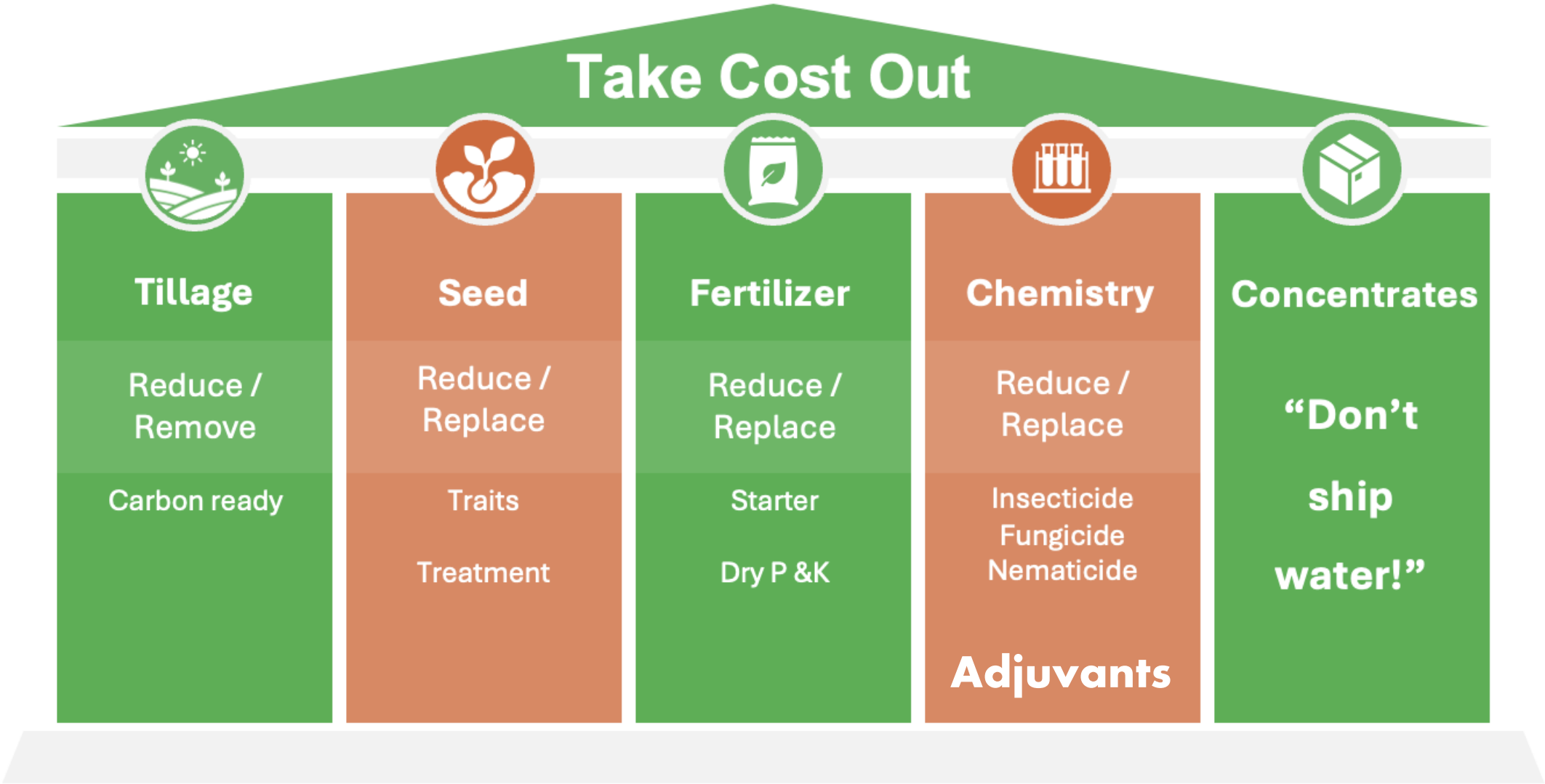
It’s tough out there…

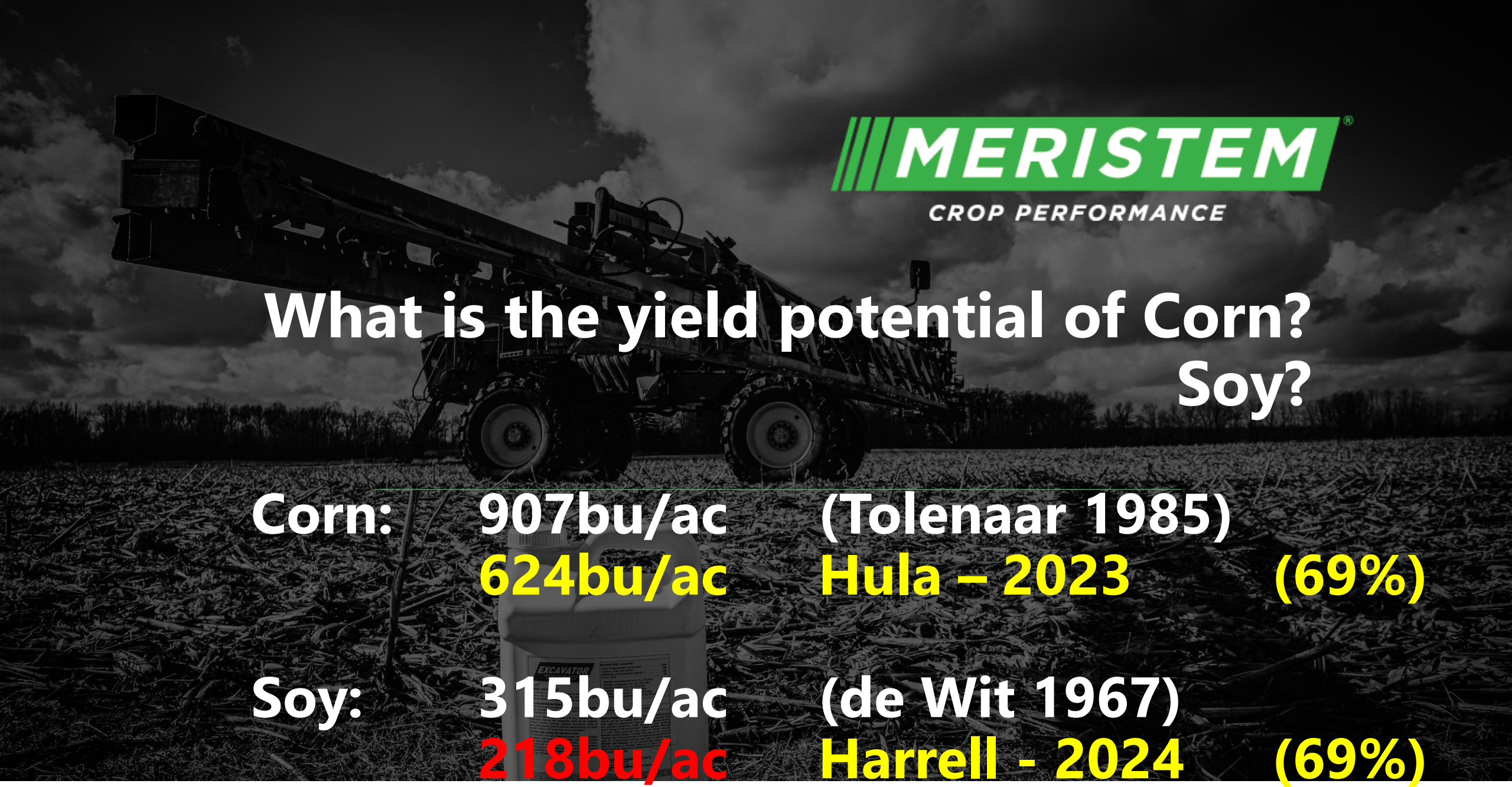
Why is Meristem here?

To take cost out of production.
Bring innovation to the market.

Meristem: Always More Bushels for Less

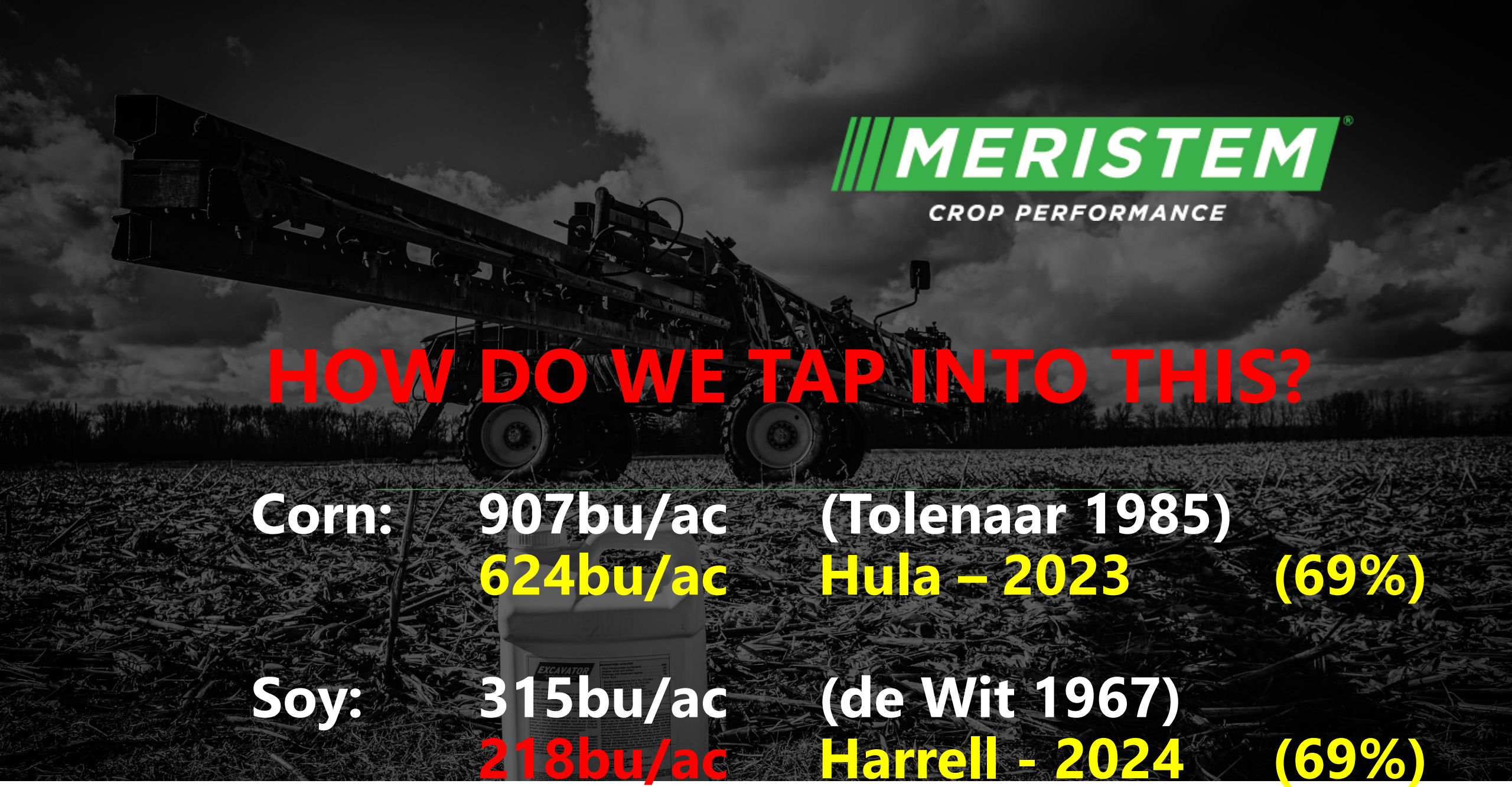
Cut Distribution Cost + Innovation through Patented Delivery Systems



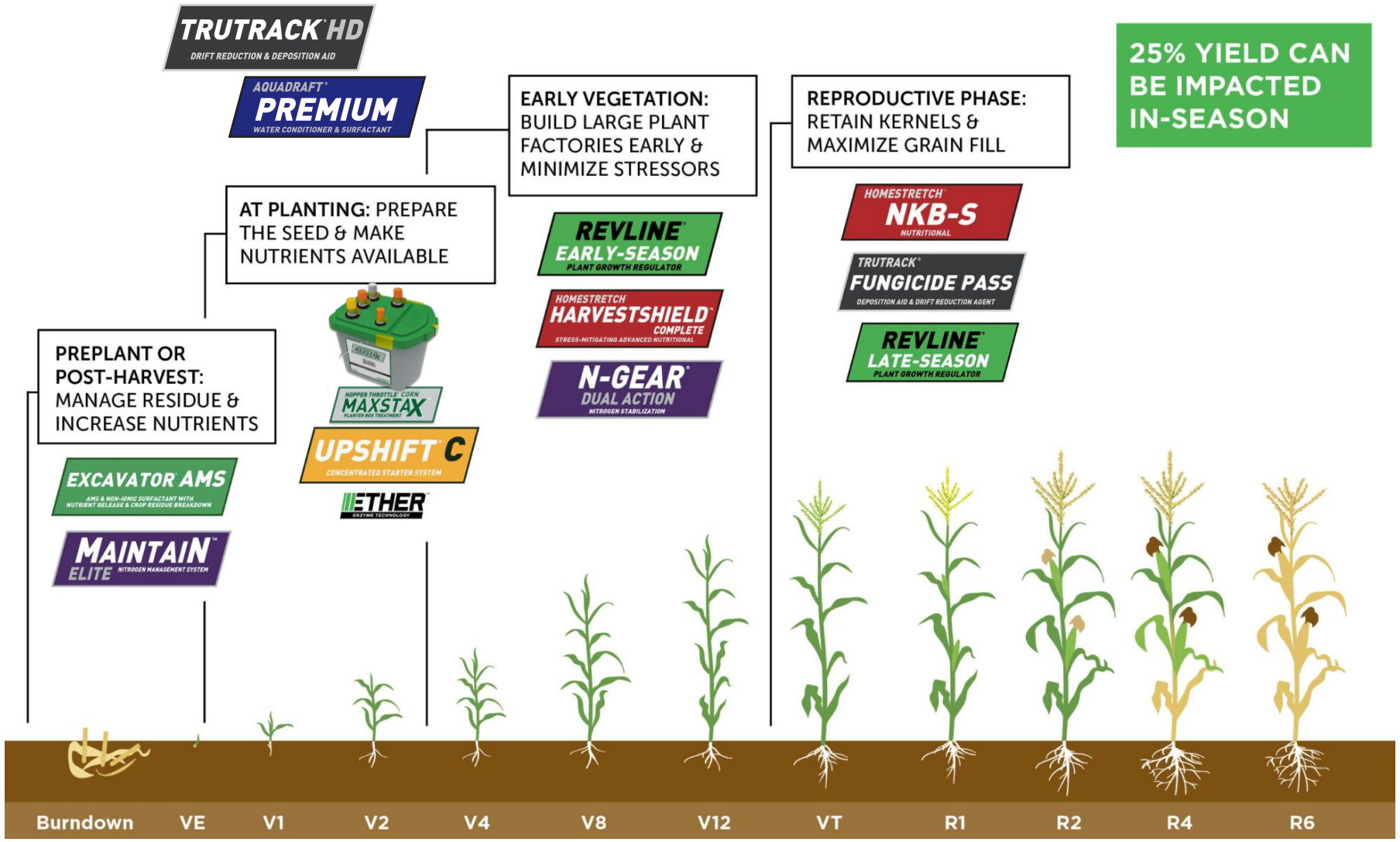


What is the yield potential of Corn? Soy?

Corn:	907bu/ac	(Tolenaar 1985)	
	624bu/ac	Hula – 2023	(69%)
Soy:	315bu/ac	(de Wit 1967)	
	218bu/ac	Harrell - 2024	(69%)


MERISTEM
CROP PERFORMANCE
HOW DO WE TAP INTO THIS?
Corn: 907bu/ac (Tolenaar 1985)
624bu/ac Hula – 2023 (69%)
Soy: 315bu/ac (de Wit 1967)
218bu/ac Harrell - 2024 (69%)

The Meristem System



MERISTEM
CROP PERFORMANCE

The Meristem System

25% YIELD CAN BE IMPACTED IN-SEASON

PREPLANT OR POST-HARVEST: MANAGE RESIDUE & INCREASE NUTRIENTS

- EXCAVATOR AMS — AMS & NON-IONIC SURFACTANT WITH NUTRIENT RELEASE & CROP RESIDUE BREAKDOWN

AT PLANTING: PREPARE THE SEED & MAKE NUTRIENTS AVAILABLE

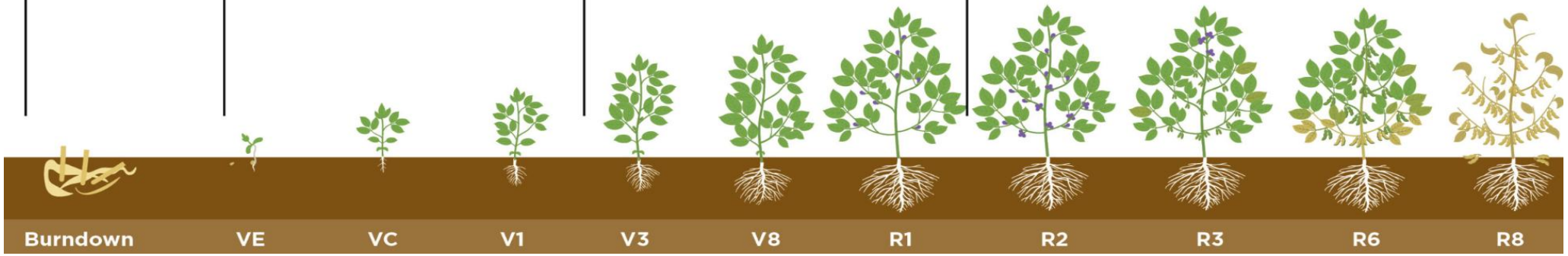
- TRUTRACK HD — DRIFT REDUCTION & DEPOSITION AID
- AQUADRAFT PREMIUM — WATER CONDITIONER & SURFACTANT
- HOPPER THROTTLE SOYBEAN MAXSTAX — PLANTER BOX TREATMENT

EARLY VEGETATION: BUILD LARGE PLANT FACTORIES EARLY & MINIMIZE STRESSORS

- REVLINE EARLY-SEASON — PLANT GROWTH REGULATOR
- HOMESTRETCH HARVESTSHIELD COMPLETE — STRESS-MITIGATING ADVANCED NUTRITIONAL

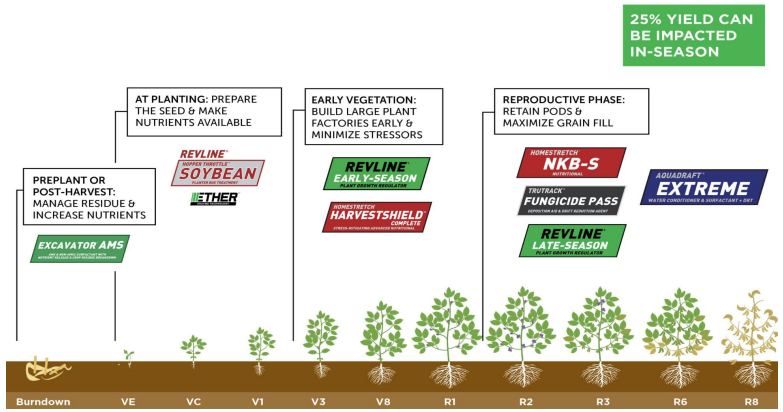
REPRODUCTIVE PHASE: RETAIN PODS & MAXIMIZE GRAIN FILL

- HOMESTRETCH NKB-S — NUTRITIONAL
- TRUTRACK FUNGICIDE PASS — DEPOSITION AID & DRIFT REDUCTION AGENT
- REVLINE LATE-SEASON — PLANT GROWTH REGULATOR



MERISTEM
CROP PERFORMANCE

The System Approach – More Bu 4 Less



MERISTEM CROP PERFORMANCE

Standard Spend per Acre
(No Land/Equip/Insurance)

Seed	$45
Liq. Seed Trtmt	$30
Dry Fert (80-80)	$120
Chemical/Adj	$70
Fungicide	$30
Total:	**$295**

Meristem Spend per Acre
(No Land/Equip/Insurance)

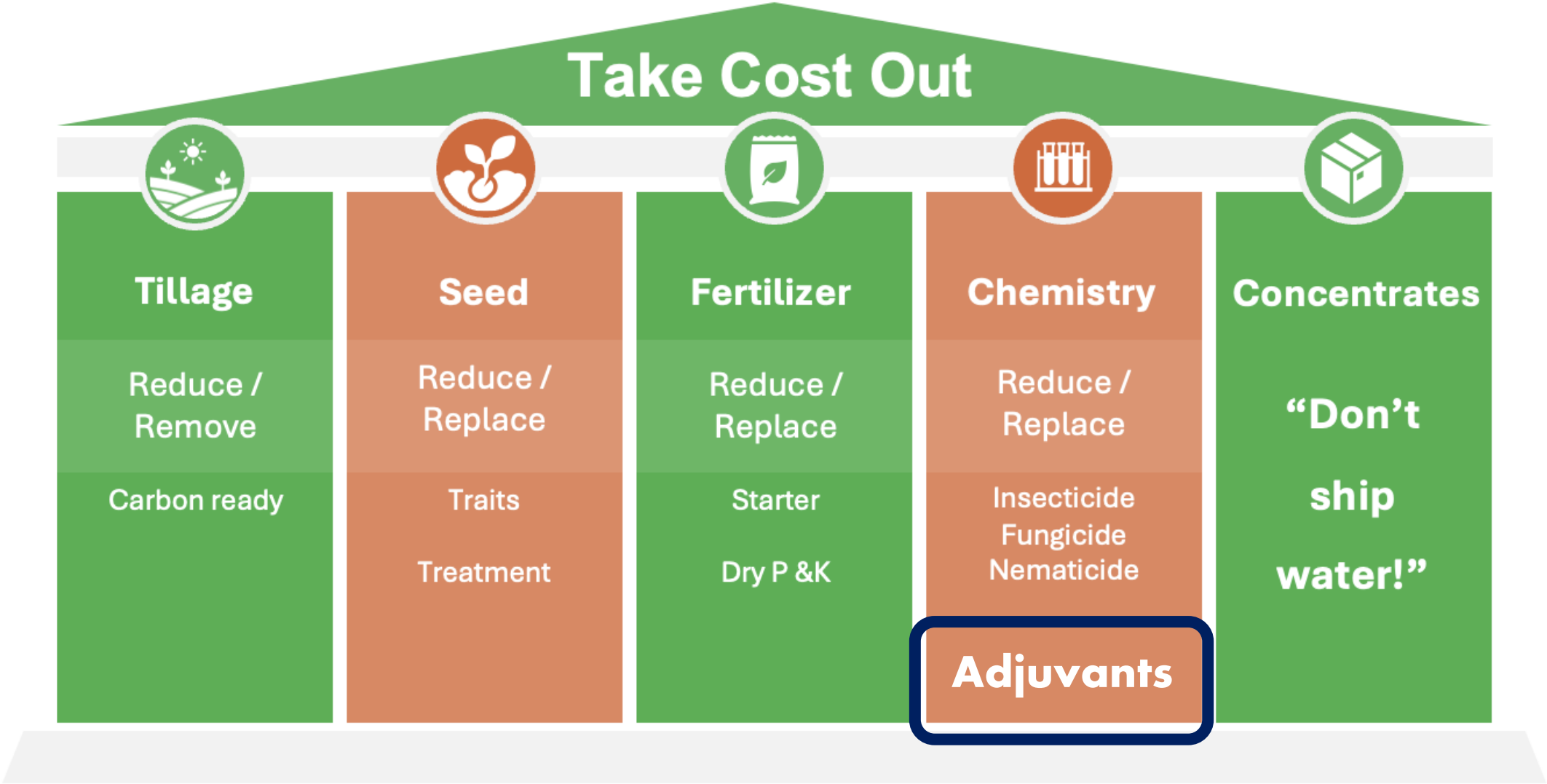
Seed	$45
Max Seed Trtmt	$30
Excavator AMS	$15
Chemical/Adj	$65
Fungicide	$20
Foliar Protection	$40
Total:	**$215**

$80/ac Less
Protect Yield

MERISTEM CROP PERFORMANCE

Bray P1 > 20ppm K > 200ppm

Cut Distribution Cost + Innovation through Patented Delivery Systems



Adjuvants

What are the #1 sold Adjuvants globally today?

MasterLock®
ADJUVANT
MasterLock adjuvant helps get more fungicide deeper into the canopy so you can stay ahead of disease and late-season stress.

InterLock®
ADJUVANT
InterLock adjuvant helps improve herbicide deposition and reduce drift potential for enhanced weed control.

Class Act®
ADJUVANT
Class Act NG adjuvant helps drive herbicide actives into weeds and reduces hard water antagonism for more aggressive control.

TRUTRACK® FUNGICIDE PASS
DEPOSITION AID & DRIFT REDUCTION AGENT

TRUTRACK® HD
DRIFT REDUCTION & DEPOSITION AID

AQUADRAFT® PREMIUM
WATER CONDITIONER & SURFACTANT

MERISTEM
CROP PERFORMANCE

MasterLock®

NONIONIC SURFACTANT

REDUCES SURFACE TENSION.

High surface tension =
Low dispersion and adhesion.

Low surface tension =
High dispersion and adhesion.

\+

DRIFT REDUCTION TECHNOLOGY

REDUCES DRIFT AND EVAPORATION.

SR11008 (10 HZ PWM)
@ 40 PSI
Water
10 MPH Wind

SR11008 (10 HZ PWM)
@ 40 PSI
MasterLock - 6.4 oz./A
10 MPH Wind

\+

DROPTIGHT® TECHNOLOGY

REDUCES BOUNCE.

Water MasterLock

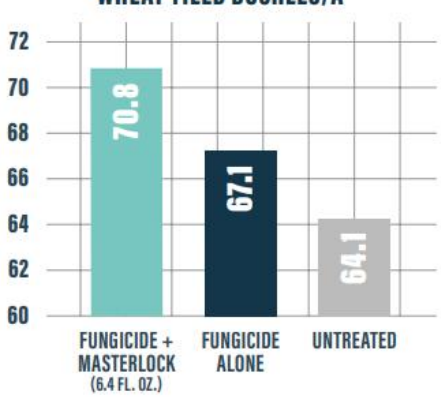
MASTERLOCK ADJUVANT HELPS IMPROVE COVERAGE DEEP INTO THE CANOPY

If you're only getting active ingredients to the top sections of the plant, you're only addressing part of the problem. For optimal control and fungicide efficacy, sufficient coverage from top to bottom is critical.

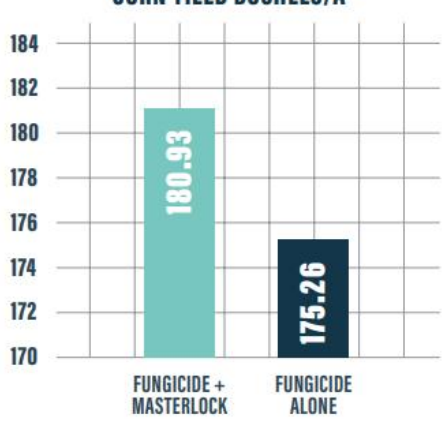
INCREASED WHEAT YIELD BY AN AVERAGE OF

3.7 BU/A

MASTERLOCK ADJUVANT HELPS IMPROVE FUNGICIDE RESPONSE ON WHEAT



MASTERLOCK ADJUVANT HELPS IMPROVE FUNGICIDE RESPONSE ON CORN



INCREASED CORN YIELD BY AN AVERAGE OF

5.7 BU/A

https://storwukenticomedia.blob.core.windows.net/media/wfu/media/images/builtitfor-images/quick-hit-guides/masterlock-quick-hits-guide.pdf

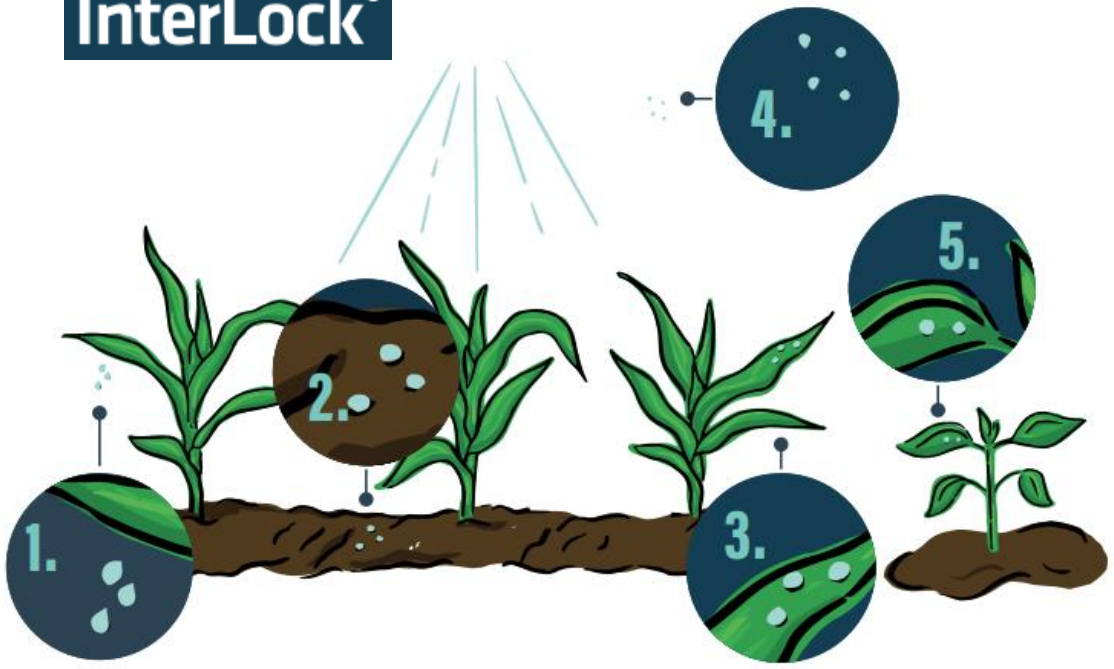
TRUTRACK®
FUNGICIDE PASS
DEPOSITION AID & DRIFT REDUCTION AGENT

4oz/ac Ground
1.2 - 2oz/ac Aerial

FATE OF A DROPLET

InterLock®

1. VERY LARGE DROPLETS (>600 µM) CAN RUN OR BOUNCE OFF THE LEAF.
2. SOME SPRAY IS LOST TO THE SOIL SURFACE.
3. OPTIMAL DROPLETS ARE DELIVERED TO THE TARGET.
4. VERY SMALL DROPLETS (<50 µM) CAN EVAPORATE.
5. SMALL DROPLETS (50-200 µM) CAN DRIFT AWAY AND DEPOSIT OFF TARGET.



TRUTRACK® HD

DRIFT REDUCTION & DEPOSITION AID

3-4 oz/ac Ground

SPRAY COMPARISON WIND XR TEEJET® NOZZLE

HERBICIDE ALONE

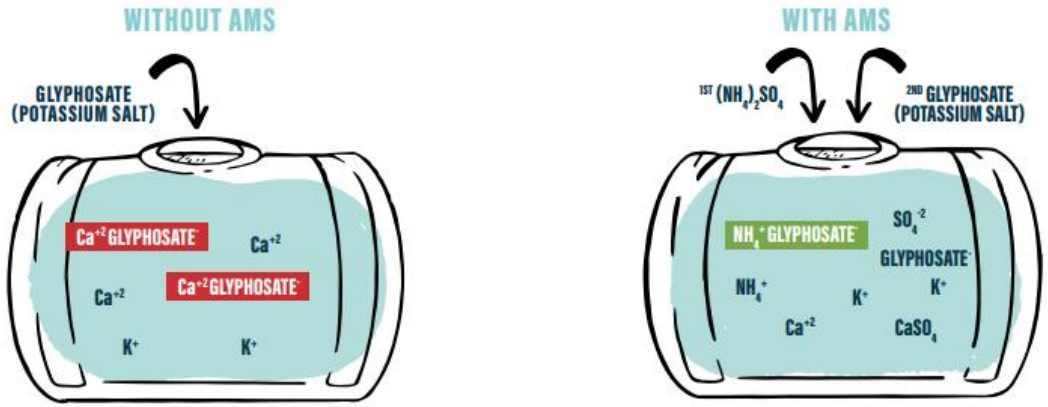
HERBICIDE + INTERLOCK

dows.net/media/wfu/media/images/builtitfor-images/quick-hit-guides/interlock-quick-hits-guide.pdf

TANK

Conditions water to prevent cations from binding with negatively charged herbicides and reducing efficacy.

Class Act®

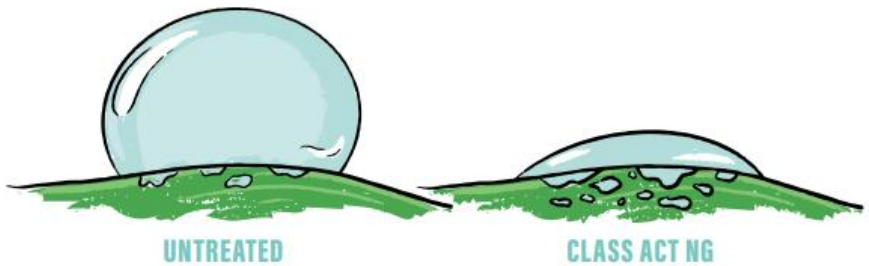


Glyphosate is bound by hard water cations, which are less likely to be absorbed into plant tissue.

Ammonium glyphosate is readily absorbed into plant tissue.

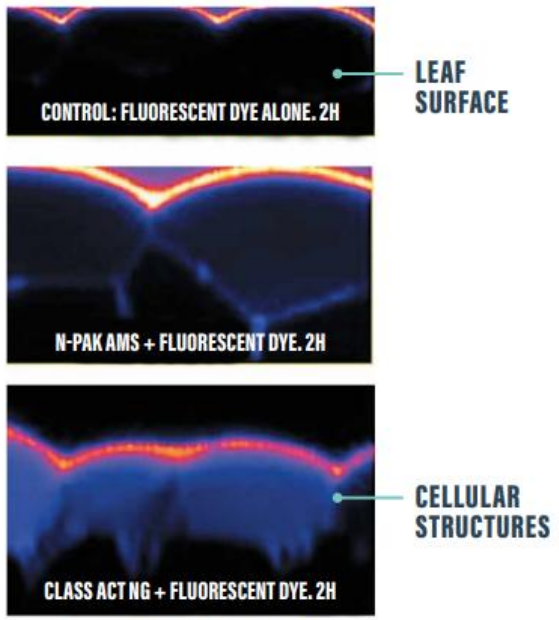
LEAF SURFACE

USE RATE 2.5 - 5.0% V/V (2.5-5.0 GAL./100 GAL.)



