

Opheim Seed & Chemical Post Harvest Meeting

November 13, 2024

Business Items

- ▶ First Early Pay: December 15th
- ▶ First Chemical Early Pay: January 10th
- ▶ Finance Options Available
- ▶ Meristem/Chemical Meeting: Date/Time announced soon
- ▶ Bayer Options–Dekalb

www.opheimseedandchemical.com

- ▶ Updated Seed Sales Guides for 2025
- ▶ 2024 Plot Data for Corn and Soybeans

2026 Winter Trip

Secrets Akumal Rivera Maya

January 12th – 17th 2026

Reserve your spots



Opheim Seed and Chemical

11.13.24

Shane Brockhoff
Michael Martin

Topics of Discussion

RHT Performance!

Biodefense...GuardX Review

Biodefesne New Product Launch...MaxStax Soy!!

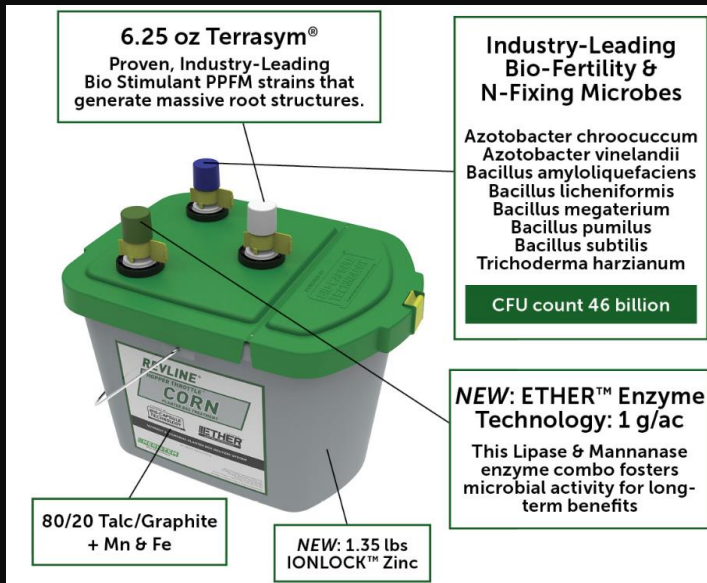
Take Costs Out!!

MERISTEM
CROP PERFORMANCE



Revline Hopper Throttle Performance...

Revline Hopper Throttle Corn + Ether/**Carbon**



TAKE COSTS OUT!!!!

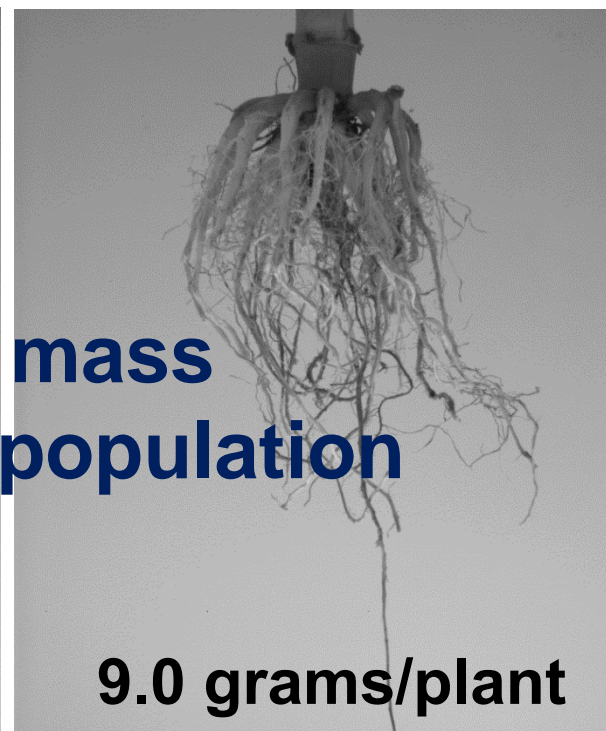
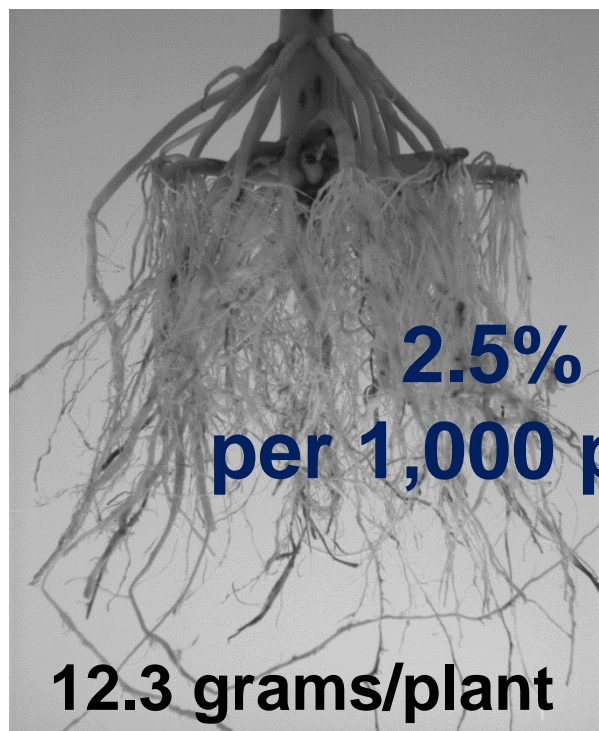


Increasing Plant Population = Smaller Roots

30,000 plants/acre

36,000 plants/acre

42,000 plants/acre



2.5% decrease in root mass
per 1,000 plant increase in population

2025: Take Costs Out

Revline Hopper Throttle + Excavator

>20-45-45 Nutrient Unlock Value

Reduce costs...improve your bottom line in 2025...***time the mkt!***

DO NOT GIVE UP YIELD!!!

Leverage **LIVE** biology to UNLOCK your soil RESERVE

My plan: ZERO spend P and K

TAKE COSTS OUT!!!

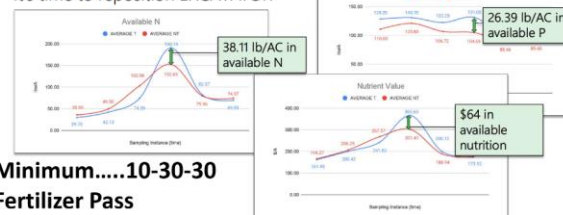
Fertilizer prices are out of line. You have a MASSIVE RESERVE of nutrition tied up in your soil. Meristem has the keys to unlock your soil's potential. Leverage the power of nutrient cycling biology in **Revline Hopper Throttle™** and **Excavator™** to **TAKE COSTS OUT - WITHOUT SACRIFICING YIELD.**



Aggressive nutrient cycling biology in Revline Hopper Throttle can easily unlock 15-25 N-P-K nutrient replacement value from your soil. Use these tools to put money back in your pocket this year!!!