1. Reduces surface tension to increase droplet spread for improved absorbency.
2. Increases humectancy so droplets stay wet on the leaf longer, leading to more uptake before evaporation.
3. **Increases active ingredient uptake by 1.7x on average compared to AMS[1] for faster herbicide efficacy.**

CONFOCAL MICROSCOPY



AQUADRAFT® PREMIUM
WATER CONDITIONER & SURFACTANT

Increases Active Ingredient Uptake 1.7x vs AMS alone

1gal/100gal Enlist/RR
2gal/100gal Liberty

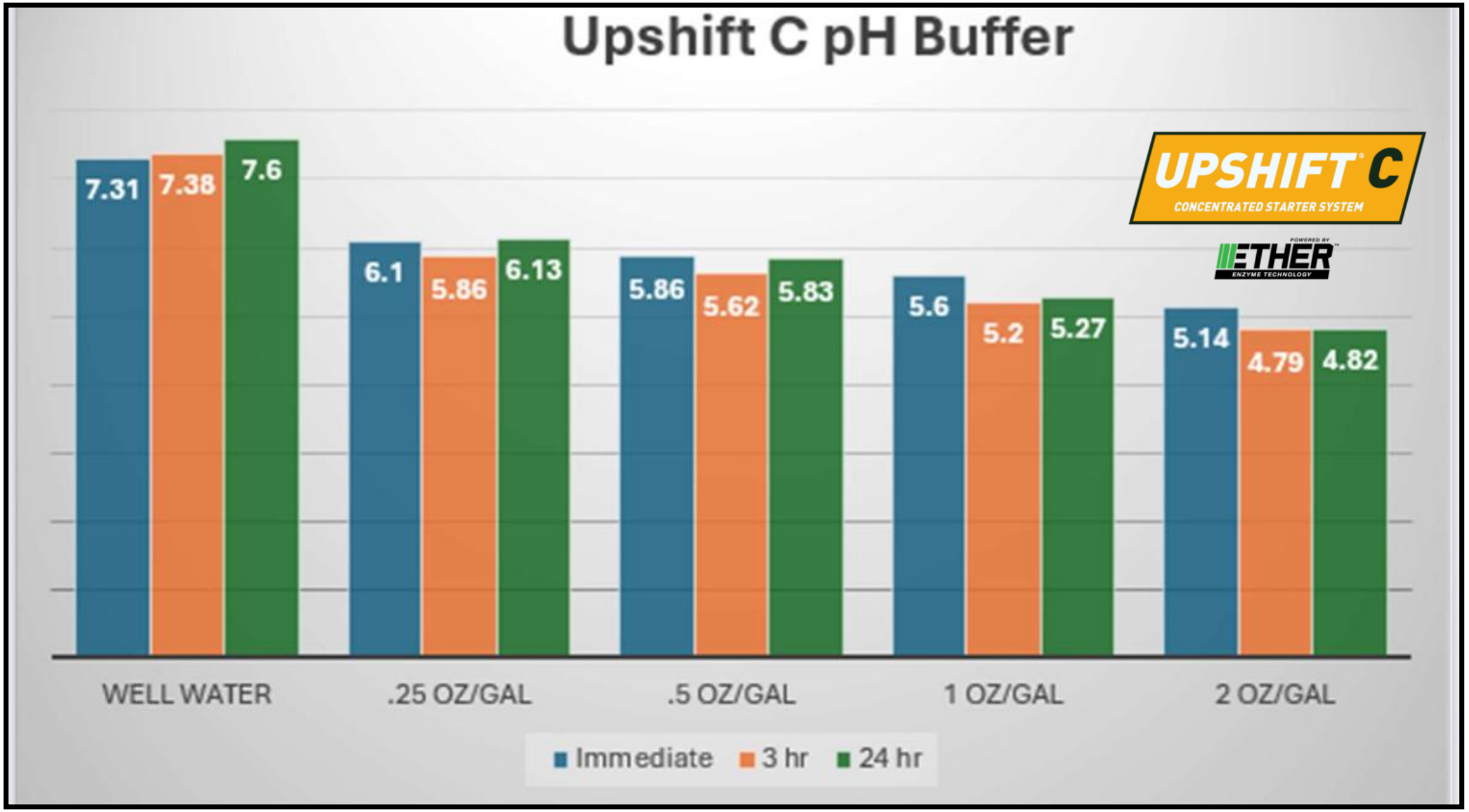
https://storwukenticomedia.blob.core.windows.net/media/wfu/media/images/builtitfor-images/quick-hit-guides/class-act-ng-quick-hits-guide.pdf

PRODUCT HALF LIFE BY pH

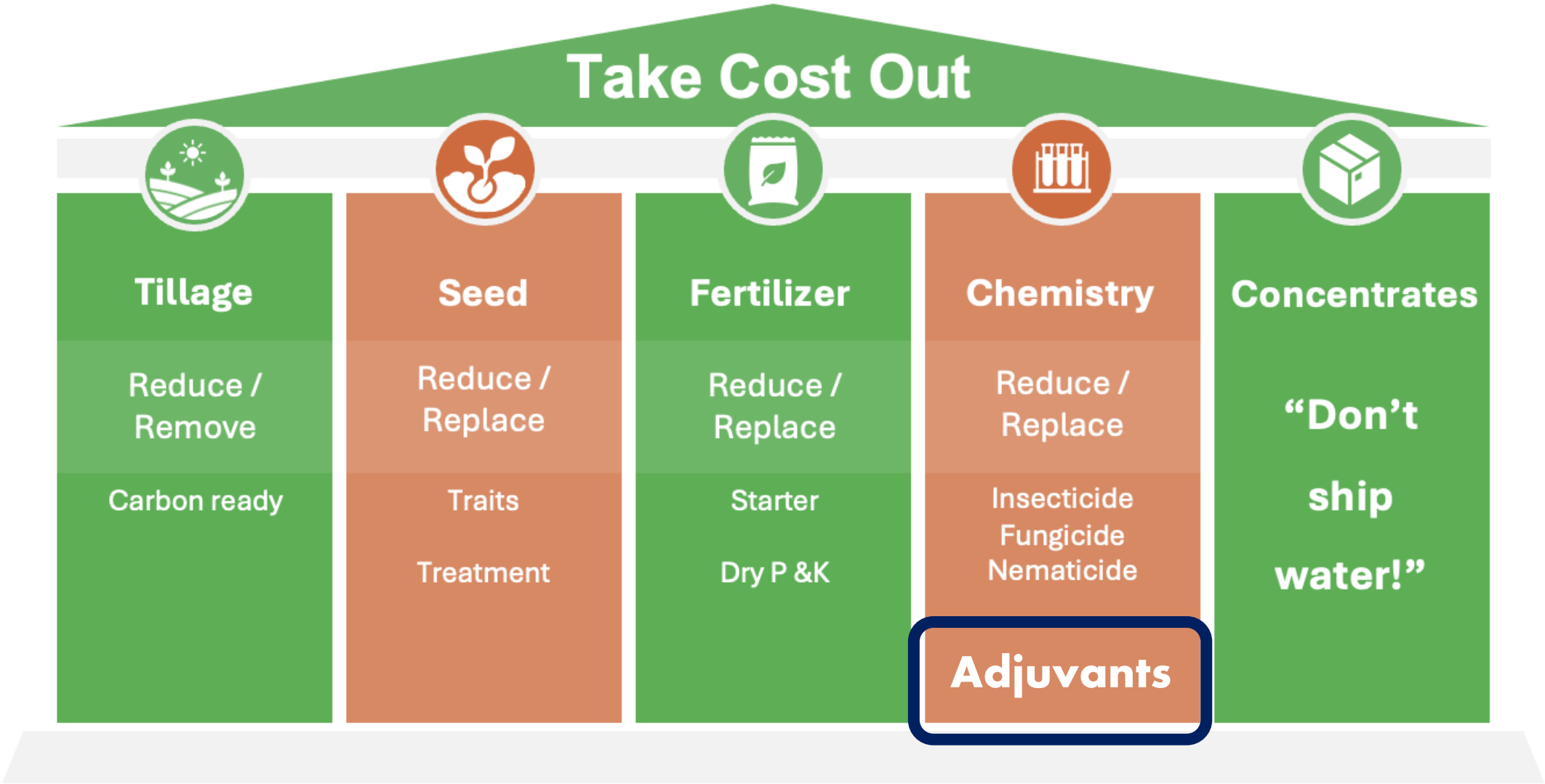
PURDUE UNIVERSITY

PRODUCT	pH 9	pH 7	pH 5
Herbicide	10 min	17 hr	16 days
Fungicide	2 min	3 hr	10 hr
Insecticide	24 hr	10 day	Stable

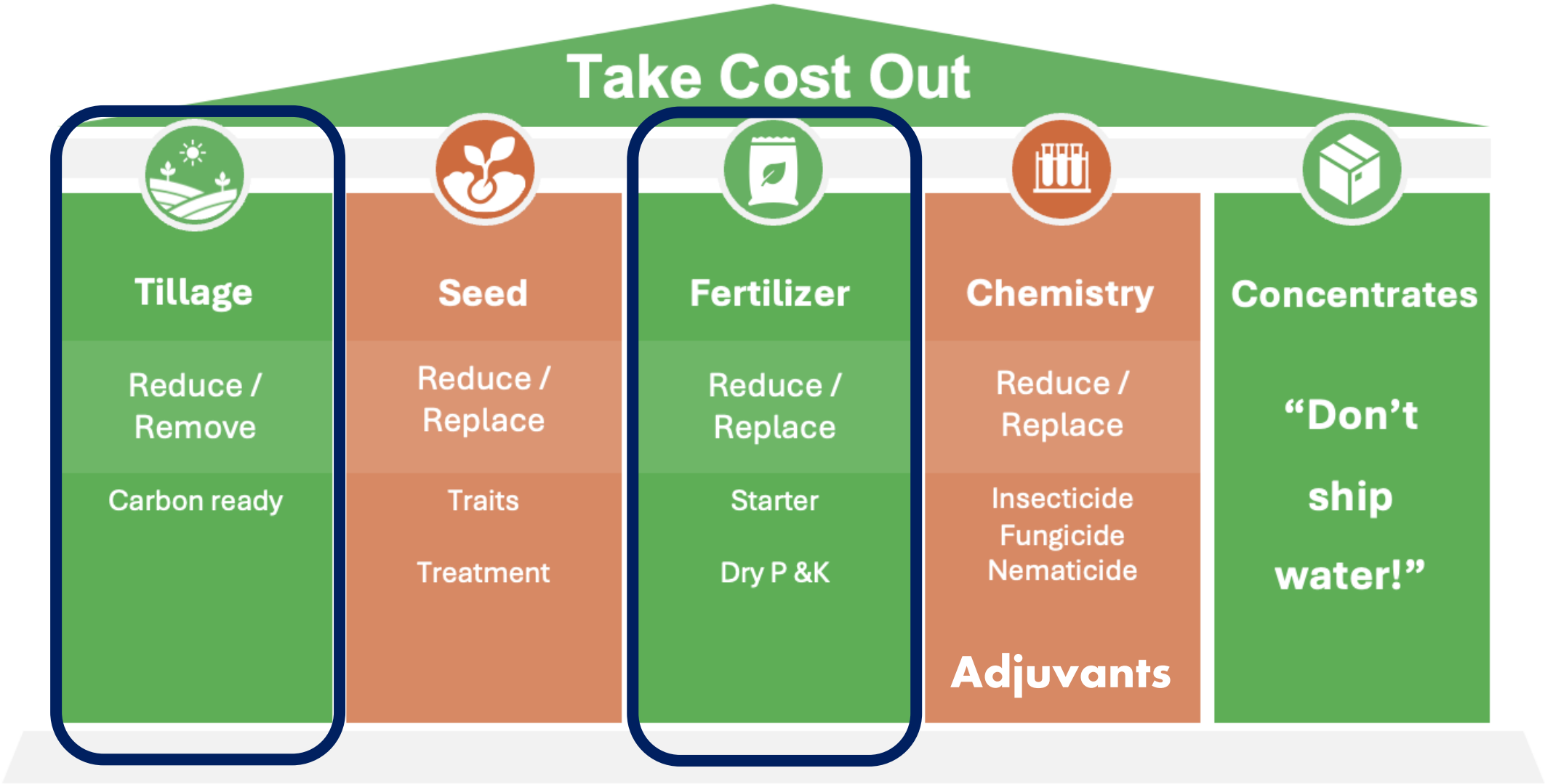
The Impact of Water Quality on Pesticide Performance Purdue Extension PPP-86


Upshift C pH Buffer
UPSHIFT C
CONCENTRATED STARTER SYSTEM
POWERED BY
ETHER
ENZYME TECHNOLOGY
7.31
7.38
7.6
6.1
5.86
6.13
5.86
5.62
5.83
5.6
5.2
5.27
5.14
4.79
4.82
WELL WATER
.25 OZ/GAL
.5 OZ/GAL
1 OZ/GAL
2 OZ/GAL
Immediate
3 hr
24 hr

Cut Distribution Cost + Innovation through Patented Delivery Systems



Cut Distribution Cost + Innovation through Patented Delivery Systems



N-GEAR® DUAL ACTION
NITROGEN STABILIZATION

NPBT + Synthetic net – hold N in rootzone

2 Quarts/Ton Urea

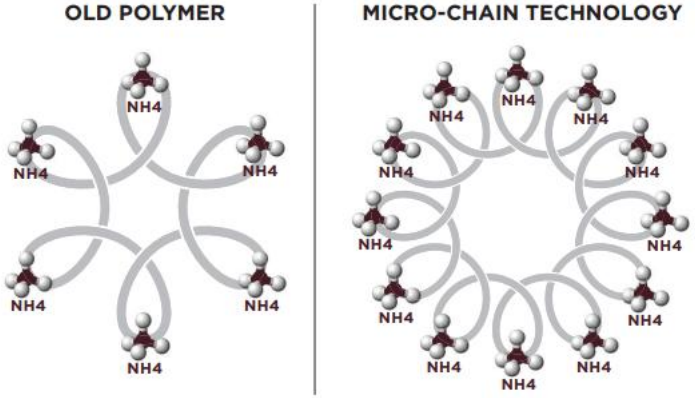
0.27oz / Treated Gallon UAN
(ie. 10gal UAN = 2.7oz)

13.5oz/ac Manure application

Biological Safe N Mgmt.

N-GEAR® DUAL ACTION gives you flexibility of both above and below ground nitrogen protection. N-GEAR DUAL ACTION is specifically formulated for use in urea and UAN scenarios.

Micro-Chain Technology captures and maintains more nitrogen in the upper root zone, increasing nitrogen uptake and utilization. The NH4 molecules are more densely packed, leading to more binding sites to limit nitrogen loss.



PRODUCT BENEFITS

- Dual-action protection
  - Up to three weeks of above-ground protection from volitization
  - Reduces nitrogen loss below ground due to leaching
- Increases nitrogen efficiency, availability and uptake
- Formulated to help build soil biological activity
- Non-toxic with no detrimental effects on soil bacteria and non-corrosive to equipment
- Specifically formulated for urea and UAN, and can be used with multiple fertilizer sources

ACTIVE INGREDIENTS

NBPT (N-(n-butyl)-thiophos phoric triamide) Solution (CAS No. 94317-64-3)	20.0%
Inactive Ingredients	
Propylene Glycol, 1-methyl-2-pyrrolidoneand Copolymer Surfactant	80.0%
TOTAL	100.0%

DIRECTIONS FOR USE

UREA BLENDING:
May be used to treat urea prior to application in the field, including pre-treatment. Under certain temperature and humidity conditions, urea blended with N-GEAR DUAL ACTION may stick together. Application of urea to the field is recommended soon after treatment for best results.

UAN SOLUTIONS:
May be mixed with liquid fertilizers such as aqua ammonia or other liquid ammoniacal or urea nitrogen fertilizers. Liquid fertilizers containing high levels of phosphate should not be used with N-GEAR DUAL ACTION. If pesticides are added to the tank mix in conjunction with liquid fertilizers, a compatability jar test should be performed prior to large scale application to the field.

LIQUID MANURE:
May be mixed with liquid animal manures. N-GEAR DUAL ACTION may be applied to slurry pit or through an injection system as material is loaded into applicator.

RECOMMENDED USE RATES

Urea (46-0-0): 2-3 quarts per ton of urea

UAN Solutions (28-32%): 1.5 quarts per ton of total solution

Liquid Manure: 13.5-18 oz per acre

MAINTAIN™ ELITE NITROGEN MANAGEMENT SYSTEM

Calcium Nitrate – Increase NH_4 capture – retention

Synthetic CEC Net Polymer

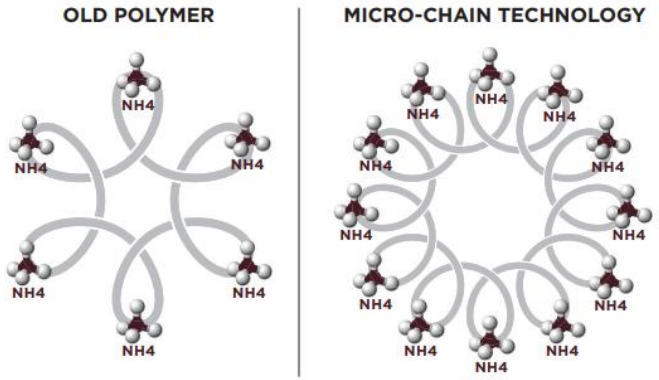
Organic Acids – Carbon sources to enhance N Uptake

6 oz/50# Actual N applied

Bio Safe NH3 Treatment

Farmers that drive for consistent profits know that season-long availability of nitrogen is critical to maximizing corn yields. MAINTAIN™ ELITE utilizes an improved formulation to extend nitrogen availability and uptake and reduce nitrogen loss. MAINTAIN ELITE provides more calcium and enhanced polymer technology. It is intended for use as an additive to anhydrous ammonia and liquid fertilizer applied below ground.

Micro-Chain Technology captures and maintains more nitrogen in the upper root zone, increasing nitrogen uptake and utilization. The NH4 molecules are more densely packed, leading to more binding sites to limit nitrogen loss.



PRODUCT BENEFITS

- Does not kill biologicals or beneficial bacteria
- Reduces leaching of nitrogen to groundwater
- Does not corrode equipment
- Manages nitrogen during key growth stages
- No planting restrictions

ACTIVE INGREDIENTS	
Calcium	10.0%
Poloxethylene Glycol, Co-Polymer	28.0%
Other Proprietary Ingredients	62.0%
TOTAL	100.0%

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS
Carboxylic and Organic Acids

DIRECTIONS FOR USE

ANHYDROUS AMMONIA:
Operator must follow all anhydrous safety precautions. Inject MAINTAIN ELITE through liquid ll valve. If pressure exceeds 150 psi, inject MAINTAIN ELITE through liquid withdraw valve. Proper maintenance is required. Flush valve thoroughly with anhydrous. Coat ll valve thoroughly with a petroleum or silicone based lubricant. Apply treated anhydrous using conventional anhydrous application equipment.

LIQUID FERTILIZER:
Liquid fertilizers containing high levels of phosphate should not be used with MAINTAIN ELITE. If pesticides are added to tank mix in conjunction with liquid fertilizers, a compatibility jar test should be performed prior to large scale application to field.

RECOMMENDED USE RATES

Anhydrous Ammonia: Use 6 oz. of per 50 units of Nitrogen, up to a maximum use rate of 24 oz. per acre.

UAN Solutions (28-32%): 2 quarts per ton of total solution

Liquid Manure: 24-32 oz per acre

PRODUCT AVAILABILITY

Available in 2x2.5 gallon jugs (36 cases per pallet), 250-gallon totes or bulk.

Density: 12.0 lb/gal

Specific Gravity: 1.44 at 68ºF (20ºc)

NUE?

BREAKTHROUGH TO EXCELLENCE

MERISTEM DEALER PARTNER EXCHANGE

Full Adjuvant Package
+ Residue Decomposition
+ Fertilizer Pass

EXCAVATOR® AMS

AMS & NON-IONIC SURFACTANT WITH NUTRIENT RELEASE & CROP RESIDUE BREAKDOWN

CYCLESTRIKE™ LR

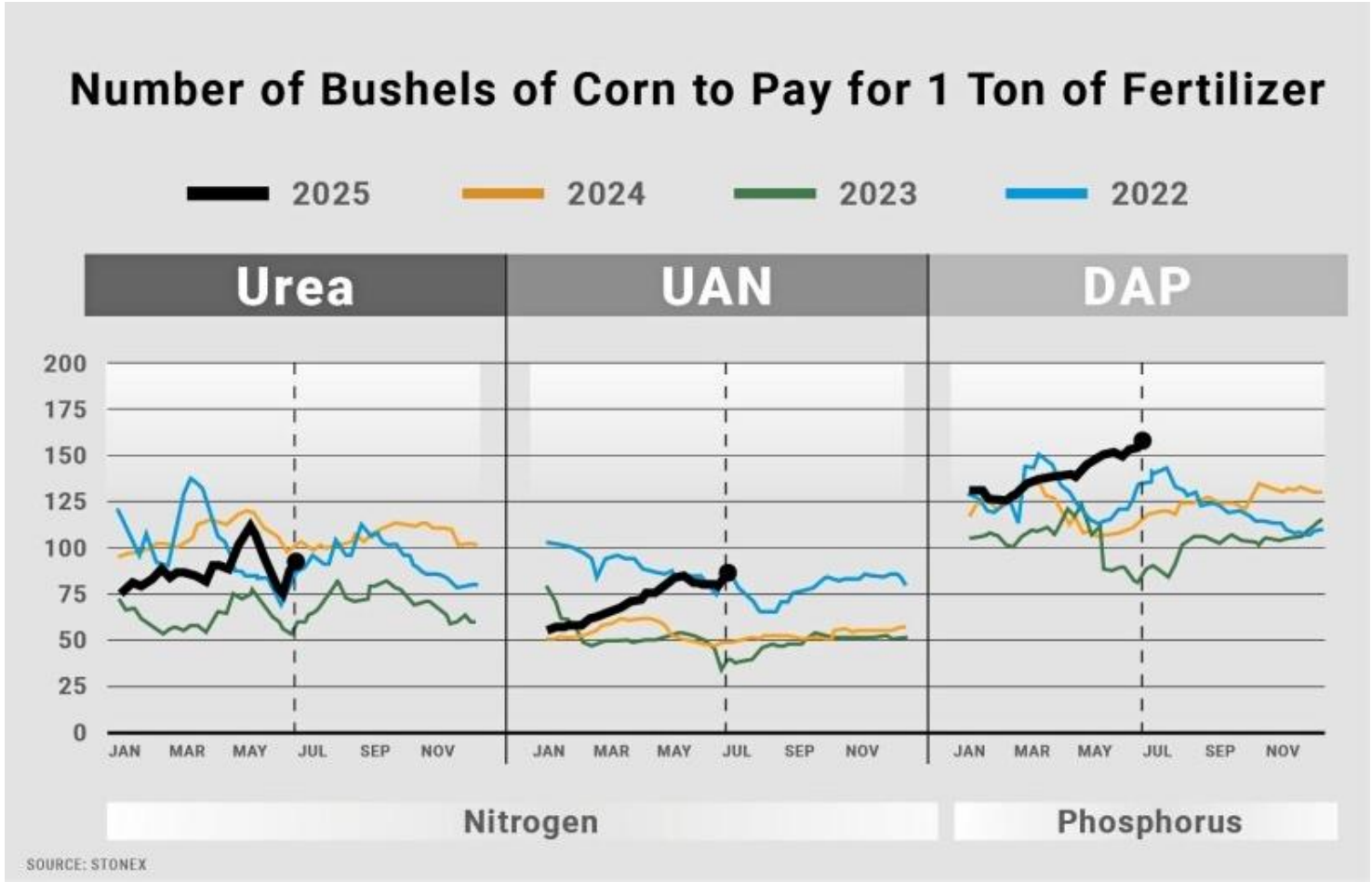
MICROBIAL NUTRIENT ACCELERATOR & RESIDUE BREAKDOWN

BioFlex™

MERISTEM®

CROP PERFORMANCE

Fertilizer Prices Vs Corn Prices Are Now Some of the Worst in History



- Urea: 3rd worst in history
- UAN: 2nd worst in history
- **Phosphate: WORST in history**

By **Tyne Morgan**
Updated July 02, 2025 08:22 am

https://www.agweb.com/news/crops/crop-production/fertilizer-prices-vs-corn-prices-are-now-some-worst-history

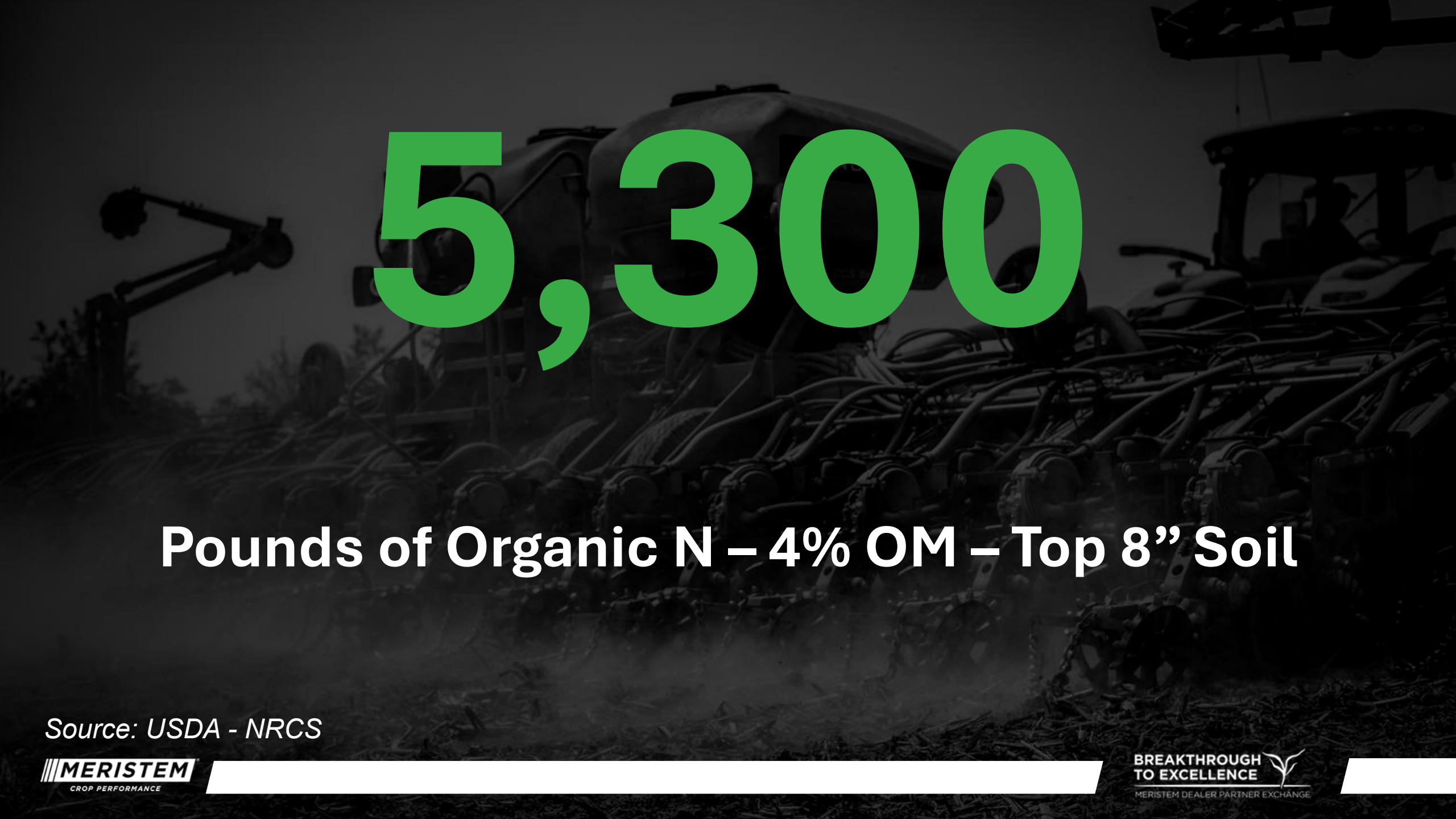
“The largest fertilizer shed in America is **the farmer’s field.**”

- Shaun Nelson
Rush River
North Dakota

How many pounds of N does it take to produce a bushel of corn?

1.2lb N per Bushel….

Do you apply that much?



Source: USDA - NRCS

1% O.M. = 20# N

Mineralized per 1% O.M. on Avg Year

Can we influence this?

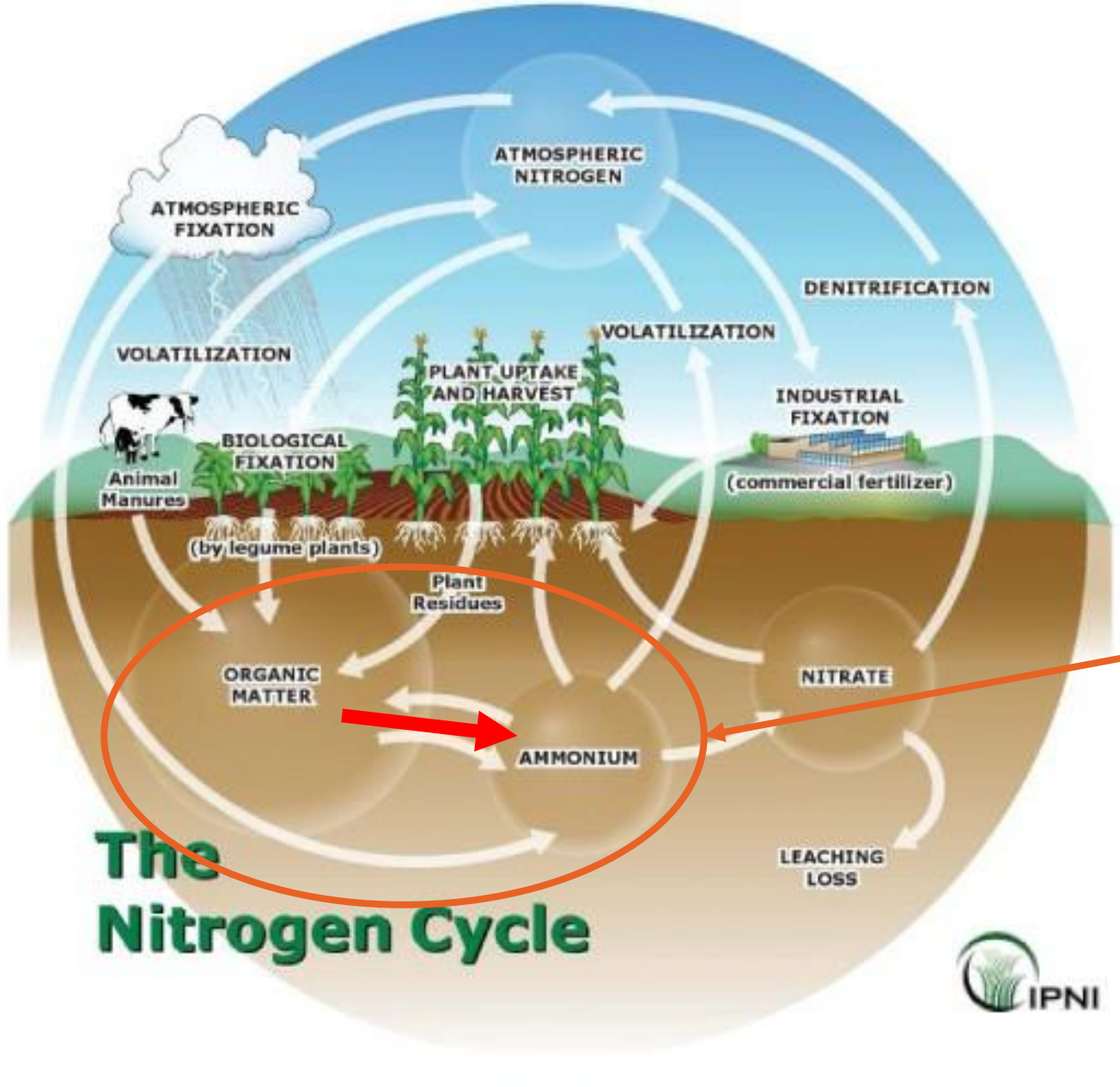
EXCAVATOR® AMS

AMS & NON-IONIC SURFACTANT WITH NUTRIENT RELEASE & CROP RESIDUE BREAKDOWN

CYCLESTRIKE® LR

MICROBIAL NUTRIENT ACCELERATOR & RESIDUE BREAKDOWN

BioFlex™



Mineralization

Conversion of organic N to mineral NH^{4+}

NUE

Source: Univ. of Delaware

Norman Borlaug

Founder of the Green Revolution

BREAKTHROUGH TO EXCELLENCE
MERISTEM DEALER PARTNER EXCHANGE

Nutrient	Total Pounds Top 6” Soil
Phosphorus	1,200
Potassium	50,000
Sulfur	800

Pounds of Nutrition – 3% OM – Top 6”
Silty Clay Loam Soil – CEC of 18

What does a soil test show you?

Source: Gardner et al., Physiology of Crop Plants, 1985, and Lipman Conybeare (1936)

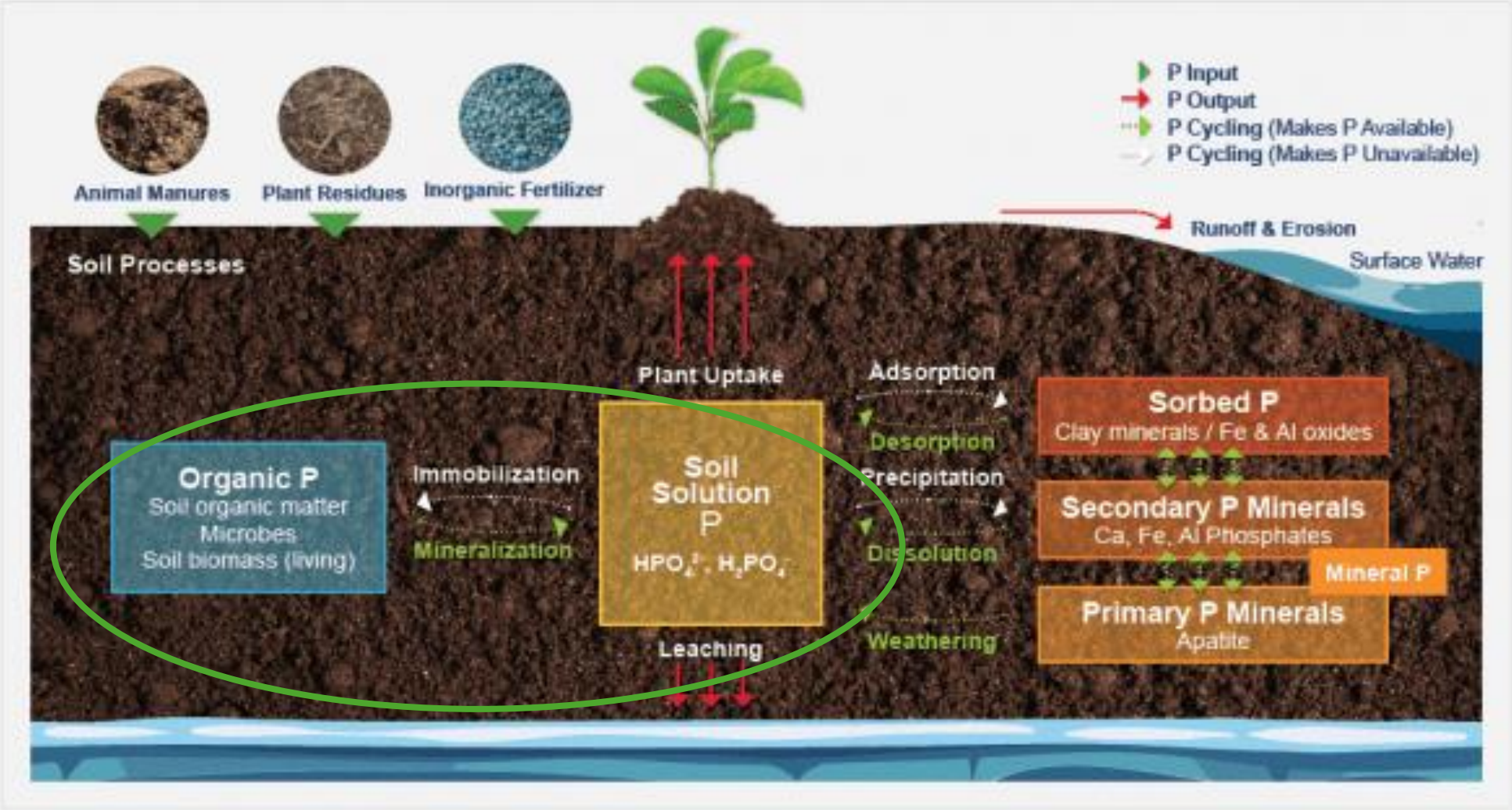
Phosphorus Cycle

EXCAVATOR AMS
AMS & NON-IONIC SURFACTANT WITH NUTRIENT RELEASE & CROP RESIDUE BREAKDOWN

CYCLESTRIKE LR
MICROBIAL NUTRIENT ACCELERATOR & RESIDUE BREAKDOWN

BioFlex™

Increase soil TESTS w/o applying P



Source: Univ. of Alabama A&M + Auburn Ext.

Virginia Farmer Hits 623.84 BPA

David Hula Hit Another New Record Corn Yield with 623 BPA, Now Thinks 900 BPA is Possible.

"...proponent of minimal tillage practices, such as strip tillage, he's found success with some biologicals.

Hula likes to use products, **such as Excavator by Meristem, that help break down residue while also releasing much-needed nutrients in the soil to help feed the crop...and reduces the amount of fertilizer he needs to apply."**

Source: https://www.agweb.com/news/crops/harvest/david-hula-hit-another-new-record-corn-yield-623-bpa-now-thinks-900-bpa-possible

BREAKTHROUGH TO EXCELLENCE
MERISTEM DEALER PARTNER EXCHANGE

The Nutritional Value of Corn Stalks

ILLINOIS
Crop Sciences
COLLEGE OF AGRICULTURAL, CONSUMER & ENVIRONMENTAL SCIENCES

Nutrient	Yield (bushels/acre)		
	200	250	300
	pounds per acre		
N	90	114	136
P_2O_5	18	23	27
K_2O	104	131	156

Corn Residue Amount Increases with Yield

ILLINOIS
Crop Sciences
COLLEGE OF AGRICULTURAL, CONSUMER & ENVIRONMENTAL SCIENCES

Grain Yield (bushels per acre)	Stover/Residue Accumulation (tons/acre)
200	4.5
250	5.7
300	6.8

Assuming a harvest index of 52%

ALL Plant Essential Nutrients are Tied Up in Organic Matter

Leverage Excavator AMS to

- Unlock your Soil
- Time Fertilizer Markets
- **Control Your <u>Bottom Line</u>**

REPORT NUMBER
17-164-0122

Midwest Laboratories®
13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770
www.midwestlabs.com

PAGE 1/2

CARDINAL AG LLC
SHANE BROCKHOFF

SOIL ANALYSIS REPORT

LAB NUMBER *314*	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O.I. percent	RATE	PHOSPHORUS P_1 (WEAK BRAY) 1:7 ppm	RATE	PHOSPHORUS P_2 (STRONG BRAY) 1:7 ppm	RATE	OLSEN BICARBONATE P ppm	RATE	NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE) POTASSIUM K ppm	RATE	MAGNESIUM Mg ppm	RATE	CALCIUM Ca ppm	RATE	SODIUM Na ppm	RATE	pH SOIL pH 1:1	BUFFER INDEX	CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED) % K	% Mg	% Ca	% H	% Na
89446	IW1	3.2	M	42	VH	51	H			208	H	268	H	2011	L			4.9	6.2	22.9	2.3	9.8	43.9	44.0	
89447	IW2	3.6	H	45	VH	63	VH			220	H	311	VH	2259	M			5.3	6.4	21.0	2.7	12.3	53.8	31.2	
89448	IW3	3.2	M	32	VH	40	H			224	H	236	M	1969	L			4.8	6.2	23.4	2.5	8.4	42.1	47.0	
89449	IW4	3.3	M	32	VH	36	M			200	M	304	H	2183	L			4.9	6.2	25.0	2.1	10.1	43.7	44.1	
89450	IW5	3.3	M	54	VH	63	VH			295	VH	239	M	1897	L			4.8	6.0	23.0	3.3	8.7	41.2	46.8	
89451	IW6	3.7	H	52	VH	83	VH			391	VH	302	H	2305	L			5.0	6.3	25.5	3.9	9.9	45.2	41.0	
89452	IW7	3.6	H	65	VH	85	VH			327	VH	239	M	1940	L			4.6	6.1	27.2	3.1	7.3	35.7	53.9	
89453	IW8	3.3	M	29	H	49	H			198	M	325	H	2350	L			4.8	6.2	28.3	1.8	9.6	41.5	47.1	
89454	IW9	3.6	H	53	VH	62	VH			214	H	243	H	2201	M			5.1	6.3	21.9	2.5	9.2	50.3	38.0	
89455	IW10	3.1	M	48	VH	63	VH			152	L	342	H	2254	L			4.7	6.1	29.3	1.3	9.7	38.5	50.5	

LAB NUMBER *314*	NITRATE-N (FIA) SURFACE ppm	SURFACE lbs/A	SURFACE depth (in)	SUBSOIL 1 ppm	SUBSOIL 1 lbs/A	SUBSOIL 1 depth (in)	SUBSOIL 2 ppm	SUBSOIL 2 lbs/A	SUBSOIL 2 depth (in)	Total lbs/A	SULFUR S ICAP ppm	RATE	ZINC Zn DTPA ppm	RATE	MANGANESE Mn DTPA ppm	RATE	IRON Fe DTPA ppm	RATE	COPPER Cu DTPA ppm	RATE	BORON B SORB. DTPA ppm	RATE	EXCESS LIME RATE	SOLUBLE SALTS 1:1 mmhos/cm	RATE
89446			0-6																						
89447			0-6																						
89448			0-6																						
89449			0-6																						
89450			0-6																						
89451			0-6																						
89452			0-6																						
89453			0-6																						
89454			0-6																						
89455			0-6																						

REV 12/03

For the farmer who…

Bray P1 > 20 PPM

K PPM > 200 PPM

Your chances of ROI near 0%… at NORMAL fertilizer price levels…

UNLOCK your BANK!