EXCAVATOR®

It's time to reposition EXCAVATOR



Minimum.....10-30-30
Fertilizer Pass

Take Costs Out!!!



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 to crop.

Another benefit of minimal tillage combined with a biological has been the reduction in 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>



Emergence and Vigor SxS Water-Logged Soils



REVLIN[®]

HOPPER THROTTLE™

CORN

PLANTER BOX TREATMENT

POWERED BY
ETHER
ENZYME TECHNOLOGY

Yield is GRAVY

RHT Powerful tool to
Take Costs Out

Time the Fert. Markets

Weighed ck vs Yld monitor

End Rows....

@\$4/bu corn = \$36/ac NET ROI
+13.3bu/ac

AVG:

					Moisture	Test Wt.	Yield
Pioneer	P1278Q	QRM	112	Check	17.3	59.6	272.2
Pioneer	P1278Q	QRM	112	Corn Ether	17.1	59.9	282.3
Pioneer	P13476Q	QRM	113	Corn Ether	17.4	60.7	297.7
Pioneer	P13476Q	QRM	113	Check	18.0	60.3	283.9
Pioneer	P13777V	VCE	113	Corn Ether	17.9	58.9	281.9
Pioneer	P13777V	VCE	113	Check	18.1	59.1	276.6
Pioneer	P1742Q	QRM	117	Check	18.1	58.1	288.2
Pioneer	P1742Q	QRM	117	Corn Ether	19.1	58.0	314.5
DEKALB	DKC68-48	STX	118	Check	18.8	58.7	283.4
DEKALB	DKC68-48	STX	118	Corn Ether	18.3	60.4	294.4
DEKALB	DKC62-69	STX	112	Corn Ether	15.7	61.3	258.3
DEKALB	DKC62-69	STX	112	Check	16.0	61.8	250.3
DEKALB	DKC115-33	SSP	115	Corn Ether	17.1	60.3	282.3
DEKALB	DKC115-33	SSP	115	Check	17.5	59.8	273.9

REVLIN[®]

HOPPER THROTTLE[™]

CORN

PLANTER BOX TREATMENT

POWERED BY
ETHER[™]
ENZYME TECHNOLOGY

Load Name	Wet lbs	Actual lbs	ac	bu	Yield	Moist
Load 9	27,859	0	1.627	466.6	286.8	20.7%
No nkbs	24,708	0	1.576	439.8	279.0	15.8%
No nkbs	24,174	0	1.576	430.6	273.2	15.7%
No nkbs	24,799	0	1.576	437.1	277.3	16.6%
N0 nkbs	24,478	0	1.576	433.2	274.8	16.2%
Nkbs	26,604	0	1.575	458.4	291.1	18.4%
Nkbs	26,260	0	1.577	454.1	288.0	18.1%

RHTC fb NKB-S Trial

NKB-S +9 to +18bu/ac

HOMESTRETCH[®]

NKB-S

NUTRITIONAL

< Back

Swanson Big Field



REVLIN[®]

HOPPER THROTTLE[™]

CORN

PLANTER BOX TREATMENT

POWERED BY

ETHER[™]
ENZYME TECHNOLOGY

Harvest Summary					
Home Pivot sec 35					
Harvested: Oct 19, 2024					
20.9	262,632	17.4%	4,584	220	
HARVESTED ACRES	WET WEIGHT (LBS)	MOISTURE	DRY BUSHELS	AVG YIELD (BU/AC)	
HYBRID					
8454Q Treated		226	17.6%	10	
8454 Q			17.3%	10.2	
7436Q		141	15.1%	0.2	
8235 Q			15.7%	0.2	
8235 Q		135	15.9%	0.3	
Missing Hybrid / Variety					

+7bu/ac

Harvest Summary					
Otto Home					
Harvested: Oct 19, 2024					
30.7	466,348	19.4%	7,941	259	
HARVESTED ACRES	WET WEIGHT (LBS)	MOISTURE	DRY BUSHELS	AVG YIELD (BU/AC)	
HYBRID					
DKC111-335SPro		266	19.5%	16.9	
DKC111-335SPro		251	19.2%	13.7	
Missing Hybrid / Variety		190	19.1%	0.1	
Total/Avg		259	19.4%	30.7	
COMBINE					
John Deere 9870 Combine #2		466,348	19.4%	30.7	

+15bu/a

DO NOT DISTRIBUTE! PLOT HAS NOT BEEN FINALIZED!

Murdoch Corn on Soybean
Orleans, NE

Harlan Co.

PLANTED: 05/14/2024
HARVESTED: 10/19/2024
ROW WIDTH: 30.0 inches
POPULATION: 34,000
SOIL TEXTURE: Silt Loam
TILLAGE: No-Till
HERBICIDE: None