Iowa State University Fertilizer Recs

Table 3. Phosphorus and potassium recommendations for corn grain production.

CORN - P

Soil Test Category	Very Low	Low	Optimum*	High	Very High
Bray P_1 and Mehlich-3 P	0–8	9–15	16–20	21–30	31+
Olsen P	0–5	6–9	10–13	14–18	19+
Mehlich-3 ICP P	0–15	16–25	26–35	36–45	46+
★ P_2O_5 to apply (lb/acre)					
	100	75	58	0	0

CORN - K

Soil Test Category	Very Low	Low	Optimum*	High	Very High
Ammonium Acetate and Mehlich-3 Extractable K					
Dry	0–120	121–160	161–200	201–240	240+
Field-moist and Slurry	0–50	51–85	86–120	121–155	156+
★ K_2O to apply (lb/acre)					
Fine Textured	130	90	40	0	0
Sandy Textured	110	70	40	0	0

Table 4. Phosphorus and potassium recommendations for soybean production.

SOY - P

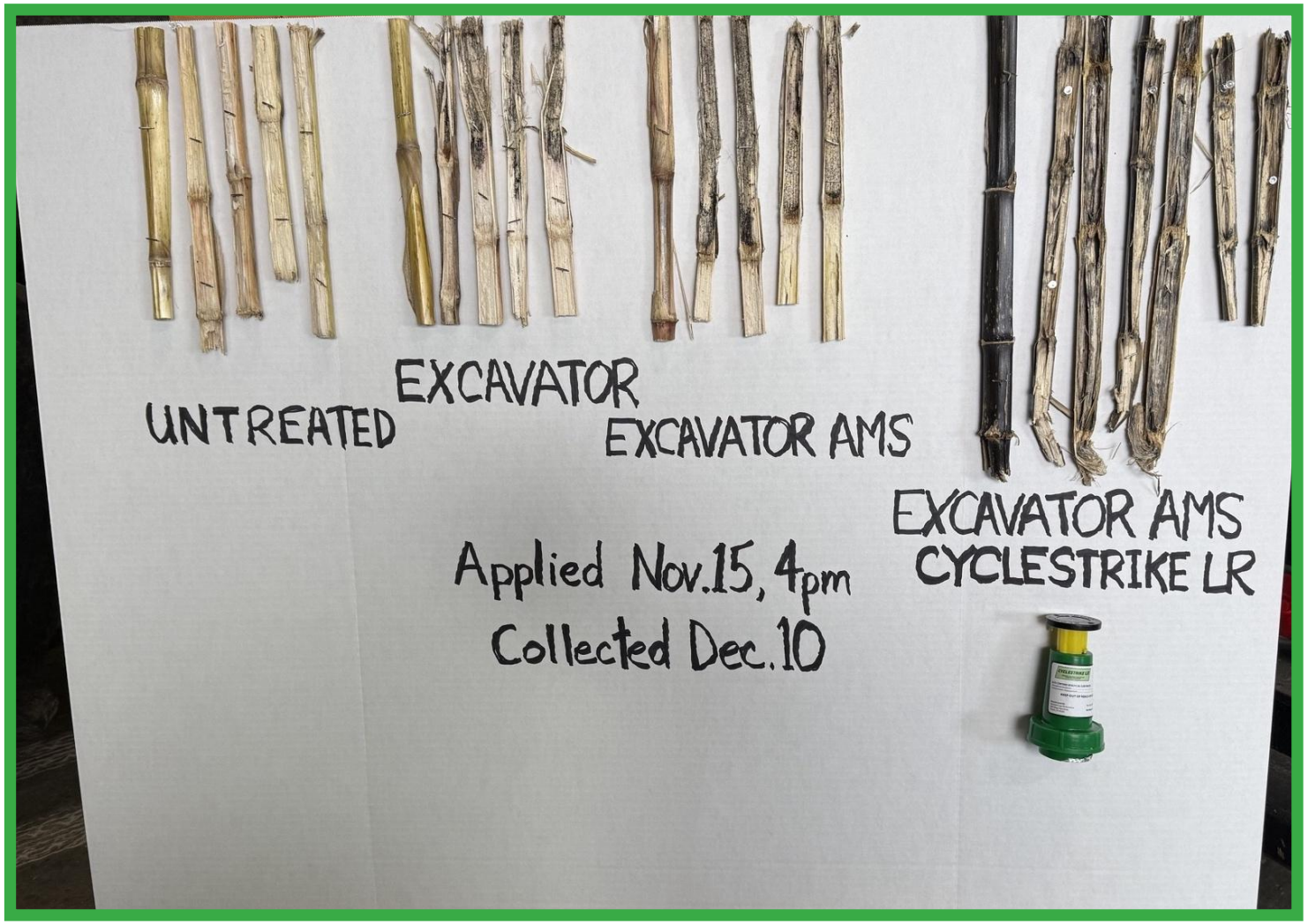
Soil Test Category	Very Low	Low	Optimum*	High	Very High
Bray P_1 and Mehlich-3 P	0–8	9–15	16–20	21–30	31+
Olsen P	0–5	6–9	10–13	14–18	19+
Mehlich-3 ICP P	0–15	16–25	26–35	36–45	46+
★ P_2O_5 to apply (lb/acre)					
	80	60	40	0	0

SOY - K

Soil Test Category	Very Low	Low	Optimum*	High	Very High
Ammonium Acetate and Mehlich-3 Extractable K					
Dry	0–120	121–160	161–200	201–240	240+
Field-moist and Slurry	0–50	51–85	86–120	121–155	156+
★ K_2O to apply (lb/acre)					
Fine Textured	120	90	66	0	0
Sandy Textured	100	85	66	0	0

https://naturalresources.extension.iastate.edu/files/page/files/general_guide_for_nutrient_and_limestone_recommendations_in_iowa.pdf

3 weeks after Treatment with EXCAVATOR® AMS plus CYCLESTRIKE LR



Results from the Field

EXCAVATOR® AMS

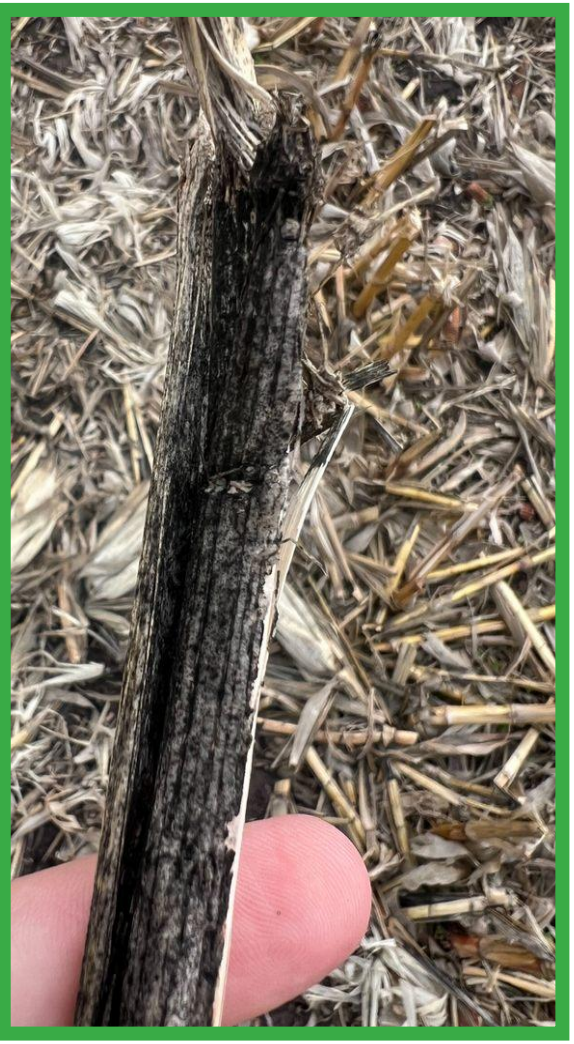
AMS & NON-IONIC SURFACTANT WITH
NUTRIENT RELEASE & CROP RESIDUE BREAKDOWN

CYCLESTRIKE™ LR

MICROBIAL NUTRIENT ACCELERATOR
& RESIDUE BREAKDOWN

BioFlex™

4 weeks after Treatment



Results from the Field

EXCAVATOR® AMS

AMS & NON-IONIC SURFACTANT WITH
NUTRIENT RELEASE & CROP RESIDUE BREAKDOWN

CYCLESTRIKE™ LR

MICROBIAL NUTRIENT ACCELERATOR
& RESIDUE BREAKDOWN

BioFlex™

Double Crop
Wheat Burndown
COVER CROP TERMINATION

You Play to Win the GAME!

#1 GOAL – Turn a Profit

Previous stewards of the land want you to be **PROFITABLE**

Do not sacrifice your profitability for geopolitical B.S.

Time the fertilizer markets

Take a withdrawal from your bank – **get Back in Black**

EXCAVATOR® AMS
AMS & NON-IONIC SURFACTANT WITH NUTRIENT RELEASE & CROP RESIDUE BREAKDOWN

CYCLESTRIKE™ LR
MICROBIAL NUTRIENT ACCELERATOR & RESIDUE BREAKDOWN

BioFlex™

EXTREME ROI if YOU LEVERAGE POWER

Reduce cost on fertilizer and adjuvant

Reduce time and cost spent on tillage

Reduce disease pressure; reduce salt loads

BREAKTHROUGH TO EXCELLENCE

MERISTEM DEALER PARTNER EXCHANGE

SPRING OR FALL

Full Adjuvant Package
+ Residue Decomposition
+ Fertilizer Pass

EXCAVATOR® AMS

AMS & NON-IONIC SURFACTANT WITH NUTRIENT RELEASE & CROP RESIDUE BREAKDOWN

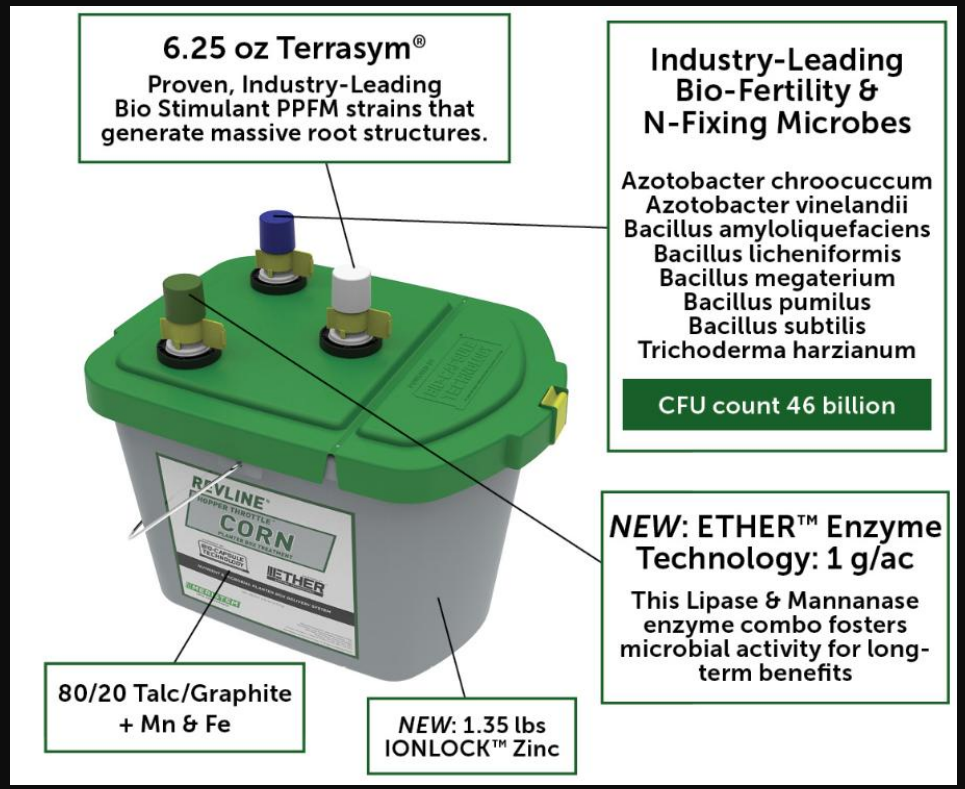
CYCLESTRIKE™ LR

MICROBIAL NUTRIENT ACCELERATOR & RESIDUE BREAKDOWN

BioFlex™

MERISTEM® CROP PERFORMANCE

Revline Hopper Throttle Corn + Ether/Carbon



UNLOCK YOUR SOIL

DRIVE YIELD

Control Your Bottom Line

REVLINE® HOPPER THROTTLE™ SOYBEAN PLANTER BOX TREATMENT
POWERED BY ETHER™ ENZYME TECHNOLOGY

EXCAVATOR® AMS
AMS & NON-IONIC SURFACTANT WITH NUTRIENT RELEASE & CROP RESIDUE BREAKDOWN

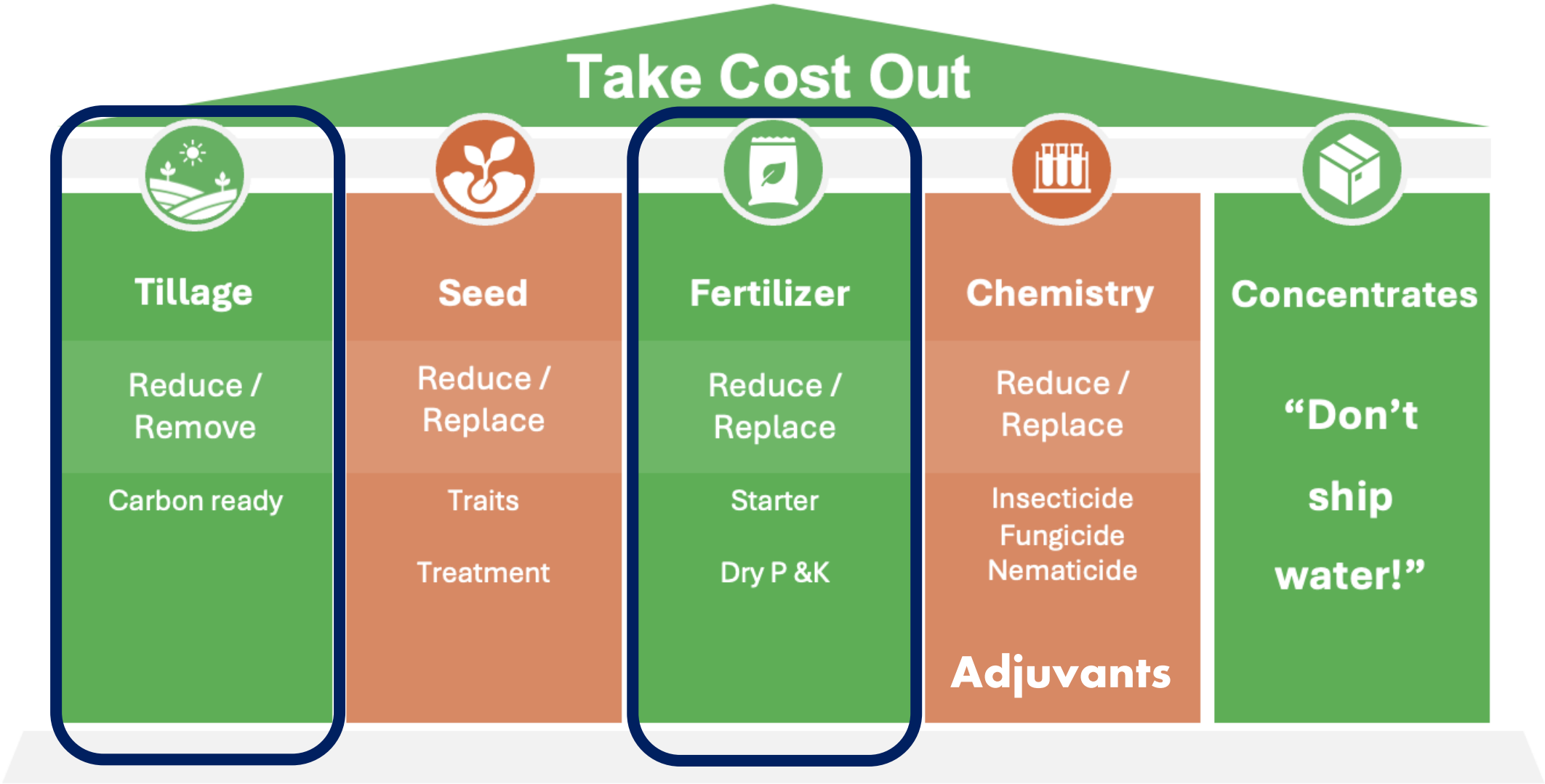
REVLINE® HOPPER THROTTLE™ CORN PLANTER BOX TREATMENT
POWERED BY ETHER™ ENZYME TECHNOLOGY

~~X-90-90 Dry Fertilizer + Tillage = $140~~

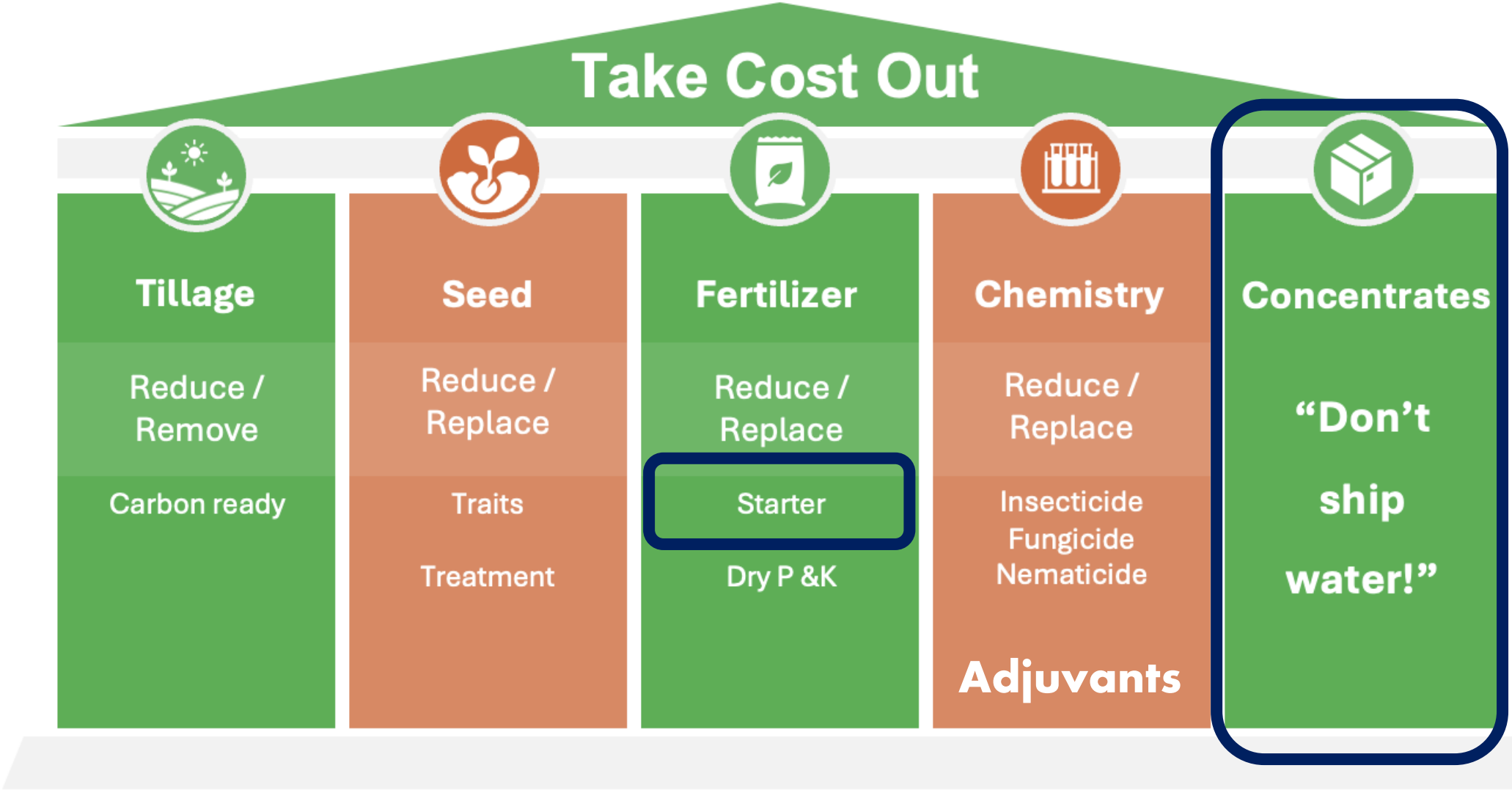
Excavator AMS + RHT = $30

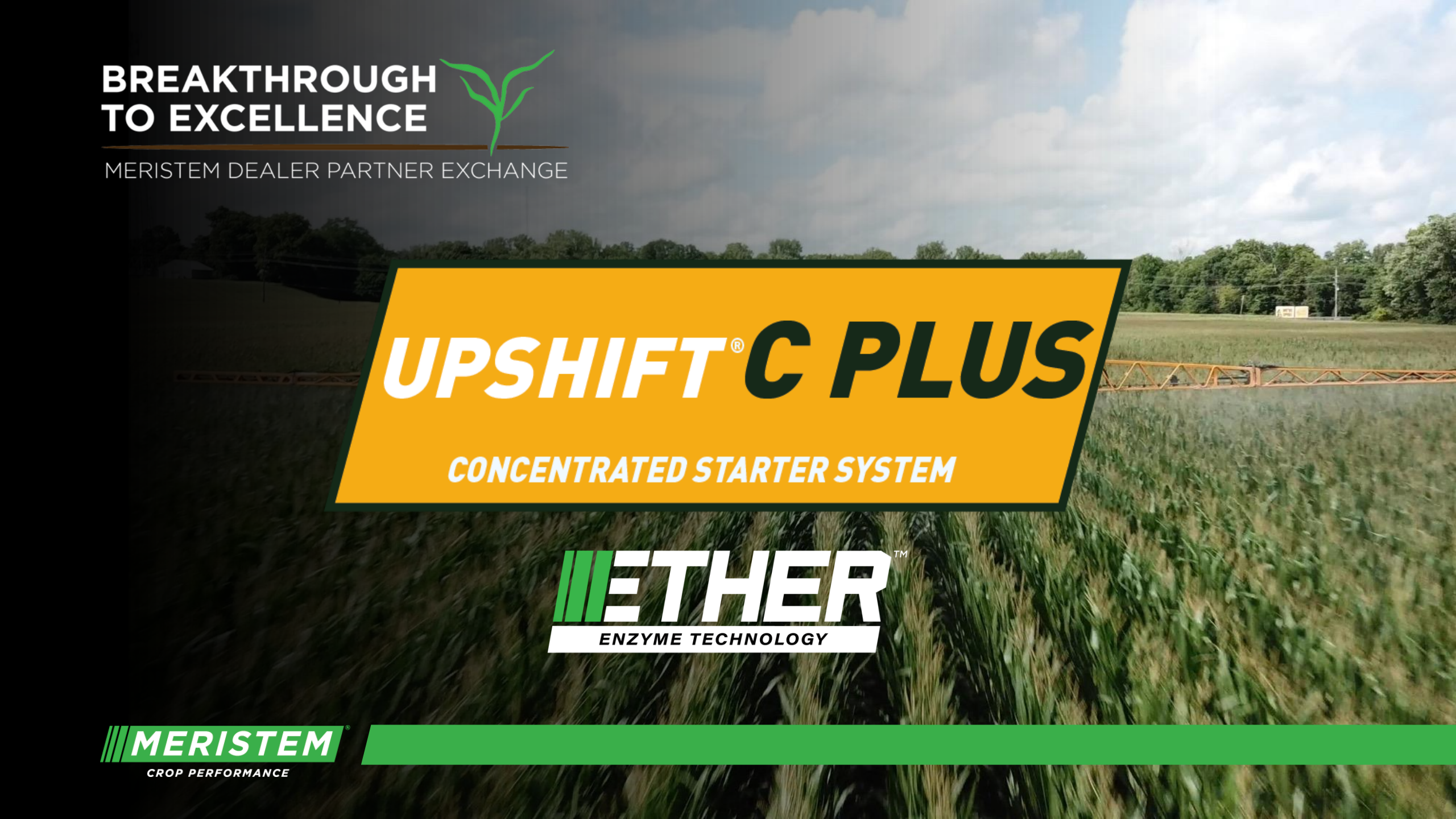
NET ROI per Acre = $110

Cut Distribution Cost + Innovation through Patented Delivery Systems



Cut Distribution Cost + Innovation through Patented Delivery Systems




BREAKTHROUGH
TO EXCELLENCE
MERISTEM DEALER PARTNER EXCHANGE
UPSHIFT® C PLUS
CONCENTRATED STARTER SYSTEM
ETHER™
ENZYME TECHNOLOGY
MERISTEM®
CROP PERFORMANCE

NEW Upshift-C Plus

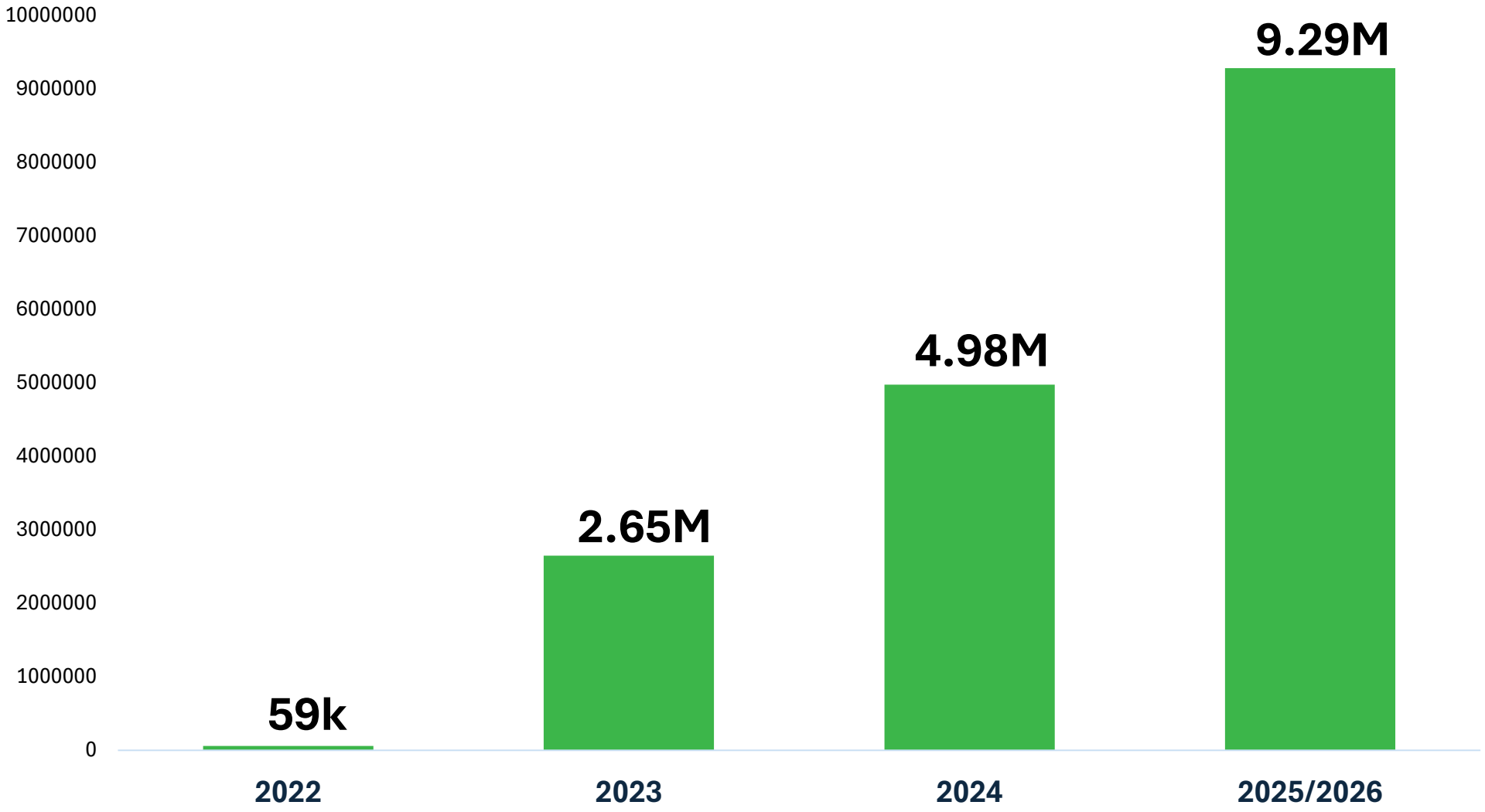
- **Unique in Market:**
  100% Exclusive to Meristem Dealers
- **Product Innovation**
  - Zinc
  - Phenolic Acid:
    - Food Source
    - STRESS MITIGATION
  - BLUE
  - Enhanced Enzyme package
  - More agronomic benefits than all other offerings in the market.

Available for order now!

UPSHIFT® C PLUS
CONCENTRATED STARTER SYSTEM
ETHER™ ENZYME TECHNOLOGY

MERISTEM® CROP PERFORMANCE
BREAKTHROUGH TO EXCELLENCE
MERISTEM DEALER PARTNER EXCHANGE

UpShift C Growth Trend (Pounds)



Upshift C + ETHER™ – Starter Fertilizer Opportunity for Row Crops

Upshift C + ETHER™ vs 10-34-0

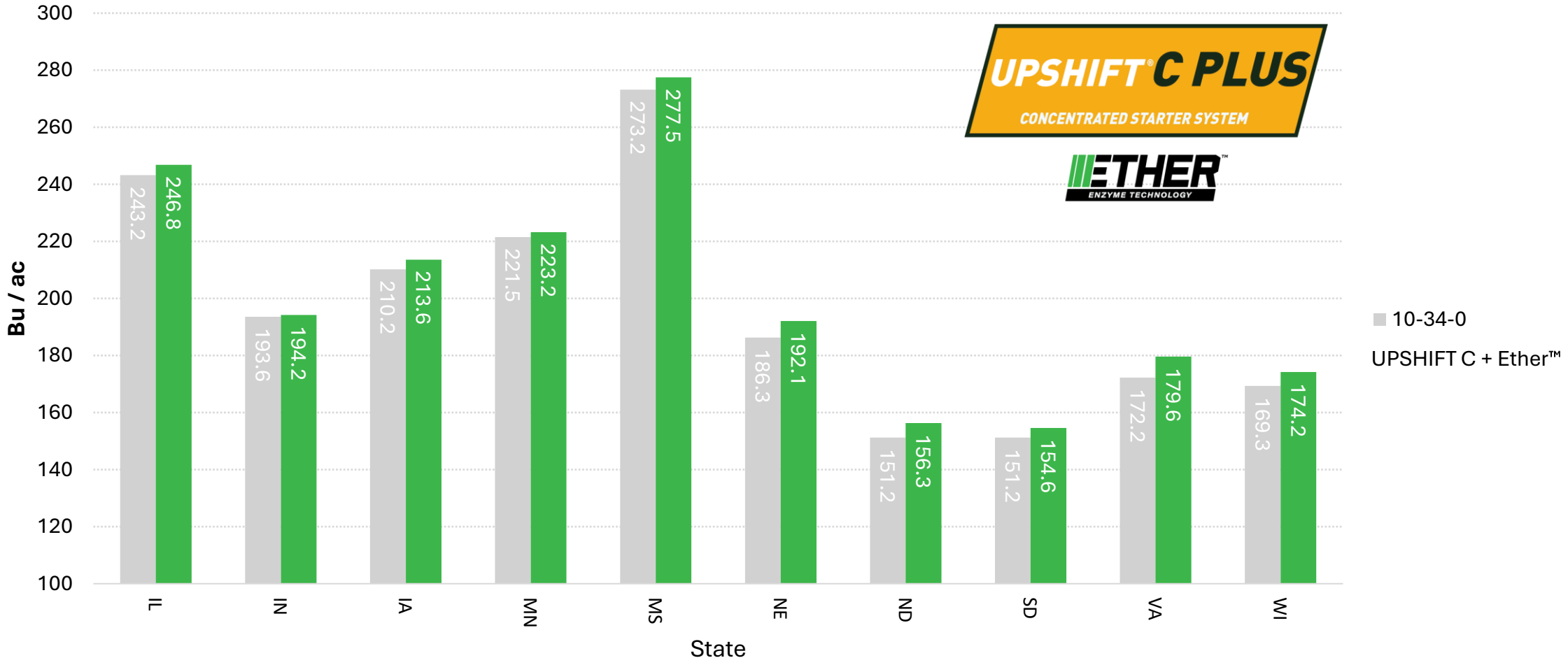
	Upshift C + ETHER™ (0.5 lb in 1 gal of water)	10-34-0 (1 gallon)
Phosphate Source	Ortho	Poly
Salt Index	**4.1**	**48**
Phosphatase Enzyme to Release Organic Phosphate	Yes	No
Organic Acids to Protect Phosphate from Tie Up	Yes	No

Starter Trial – V3 Tissue Sample

Starter Type	% P in Plant @ V3	Cost/Ac
Hi-Cost Clear @ 5 gal	0.4%	$45/ac
10-34-0 type @ 5 gal	0.5%	$22/ac
6-24-6 type @ 5 gal	0.5%	$28/ac
Upshift C @ 5 gal	**0.8%**	**$17/ac**