PREVIOUS CROP: Soybeans
RAINFALL: Irrigation

Fertilizer	N	P	K	S	Zn

None

#1@ 294bu/ac

Company	Brand	Entry Order	Rows No.	Length	Grain Weight	% Mois.	Test Wt.	% Lodg.	Actual Yield ¹	Check Adj.	Adj. Yield ²	Rank
BECK'S	6374V2P Hopper Throttle	1	6	1080	6100.0	14.5	--	--	294.6	--	--	1
Pioneer	P1170AM	13	6	1080	5940.0	13.4	--	--	290.6	--	--	2
BECK'S	6374V2P	1	6	1080	5940.0	13.5	--	--	290.2	--	--	3
Brevant	B09C43PCE	4	6	1080	5700.0	10.9	--	--	286.9	--	--	4
BECK'S	6081AM	10	6	1080	5840.0	13.5	--	--	285.4	--	--	5
BECK'S	5864PCE	2	6	1080	5820.0	13.4	--	--	284.7	--	--	6
Brevant	B10H24AM	6	6	1080	5700.0	12.0	--	--	283.3	--	--	7
Pioneer	P1377PCE	20	6	1080	5940.0	15.7	--	--	282.9	--	--	8
Brevant	B10Y21V	9	6	1080	5780.0	13.5	--	--	282.4	--	--	9
BECK'S	6374V2P	36	6	1080	5840.0	14.5	--	--	282.1	--	--	10
Brevant	B13K20AM	19	6	1080	5900.0	15.6	--	--	281.3	--	--	11
Pioneer	P16544PCE	30	6	1080	5860.0	15.9	--	--	278.4	--	--	12
BECK'S	6280TCV2P	14	6	1080	5700.0	13.7	--	--	277.9	--	--	13
BECK'S	6973TCV2P	35	6	1080	6000.0	18.0	--	--	277.9	--	--	14
Channel	216-82VT2P	29	6	1080	5760.0	14.9	--	--	276.9	--	--	15
BECK'S	6064AM	8	6	1080	5520.0	11.9	--	--	274.7	--	--	16
Brevant	B14R22AML	22	6	1080	5700.0	14.7	--	--	274.7	--	--	17
Dekalb	DKC114-43	23	6	1080	5740.0	15.3	--	--	274.6	--	--	18
BECK'S	6374V2P	18	6	1080	5620.0	14.3	--	--	272.1	--	--	19
Channel	218-66VT2PRIB	33	6	1080	5940.0	19.0	--	--	271.8	--	--	20
Dekalb	DKC62-89	15	6	1080	5600.0	14.2	--	--	271.4	--	--	21
BECK'S	6485SX	26	6	1080	5700.0	15.9	--	--	270.8	--	--	22
Pioneer	P1742PCE	32	6	1080	5640.0	15.4	--	--	269.5	--	--	23
BECK'S	6585TCV2P	28	6	1080	5660.0	15.7	--	--	269.5	--	--	24
Dekalb	DKC119-30VT4	34	6	1080	5700.0	16.4	--	--	269.2	--	--	25
Channel	212-02VT2PRIB	16	6	1080	5500.0	13.9	--	--	267.5	--	--	26
BECK'S	6041Q	5	6	1080	5480.0	13.7	--	--	267.2	--	--	27
Channel	210-08VT2PRIB	7	6	1080	5320.0	11.2	--	--	266.9	--	--	28
BECK'S	6574TCV2P	27	6	1080	5560.0	15.3	--	--	266.0	--	--	29
Channel	211-70TRE	11	6	1080	5380.0	12.9	--	--	264.7	--	--	30
BECK'S	6469V2P	24	6	1080	5540.0	15.5	--	--	264.4	--	--	31
BECK'S	6256Q	17	6	1080	5400.0	13.8	--	--	262.9	--	--	32
Dekalb	DKC117-78	31	6	1080	5600.0	16.9	--	--	262.9	--	--	33
Pioneer	P14830AML	25	6	1080	5440.0	14.8	--	--	261.8	--	--	34
BECK'S	5871AM	3	6	1080	5240.0	11.8	--	--	261.1	--	--	35
BECK'S	6128V2P	12	6	1080	5380.0	14.3	--	--	260.5	--	--	36

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Page 1 of 2

RESULTS FROM THE FIELD

Corn		
Variety P1383 Awaken boost		
	Worked	6.22 ac
Moisture	Avg	17.86 %
Dry Yield	Avg	287.16 bu/ac
Dry Volume		1,785.37 bu
Dry Weight		99,976.06 lb

Corn		
Variety P1383 HT		
	Worked	6.21 ac
Moisture	Avg	17.89 %
Dry Yield	Avg	293.58 bu/ac
Dry Volume		1,824.05 bu
Dry Weight		102,141.84 lb

Awaken Boost (competitor)

+ 6.4 bu/A



RESULTS FROM THE FIELD

ion	Variety	Yield (bu/ac)	Moist (%)
e 1		179.8	16.2
>	6604HT	189.1	16.3
2>	6604	170.9	16.2
Total (All)		179.8	16.2

Variety	Yield (bu/ac)	Moist (%)	Area (ac)	Weight
4	170.9	16.2	1.67	14
4HT	189.1	16.3	1.60	17

+ 18.2 bu/A

“Even with wind/ hail in early season, REVLINE® HOPPER THROTTLE is showing big differences”



RESULTS FROM THE FIELD

1 Yield — 2 Varieties		✓ Work Totals		Performance	
Varieties	Area Harvested		Yield		
	Selected Zone	Whole Field	Selected Zone	Whole Field	
6572VT2	10.3	62.3 ac	202	193 bu/ac	
6572 VT2 BIO	9.9	96.4 ac	208	193 bu/ac	
643-52VT2	0	0 ac	---	62 bu/ac	
Totals/Averages	20.2	98.7 ac	205	193 bu/ac	

+ 6 bu/A



1 Yield — 2 Varieties		✓ Work Totals		Performance	
Varieties	Area Harvested		Yield		Total Yi
	Selected Zone	Whole Field	Selected Zone	Whole Field	Selected Zone
6572VT2	8.5	62.3 ac	204	193 bu/ac	1,728
6572 VT2 BIO	8.5	36.4 ac	209	93 bu/ac	1,779
643-52VT2	0	0 ac	---	62 bu/ac	0
Totals/Averages	17	98.7 ac	206	193 bu/ac	3,508

+ 5 bu/A



INTENT FarmerTrials® Results – 1 Season of Trialing



Soybeans **+3.1bu/A**

75% win-rate

+3.1 Bu/A advantage*

+9.6% Total root area

+5.7% Rooting depth

+19.4% Leaf tissue iron (Fe) concentrations (ppm)

+21.5% Leaf tissue iron (Mn) concentrations
(ppm)

*16 locations in 7 states, large acreage side by
sides*



Corn **+7.1bu/A**

80% win-rate

+7.1 Bu/A win advantage*

+6.2% Total root area

+9.0% Nodal root length

+17.5% Leaf tissue iron (Fe) concentrations (ppm)

+12.6% Leaf tissue manganese (Mn)
concentrations (ppm)

*20 locations in 7 states, large acreage side by
sides*

Terrasym is a component of RHT. Source: New Leaf Symbiotics

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
P-value	0.3641	0.52875	0.04533	0.02381	0.14232

+10.6 bu/ac advantage with



- 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

MERISTEM
CROP PERFORMANCE

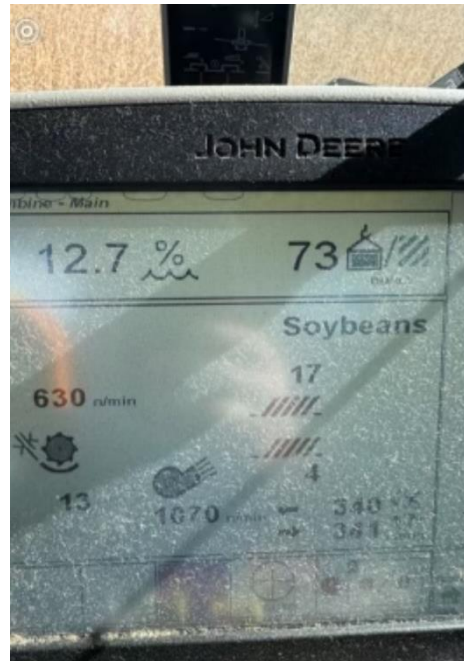
IOWA STATE
UNIVERSITY

**+10.6 bu/ac
Advantage!**

RESULTS FROM THE FIELD



Without



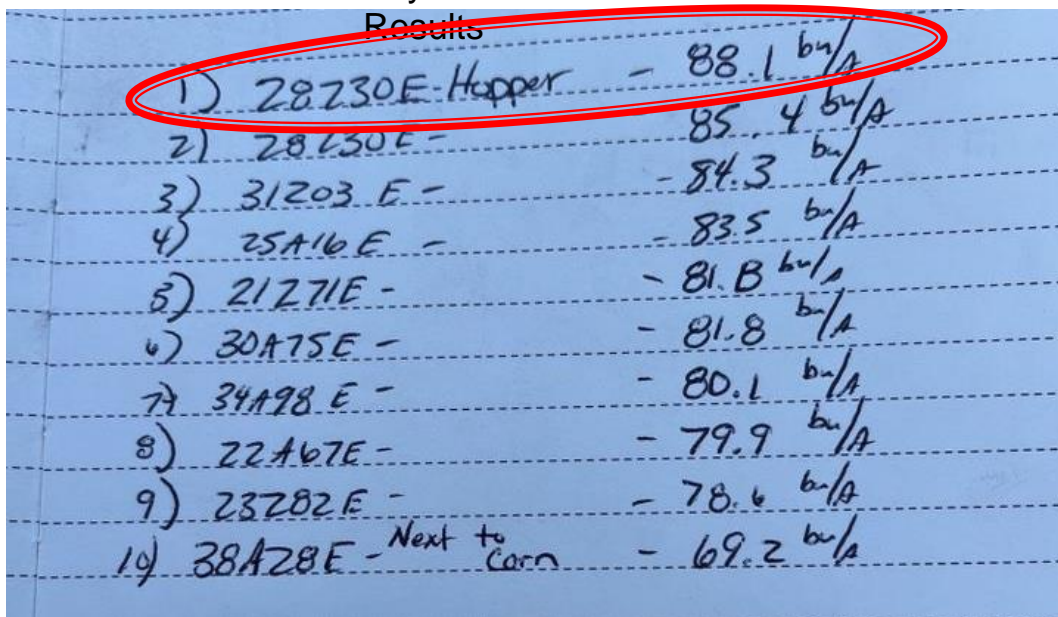
REVLINER HOPPER THROTTLE SOYBEAN

"Running about **5+ bushel** most of the time up to **+10 bushel**"



RESULTS FROM THE FIELD

Soybean Plot
Results



1) 28230E Hopper	- 88.1 bu/A
2) 28230E -	- 85.4 bu/A
3) 31203 E -	- 84.3 bu/A
4) 25A16 E -	- 83.5 bu/A
5) 21271E -	- 81.8 bu/A
6) 30A75E -	- 81.8 bu/A
7) 34A98 E -	- 80.1 bu/A
8) 22A67E -	- 79.9 bu/A
9) 23282E -	- 78.6 bu/A
10) 38A28E - Next to corn	- 69.2 bu/A



RHT wins by
+ 2.7 to 18.9
bu/A
across 10
samples

RESULTS FROM THE FIELD



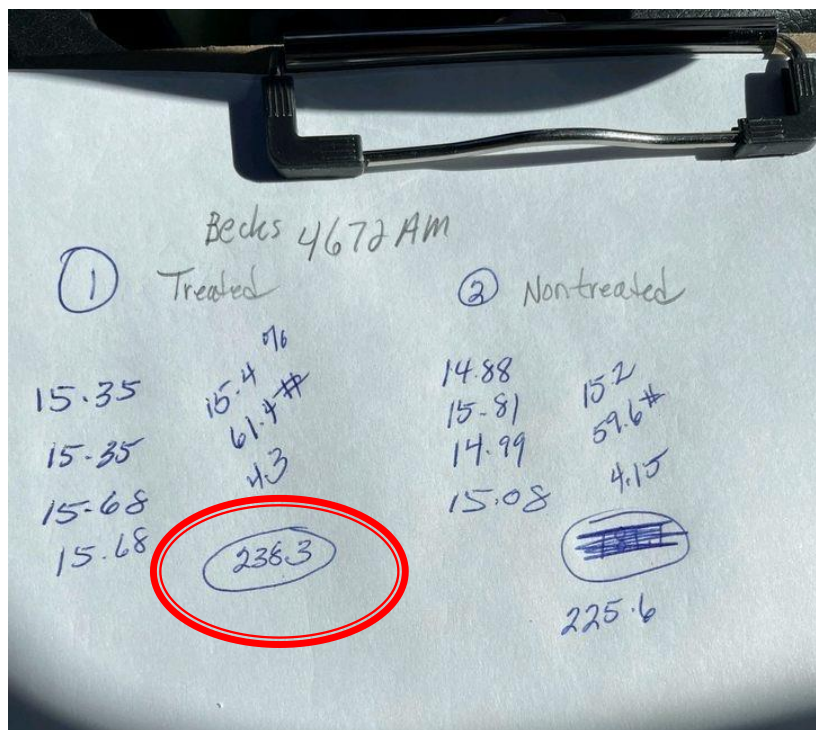
+ 1 to 8 bu/A
across 3 split fields

Variety Equipment Operator				
Client	Farm	Field	Variety	Equipment Operator
Variety	Yield	Total Yield	Wet Weight	
---	35 bu/ac	13 bu	2,143.6 lb/ac	
3724 HOPPER	61 bu/ac	5,803 bu	3,675.4 lb/ac	
AG38XF1	56 bu/ac	1,584 bu	3,375.0 lb/ac	
G3724XF	56 bu/ac	4,326 bu	3,379.0 lb/ac	
Totals/Averages	59 bu/ac	11,726 bu	3,516.4 lb/ac	

Variety Equipment Operator				
Client	Farm	Field	Variety	Equipment Operator
Variety	Yield	Total Yield	Wet Weight	
---	21 bu/ac	2 bu	1,286.0 lb/ac	
3724 HOPPER	60 bu/ac	1,473 bu	3,615.7 lb/ac	
G3724XF	52 bu/ac	1,283 bu	3,100.1 lb/ac	
Totals/Averages	56 bu/ac	2,758 bu	3,351.9 lb/ac	