Friends do not let Friends….buy over-priced starter…leverage Ether

Corn 10-34-0 vs UPSHIFT C + ETHER™ at Plant

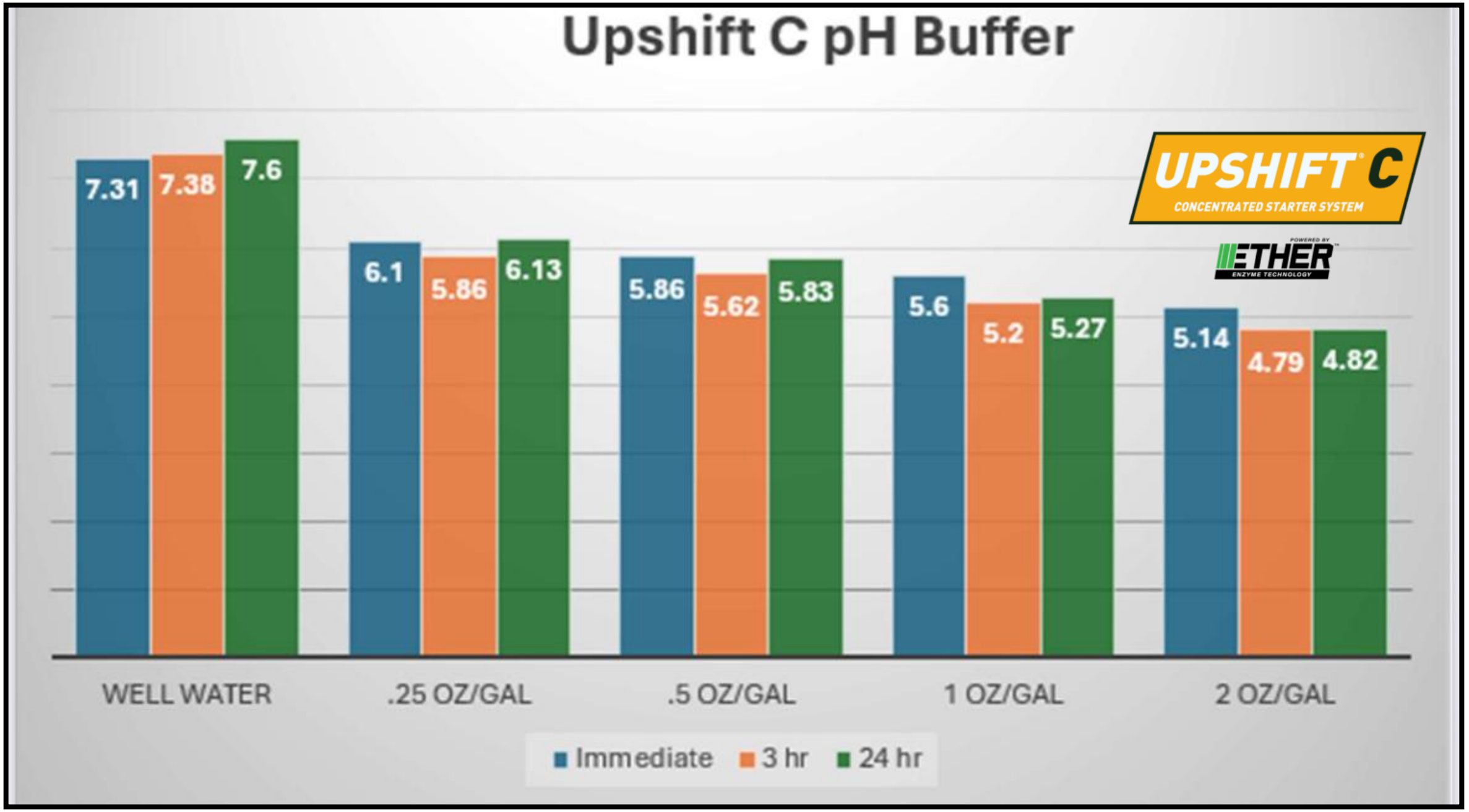


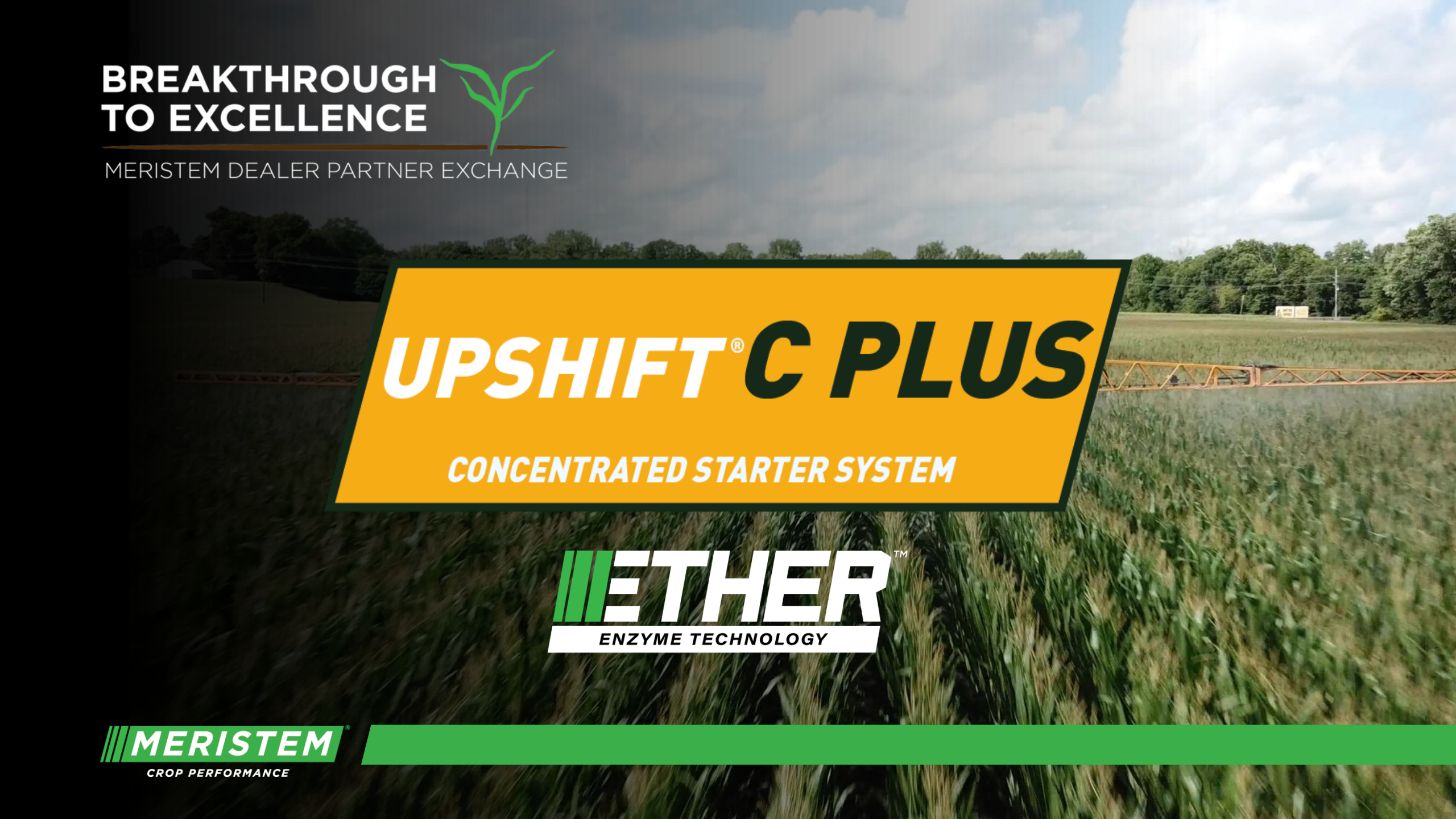
PRODUCT HALF LIFE BY pH

PURDUE UNIVERSITY

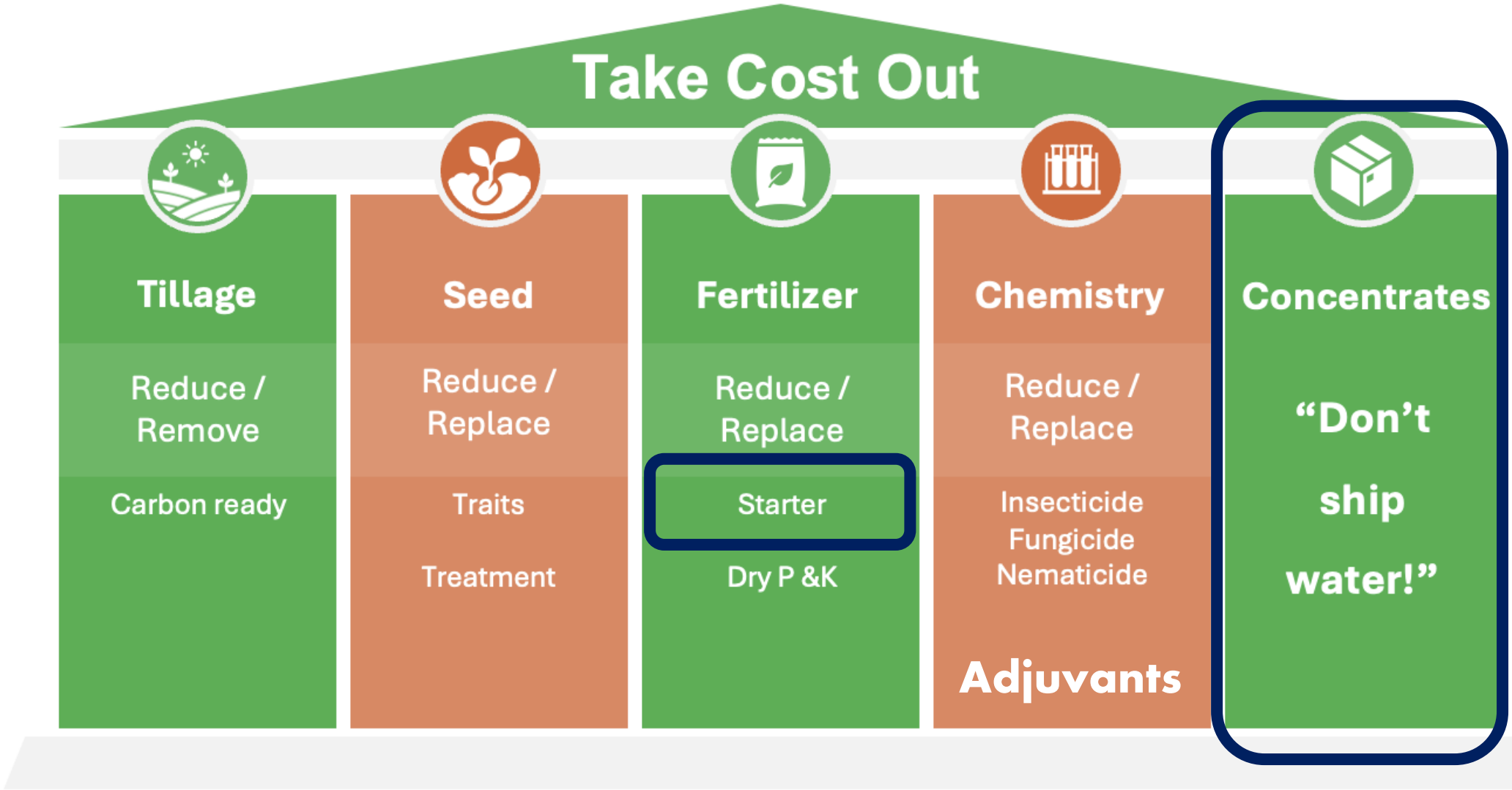
PRODUCT	pH 9	pH 7	pH 5
Herbicide	10 min	17 hr	16 days
Fungicide	2 min	3 hr	10 hr
Insecticide	24 hr	10 day	Stable

The Impact of Water Quality on Pesticide Performance Purdue Extension PPP-86

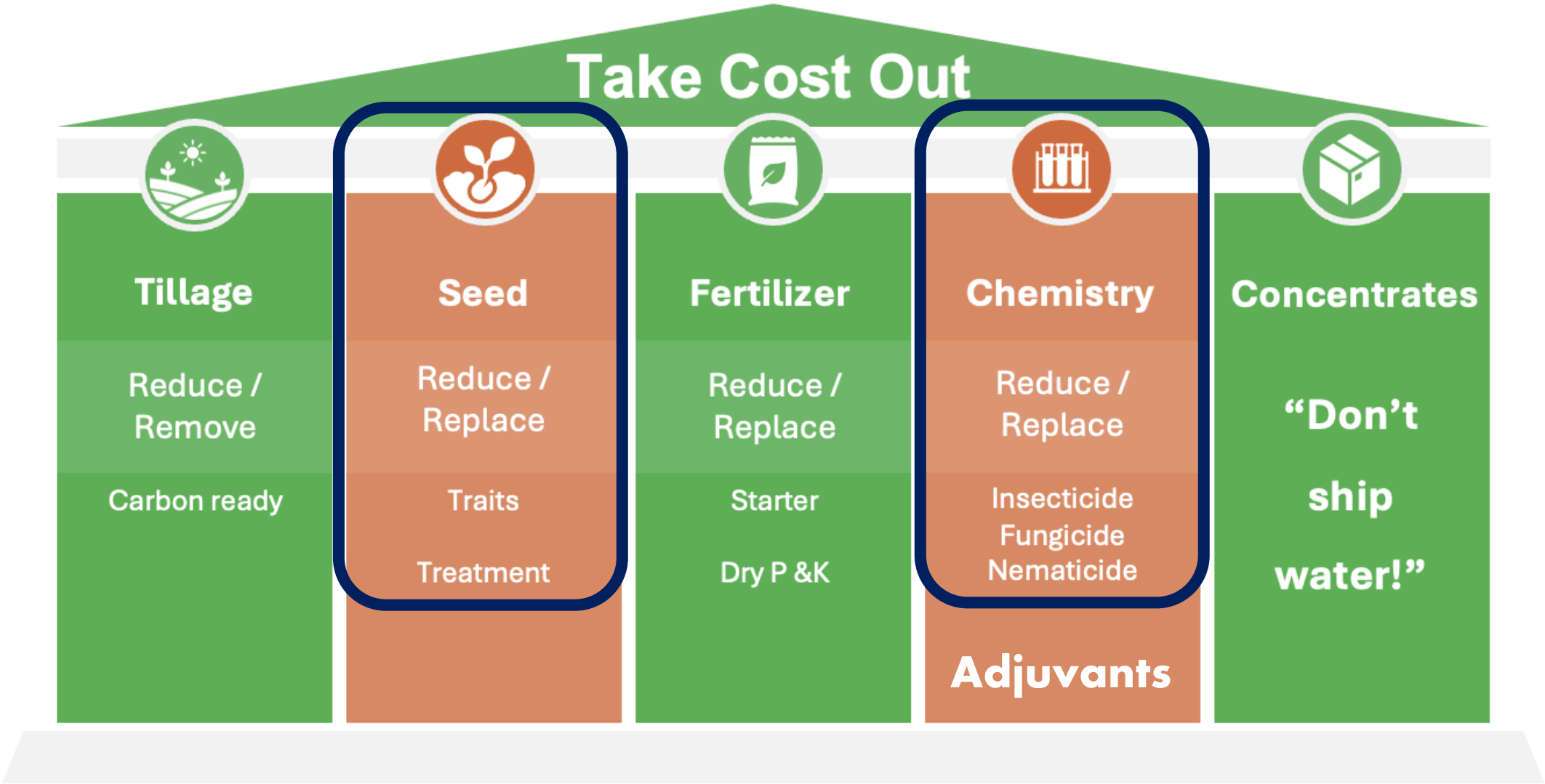

Upshift C pH Buffer
UPSHIFT C
CONCENTRATED STARTER SYSTEM
POWERED BY
ETHER
ENZYME TECHNOLOGY
7.31
7.38
7.6
6.1
5.86
6.13
5.86
5.62
5.83
5.6
5.2
5.27
5.14
4.79
4.82
WELL WATER
.25 OZ/GAL
.5 OZ/GAL
1 OZ/GAL
2 OZ/GAL
Immediate
3 hr
24 hr


BREAKTHROUGH
TO EXCELLENCE
MERISTEM DEALER PARTNER EXCHANGE
UPSHIFT® C PLUS
CONCENTRATED STARTER SYSTEM
ETHER™
ENZYME TECHNOLOGY
MERISTEM®
CROP PERFORMANCE

Cut Distribution Cost + Innovation through Patented Delivery Systems



Cut Distribution Cost + Innovation through Patented Delivery Systems



Biological Innovation = NEW TRAITS

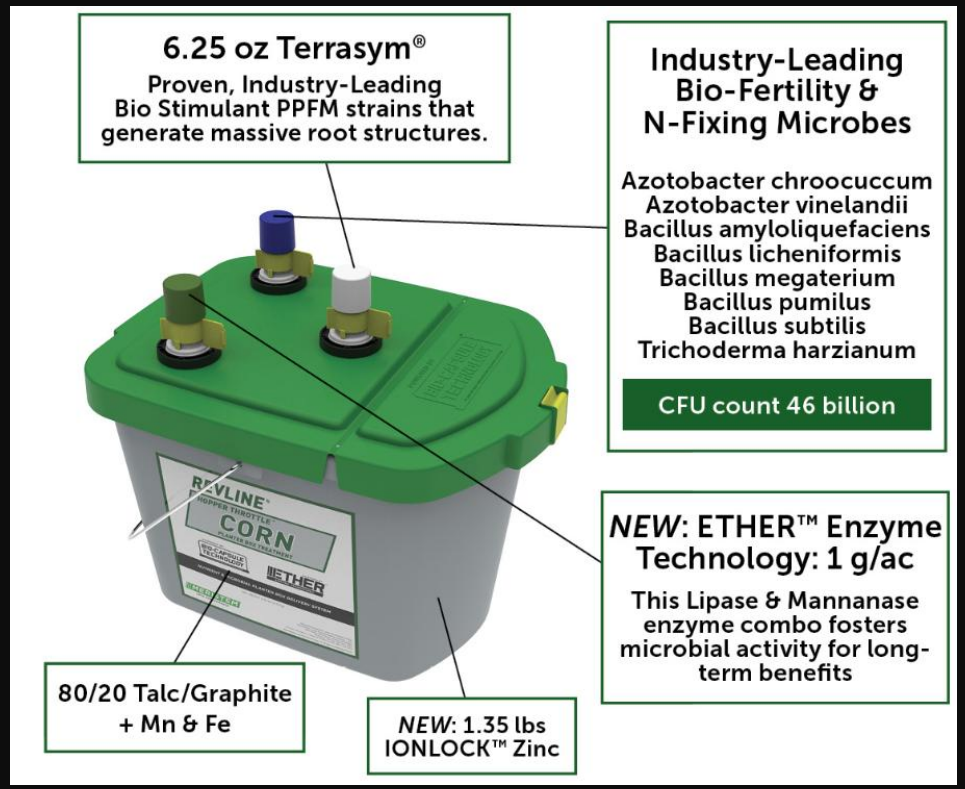
FIGHT BACK. GO FAST. WIN MORE.
THE COMPLETE HOPPER THROTTLE™ PORTFOLIO

POWERED BY BIO-CAPSULE TECHNOLOGY™
INNOVATION DELIVERY SYSTEM

Corn Portfolio					
Revline Hopper Throttle Corn Ether	Revline Hopper Throttle Corn Ace Ether + Prephyte ST	Hopper Throttle Corn + Guard X + Prephyte ST	Revline Hopper Throttle Corn Ether + Guard X	Hopper Throttle Corn MaxD	Hopper Throttle Corn MaxStax
					

Soybean Portfolio			
Revline Hopper Throttle Soybean Ether	Hopper Throttle Soybean F+I + Protectis + Prephyte ST	Hopper Throttle Soybean MaxD	Hopper Throttle Soybean MaxStax
			

Revline Hopper Throttle Corn + Ether/Carbon



UNLOCK YOUR SOIL

DRIVE YIELD

RESULTS FROM CONTRACTED 3RD PARTY TRIALS

REVLINE® HOPPER THROTTLE™ CORN PLANTER BOX TREATMENT

2023	72% POSTIVE RESPONSE	5.1 BU/AC AVERAGE INCREASE	175 DATA POINTS	115 LOCATIONS	11 STATES

REVLINE® HOPPER THROTTLE™ CORN PLANTER BOX TREATMENT

2024	76% POSTIVE RESPONSE	6.6 BU/AC AVERAGE INCREASE	175 DATA POINTS	107 LOCATIONS	17 STATES

POWERED BY ETHER™ ENZYME TECHNOLOGY

TWO YEAR AVERAGE	72% POSTIVE RESPONSE	5.9 BU/AC AVERAGE INCREASE	350 DATA POINTS	222 LOCATIONS	19 STATES

THE NUMBERS DON'T LIE

Treatments	Plant population per A (V3 stage)	Vigor	Phytotoxicity	SDS FDS R5 Stage	Yield (Bu/A)
Industry Seed Treatment Package	88862.4	5.25	0.5	5.56	60.26
Revline Hopper Throttle Soy	99752.4	6	0	3.33	70.92

MERISTEM CROP PERFORMANCE

IOWA STATE UNIVERSITY

+10.6 bu/ac advantage with REVLINE® HOPPER THROTTLE™ SOYBEAN PLANTER BOX TREATMENT POWERED BY ETHER™ ENZYME TECHNOLOGY

- 59% decrease in disease foliar index score on SDS
- Improved stand establishment
- Improved vigor score
- Eliminated phytotoxicity

Results from 2023 Iowa State University Field Test

+10.6 bu/ac Advantage!

Multiple Players Rapidly Entering the Market

EPA approval
on proven actives

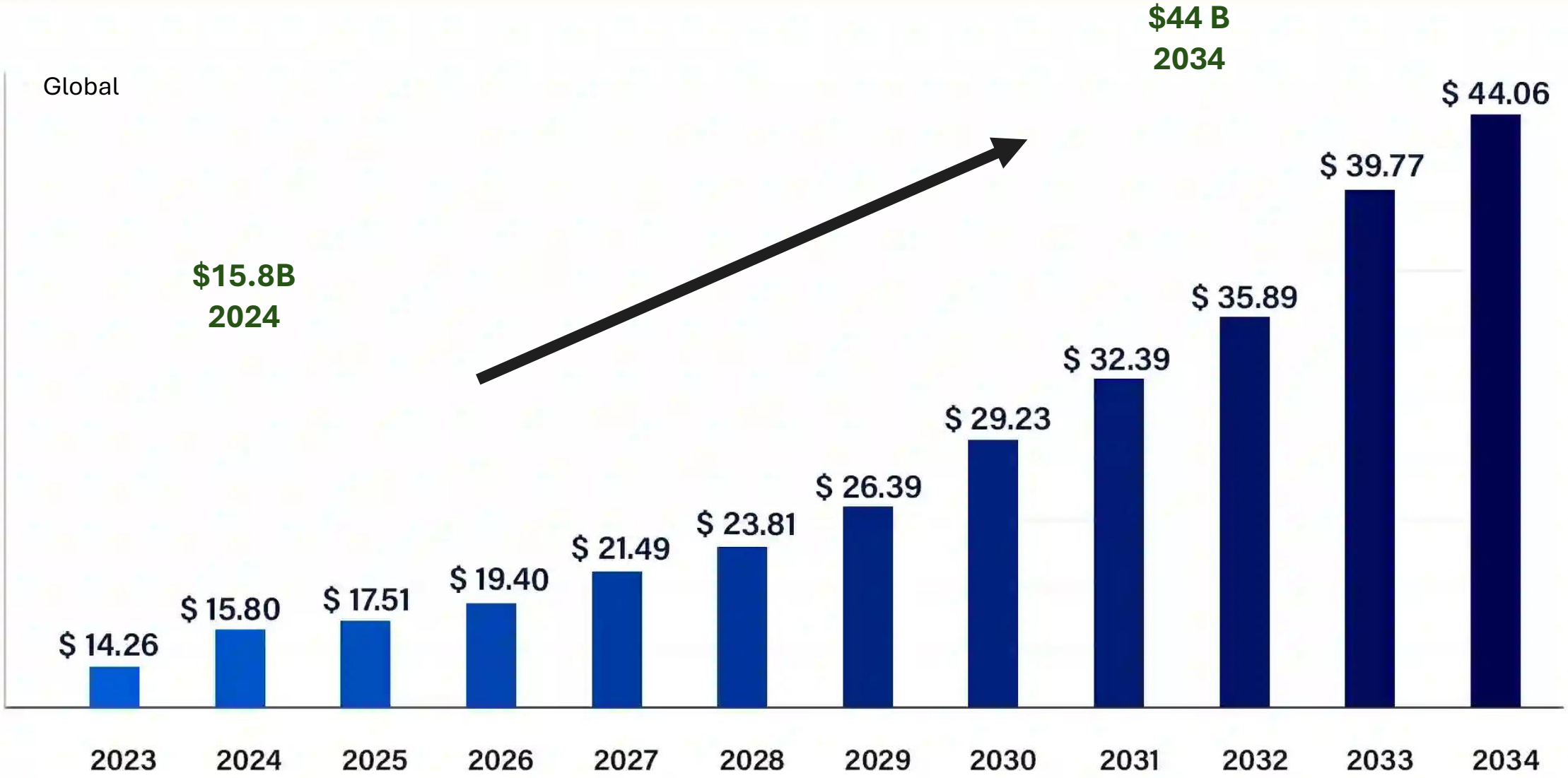
The Patented
BIO-CAPSULE™

BIO-DEFENSE REVOLUTION

MERISTEM
CROP PERFORMANCE

IONLOCK Zinc™.

Agricultural Biologicals Market Size 2023 to 2034 (USD Billion)



Source: https://www.precedenceresearch.com/agricultural-biologicals-market

Biological Innovation = NEW TRAITS

		Seed Fluency & Micronutrients					Nutrient Availability & Plant Stimulants					Nematicide	Insecticides	Fungicides		
		Talc	Graphite	Zn, Fe & Mn	Zinc Load (lbs.)	Carbon	Biofertility Microbes	Revline Biostimulant	Ether Enzyme Technology	Protectis	Inoculant	Guard C	Guard X	Borne X	Metalaxyl ST	Prephyte ST
Corn Portfolio	Hopper Throttle Corn MaxStax		x	x	2.7	x	x	x	x	x		x	x			x
	Hopper Throttle Corn MaxD		x	x	2.7					x		x	x			x
	Revline Hopper Throttle Corn Ether + Guard X	x	x	x	1.35	x	x	x	x				x			
	Hopper Throttle Corn + Guard X + Prephyte ST	x	x	x	1.35								x			x
	Revline Hopper Throttle Corn Ace Ether + Prephyte ST	x	x	x	1.35	x		x	x							x
	Revline Hopper Throttle Corn Ether	x	x	x	1.35	x	x	x	x							
Soybean Portfolio	Hopper Throttle Soybean MaxStax		x	x	0.94	x	x	x	x	x	x	x		x	x	x
	Hopper Throttle Soybean MaxD		x	x	0.94					x	x	x		x	x	x
	Hopper Throttle Soybean F+I + Protectis + Prephyte ST	x	x	x	0.38					x	x				x	x
	Revline Hopper Throttle Soybean Ether	x	x	x	0.38	x	x	x	x		x					
Specialty Portfolio	Revline Hopper Throttle Cotton	x	x	x	1.35	x	x	x								
	Revline Hopper Throttle Dry Bean	x	x	x	0.38		x	x			x					
	Revline Hopper Throttle Pea & Lentils	x	x	x	0.38		x	x			x					
	Revline Hopper Throttle Sugarbeet + Prephyte ST + Guard C	x	x	x	1.35		x	x				x				x

The Hopper Throttle™ MAX Family

HOPPER THROTTLE® SOYBEAN
MAXSTAX™
PLANTER BOX TREATMENT

HOPPER THROTTLE® CORN
MAXSTAX™
PLANTER BOX TREATMENT

HOPPER THROTTLE® SOYBEAN
MAXD™
PLANTER BOX TREATMENT

HOPPER THROTTLE® CORN
MAXD™
PLANTER BOX TREATMENT

EXCLUSIVE TO MERISTEM SYSTEM

EPA-APPROVED BIODEFENSE & SYNTHETIC ACTIVE INGREDIENTS

AVAILABLE IN MULTIPLE CROP OFFERINGS

GUARD C™ II
NEMATODE PROTECTION

GUARD X™ II
CRW MANAGEMENT + ROOT REGEN

PREPHYTE™ III
BROAD-SPECTRUM FUNGICIDE

GUARD M™ II
INSECT PROTECTION

BORNEX™ II
SDS PROTECTION

METALAXYL III

Coverage Case Closed. Throttle is Dominant

Treatments

1.	Grower Standard F/I Seed Treatment + Saltro® or ILeVO®
2.	Untreated Seed
3.	Hopper Throttle MaxD Soybean
4.	Hopper Throttle MaxStax Soybean

Seed Sample Analysis

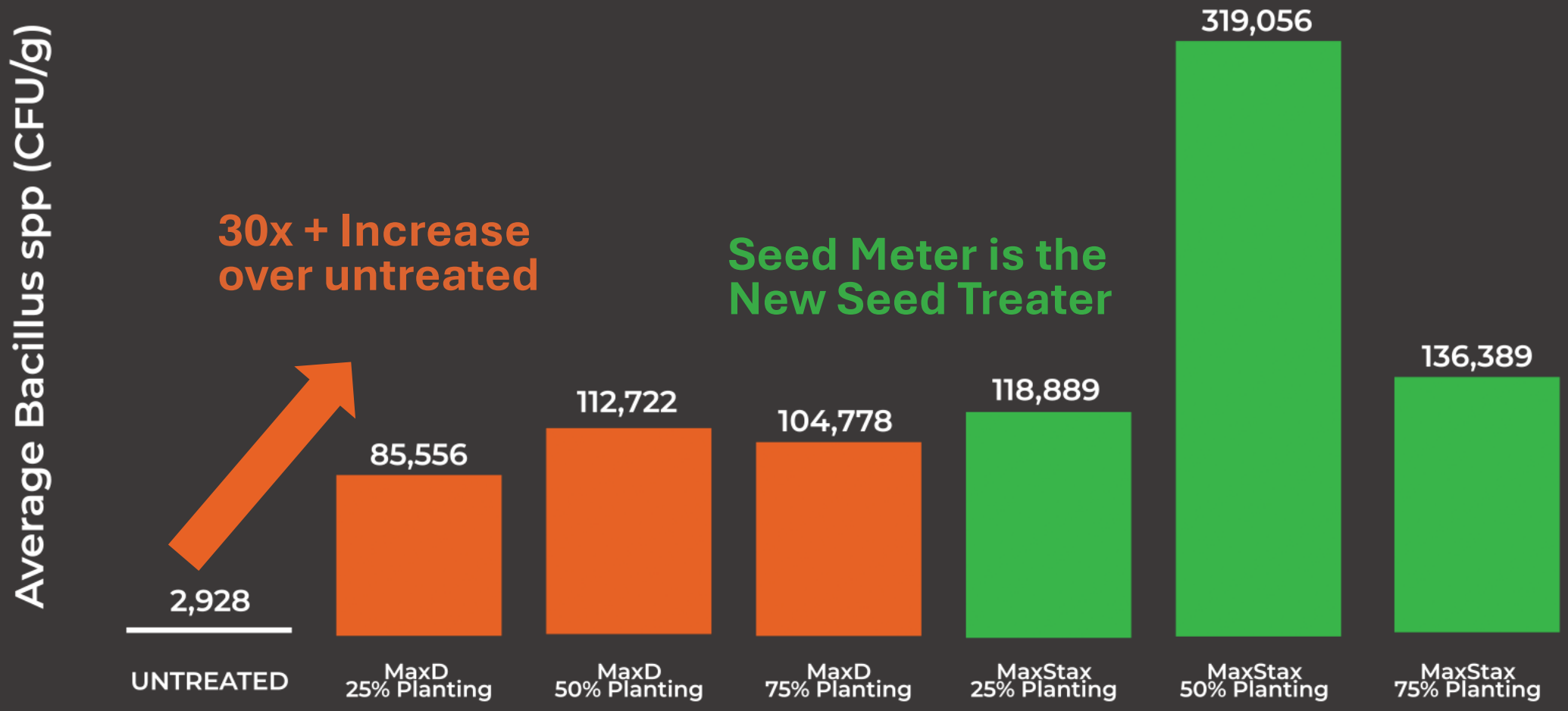
Three collection pts from seed tubes

@ 25%, 50% and 75%

of Field Planting

Documenting the Presence of Bacillus spp on the Hopper Throttle™ Soybean Treatments Through Planting

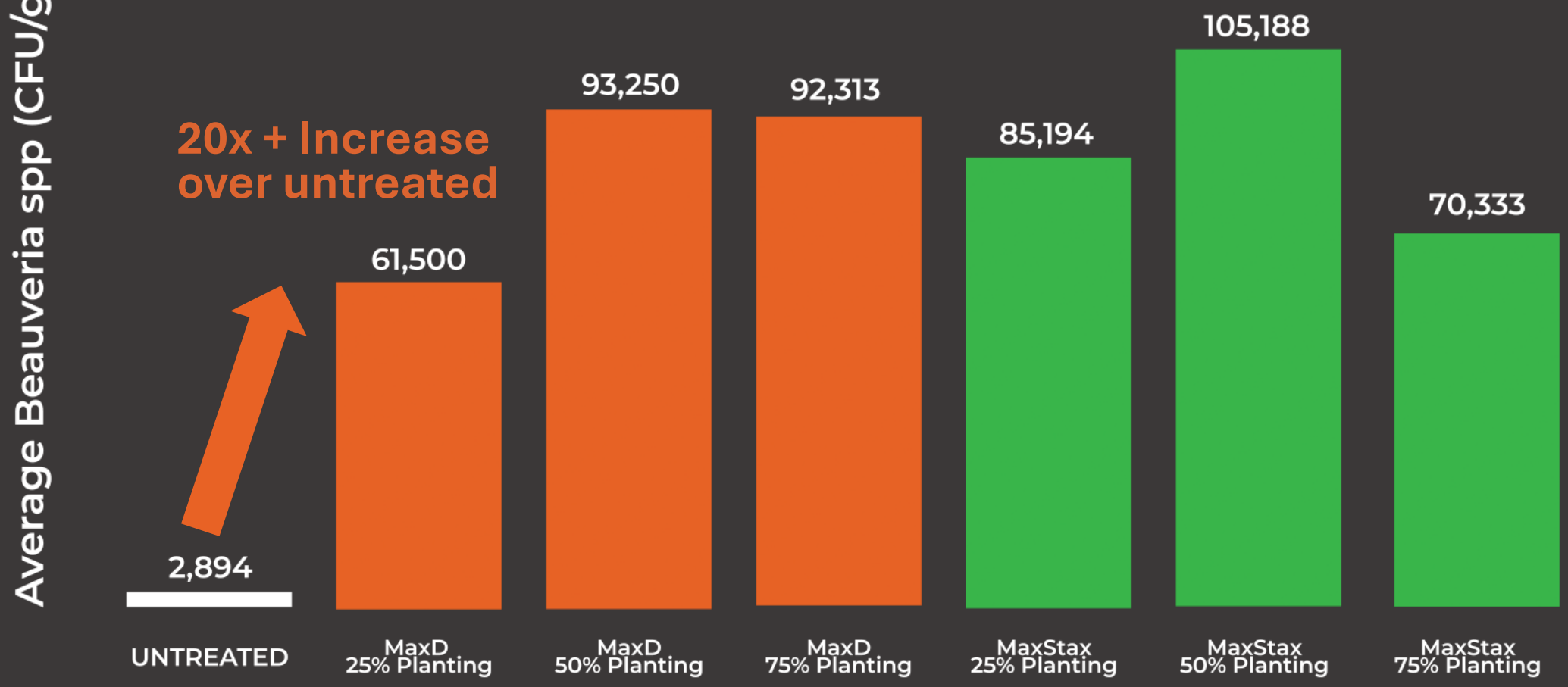
Key Takeaway: All 10 fields had an increase in *Bacillus* detected on both MaxD and MaxStax collected during planting timeframe compared to untreated control.



MERISTEM CROP PERFORMANCE

Documenting the Presence of Beauveria spp on the Hopper Throttle™ Soybean Treatments Through Planting

Key Takeaway: All 10 fields had an increase in Beauveria detected on both MaxD and MaxStax collected during planting timeframe compared to untreated control.



MERISTEM CROP PERFORMANCE

Detect the Presence of Metalaxyl on Hopper Throttle Soybean Seed Throughout Planting

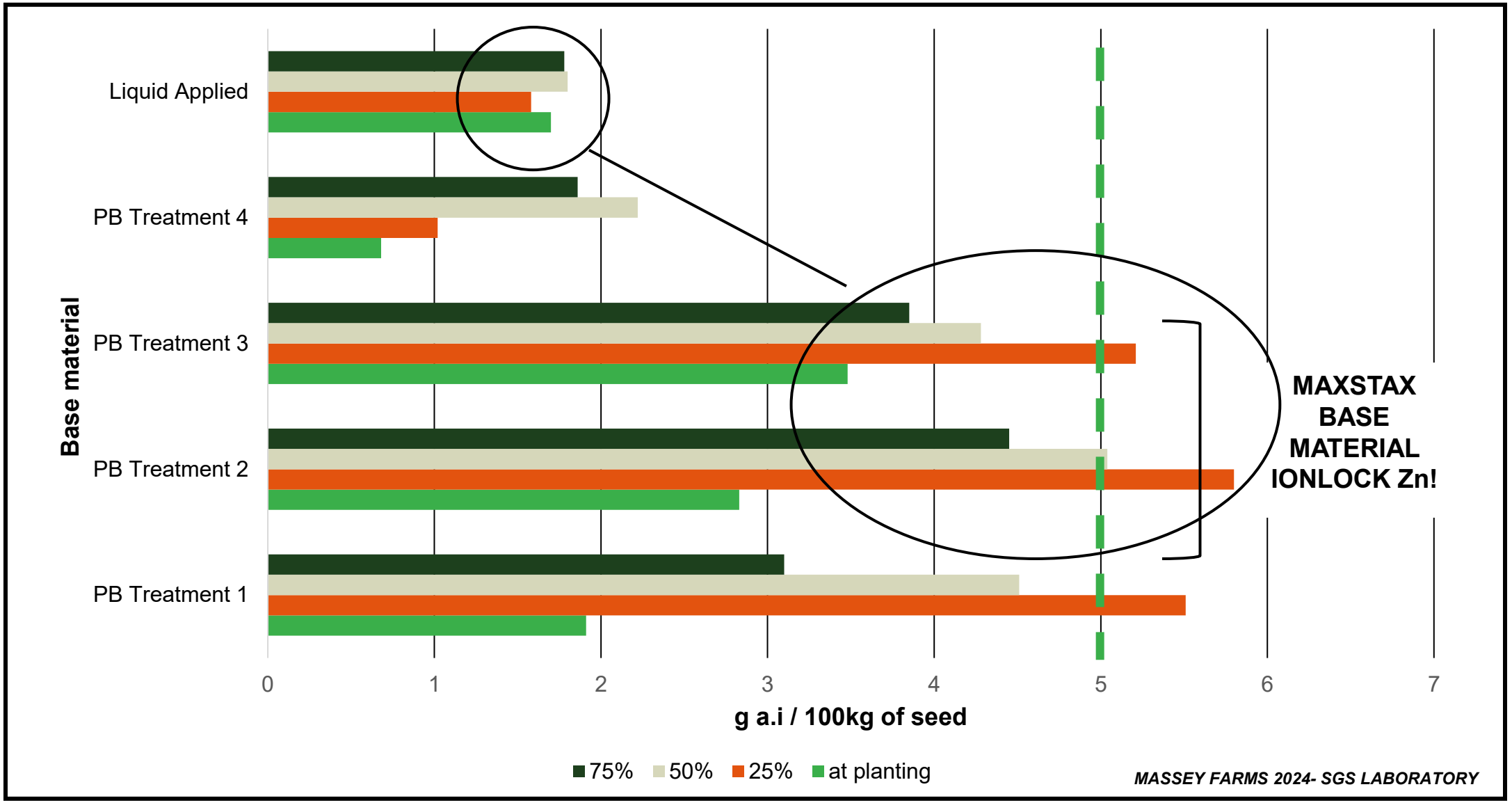
Timing of Sample Collection	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8	Field 9	Field 10
25% of Planting	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
50% of Planting	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
75% of Planting	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

⊕ = Metalaxyl detected

Key Takeaway: Metalaxyl was detected in samples collected from all 10 fields at all 3 collections timepoints.

SEED METER IS NEW SEED TREATER – DOMINANT

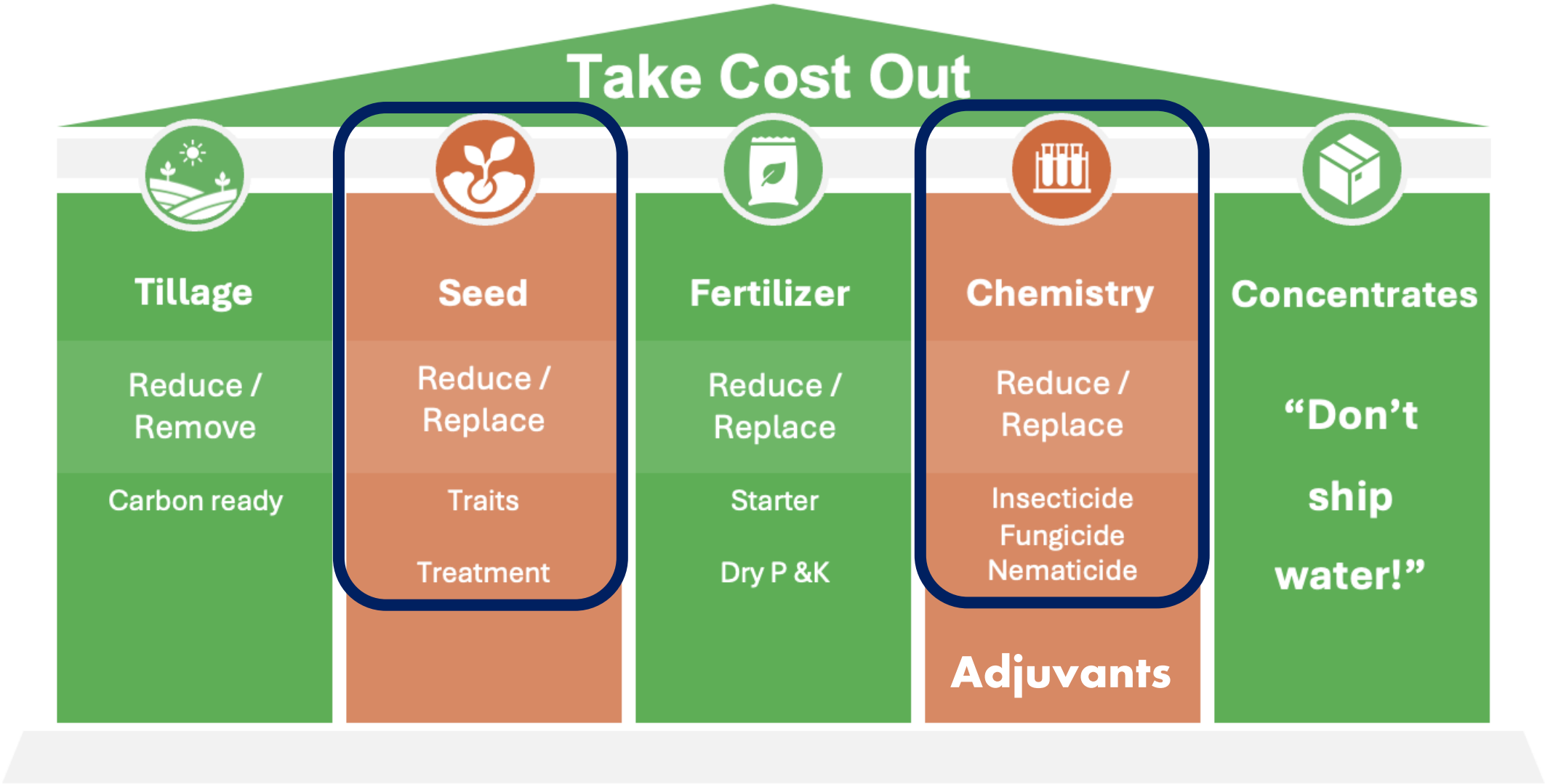
Metalaxyl Coverage



Coverage / Performance not an IF….

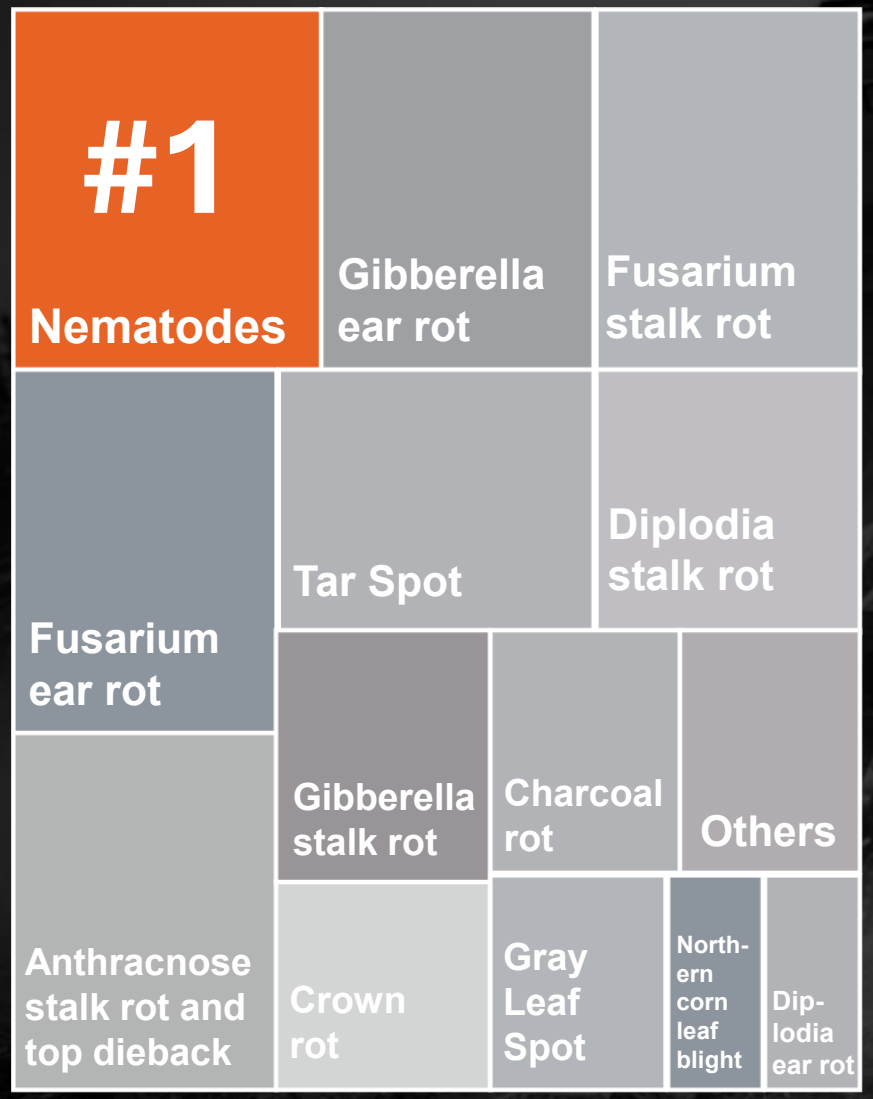
ION LOCK Zn + BioDefense is BEST Solution on the Market

Cut Distribution Cost + Innovation through Patented Delivery Systems




GUARDIAN™
NEMATODE PROTECTION
+ BIOSTIMULANT
MERISTEM
CROP PERFORMANCE
FIFRA 25b Exempt Product

CORN Yield Loss Due to 'Disease'



Corn Nematodes:

56.4 Million Bushels Destroyed Annually

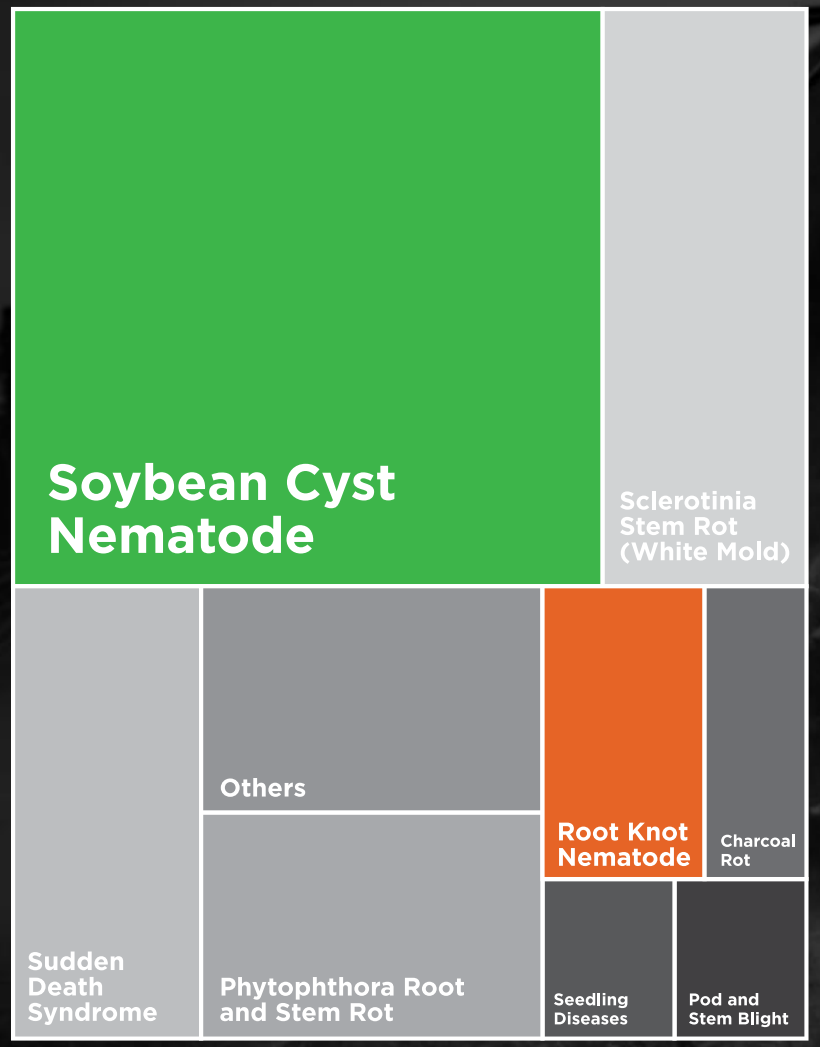
Proportion of 2023 corn yield lost for the most problematic diseases across the 29 U.S. This figure represents the loss of approximately 465.1 million bushels of corn. The "Others" category includes all diseases in this survey not represented individually

CROP PROTECTION NETWORK
A Product of Land Grant Universities

MERISTEM
CROP PERFORMANCE

BREAKTHROUGH TO EXCELLENCE
MERISTEM DEALER PARTNER EXCHANGE

Soybean Yield Loss Due to ‘Disease’



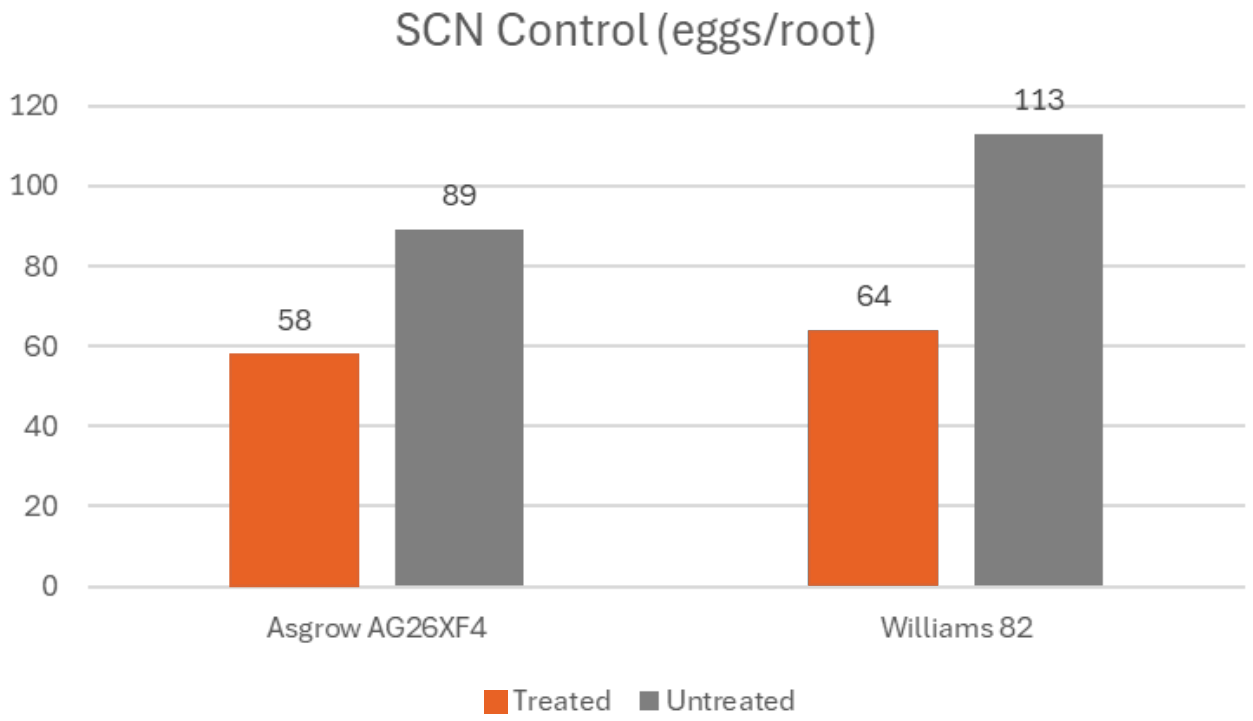
SCN + Root Knot Nematode:

100.9 Million Bushels Destroyed Annually

Proportion of soybean bushels estimated lost for the most problematic diseases. This figure represents 221.1 million bushels of soybean yield reduction. The “Other” category includes all diseases in this survey not represented individually.

CROP PROTECTION NETWORK
A Product of Land Grant Universities

Guard C Nematode Suppression



- PrePhyte ST plus Guard C provide protection equivalent to industry leading Ilevo for SCN, without the “Halo Effect”
- 40-50% Reduction in Cysts

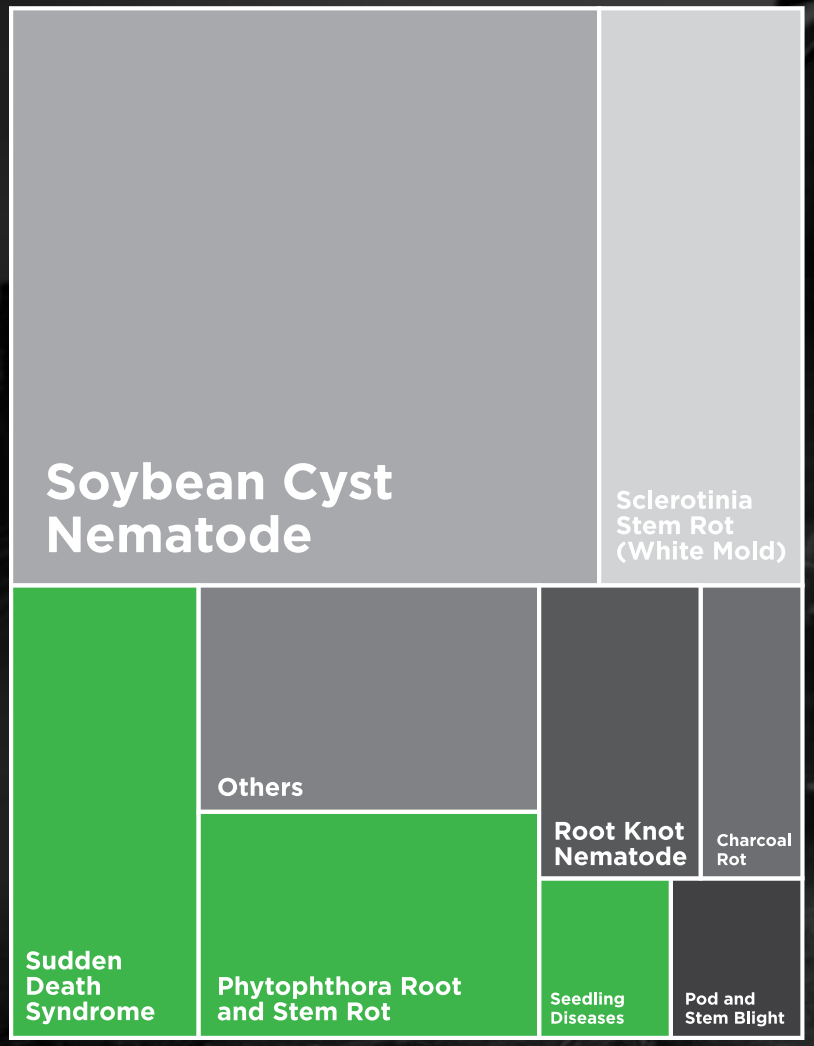
PREPHYTE™

BROAD-SPECTRUM FUNGICIDE

MERISTEM
CROP PERFORMANCE

PREPHYTE ST EPA No. 94485-5-95552

Soybean Yield Loss Due to 'Disease'

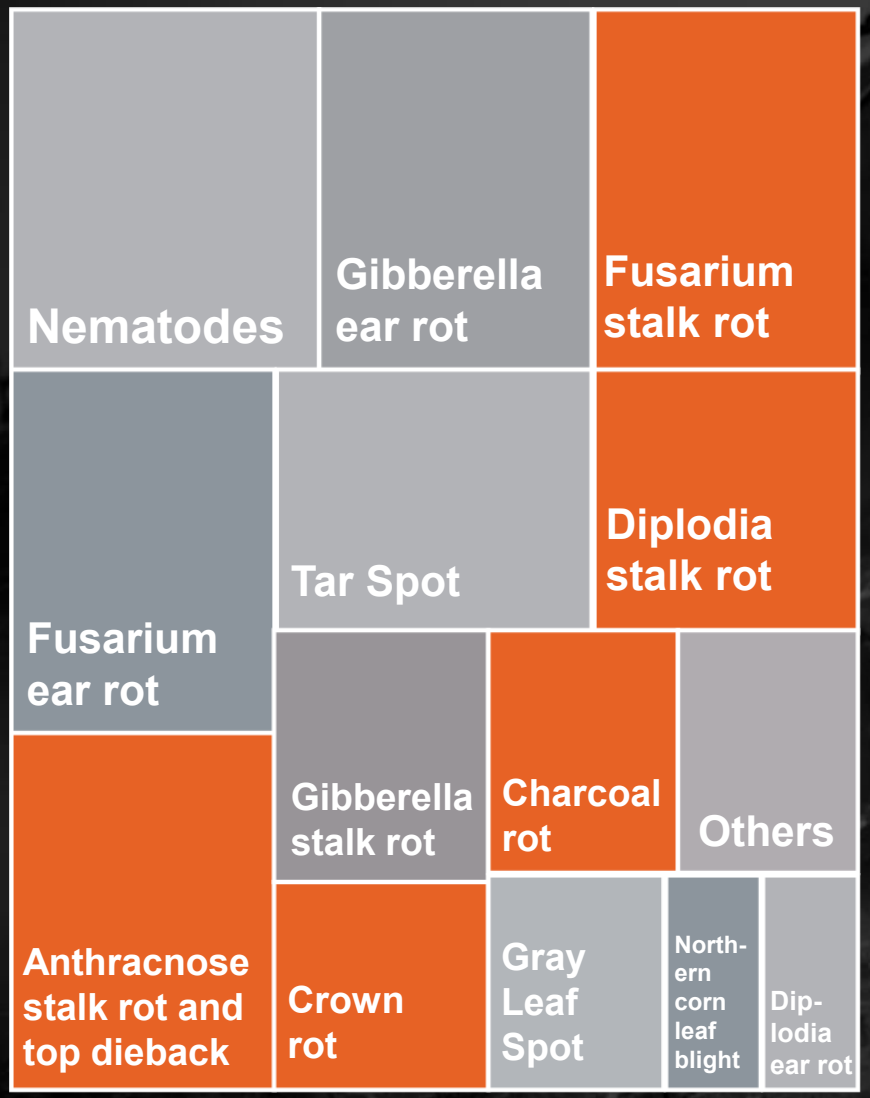


SDS + PRR + Seedling Disease: 44.7 Million Bushels Destroyed Annually

Proportion of soybean bushels estimated lost for the most problematic diseases. This figure represents 221.1 million bushels of soybean yield reduction. The "Other" category includes all diseases in this survey not represented individually.

CROP PROTECTION NETWORK
A Product of Land Grant Universities

CORN Yield Loss Due to 'Disease'



Root and Lower Stalk Rots:

204.9 Million Bushels Destroyed Annually

Proportion of 2023 corn yield lost for the most problematic diseases across the 29 U.S. This figure represents the loss of approximately 465.1 million bushels of corn. The "Others" category includes all diseases in this survey not represented individually

CROP PROTECTION NETWORK
A Product of Land Grant Universities

FOR THE FARMER WHO

Battles Crown Rots…potentially investing in @ plant fungicide…

XYWAY® LFR® FUNGICIDE

ETHOS® XB INSECTICIDE/FUNGICIDE

Cost?
$25/acre +

PREPHYTE™ II BROAD-SPECTRUM FUNGICIDE

90+ diseases controlled/suppressed on label

PREPHYTE™ 1ST

- BROAD SPECTRUM PROTECTION ON SOIL-BORNE DISEASES & LESION NEMATODES
- BROADLY COMPATIBLE WITH LOW USE RATE
- BIO-CAPSULE DELIVERY SYSTEM MAXIMIZES ACTIVITY
- STIMULATES NATURAL PLANT DEFENSES
- PROMOTES PLANT GROWTH & YIELD

Yield Monitor vs Weighed

Weighed Checks >80% Positive ROI

REVLINE® HOPPER THROTTLE® CORN ACE PLANTER BOX TREATMENT

PREPHYTE® BROAD-SPECTRUM FUNGICIDE

ETHER™ ENZYME TECHNOLOGY

Weighed +16.5 bu/ac

Yld Monitor +9.0 bu/ac

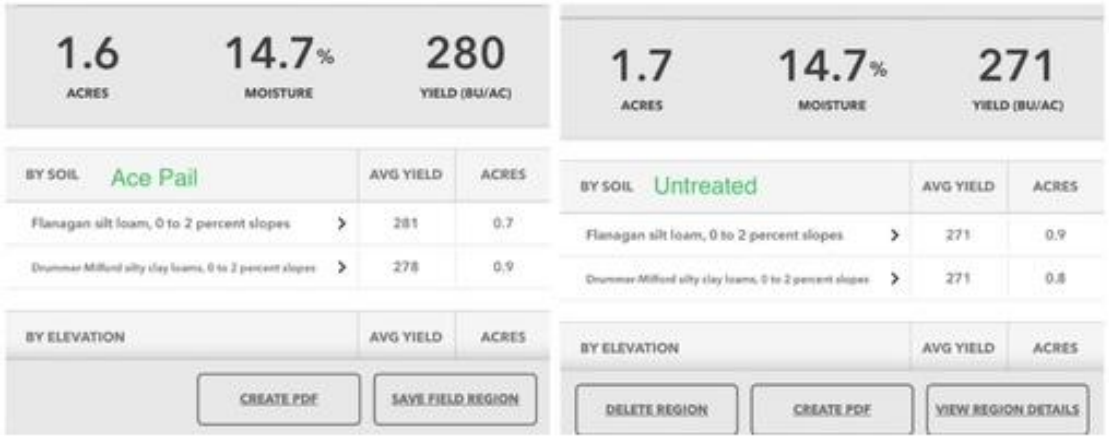
MERISTEM CROP PERFORMANCE

State:	Illinois	**Plant Date:**	5/11/2025
County:	Douglas	**Harvest Date:**	10/10/2025
Crop:	Corn		
Prev Crop:	Soybeans		

REVLINE® HOPPER THROTTLE® CORN ACE PLANTER BOX TREATMENT

Rank	Brand	Hybrid	Treatment	RM	Yield	Mosture	Advantage
2	Dekalb	DKC68-35		118	269.4	14.6	
1	Dekalb	DKC68-35	RHTC Ace	118	285.9	14.7	**16.5 Bu.**

ROI: $47



Yield Monitor vs Weighed

Weighed Checks >80% Positive ROI

REVLINE® HOPPER THROTTLE CORN ACE PLANTER BOX TREATMENT

PREPHYTE BROAD-SPECTRUM FUNGICIDE

ETHER ENZYME TECHNOLOGY

Weighed +10.9 bu/ac

Yld Monitor +1.0 bu/ac

MERISTEM CROP PERFORMANCE

State: Illinois
County: Piatt
Crop: Corn
Prev Crop: Corn

Plant Date: 5/10/2025
Harvest Date: 10/2/2025

REVLINE® HOPPER THROTTLE CORN ACE PLANTER BOX TREATMENT

Brand	Hybrid	Treatment	RM	Yield	Moisture	Advantage
Dekalb	DKC114-99RIB		114	276.7	15.8	
Dekalb	DKC114-99RIB	RHTC Ace	114	287.6	16.9	**10.9 Bu**

ROI: $24

0.7	16.9%	278	0.7	15.8%	277
ACRES	MOISTURE	YIELD (BU/AC)	ACRES	MOISTURE	YIELD (BU/AC)

BY HYBRID	AVG YIELD	ACRES	BY HYBRID	AVG YIELD	ACRES
DKC114-99 G2 PRE	278	0.6	DKC114-99 G2	277	0.7

BY SOIL	AVG YIELD	ACRES	BY SOIL	AVG YIELD	ACRES
Flanagan silt loam, 0 to 2 percent slopes	281	0.4	Flanagan silt loam, 0 to 2 percent slopes	280	0.5
Drummer-Milford silty clay loams, 0 to 2 percent slopes	274	0.3	Drummer-Milford silty clay loams, 0 to 2 percent slopes	269	0.2

Yield Monitor vs Weighed

Weighed Checks >80% Positive ROI

REVLINE® HOPPER THROTTLE™ CORN ACE PLANTER BOX TREATMENT

PREPHYTE® BROAD-SPECTRUM FUNGICIDE

ETHER™ ENZYME TECHNOLOGY

Weighed **+10.1 bu/ac**

Yld Monitor +7.0 bu/ac

MERISTEM CROP PERFORMANCE

State: Illinois
County: Piatt
Crop: Corn
Prev Crop: Soybeans

Plant Date: 5/10/2025
Harvest Date: 10/2/2025

REVLINE HOPPER THROTTLE CORN ACE PLANTER BOX TREATMENT

Rank	Brand	Hybrid	Treatment	RM	Yield	Mosture	Advantage
2	Dekalb	DKC65-92		115	255.9	16.9	
1	Dekalb	DKC65-92	RHTC Ace	115	266	17.5	**10.1 Bu**

ROI: $21

Field Region Oct 20, 2025 10/20/25

1 ACRES	17.4% MOISTURE	261 YIELD (BU/AC)

BY HYBRID	AVG YIELD	ACRES
DKC65-92	261	1

BY SOIL	AVG YIELD	ACRES
Sunbury silt loam, 0 to 2 percent slopes	266	0.4
Drummer-Milford silty clay loams, 0 to 2 percent slopes	255	0.5

1 ACRES	16.9% MOISTURE	268 YIELD (BU/AC)

BY HYBRID	AVG YIELD	ACRES
DKC65-92 PRE	269	0.9

BY SOIL	AVG YIELD	ACRES
Flanagan silt loam, 0 to 2 percent slopes	297	0.1
Drummer-Milford silty clay loams, 0 to 2 percent slopes	266	0.5
Sunbury silt loam, 0 to 2 percent slopes	262	0.4

BORNE X™ SUDDEN DEATH SYNDROME + GUARD C™ NEMATODE PROTECTION + PREPHYTE™

Guard C + BORNE X + PREPHYTE+ Metalaxyl on the left (two row plots) and Untreated Control (Two rows) on right.

SYNERGISTIC EFFECT

- Efficacy against a **broad range of fungal diseases, especially SDS**
- **Top seed safety profile** for germination and stand protection
- No **phytotoxic seedling effect** (Halo Effect)
- Compatible with other seed treatments & inoculants

BROAD SPECTRUM PROTECTION ON SOIL-BORNE DISEASES & LESION NEMATODES

BROADLY COMPATIBLE WITH LOW USE RATE

BIO-CAPSULE DELIVERY SYSTEM MAXIMIZES ACTIVITY

STIMULATES NATURAL PLANT DEFENSES

PROMOTES PLANT GROWTH & YIELD

PREPHYTE™ IST

OMRI LISTED For Organic Use

EPA reg no. 94485-5

A proprietary OMRI listed, BioFungicide Seed Treatment that provides three modes of action to protect against **Soil-Borne Diseases**, **Free-Living Nematodes** and **Abiotic Stress.**

FEATURES

- EPA Registered Active Ingredient – **Broad Spectrum** strain
- **Low use rate** that is **compatible** with multiple technologies
  - Best in class strain selected for its fungicidal properties
- **OMRI Listed** and is suitable for both organic and conventional production.
  - BioControl & BioStimulant in one formulation
- **Three Modes of Action** providing more control and less pesticidal resistance

MERISTEM CROP PERFORMANCE

GUARDIAN™

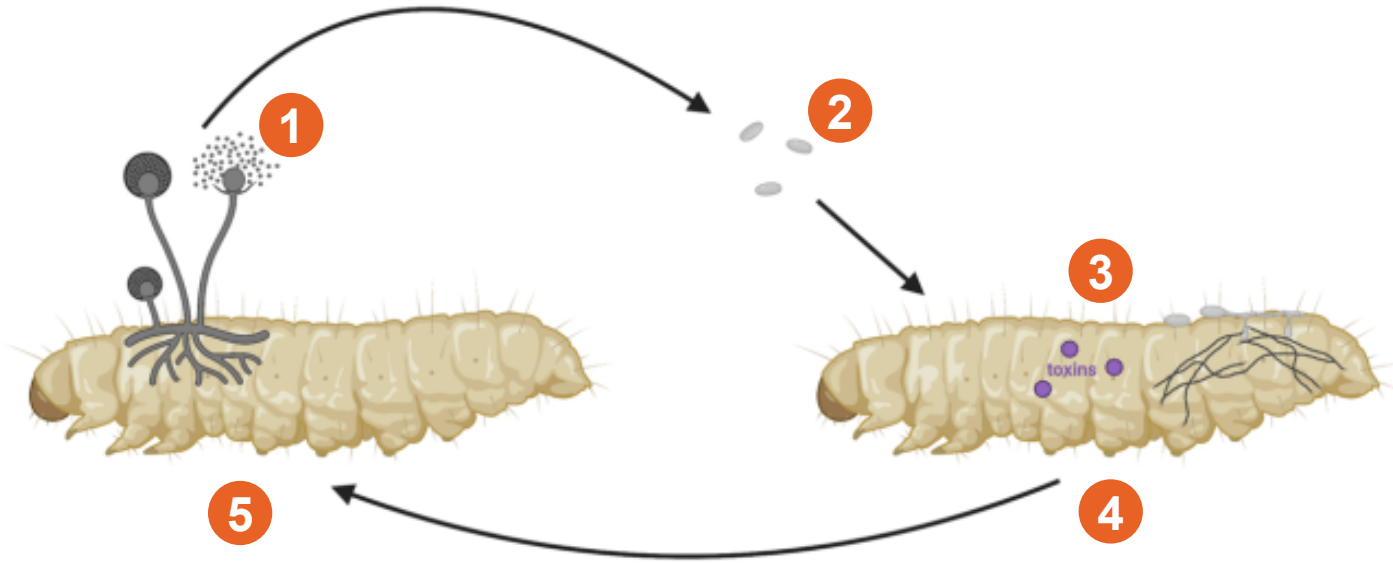
INSECT PROTECTION

MERISTEM®
CROP PERFORMANCE

GUARD M™

SOYBEAN INSECT PROTECTION

Naturally-occurring, fungal biocontrol agent proven effective on a wide range of insects - **contact mycoinsecticide** which infects insects by producing spores on the surface of insects, ultimately killing them.



1. Guard M spores applied to insect
2. Spores spread by rain, wind & insect movement
3. Spores germinate & penetrate insect
4. Toxins produced & explode nutrients within host
5. Fungus grows out of insect & produces more spores

METALAXYL

METALAXYL ST is a systemic fungicide that contains the chemical metalaxyl, which interferes with fungal RNA synthesis.

METALAXYL ST is intended for use as a planter box treatment in combination of broad-spectrum fungicide.

METALAXYL ST can be used as a planter box application through Meristem's patented **BIO-CAPSULE™ Technology**.

**For use in soybean systems only.*

METALAXYL ST EPA No. 94485-8

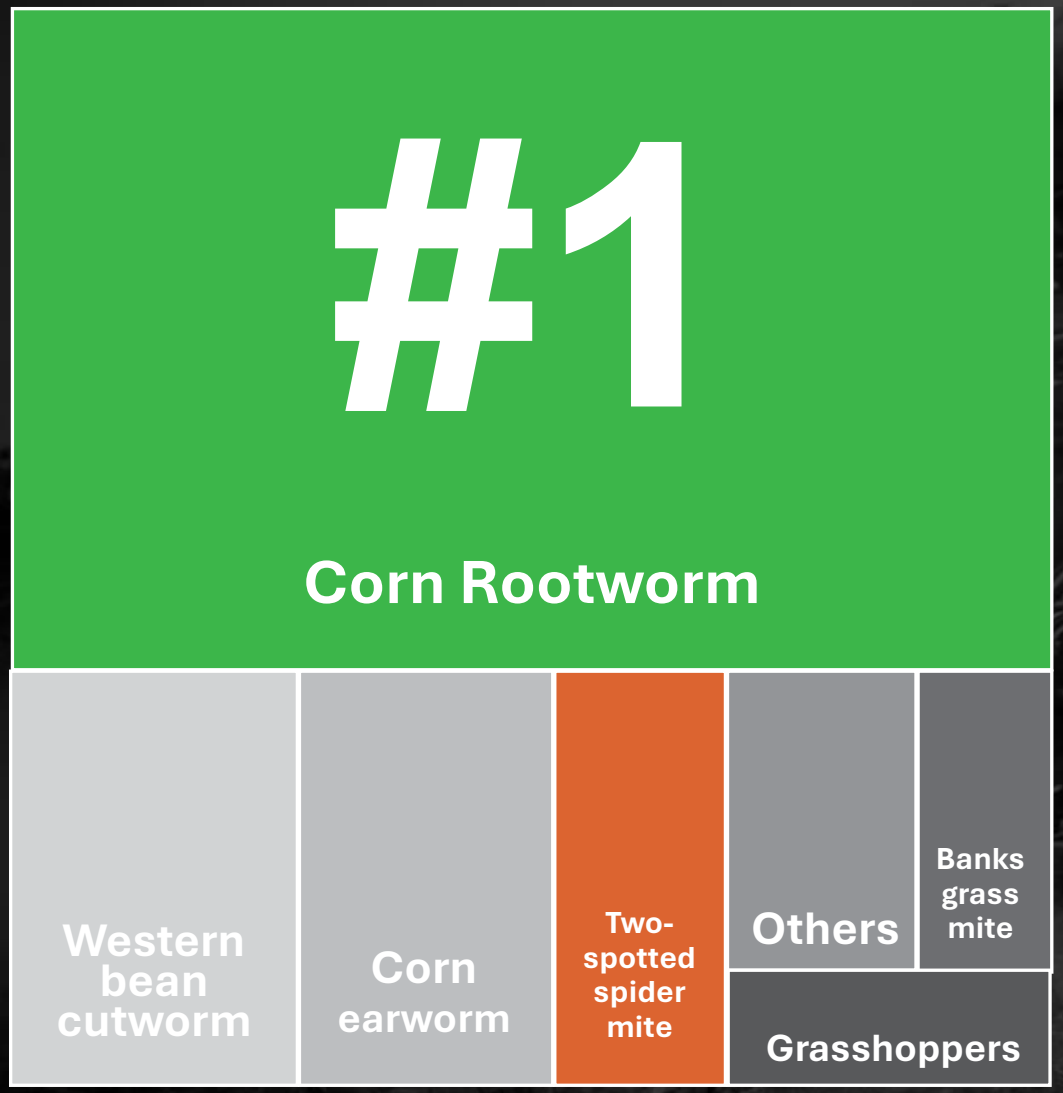
GUARD X II™

CRW MANAGEMENT + ROOT REGEN

MERISTEM
CROP PERFORMANCE

Guard X EPA No. 95699-2-95552

CORN Yield Loss Due to 'Insects'



Corn Rootworm:
519.5 Million Bushels Destroyed Annually

Common name and relative proportion of estimated yield losses for invertebrate pests of corn in 2023. Others includes all species listed with the exception of the six highlighted here

CROP PROTECTION NETWORK
A Product of Land Grant Universities

MERISTEM
CROP PERFORMANCE

BREAKTHROUGH TO EXCELLENCE
MERISTEM DEALER PARTNER EXCHANGE

GUARD X™

CRW MANAGEMENT + ROOT REGEN

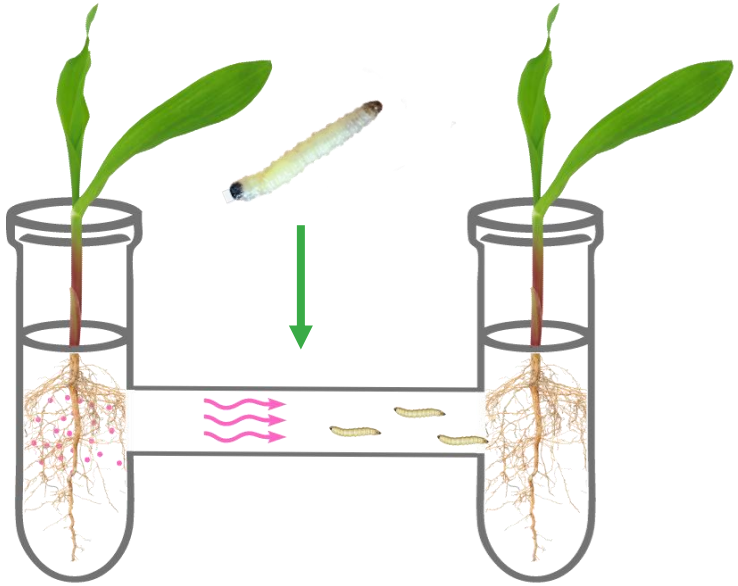
Guard X™ is an EPA-registered bioinsecticide that repels corn rootworm (CRW) at the root. **Guard X** also activates the plant's immune system, and sets the plants up to more efficiently withstand abiotic stresses.

Guard X can be used as a planter box application through Meristem's patented **BIO-CAPSULE™ Technology**.

Guard X EPA No. 95699-2-95552

Guard X Repels Larval Feeding

When given a choice between Guard X-treated and untreated roots, most larvae chose untreated.



GUARDX™ CRW MANAGEMENT + ROOT REGEN

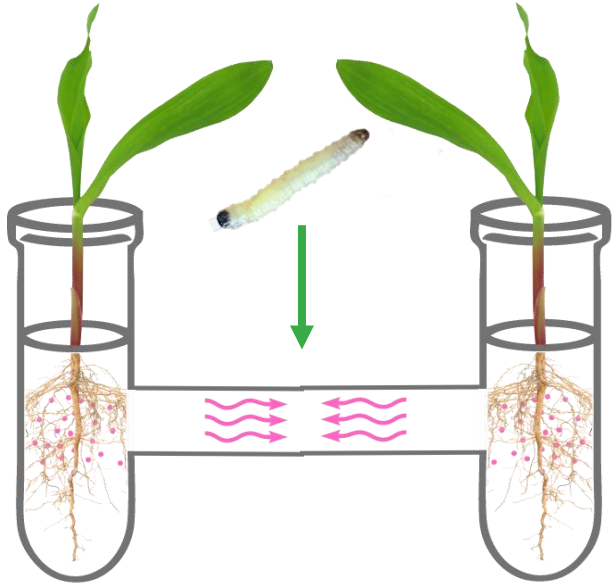
4%
of larvae chose Guard X-treated roots

26%
of larvae stayed in the center

UTC

70%
of larvae chose the untreated roots

When given a choice between Guard X-treated and Guard X-treated roots, most larvae chose neither.