RESULTS FROM THE FIELD

+ 12.7 bu/A





UNLEASH Z SERIES SOYBEANS

See the latest yield results from Northeast IL. We know our products are locally field tested for consistent, high-yielding performance, but if you needed convincing, check out our results:

PLOT NAME		LOCATION				
Ronald Meyer PKP		Kankakee County, IL				
PLANTING DATE		HARVEST DATE				
5/8/2024		9/30/2024				
ENTRY #	BRAND	VARIETY	YIELD RANK	MOISTURE	INCOME/ACRE	YIELD (BU/A)
1	Pioneer	P18Z01E	2	13.3	\$835	83.5
2	Pioneer	P21Z71E	5	13.2	\$786	78.6
3	Pioneer	P23Z82E	4	13.2	\$792	79.2
4	Pioneer	P25A16E	10	13.2	\$747	74.7
5	Pioneer	P28Z30E	7	13.5	\$783	78.3
6	Pioneer	P28Z89E	8	13.8	\$761	76.1
7	Pioneer	P31Z03E	3	14.5	\$812	81.2
8	Pioneer	P31A73E	11	14.3	\$662	66.2
9	Pioneer	P32Z91E	6	14.6	\$785	78.5
10	Pioneer	P35Z76E	9	14.7	\$752	75.2
11	Pioneer	P37Z06E	1	14.0	\$843	84.3

Hopper Box Treatment Study with P28Z89E

BRAND	SUPPLIER	YIELD RANK	MOISTURE	YIELD (BU/A)
REVLINE HOPPER THROTTLE SOYBEAN	Untreated	3	13.6	74.7
REVLINE HOPPER THROTTLE SOYBEAN	Meristem	1	13.8	82.7

+8bu/ac #1 in plot

FIND THE BEST PRODUCTS AND GET MORE FROM YOUR ACRE

Talk to your local Pioneer sales representative about your 2025 seed needs and to review latest plot data and yield results for your area.

Visit <https://www.pioneer.com/us/sales-representatives/my-local-team.html> to find your local team and learn more about the products that can help boost yield potential on your farm.

Took soybean plot out yesterday. Had 2 Asgrow varieties with Hopper Throttle and without.

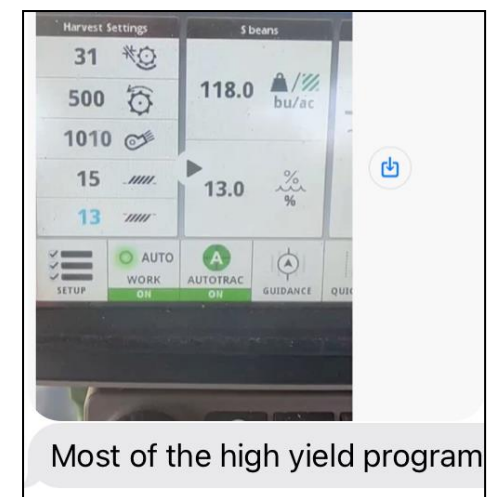
26XF1 - 2.8 bu advantage
27XF3 - 5.3 and 1.9 bu advantage

Can't wait to get into the corn.

Love it



"Top is without HT. Bottom with. Running about 5+ bushel most of time up to +10. "



Most of the high yield program

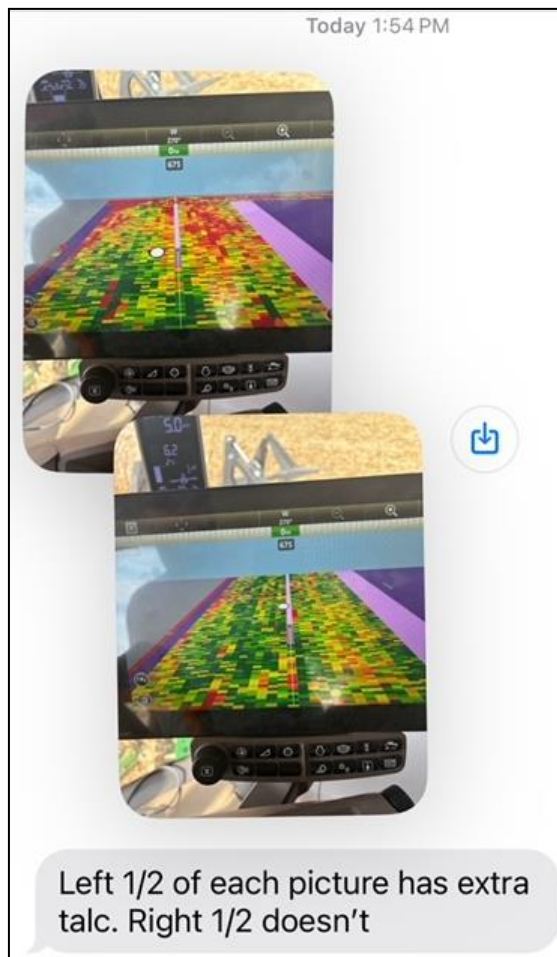


Harvest Soybeans
Oct 6, 2024

Variety Equipment Operator

Client Farm Field Variety Equipment Operator

Variety	Yield	Total Yield	Wet Weight
---	21 bu/ac	2 bu	1,286.0 lb/ac
3724 HOPPER	60 bu/ac	1,473 bu	3,615.7 lb/ac
G3724XF	52 bu/ac	1,283 bu	3,100.1 lb/ac
Totals/Averages	56 bu/ac	2,758 bu	3,351.9 lb/ac