GUARDX™ CRW MANAGEMENT + ROOT REGEN

GUARDX™ CRW MANAGEMENT + ROOT REGEN

80%
of larvae remained undecided and stayed in the center

 Assay conducted at the University of Missouri 2023: Neonate larvae of Western Corn Rootworm were introduced in the center of the apparatus and given time to move to one of the roots, n = 120 larvae over 3 separate runs of the assay with 4 replicates each

BREAKTHROUGH TO EXCELLENCE
MERISTEM DEALER PARTNER EXCHANGE

GuardX Acres Growth

*Forecast

Guard X Repels Larval Feeding

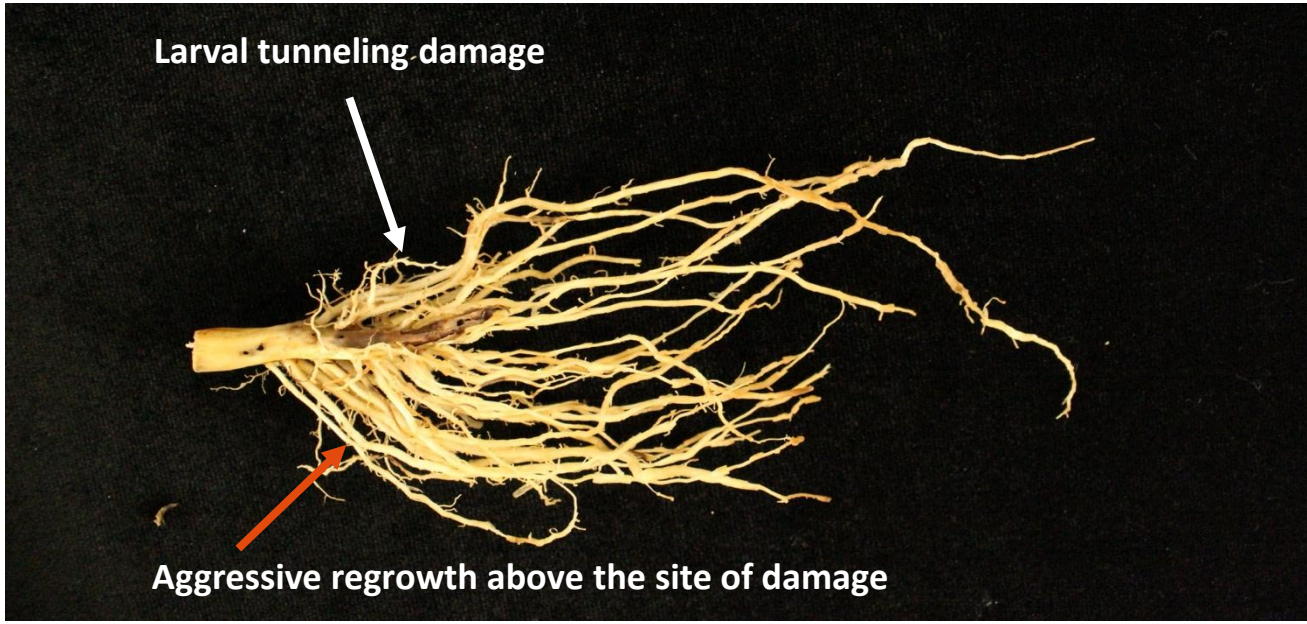
 2024 study with University of Missouri; Head space was sampled from treated and untreated roots and subjected to GC-MS analysis to identify volatile organic compounds (VOCs); manuscript currently under review and pre-prints available: https://www.biorxiv.org/content/10.1101/2025.05.22.655610v1

Guard X Enhances Root Regrowth After Larval Damage

Control

4th node dissected root showing larval tunneling feeding damage

Guard X



4th node dissected root showing larval tunnelling feeding damage

For damaged roots; Guard X showed an overall increase in number of root tips (+10.4%) and total root length (+6.2%) with the strongest effect observed in nodes 1-3; number of root tips (+24.0 %) and total root length (+15.1%)

 2024 study with university collaborators, CRW larval feeding pressure in the UTC = 0.26 on the 0-3 NIS scale. 100 roots sampled from a RCBD small plot trial roughly 3 weeks after NIS ratings taken to evaluate rooting and regrowth with Rhizovision Explorer. Roots with larval tunneling or larval pruning imaged separately to determine regrowth after damage.

GUARD X II™

CRW MANAGEMENT + ROOT REGEN

Root Regen

The real deal….

Not just CRW

Guard X EPA No. 95699-2-95552

GUARDXII™ + Terrasym®

CRW MANAGEMENT + ROOT REGEN

Corn Bioinsecticide – CRW Protection

+8.8 Bu/Ac[2]

Win Performance Advantage[1]

65 trials[3]

across 9 states 2023-present[4]

Corn Biostimulant

+7.7 Bu/Ac[2]

Win Performance Advantage[1]

144 trials[3]

across 12 states over 2020-2023

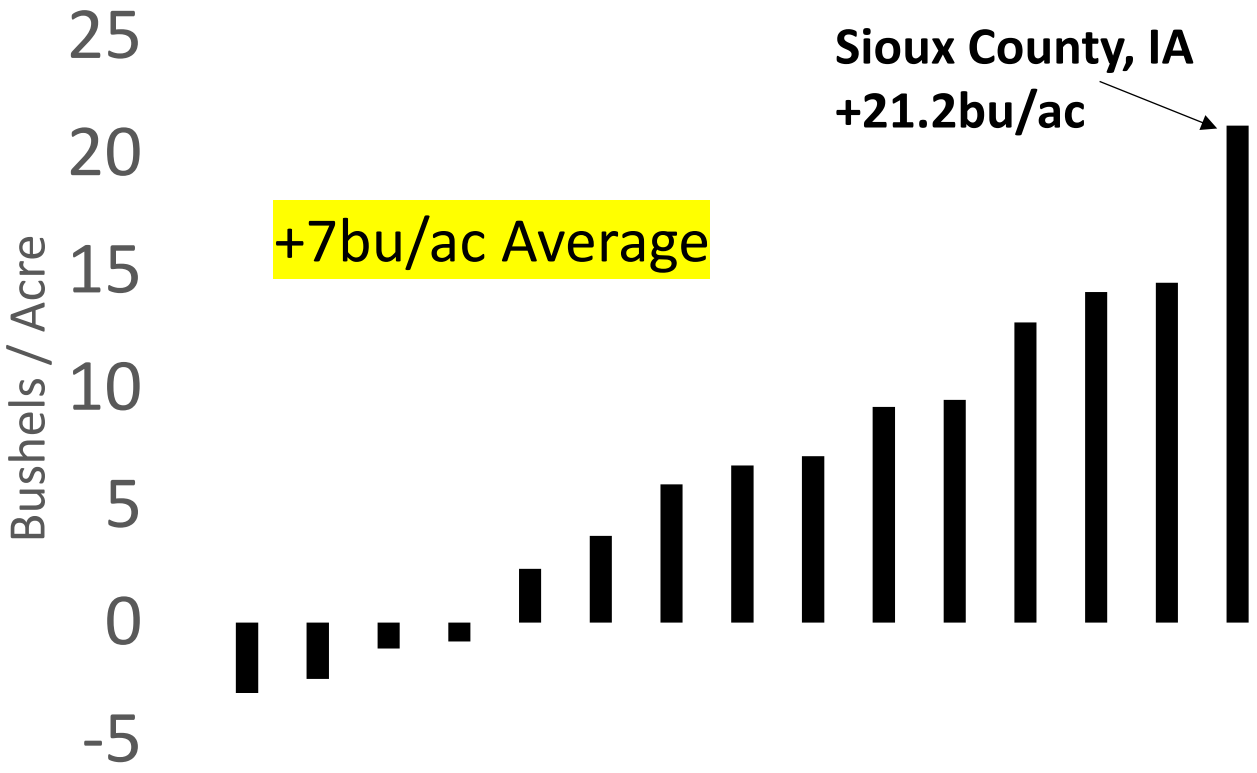
MERISTEM CROP PERFORMANCE

https://newleafsym.com/

GUARDX II™

CRW MANAGEMENT + ROOT REGEN

RHTC+Ether/Carbon+GuardX vs Check



MERISTEM
CROP PERFORMANCE

3rd Party Research – National – Robinson Group

Coming Soon: Expanded Label for Guard X

Guard X protects crops from insect damage by stimulating the plant's own defenses and is an effective tool in the integrated pest management toolbox – **NOT JUST CRW** suppression

Expanded Commercial Label for the 2026 crop season will be available – pending EPA approval.

Positive proof of concept:

- Fall Armyworm
- Stinkbug
- Root Knot Nematodes

For updates: www.newleafsym.com

GUARDX™
CRW MANAGEMENT + ROOT REGEN

Guard X is Game Changer in Insect Management

FOR THE FARMER WHO

uses traits in low or no CRW pressure environments (insurance)...

SmartStax® PRO With RNAi TECHNOLOGY

Cost?

$25-60/ac +

SmartStax® TECHNOLOGY

VORCEED® Enlist®

NEXTA™ »

?

GUARDX™ CRW MANAGEMENT + ROOT REGEN

PREPHYTE™ ST BROAD-SPECTRUM FUNGICIDE

Guard X
A multiple-mode-of-action indirect bioinsecticide to mitigate corn rootworm damage

Prephyte ST
Broad-spectrum, EPA-registered fungicide for prevention, control or suppression of many soil-borne diseases

Base Pail & Seed Fluency:
- 80/20 Talc/Graphite
- Mn & Fe
- 1.35 lbs IonLock Zinc

equiv. to 1.35 qts 9% Zn EDTA

$19/ac TCO

In-Furrow Insecticide +Fungicide

Force®

AZTEC

XYWAY® LFR® FUNGICIDE

ETHOS® XB INSECTICIDE / FUNGICIDE

$60/ac? +

GUARD X™ CRW MANAGEMENT + ROOT REGEN

PREPHYTE™ ST BROAD-SPECTRUM FUNGICIDE

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equiv. to 1.35 qts 9% Zn EDTA

$19/ac TCO

MERISTEM CROP PERFORMANCE

HOPPER THROTTLE® CORN PLANTER BOX TREATMENT

POWERED BY BIO-CAPSULE® TECHNOLOGY

NUTRIENT & MICROBIAL PLANTER BOX DELIVERY SYSTEM

GUARD X™ CRW MANAGEMENT + ROOT REGEN

PREPHYTE™ ST BROAD-SPECTRUM FUNGICIDE

Hopper Throttle® Corn with Guard X and Prephyte ST is an advanced planter box system that combines seed fluency, micronutrients and live biology in a convenient delivery system that can replace any seed fluency agent.

The patented Bio-Capsule™ Technology delivery system allows for the addition of multiple biological solutions safely packaged for convenient, live deployment at planting.

PRODUCT BENEFITS

- IonLock™ Zinc increases singulation & adheres microbes to seed coats while providing valuable early emergence nutrition
- Increases early-season iron, manganese and zinc uptake
- Puts corn plants in the position to manage season-long stressors and optimize genetic potential
- Guard X: repels corn rootworm (CRW) at the root & activates the plant's immune system to efficiently withstand abiotic stresses
- Prephyte ST: protection against many soil-borne diseases, free-living nematodes and abiotic stresses

Guard X
A multiple-mode-of-action indirect bioinsecticide to mitigate corn rootworm damage

Prephyte ST
Broad-spectrum, EPA-registered fungicide for prevention, control or suppression of many soil-borne diseases

Base Pail & Seed Fluency:
- 80/20 Talc/Graphite
- Mn & Fe
- 1.35 lbs IonLock Zinc
equiv. to 1.35 qts 9% Zn EDTA

Actual product packaging may be different than this visual

Co-packed with EPA-registered Guard X™ and Prephyte™ ST*

GUARANTEED ANALYSIS

BASE INGREDIENTS

Iron (Fe)	0.70%
Manganese (Mn)	0.90%
Zinc (Zn)	4.00%
4.00% Water Soluble Zinc	

Derived from Iron Oxide, Manganese Oxide and Zinc Sulfate.

BIO-CAPSULE INGREDIENTS:

GUARD X BIO-CAPSULE (CO-PACK) EPA Reg. No.: 95699-2-95552

ACTIVE INGREDIENT: *Methylorubrum extorquens* strain NLS0042*	2.0%
OTHER INGREDIENTS:	98.0%
TOTAL:	100.0%

*Contains not less than X 10^9 CFU/g of product.

PREPHYTE ST BIO-CAPSULE (CO-PACK) EPA Reg. No.: 94485-5

ACTIVE INGREDIENT: *Bacillus amyloliquefaciens* strain ENV503*	0.149%
OTHER INGREDIENTS:	99.851%
TOTAL:	100.000%

*Not less than 5.9 X 10^9 Colony Forming Units (CFU) per gram of product.

DIRECTIONS FOR USE & RECOMMENDED USE RATE

DO NOT ACTIVATE BIO-CAPSULE UNTIL READY FOR USE. Read and follow all label directions for use on package. Once ready to plant, remove the safety clips from the Bio-Capsules. Push down on the buttons atop the pail to release the biologicals into the base. Seal the pail and shake aggressively to blend the contents. Before each application, aggressively shake contents to ensure the correct volume is applied.

The combined products (1 pail) treat 50 units of corn at 80k seeds per unit.

For single-row unit planters, use the enclosed scoop to measure out blended contents. One scoop treats 1 unit (80k seeds) corn.

PRODUCT AVAILABILITY

Sold in 2-pail cases to treat 100 units of corn. Each pail is capable of treating 50 units of corn

THE NEW NORMAL: SEED + MAX BIOPOWER

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

4. Guard X™
Multiple-mode-of-action bioinsecticide to alleviate corn rootworm feeding.

5. Guard M™
EPA-registered insecticide for soybeans that targets seedcorn maggots and other secondary pests.

6. Guard C™
Bionematicide containing Fungal chitosan to suppress nematodes while stimulating root and plant growth.

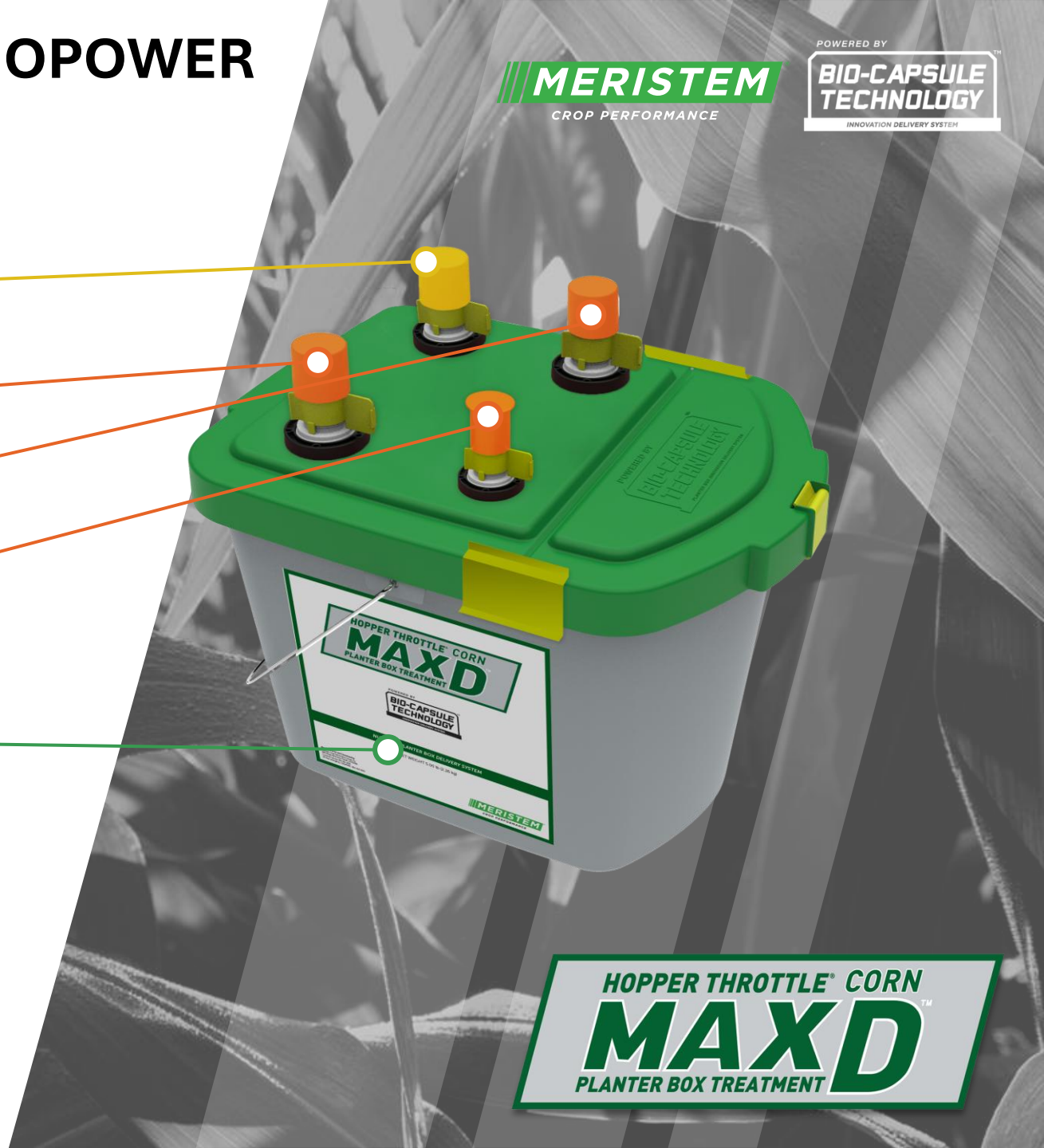
BASE PAIL - Seed Fluency blend

7. Seed Fluency

8. IONLOCK™ Manganese (Mn)

9. IONLOCK™ Iron (Fe)

10. IONLOCK™ Zinc (Zn) - *(equivalent to 1.5 qt Zinc 9% EDTA)*



THE NEW NORMAL: SEED + MAXSTAX BIOPOWER

1. REVLINE®
Proven, industry-leading Terrasym® biostimulant PPFM strain that generates massive root structures and healthier plants.

2. Nitrogen-Fixing Microbes

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

4. Guard X™
Multiple-mode-of-action bioinsecticide to alleviate corn rootworm feeding.

5. Guard M™
EPA-registered insecticide for soybeans that targets seedcorn maggots and other secondary pests.

6. Guard C™
Bionematicide containing Fungal chitosan to suppress nematodes while stimulating root and plant growth.

BASE PAIL - Seed Fluency blend

7. Seed Fluency

8. IONLOCK™ Manganese (Mn)

9. IONLOCK™ Iron (Fe)

10. IONLOCK™ Zinc (Zn) - *(equivalent to 1.5 qt Zinc 9% EDTA)*

11. Active Carbon

12-13. ETHER™ Enzyme Technology

Lipase & Mannanase enzymes that increase biological activity & activate nutrient availability.

MERISTEM
CROP PERFORMANCE

POWERED BY
BIO-CAPSULE TECHNOLOGY
INNOVATION DELIVERY SYSTEM

HOPPER THROTTLE™ CORN
MAXSTAX
PLANTER BOX TREATMENT

THE NEW NORMAL: SEED + MAXSTAX BIOPOWER

1. Industry-Leading Bradyrhizobia Inoculant
Aggressive multi-strains of Bradyrhizobium for accelerated early season nodulation.

2. METALAXYL
Industry-standard systemic fungicide for control of phytophthora and pythium.

3. PREPHYTE™
Broad-spectrum, EPA-registered fungicide for prevention, control or suppression of many soil-borne diseases.

4. REVLINE®
Proven, industry-leading Terrasym® biostimulant PPFM strain that generates massive root structures and healthier plants.

5. Nitrogen-Fixing Microbes

6. Trichoderma

7. BORNE X™
EPA-registered fungicide to prevent soil-borne fungal diseases such as Fusarium (causal agent for SDS) and Rhizoctonia.

8. Guard M™
EPA-registered insecticide for soybeans that targets seedcorn maggots and other secondary pests.

9. Guard C™
Bionematicide containing Fungal chitosan to suppress nematodes while stimulating root and plant growth.

BASE PAIL - Seed Fluency blend

10. Seed Fluency

11. IONLOCK™ Manganese (Mn)

12. IONLOCK™ Iron (Fe)

13. IONLOCK™ Zinc (Zn) - *(replaces 1.5 qt Zinc 9% EDTA)*

14. Active Carbon

15-16. ETHER™ Enzyme Technology
Lipase & Mannanase enzymes that increase biological activity & activate nutrient availability.

MERISTEM CROP PERFORMANCE

POWERED BY BIO-CAPSULE TECHNOLOGY INNOVATION DELIVERY SYSTEM

$40/ac Replant Coverage

HOPPER THROTTLE™ SOYBEAN MAXSTAX PLANTER BOX TREATMENT

Early Planting Date Grain Yield & Yield Components

Residue	Seed Trt.	V4 Foliar	Grain Yield		Seed Number	Seed Weight
			bushels per acre		seeds per m^2	mg per seed
None	None	None	**63.3**		**3112**	**119**
None	None	Harvest Shield @1pt/a	**64.1**	**+0.8**	**3101**	**120**
None	Commercial	None	**63.5**	**+0.2**	**3115**	**119**
None	MaxStax	None	**64.9**	**+1.6**	**3178**	**119**

MaxStax **+1.4bu/ac** vs Commercial Seed Treatment + Fluopyram

IIeVO®

Grain yields adjusted to 13% moisture; Seed weight presented at 0% moisture;
* Indicates a significant difference between at treatment and the untreated control at the 0.1 threshold.

Adapted from complete data set 2025

Crop Physiology

Late Planting Date Grain Yield & Yield Components

Residue	Seed Trt.	V4 Foliar	Grain Yield		Seed Number	Seed Weight
			bushels per acre		seeds per m^2	mg per seed
None	None	None	54.4		2599	122
Excavator	None	None	56.2	+1.8	2614	126
Excavator	Commercial	None	54.8	+0.4	2616	123
Excavator	Commercial	Harvest Shield @1pt/a	57.4*	+3.0	2728	123
Excavator	MaxStax	None	59.0*	+4.6	2771	124

+2.6 bu/ac HarvestShield

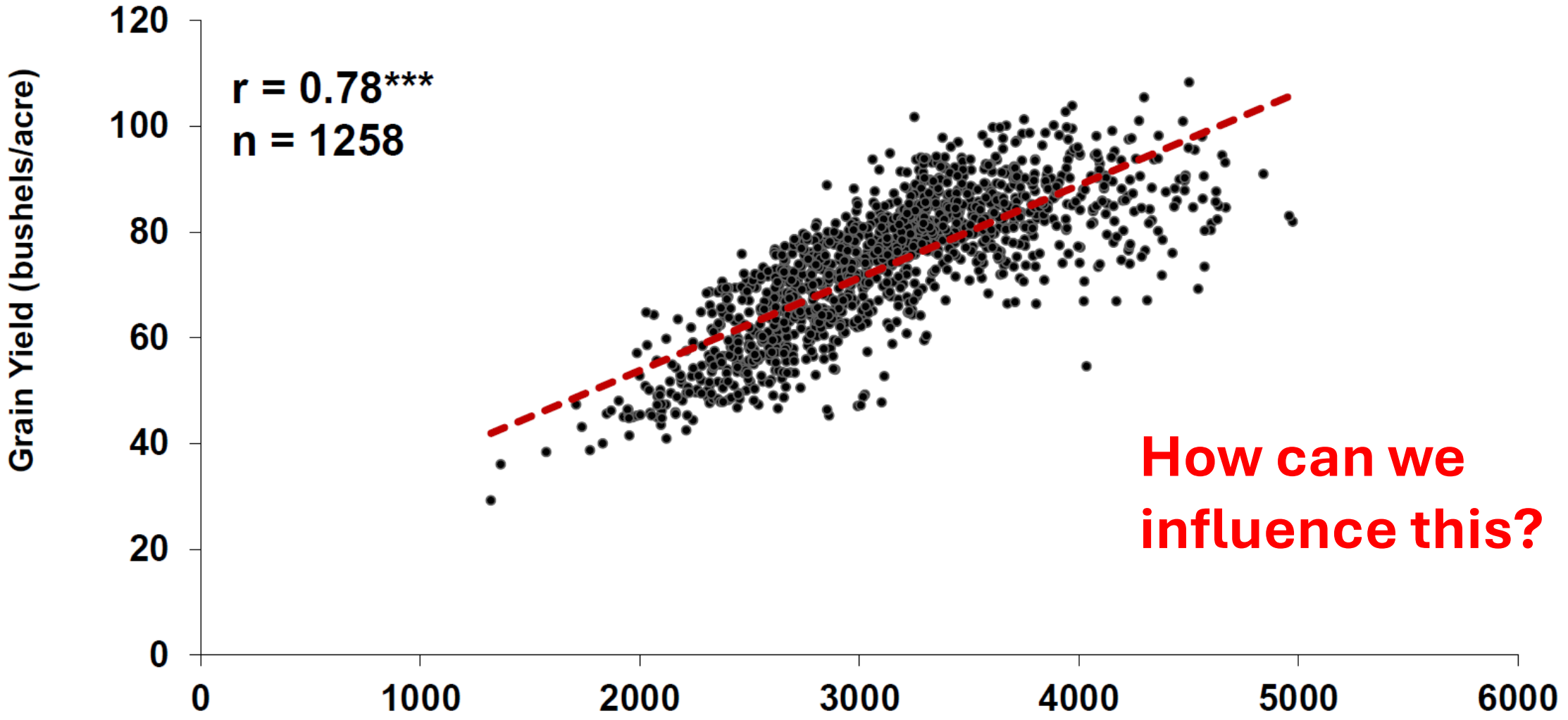
MaxStax +4.2bu/ac vs Commercial Seed Treatment + Fluopyram

Grain yields adjusted to 13% moisture; Seed weight presented at 0% moisture;
* Indicates a significant difference between at treatment and the untreated control at the 0.1 threshold.

Adapted from complete data set 2025

Crop Physiology

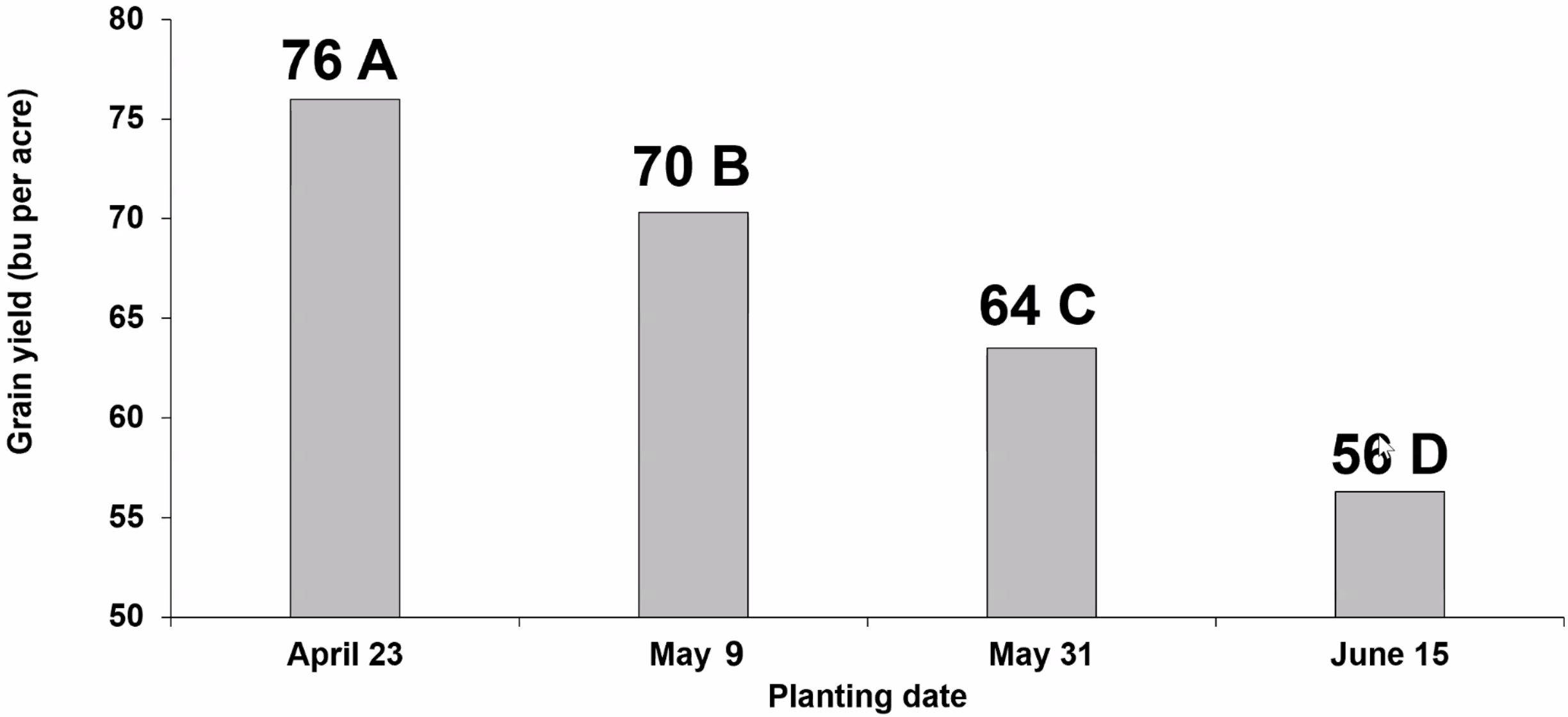
Soybean Seed Number x Grain Yield



How can we influence this?

Crop Physiology

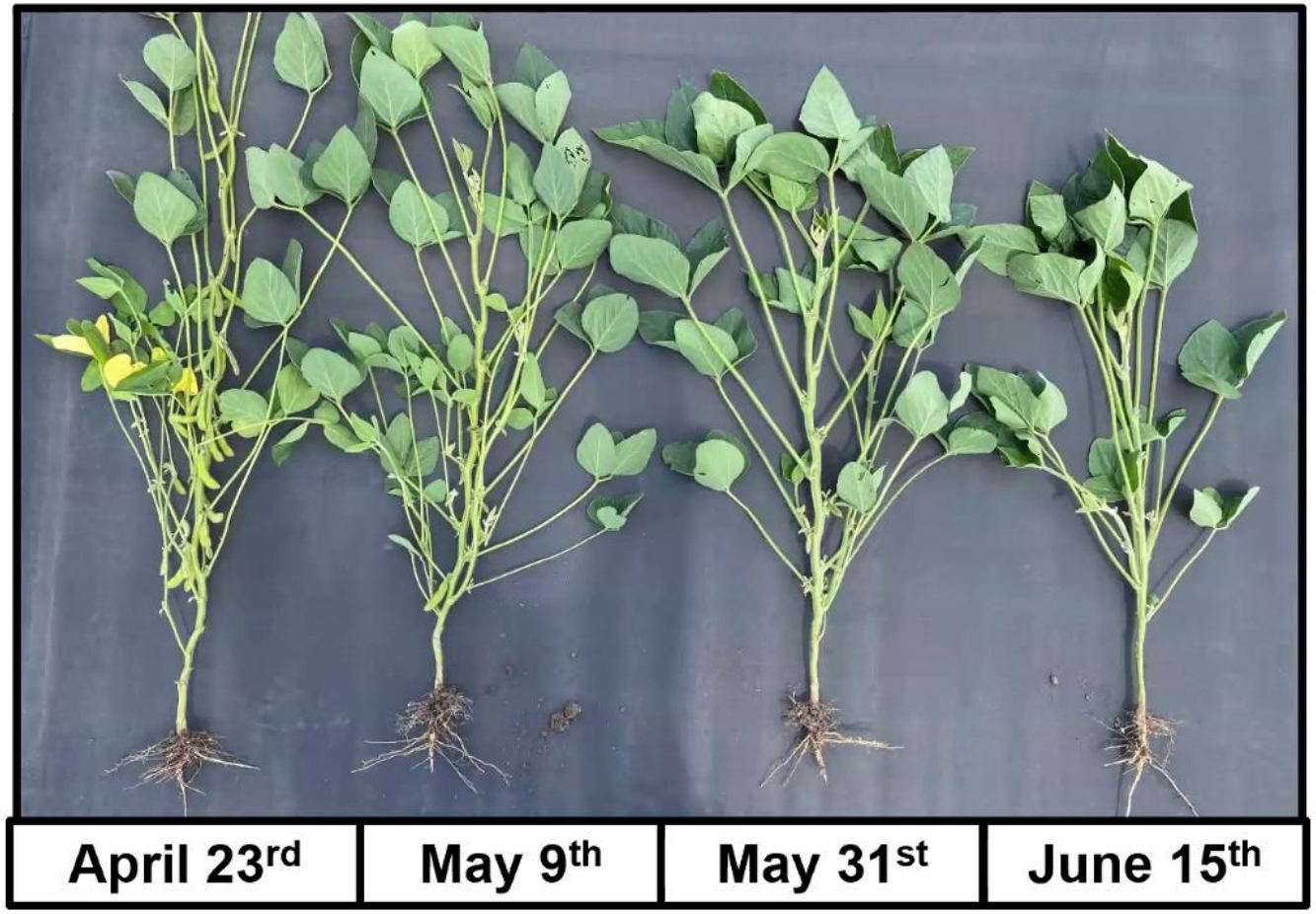
2022 Soybean Grain Yield x Planting Date



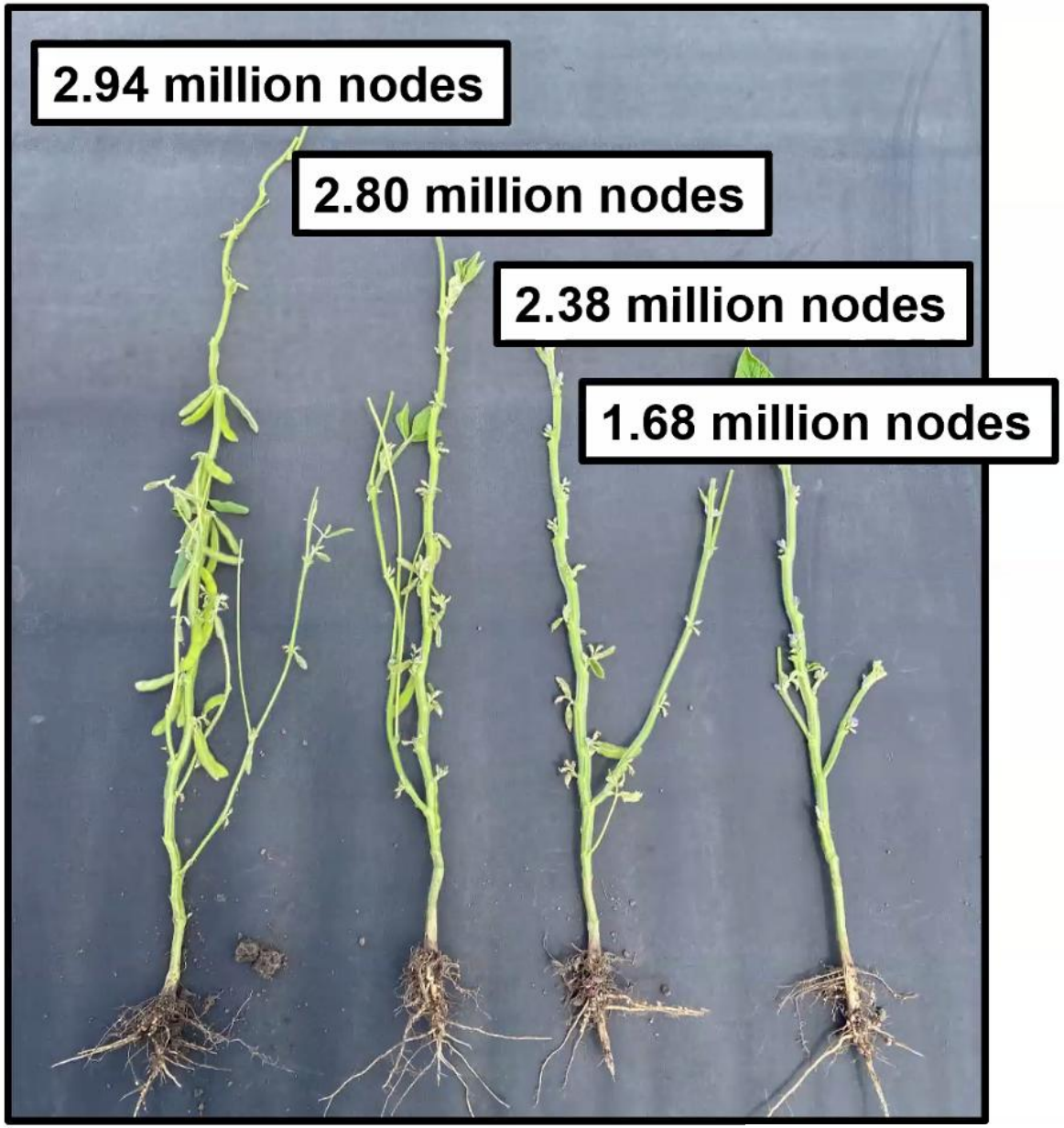
Averaged across 16 varieties, eight management treatments and four replications.
Different letters indicate significant differences between treatments at $p = 0.10$. Champaign, IL (2022)

Crop Physi

Total nodes/acre at 140k plants/acre

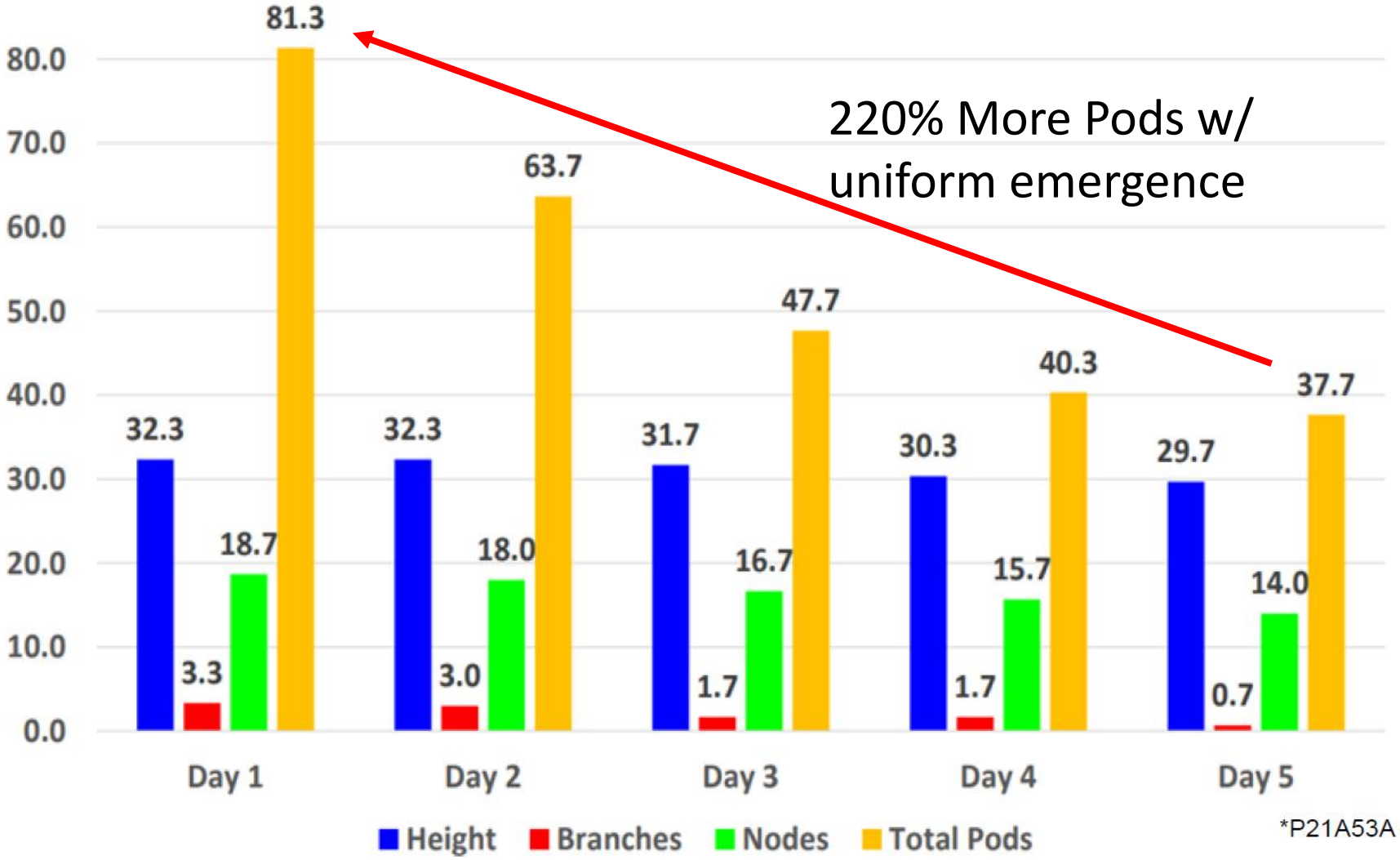


April 23rd	May 9th	May 31st	June 15th



Crop Physiology

Is Emergence Synchrony Important in Soybeans?



220% More Pods w/ uniform emergence

How many of you place starter on your soybean fields? Corn?

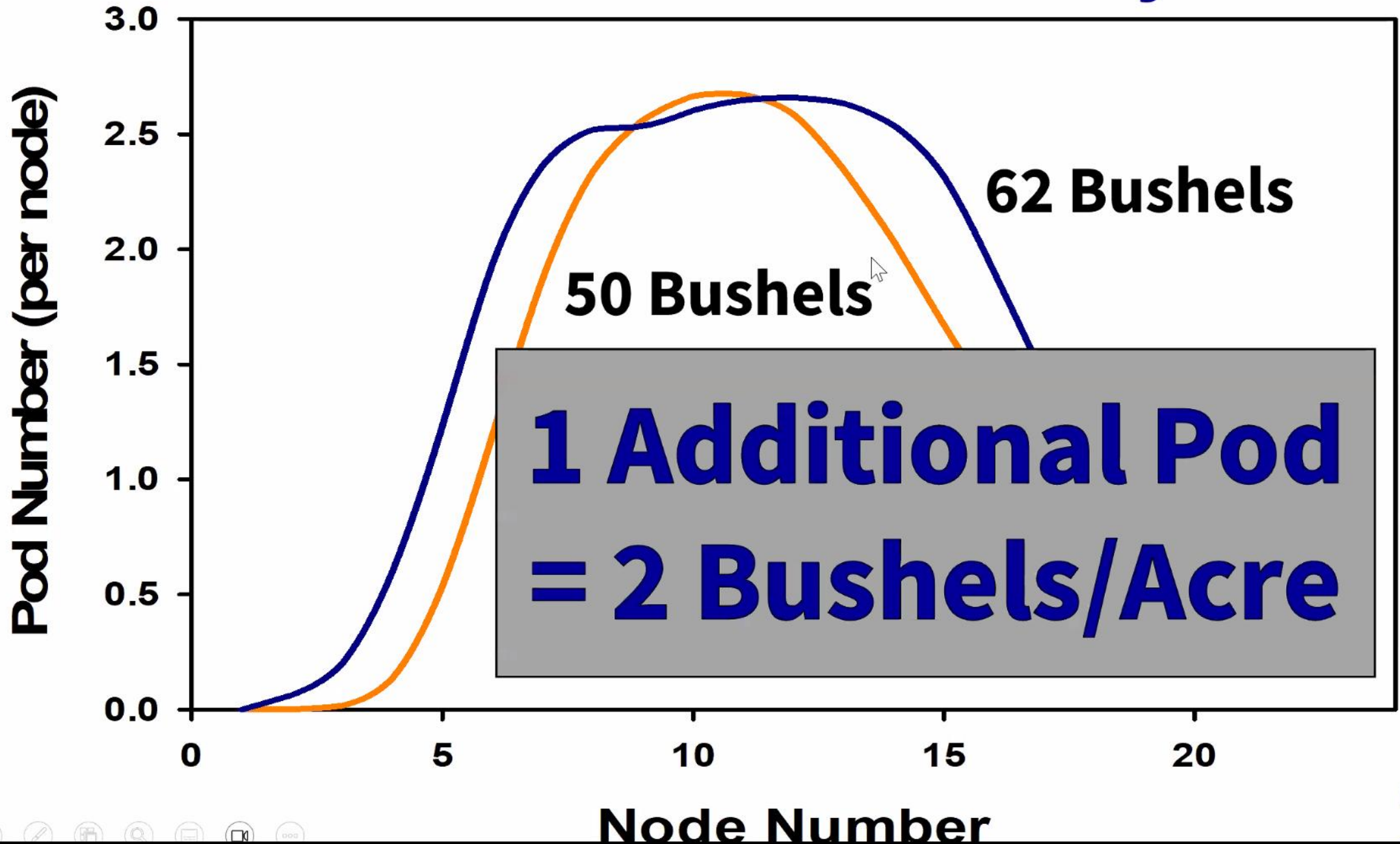
*P21A53A – William Long's data 2023

MERISTEM
CROP PERFORMANCE

REVLINE®
EARLY-SEASON
PLANT GROWTH REGULATOR

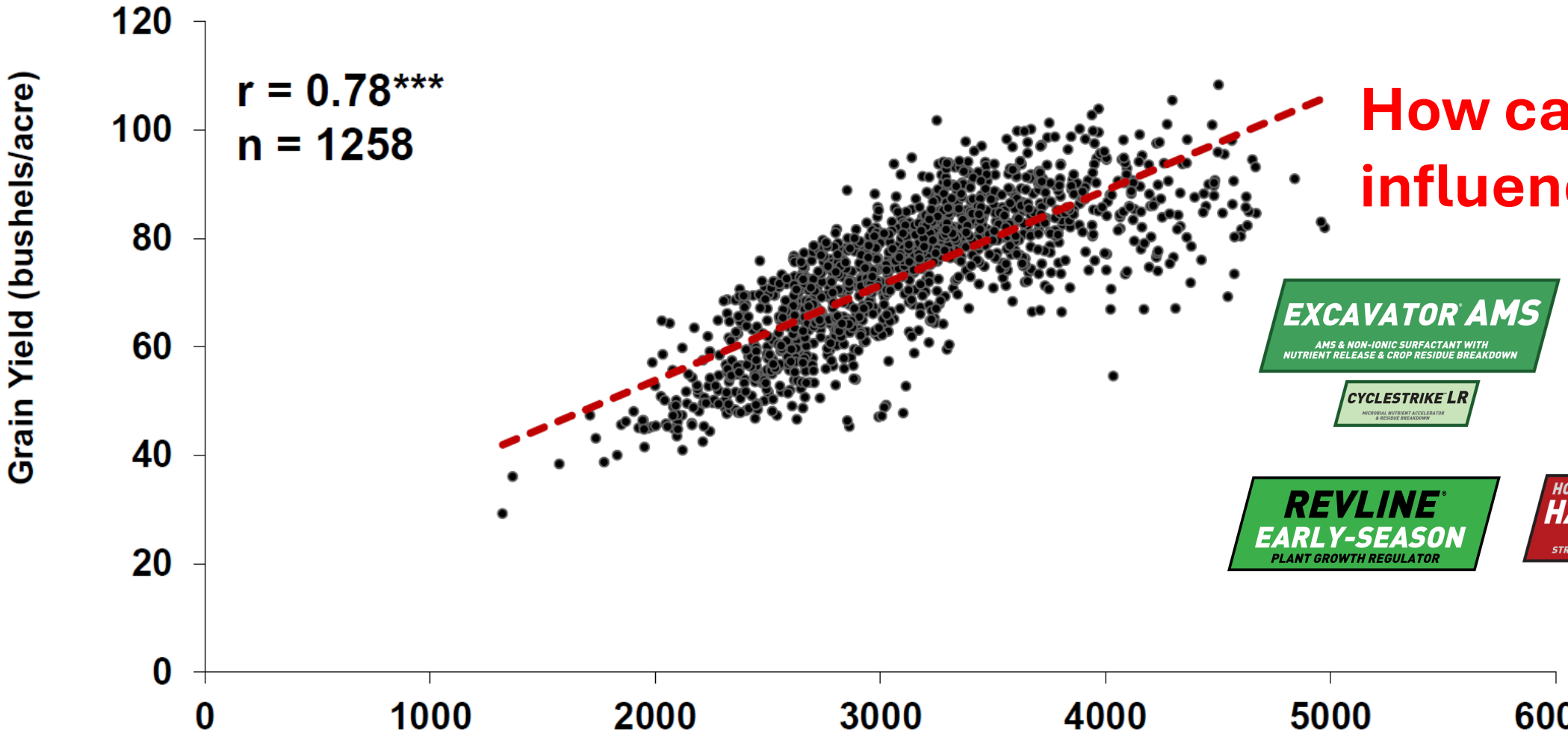
2-4oz/ac with Post Herbicide is Money

How Does Pod Number Effect Soybean Yield



Crop Physiol

Soybean Seed Number x Grain Yield



How can we influence this?

Crop Physiology

Main Effects on Grain Yield & Yield Components

Factor	Level	Grain Yield	Seed Number	Seed Weight
		bushels per acre	seeds per m^2	mg per seed
Seed Treatment	Commercial	**66.0**	**3207^{B}**	**119**
	MaxStax	**68.3**	**3325^{A}**	**120**

MaxStax +2.3bu/ac vs Commercial Seed Treatment + Fluopyram

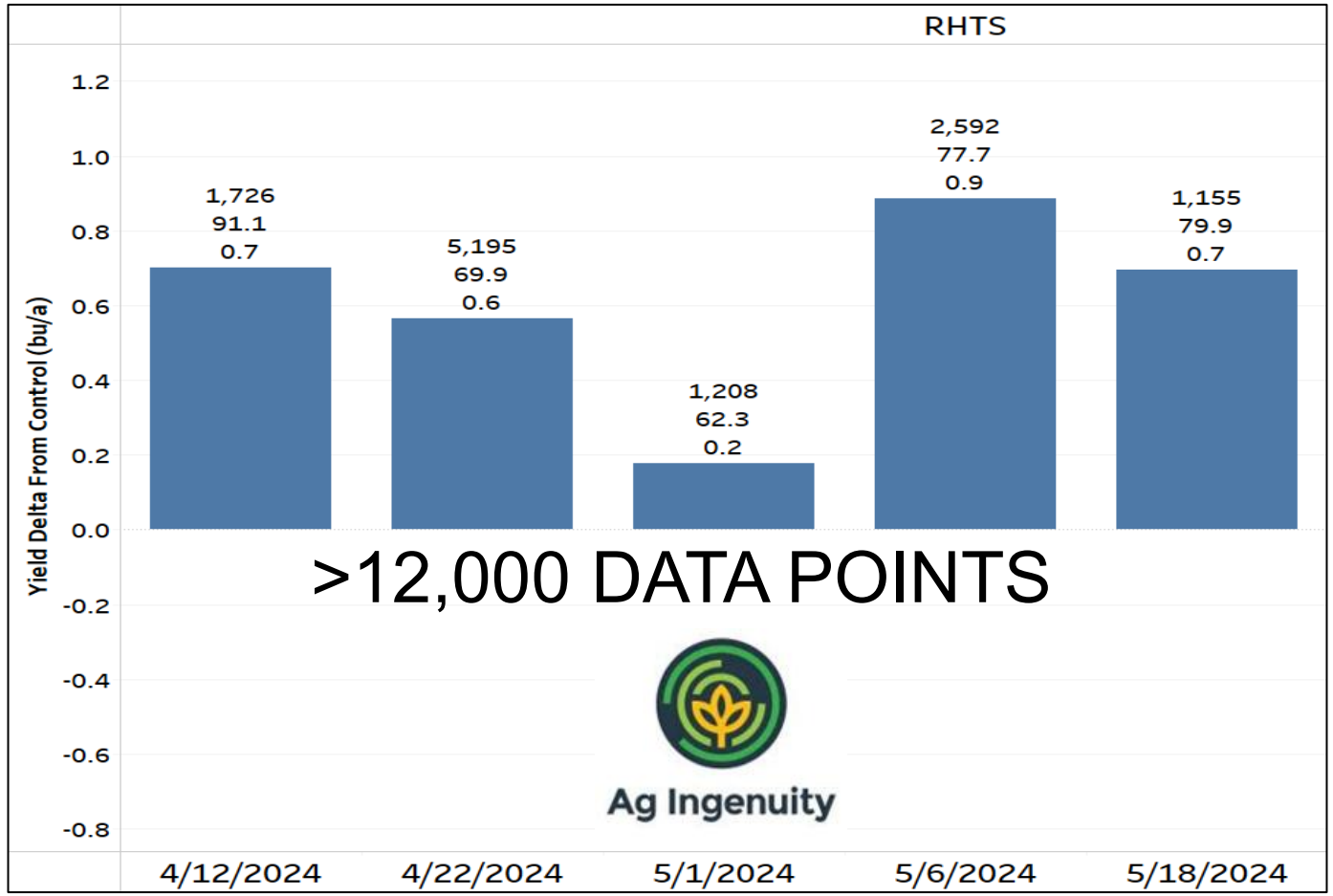
ILEVO®

Grain yields adjusted to 13% moisture; Seed weight presented at 0% moisture;
Letters indicate significant differences between levels of a given factor at the 0.1 threshold, while no letters indicate no significant difference

Adapted from complete data set 2025

Crop Physiology

Standard Seed Trtmt vs RHTS + E + P/M
Ag Ingenuity Partners - 2024



REVLINE® HOPPER THROTTLE™ SOYBEAN PLANTER BOX TREATMENT

POWERED BY ETHER™ ENZYME TECHNOLOGY

PREPHYTE™ 3ST

METALAXYL™ 3ST

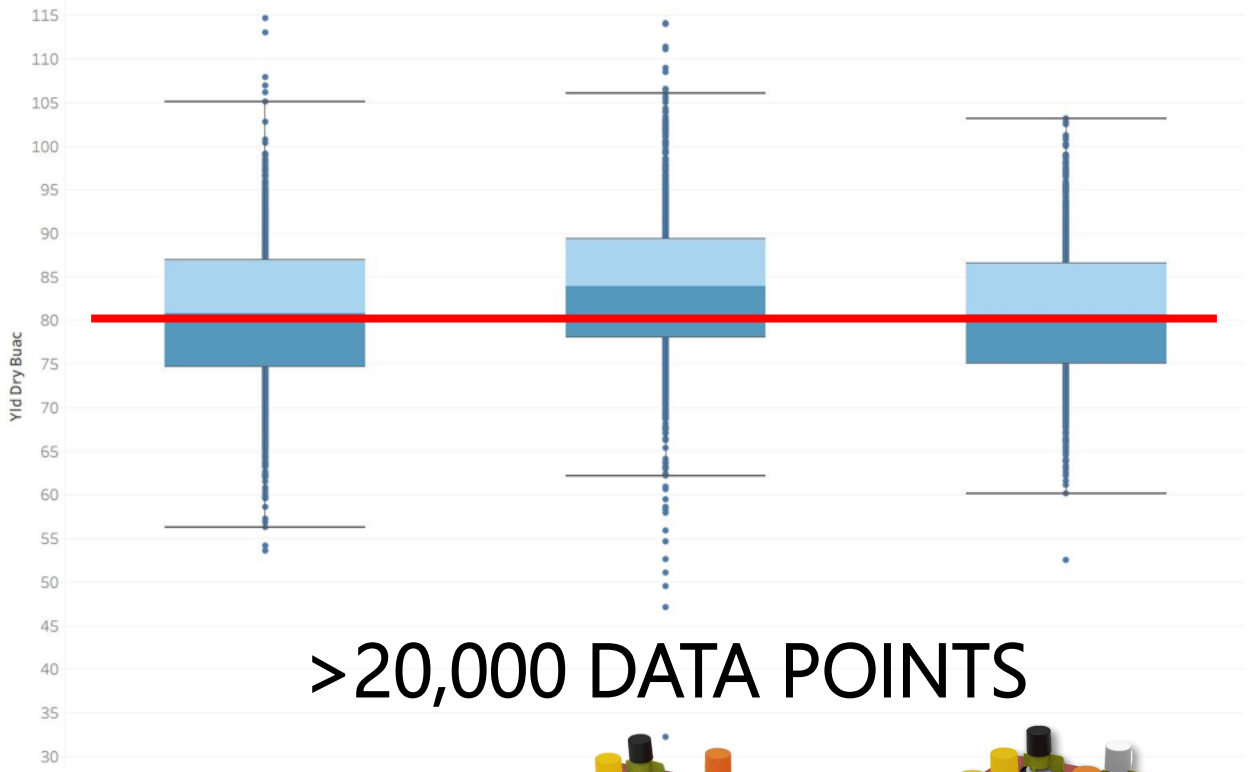
Consistently win vs Industry Standard Liquid Seed Treatment

Numbers over bars: # of yield points, average yield (bu/a), yield delta from control

Product Performance Ag Ingenuity

Just as good....
if not better!!

Only the beginning...



2025

Ag Ingenuity

>20,000 DATA POINTS

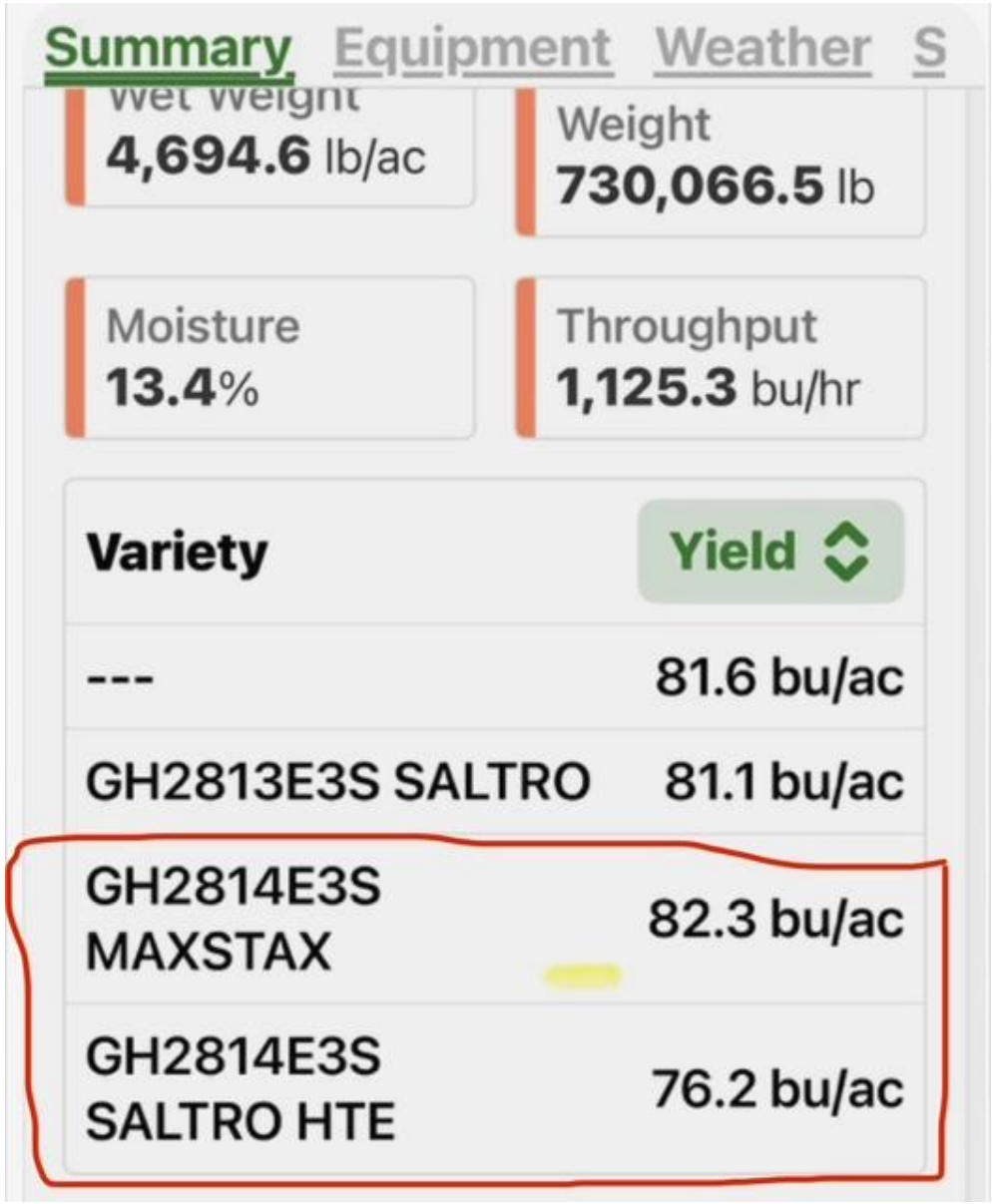
Grower Standard

3 MOA Fungicide
Insecticide
IleVo and/or Saltro

MaxStax Soy (naked) vs Full Liquid Trt + Saltro +6 bu/ac:

HOPPER THROTTLE® SOYBEAN
MAXSTAX™
PLANTER BOX TREATMENT

ETHER™ ENZYME TECHNOLOGY
PROTECTIS™ BEAUVERIA BASSIANA
BORNEXII™ SDS PROTECTION
GUARDCII™ NEMATODE PROTECTION
METALAXYL II™ ST INDUSTRY STANDARD FUNGICIDE
PREPHYTE II™ ST BROAD-SPECTRUM FUNGICIDE



THE NEW NORMAL: SEED + MAX BIOPOWER

1. Industry-Leading Bradyrhizobia Inoculant
Aggressive multi-strains of Bradyrhizobium for accelerated early season nodulation.

2. METALAXYL
Industry-standard systemic fungicide for control of phytophthora and pythium.

3. PREPHYTE™
Broad-spectrum, EPA-registered fungicide for prevention, control or suppression of many soil-borne diseases.

7. BORNE X™
EPA-registered fungicide to prevent soil-borne fungal diseases such as Fusarium (causal agent for SDS) and Rhizoctonia.

8. Guard M™
EPA-registered insecticide for soybeans that targets seedcorn maggots and other secondary pests.

9. Guard C™
Bionematicide containing Fungal chitosan to suppress nematodes while stimulating root and plant growth.

BASE PAIL - Seed Fluency blend

10. Seed Fluency

11. IONLOCK™ Manganese (Mn)

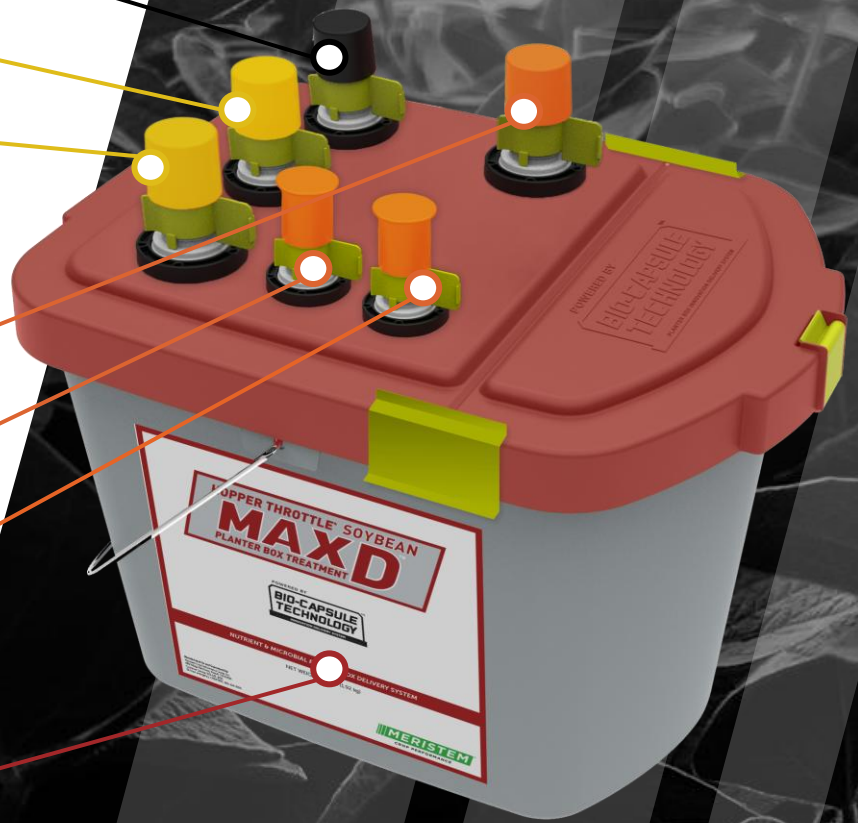
12. IONLOCK™ Iron (Fe)

13. IONLOCK™ Zinc (Zn) - *(replaces 1.5 qt Zinc 9% EDTA)*

MERISTEM CROP PERFORMANCE

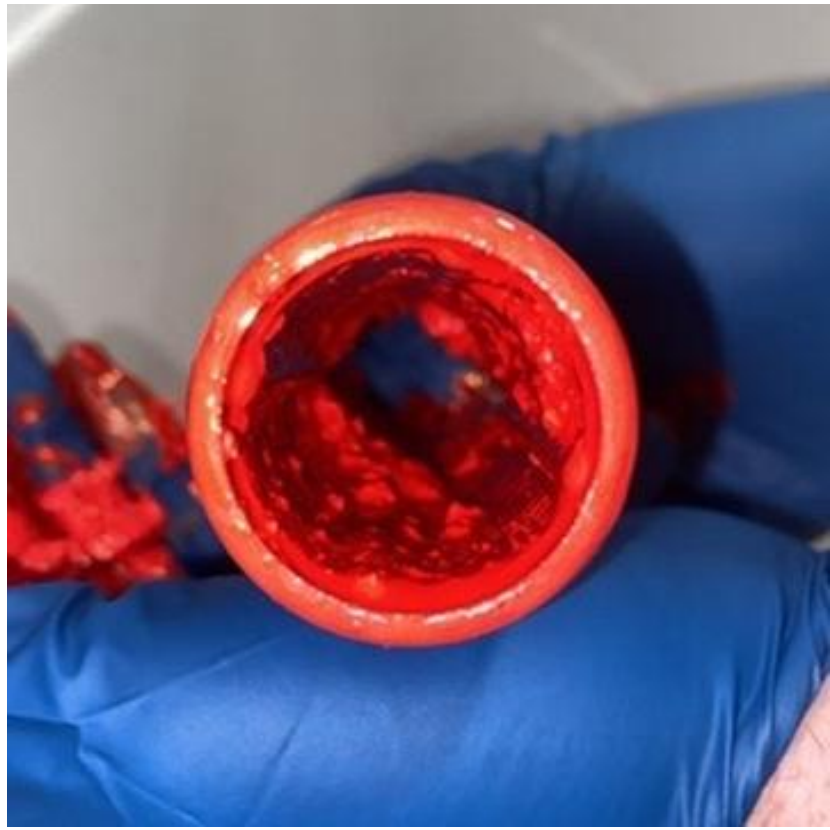
POWERED BY BIO-CAPSULE TECHNOLOGY INNOVATION DELIVERY SYSTEM

$20/ac Replant Coverage



HOPPER THROTTLE® SOYBEAN MAXD™ PLANTER BOX TREATMENT

NEVER AGAIN.



Where do traditional active ingredients end up?

Confidence in Coverage.

Confidence Active Ingredients Remain at the Roots.

Picture Source Top Left: Iowa State University Extension

YOU ARE **THE REVOLUTION–**

And a part of the **BIGGEST GAME CHANGER** since the launch of biotech traits.

Biological Innovation = NEW TRAITS

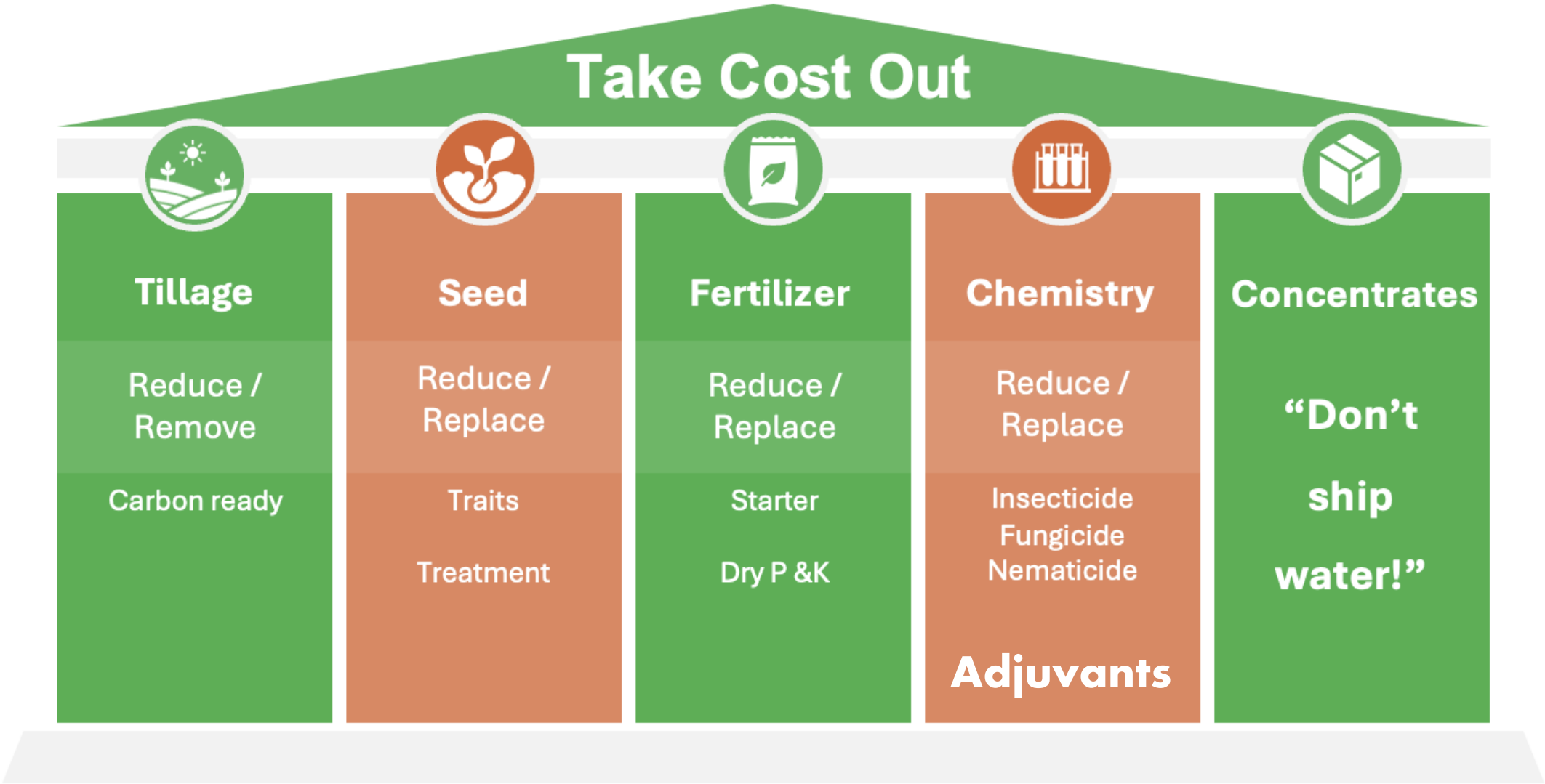
FIGHT BACK. GO FAST. WIN MORE.
THE COMPLETE HOPPER THROTTLE™ PORTFOLIO

POWERED BY BIO-CAPSULE TECHNOLOGY™
INNOVATION DELIVERY SYSTEM

Corn Portfolio					
Revline Hopper Throttle Corn Ether	Revline Hopper Throttle Corn Ace Ether + Prephyte ST	Hopper Throttle Corn + Guard X + Prephyte ST	Revline Hopper Throttle Corn Ether + Guard X	Hopper Throttle Corn MaxD	Hopper Throttle Corn MaxStax
					

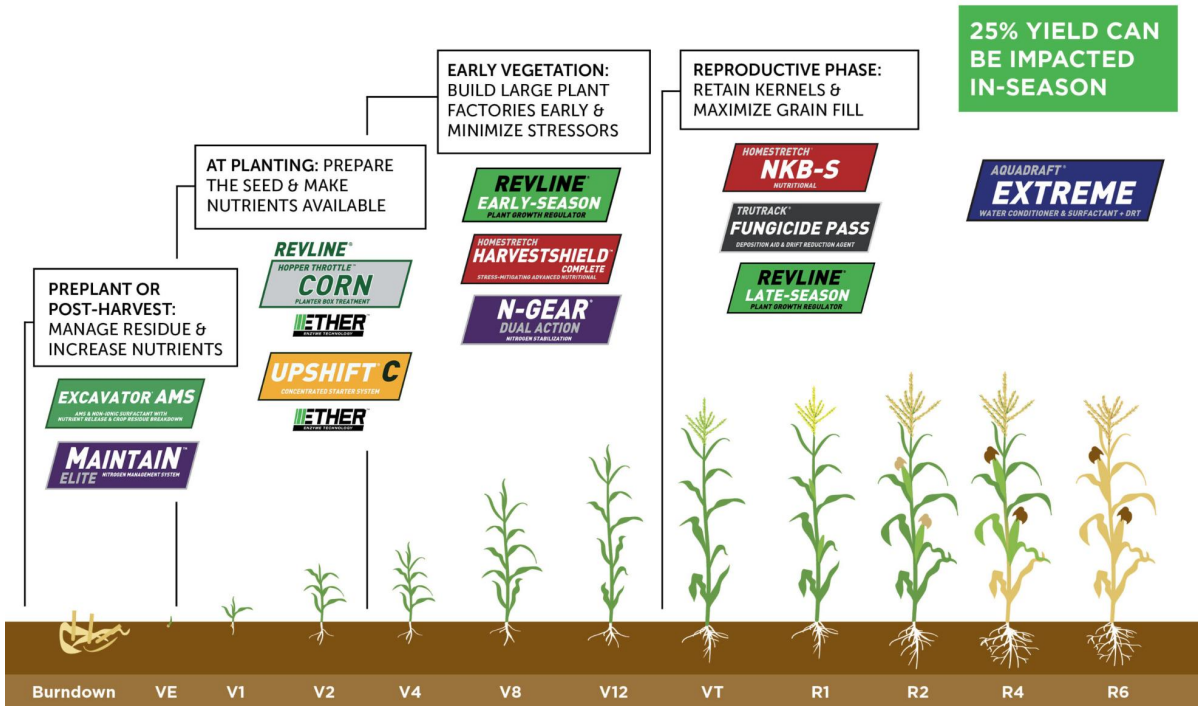
Soybean Portfolio			
Revline Hopper Throttle Soybean Ether	Hopper Throttle Soybean F+I + Protectis + Prephyte ST	Hopper Throttle Soybean MaxD	Hopper Throttle Soybean MaxStax
			