Harvest Soybeans
Oct 5, 2024

Variety Equipment Operator

Client Farm Field Variety Equipment Operator

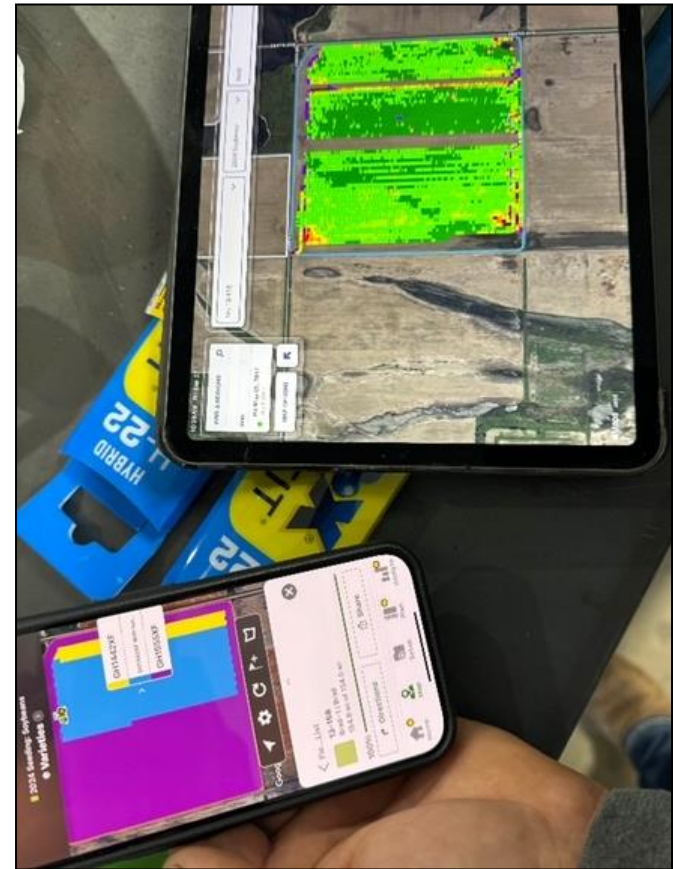
Variety	Yield	Total Yield	Wet Weight
---	35 bu/ac	13 bu	2,143.6 lb/ac
3724 HOPPER	61 bu/ac	5,803 bu	3,675.4 lb/ac
AG38	56 bu/ac	1,584 bu	3,375.0 lb/ac
G3724XF	56 bu/ac	4,326 bu	3,379.0 lb/ac
Totals/Averages	59 bu/ac	11,726 bu	3,516.4 lb/ac



+8-17bu/ac

Just talked to one
dealers. Naked beans with 8bs
humic. RHT soy and harvest
shield complete 87 bu per acre.
Untreated 70 bu per acre

Unreal!! That is awesome



REVLINE®

HOPPER THROTTLE™

CORN

PLANTER BOX TREATMENT

POWERED BY
ETHER
ENZYME TECHNOLOGY

Region Summary

Harvested (ac)	Moisture	288	Avg Yield (bu/ac)	30,547	Yield (bu)
Hybrid			Area (ac)		Avg Yield (bu/ac)
DKC63-91 RIB HT			13.1		303 >
					+8bu/ac
DKC63-91RIB			13.5		295 >
6585TCV2P			1.5		292 >
6081 AM HT			33.6		287 >
					+6bu/ac
6081AM			42.3		281 >

Summary Equipment Weather Setup

Yield	210.3 bu/ac	Total Yield	210.3 bu/ac
Moisture	15.4%	Throughput	3,577.7 bu/hr

Variety Yield ↕

+16bu/ac

P14830 Revline	215.3 bu/ac
P14830VYHR	199.0 bu/ac

Totals/Averages

Total Wet Weight	1,567,362.5 lb
Throughput (Wet)	201381.7 lb/hr

Field Totals			
Field			
Corn			
Variety P05737AM			
Area	Worked	12.37	ac
Moisture	Avg	18.11	%
Dry Yield	Avg	214.73	bu/ac
Dry Volume		2,657.14	bu
		148,793.17	lb
+17bu/a			
Variety P05737AM HOPPER TH			
Area	Worked	13.12	ac
Moisture	Avg	18.51	%
Dry Yield	Avg	231.53	bu/ac
Dry Volume		3,036.71	bu
Dry Weight		170,047.83	lb

Field Totals			
Field			
Corn			
Variety P0595AM HOPPER TH			
Area	Worked	34.48	ac
Moisture	Avg	17.79	%
Dry Yield	Avg	213.89	bu/ac
Dry Volume		7,375.22	bu
		412,993.24	lb
+6bu/ac			
Variety P0595AM			
Area	Worked	32.70	ac
Moisture	Avg	17.71	%
Dry Yield	Avg	208.08	bu/ac
Dry Volume		6,803.52	bu
Dry Weight		380,979.47	lb



Comprehensive Performance Advantage - 3 Seasons of Trialing



Soybeans +3.5bu/A

+3.5 Bu/A advantage*

*74 locations in 11 states, strip trials, large acreage
split planter, large acreage side by sides, all
application methods, aggregated by county*



Corn +6.6bu/A

+6.6 Bu/A advantage*

*124 locations in 9 states, strip trials, large
acreage split planter, large acreage side by sides,
aggregated by county*

Terrasym is a component of RHT. Source: New Leaf Symbiotics

MERISTEM
CROP PERFORMANCE



GUARDXIITM
CRW PROTECTION + ROOT REGEN

HOPPER THROTTLETM SOYBEAN
MAXSTAXTM
PLANTER BOX TREATMENT

The future is here...
Bio-Defense

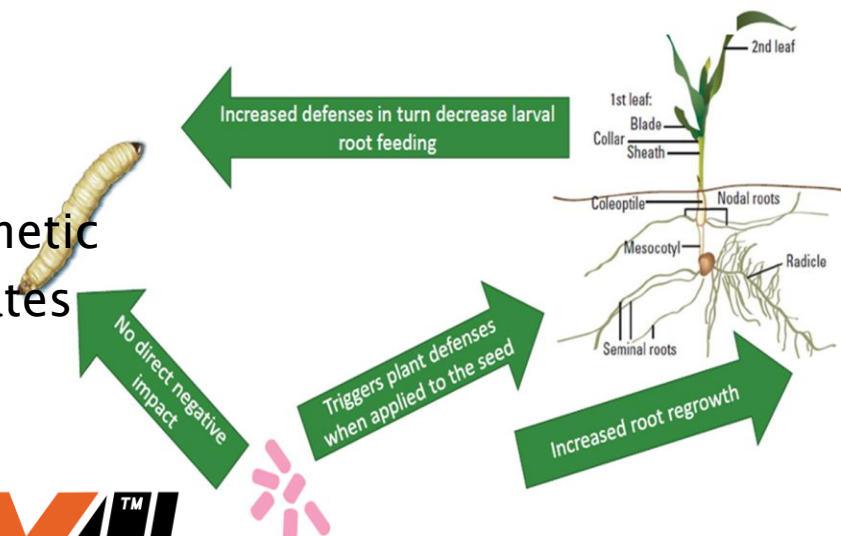
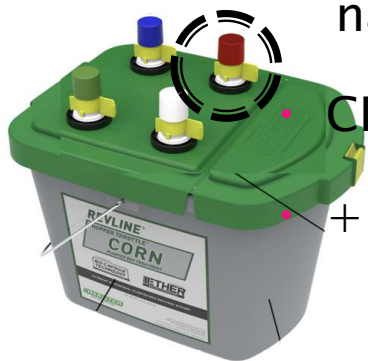
Revline® Hopper Throttle™ Corn + GuardX™*

► GuardX™* Corn Rootworm Protection + Root Regeneration :

- EPA Registered – PPFM
- GuardX™* up-regulates genetic natural defense root exudates
- CRW not able to sense root

+ Root Regeneration

GUARDX™
CRW PROTECTION + ROOT REGEN



* PENDING EPA NAME APPROVAL



GUARDXTM

CRW MANAGEMENT + ROOT REGEN

VT2 Untreated vs
VT2 RHTC+Ether+GuardX

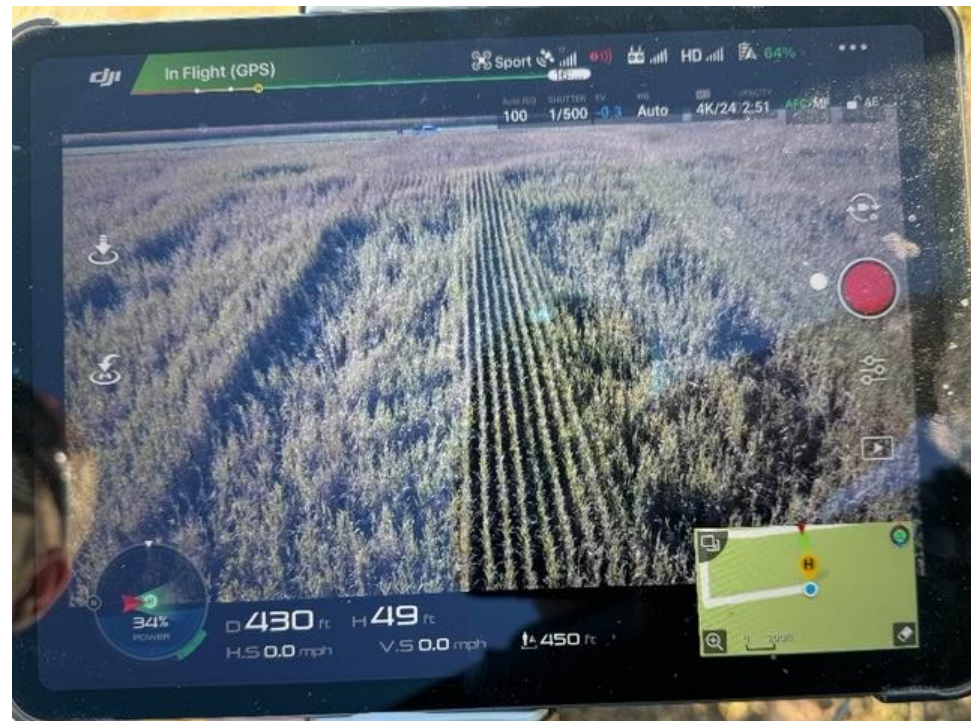
Full Drone Video is Insane

GUARDX is Game Changer in
CRW Management

Trait support

Replace planter insecticide

Manage Extended Diapause on
Rotated Acre w/o Trait Upgrade
or Insecticide



Revline® Hopper Throttle™ Corn + GuardX™*

- 20 years Corn on Corn – Extreme CRW Pressure – NW Iowa



* PENDING EPA NAME APPROVAL

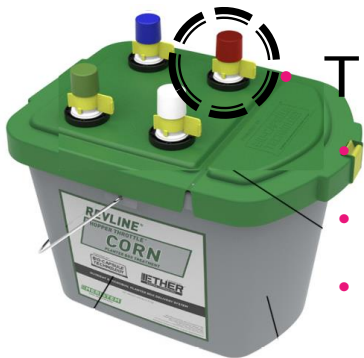
Revline® Hopper Throttle™ Corn + GuardX™*

▶ TAKE COSTS OUT!!!

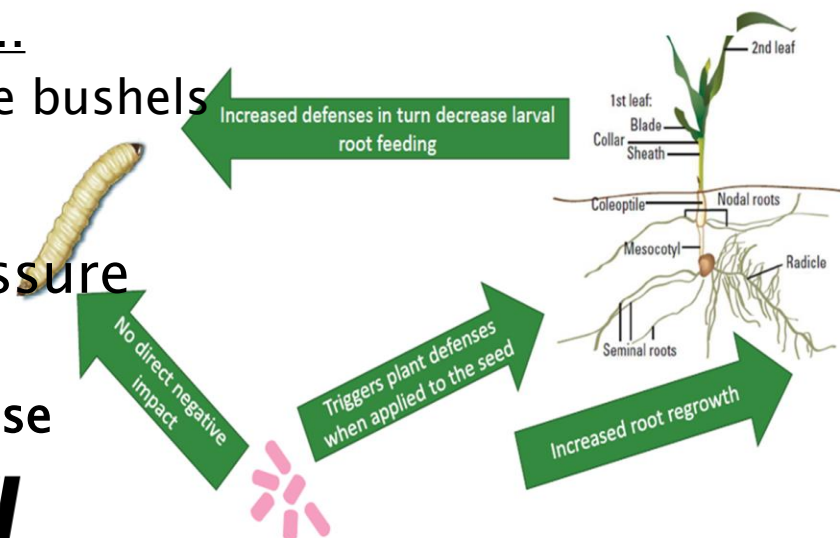
- Trait Support – Moderate to High Pressure
 - Replace planter insecticide...
 - Less time, less money, more bushels
 - Safe and easy to handle

Trait Reduction – Low Pressure
2nd/3rd Year Corn

- Rotation – Extended Diapause
- REDUCE COST – Trait



GUARDX™
CRW PROTECTION + ROOT REGEN



* PENDING EPA NAME APPROVAL



New Product Announcement: Introducing Hopper Throttle™ Soybean

HOPPER THROTTLE™ SOYBEAN
MAXSTAX™
PLANTER BOX TREATMENT

MERISTEM®

CROP PERFORMANCE



ULTIMATE SOYBEAN PROTECTION

HOPPER THROTTLE™ SOYBEAN
MAXSTAX™
PLANTER BOX TREATMENT

16 COMPONENTS

POWERED BY
BIO-CAPSULE TECHNOLOGY
INNOVATION DELIVERY SYSTEM



Industry-Leading RACEREADY™ Bradyrhizobia Inoculant

Proprietary triple-stack inoculant that accelerates early-season nodulation.