Cut Distribution Cost + Innovation through Patented Delivery Systems



The System Approach – Take Costs Out

@ Planter Applications: NONE



MERISTEM CROP PERFORMANCE

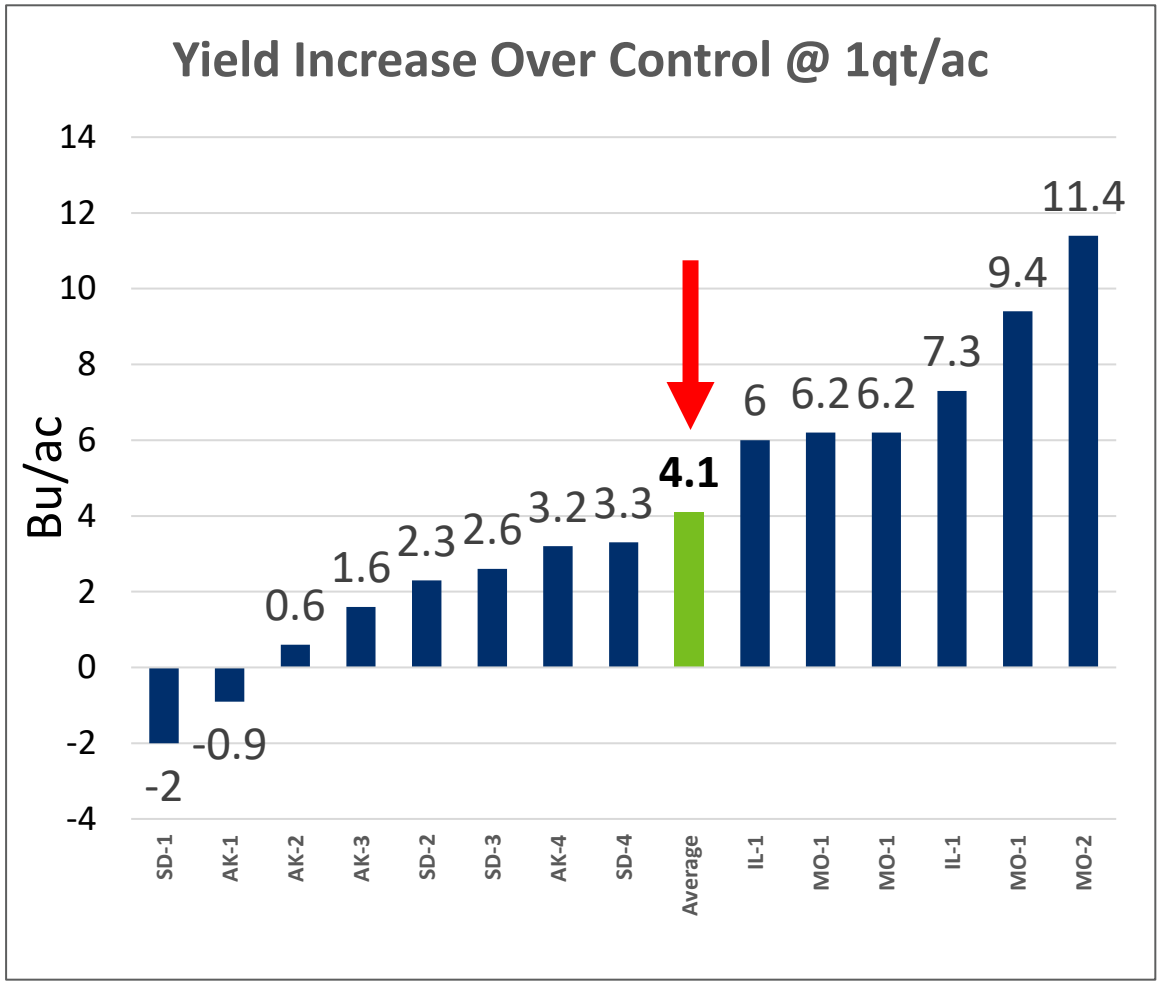
Standard Spend per Acre (No Land/Equip/Insurance)		Meristem Spend per Acre (No Land/Equip/Insurance)	
Seed	$130	Seed	$130
Dry Fert (80-80)	$120	Excavator AMS	$15
Nitrogen	$115	Hopper Throttle	$20
Chemical/Adj	$70	Nitrogen	$100
Fungicide	$25	N Stabilizer	$10
		Chemical/Adj	$65
		Fungicide	$25
		Foliar Protection	$40
Total:	$460	Total:	$420

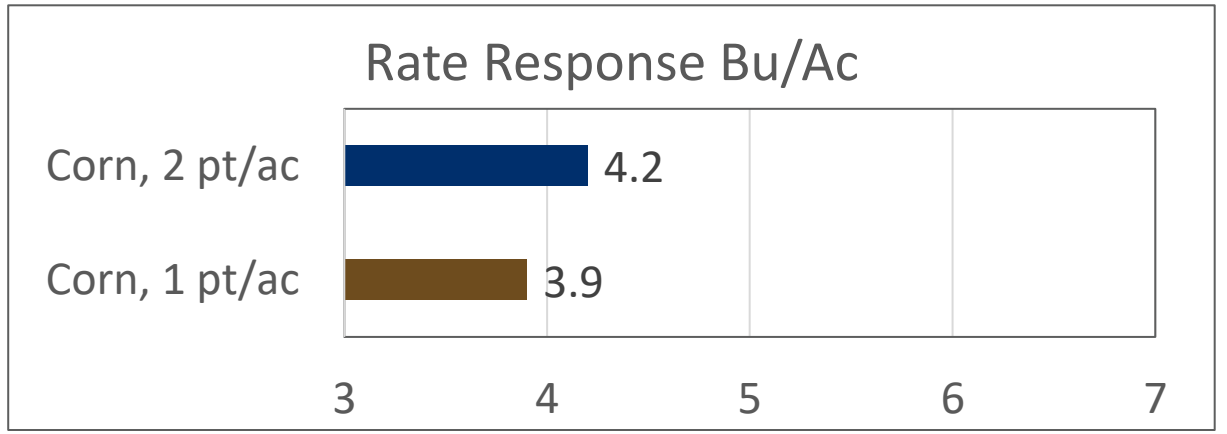
$55/ac Less
More Yield

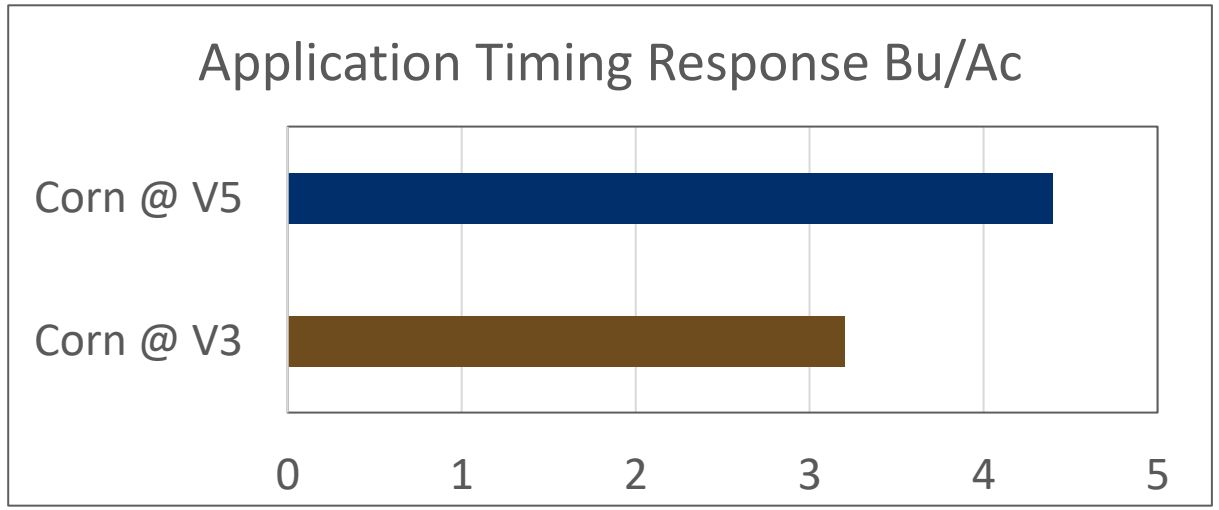
MERISTEM CROP PERFORMANCE

Bray P1 > 20ppm K > 200ppm

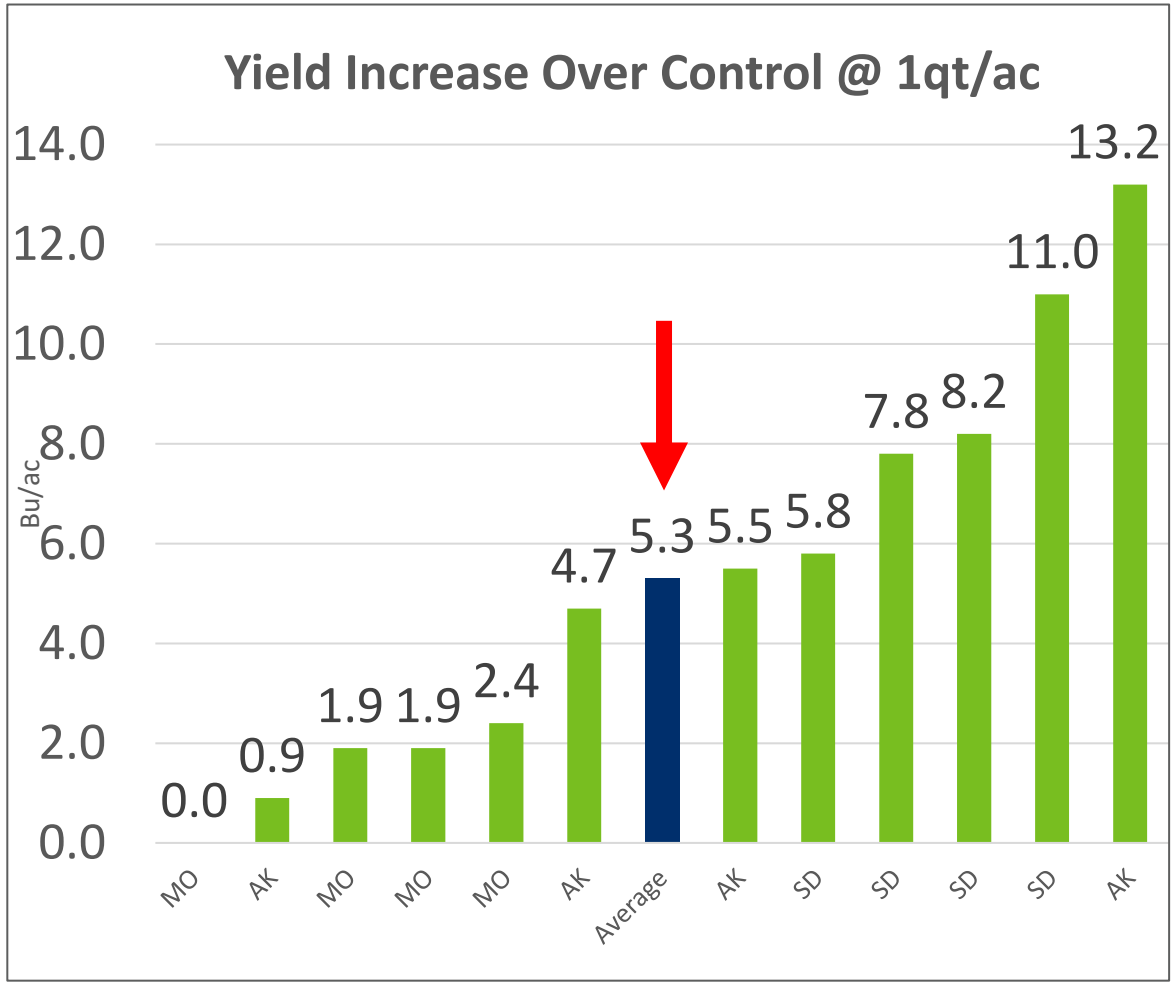
HarvestShield Complete Data
Corn

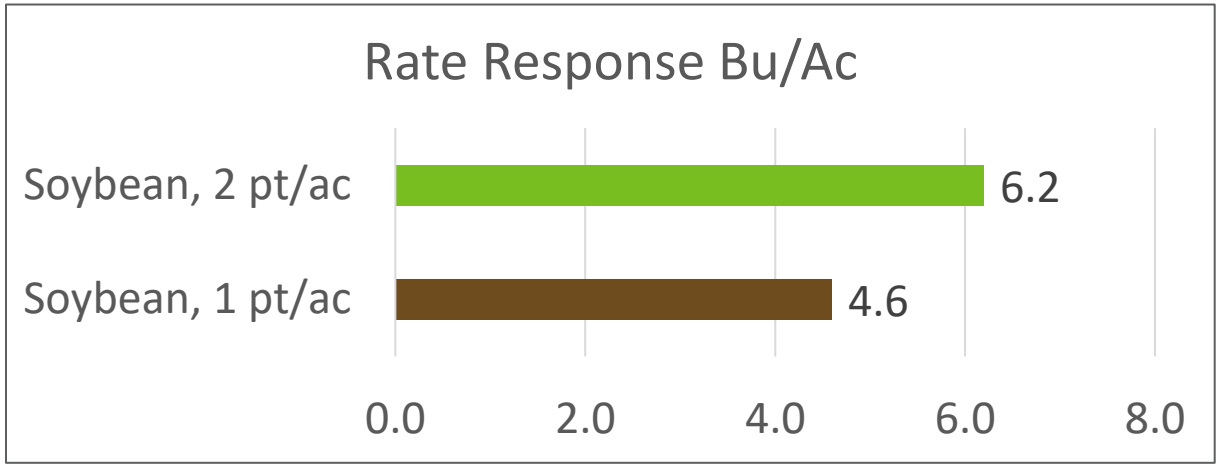


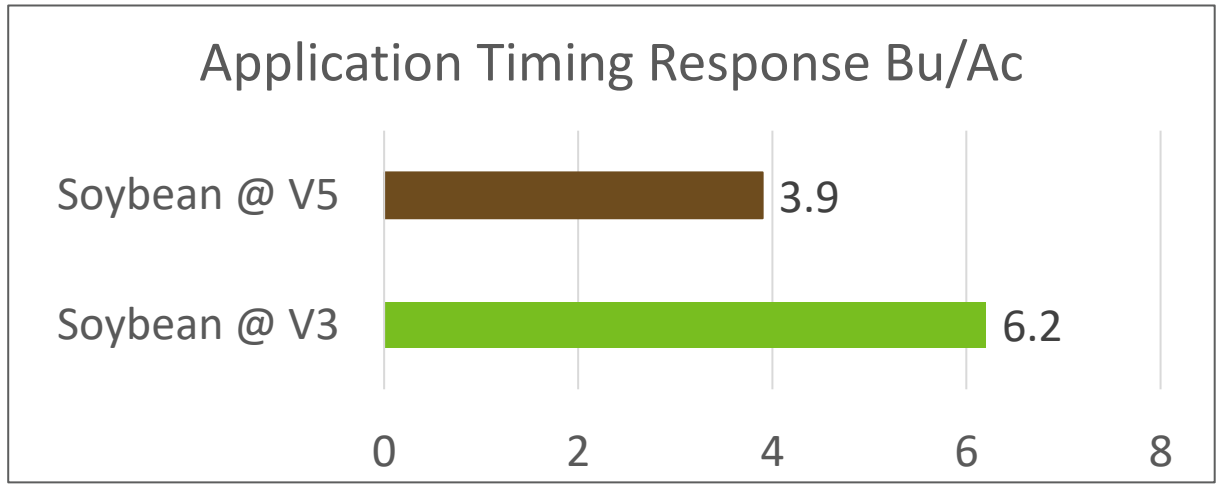




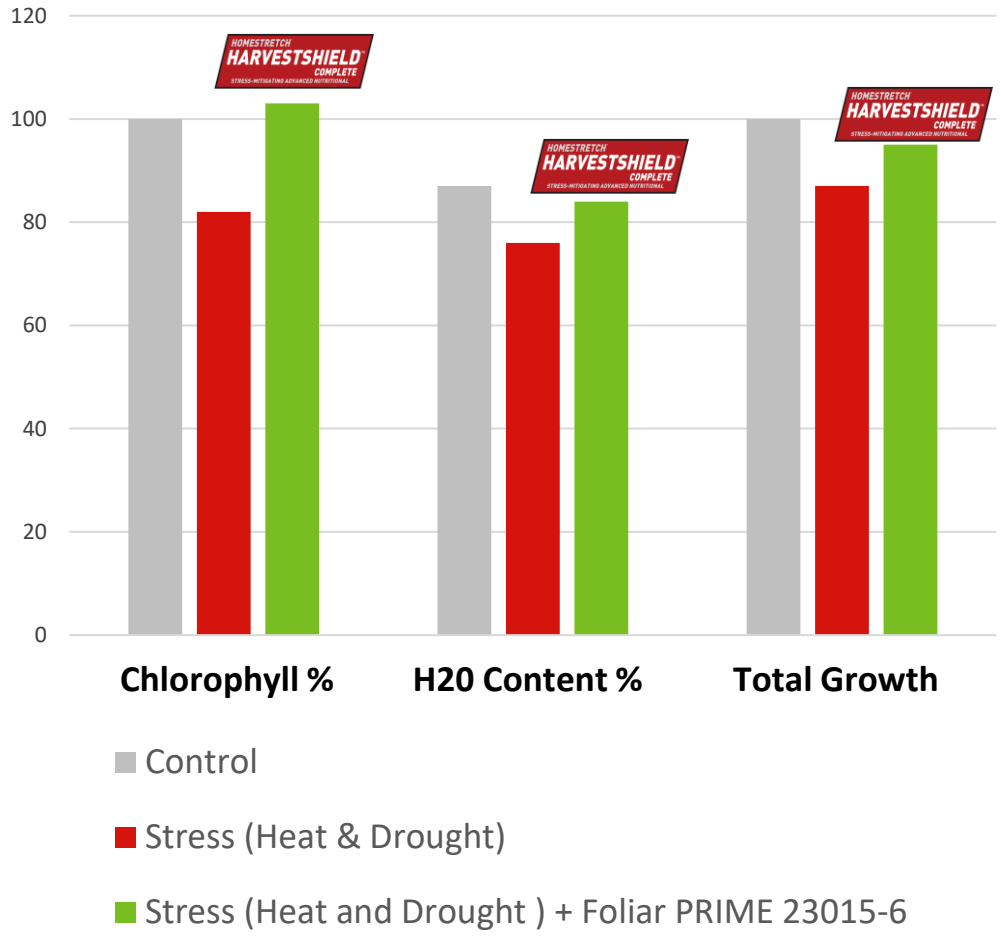
HarvestShield Complete Data
Soybeans



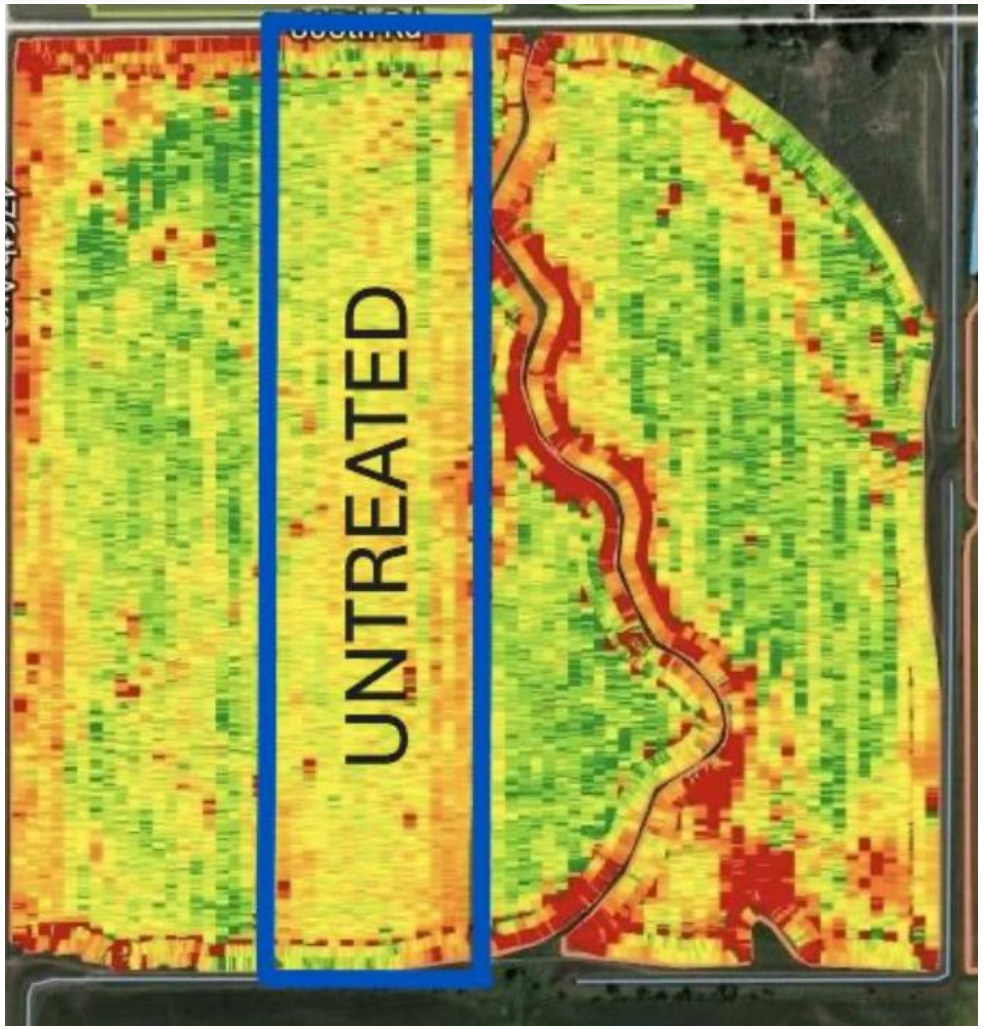




HarvestShield Complete Data
Soybeans

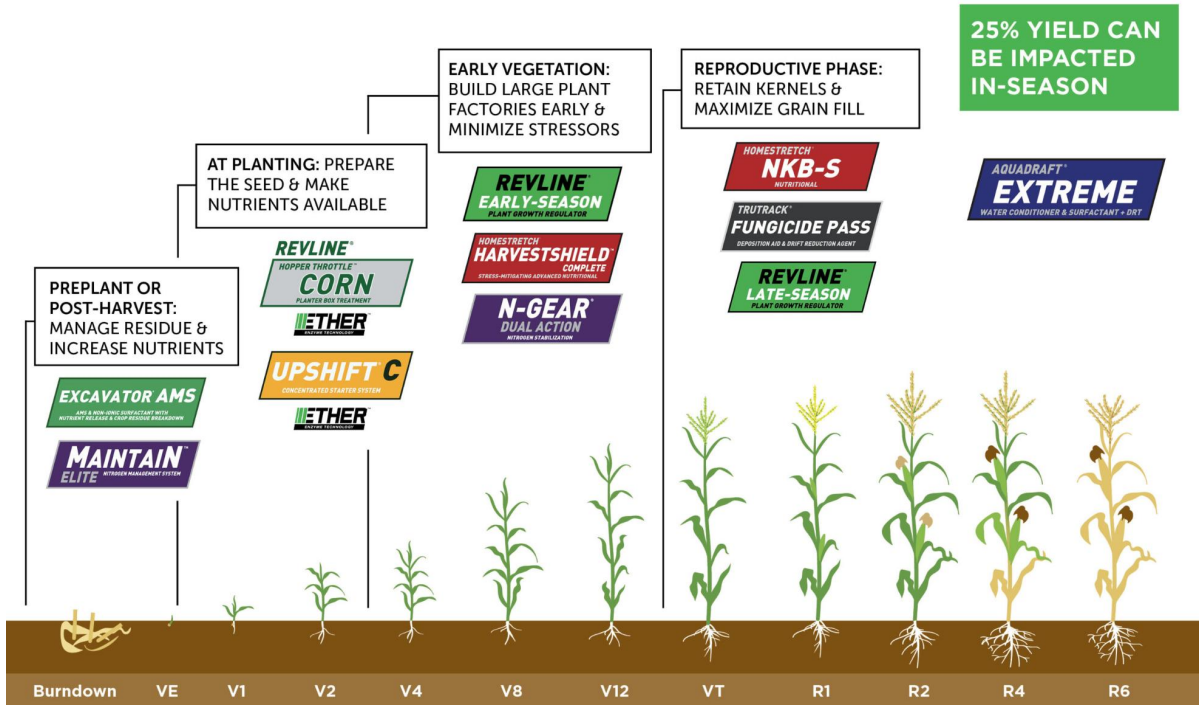


+6.1 bu/a SOY



The System Approach – Take Costs Out

@ Planter Applications:



In Furrow Starter + Zn + Insecticide

MERISTEM CROP PERFORMANCE

Standard Spend per Acre (No Land/Equip/Insurance)		Meristem Spend per Acre (No Land/Equip/Insurance)	
Seed	$130	Seed	$130
Dry Fert (80-80)	$120	Excavator AMS	$15
Nitrogen	$115	HT GX + Preph	$20
Chemical/Adj	$70	UpShift C Plus	$20
Starter + Zn	$30	Nitrogen	$100
Planter Insecticide	$20	N Stabilizer	$10
Fungicide	$25	Chemical/Adj	$65
		Fungicide	$40
		Foliar Protection	$40
Total:	**$510**	**Total:**	**$440**

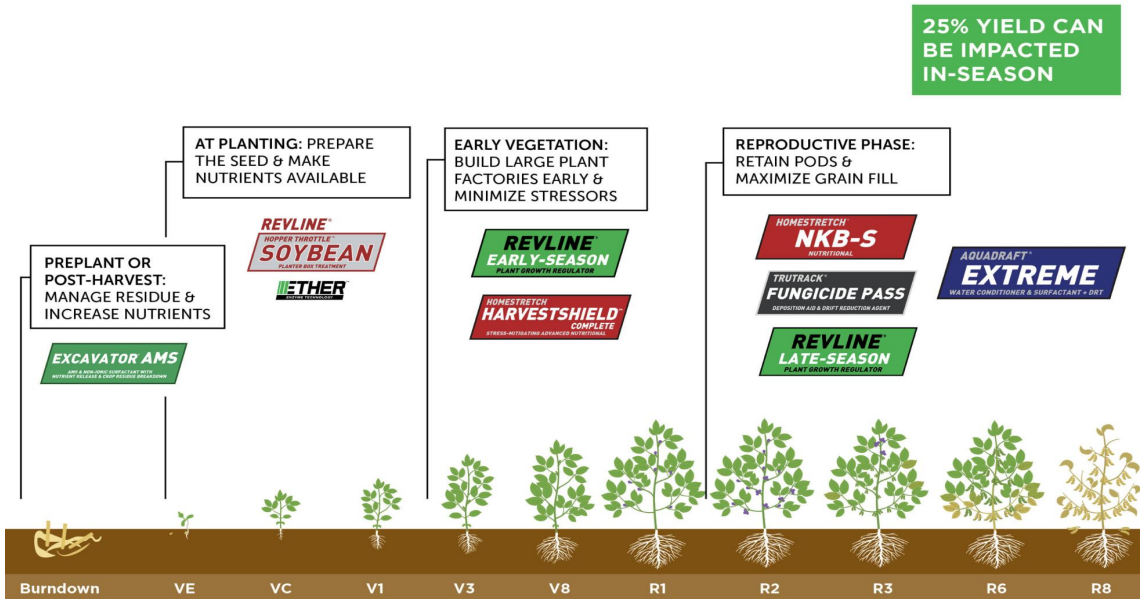
$70/ac Less
More Yield

MERISTEM CROP PERFORMANCE

Bray P1 > 20ppm

K > 200ppm

The System Approach – Take Costs Out



MERISTEM CROP PERFORMANCE

Standard Spend per Acre (No Land/Equip/Insurance)	
Seed	$45
Liq. Seed Trtmt	$30
Dry Fert (80-80)	$120
Chemical/Adj	$70
Fungicide	$30
Total:	**$295**

Meristem Spend per Acre (No Land/Equip/Insurance)	
Seed	$45
Max Seed Trtmt	$30
Excavator AMS	$15
Chemical/Adj	$65
Fungicide	$20
Foliar Protection	$40
Total:	**$215**

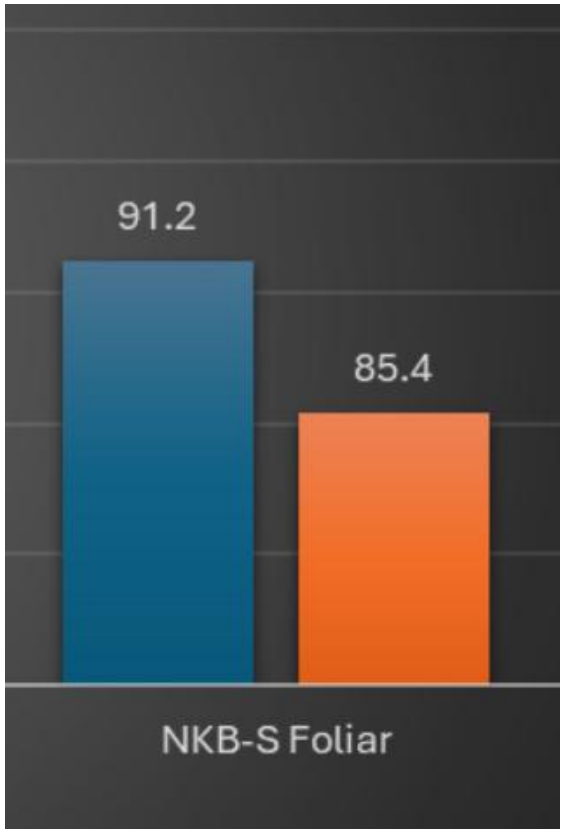
$80/ac Less
More Yield

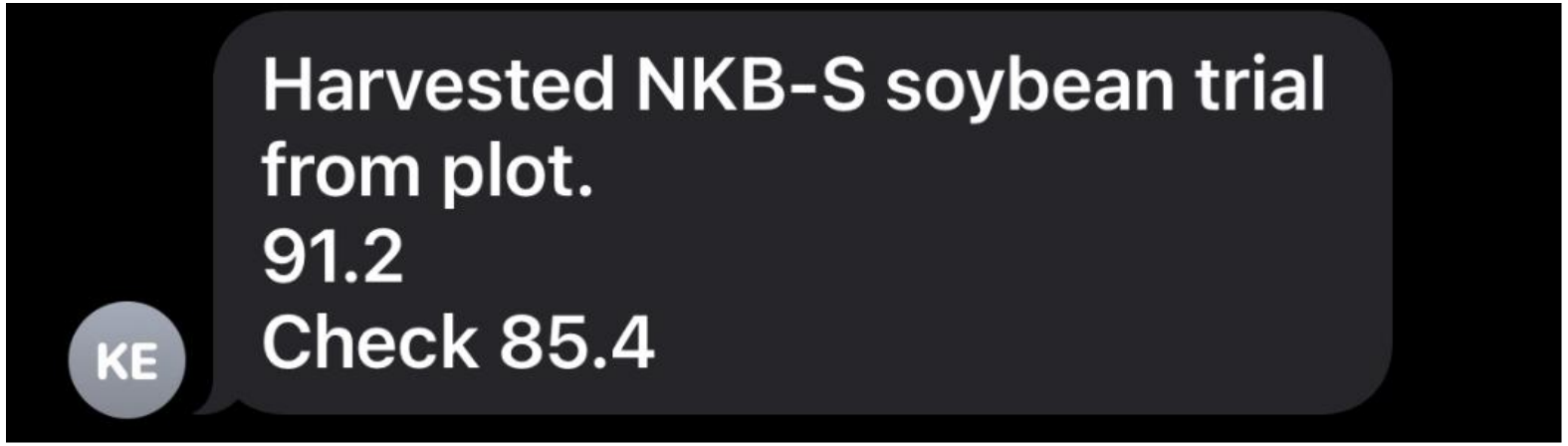
MERISTEM CROP PERFORMANCE

Bray P1 > 20ppm

K > 200ppm

NKBS vs Check + 6 bu/ac





HOMESTRETCH®
NKB-S
NUTRITIONAL

Take Cost Out Plot: ZERO Dry Fertilizer + ZERO Traditional Seed Treatment

HOPPER THROTTLE® SOYBEAN
MAXSTAX™
PLANTER BOX TREATMENT

ETHER™ ENZYME TECHNOLOGY
PROTECTIS™ BEAUVERIA BASSIANA
BORNEX™ SDS PROTECTION
GUARDII™ NEMATODE PROTECTION
METALAXYL 1ST™ INDUSTRY STANDARD FUNGICIDE
PREPHYTE 1ST™ BROAD-SPECTRUM FUNGICIDE

NET ROI >$80/ac

EXCAVATOR® AMS
AMS & NON-IONIC SURFACTANT WITH
NUTRIENT RELEASE & CROP RESIDUE BREAKDOWN

WITH

CYCLESTRIKE® LR
MICROBIAL NUTRIENT ACCELERATOR & RESIDUE BREAKDOWN

BioFlex™

Meristem Take Cost Out - Bennett Ag
XLSX - 64 KB

Open in

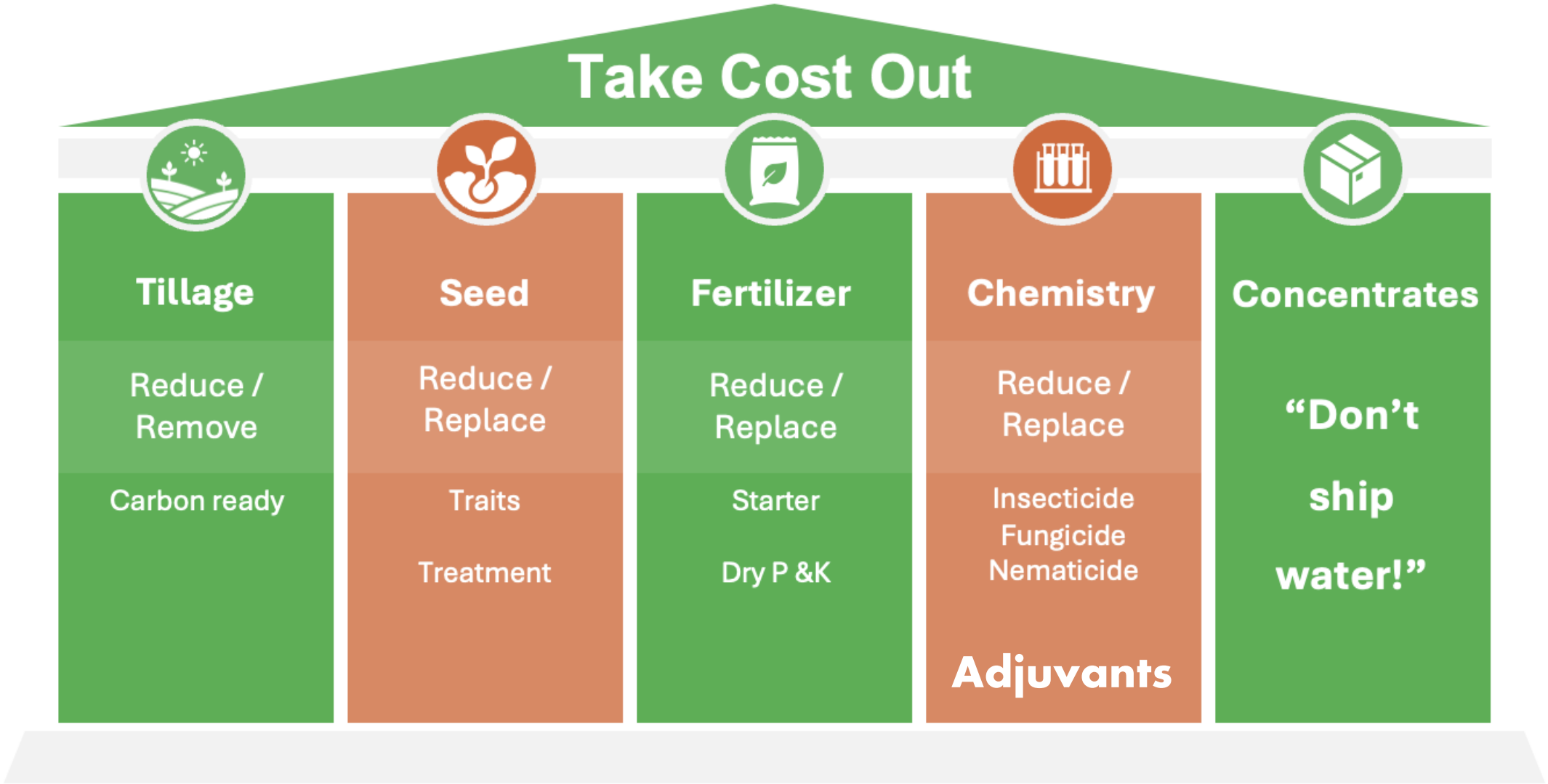
Meristem- Take Cost Out Soybean

Cooperator:	Avery Bennett	Planting Date:	4/18/2025			
State:	Iowa	Harvest Date:	10/20/2025	Row Width:	15	
County:	Jefferson	Population:	120000			
Dealer:	Meristem Take Out	100.138				

MERSCHMAN SEEDS

Rep Number	Variety	Yield	Rank	Treatment	RM	Rows	Length	Moisture %	Weight
1	Regan 2635E	81.31	5	Meristem- Take Cost Out	3.5	32	900	12.48	4008
2	Regan 2635E	81.91	4	Meristem- Take Cost Out	3.5	32	900	12.14	4022
3	Regan 2635E	79.55	8	Meristem- Take Cost Out	3.5	32	900	11.78	3890
4	Regan 2635E	79.76	7	Meristem- Take Cost Out	3.5	32	900	12.09	3914
5	Regan 2635E	87.55	1	Meristem- Take Cost Out	3.5	32	900	12.20	4302
6	Regan 2635E	85.51	2	Meristem- Take Cost Out	3.5	32	900	11.87	4186
7	Regan 2635E	75.42	13	Meristem- Take Cost Out	3.5	32	900	11.58	3680
8	Regan 2635E	74.10	15	Meristem- Take Cost Out	3.5	32	900	11.20	3600
9	Regan 2635E	79.02	9	Untreated	3.5	32	900	12.10	3878
10	Regan 2635E	78.97	10	Untreated	3.5	32	900	11.74	3860
11	Regan 2635E	78.16	11	Untreated	3.5	32	900	10.80	3780
12	Regan 2635E	75.15	14	Untreated	3.5	32	900	11.90	3680
13	Regan 2635E	81.12	6	Untreated	3.5	32	900	12.29	3990
14	Regan 2635E	81.94	3	Untreated	3.5	32	900	11.89	4012
15	Regan 2635E	73.55	16	Untreated	3.5	32	900	12.06	3608
16	Regan 2635E	77.41	12	Untreated	3.5	32	900	11.84	3788

Cut Distribution Cost + Innovation through Patented Delivery Systems



MERISTEM®

CROP PERFORMANCE

OSC

OPHEIM | SEED & CHEMICAL

Thank you!!

Shane Brockhoff
Michael Martin

12.4.25