METALAXYL

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

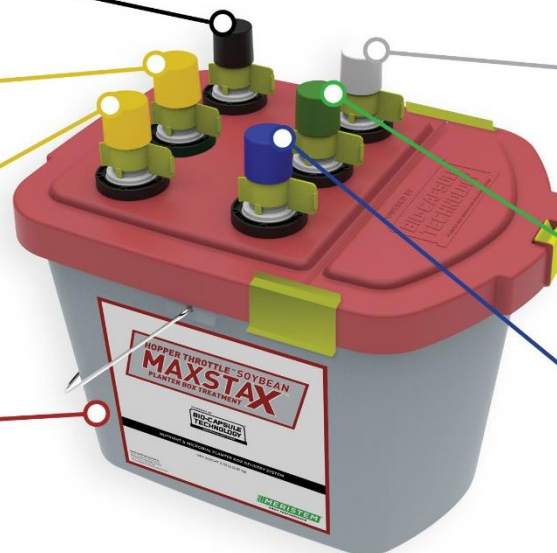


PREPHYTE™

Broad-spectrum biological fungicide for prevention, control or suppression of many soil-borne diseases.

BASE PAIL - Seed Fluency blend

- 80/20 Talc/Graphite
- Manganese (Mn)
- Iron (Fe)
- 0.43 lbs IONLOCK Zinc™ (replaces 1.2 qt Zinc 9% EDTA)
- Active Carbon
- ETHER™ Enzyme Technology
Lipase & Mannanase enzymes that increase biological activity & activate nutrient availability



5 oz Terrasym®

Proven, industry-leading biostimulant PPFM strain that generates massive root structures.

2 Nitrogen-Fixing Microbes

Azospirillum brasilense; Azospirillum lipoferum

10 Biofertility Microbes

Azotobacter chroococcum; Azotobacter vinelandii; Thiobacillus ferrooxidans; Paenibacillus azotofixans; Bacillus amyloliquefaciens; Bacillus licheniformis; Bacillus megaterium; Bacillus pumilus; Bacillus subtilis; Trichoderma harzianum

BORNE X™

EPA-registered biofungicide to prevent soil-borne fungal diseases such as Fusarium (causal agent for SDS) and Rhizoctonia.

GUARD M™

EPA-registered, bioinsecticide for soybeans that targets seedcorn maggots and other secondary pests

GUARD C™

Bionematicide containing Fungal chitosan to suppress nematodes while stimulating root and plant growth.

MERISTEM



CROP PERFORMANCE



PROTECT — TAKE COST OUT

BIO-CAPSULE TECHNOLOGY	HOPPER THROTTLE™ MAXSTAX™ SOYBEAN: Components	Farmer Traditional Liquid Seed Treatment: Components	Farmer Traditional Liquid Seed Treatment: Cost Per Unit of Soybeans Seeding Rate 140,000/AC
	PREPHYTE™ & METALAXYL	3 Fungicides	\$9.00
	GUARD C™		
	GUARD M™	Neonic Insecticide	\$3.00
	Industry-Leading RACEReady™ Bradyrhizobia Inoculant	Inoculant Bradyrhizobium	\$3.00
	BORNE X™	SDS Control – Saltro/ILEVO/Cyst	\$10.00
	80/20 Talc/Graphite	Talc/Graphite	\$1.00
TOTAL PROTECTION VALUE: \$26.00			

OPTIMIZE — MAKE IT PAY

BIO-CAPSULE TECHNOLOGY	HOPPER THROTTLE™ MAXSTAX™ SOYBEAN: <i>Components</i>	Plant Health & Yield Drivers: <i>Components</i>	Plant Health & Yield Drivers: <i>Cost</i>
	5 oz Terrasym®	PGR	\$6.00
	Ten microbes to help release bound-up plant nutrition Two strains of <i>Azospirillum</i> to fix nitrogen	Nitrogen Fixers/ Nutrients Solubilizer	\$12.00
	ETHER™ Enzyme Technology with Active Carbon	Starter - 6-24-6	\$24.00
	0.43 lbs IONLOCK™ Zinc	Zinc	\$6.00
	Mn & Fe Seed Fluency blend	Mn/Fe	\$1.00
	Seed cost savings by dropping seeding rate to 110,000/AC		\$5.00
TOTAL OPTIMIZATION VALUE: \$54.00			

VALUE IN THE PAIL: \$80.00

EXCAVATOR™

CROP RESIDUE BREAKDOWN
& NUTRIENT RELEASE AID



Untreated

Treated

RESULTS FROM THE FIELD



EXCAVATOR®

CROP RESIDUE BREAKDOWN
& NUTRIENT RELEASE AID

EXCAVATOR ON CORN: SIDE BY SIDE

	UNTREATED	TREATED
MOISTURE	24.90%	26%
WEIGHT	4,717 lbs grain	6,521 lbs grain
ROW	629" row length, 8 rows 30"	795" row length, 8 rows
BU/A	257	277

**+20 BU/A
INCREASE**

Putnam Seed Service
Greencastle, IN



MERISTEM
CROP PERFORMANCE

MERISTEM
CROP PERFORMANCE

EXCAVATOR™

CROP RESIDUE BREAKDOWN
& NUTRIENT RELEASE AID



Treated



Excavator trial looks promising



Untreated

MERISTEM

CROP PERFORMANCE

COMPARE COLONY FORMING UNITS (CFUs)

Competitor

ACTIVE INGREDIENTS:	
MIXTURE OF MICROBIAL STRAINS	4.9%
BACILLUS AMYLOLIQUEFACIENS	1X10 ⁵ CFU/mL
BACILLUS LICHENIFORMIS	1X10 ⁵ CFU/mL
PSEUDOMONAS PUTIDA	1X10 ⁵ CFU/mL
YARROWIA LIPOLYTICA	1X10 ⁴ CFU/mL
OTHER INERT INGREDIENTS:	95.1%

Vs.



GUARANTEED ANALYSIS:

Alkyl Polyglucoside (surfactant)	35%
Organic acids (pH buffer)	5%
Rheology and dispersant agents	5%
Fulvic Acid	1%
CFUs per ml(g)*	
Bacillus coagulans	5.54 x 10 ⁷
Bacillus amyloliquifaciens	6.24 x 10 ⁷
Bacillus lichenformis	2.12 x 10 ⁸
Bacillus megaterium	6.24 x 10 ⁷
Bacillus pumilis	1.62 x 10 ⁸
Total CFUs	5.55 x 10⁸

*In the final liquid form, contains 2.1 Trillion total colony forming units (CFUs) per gallon (2.1 x 10¹² CFU/gal) of the above microbes (1 gm = 1 ml).

310,000 CFUs / mL

Vs.

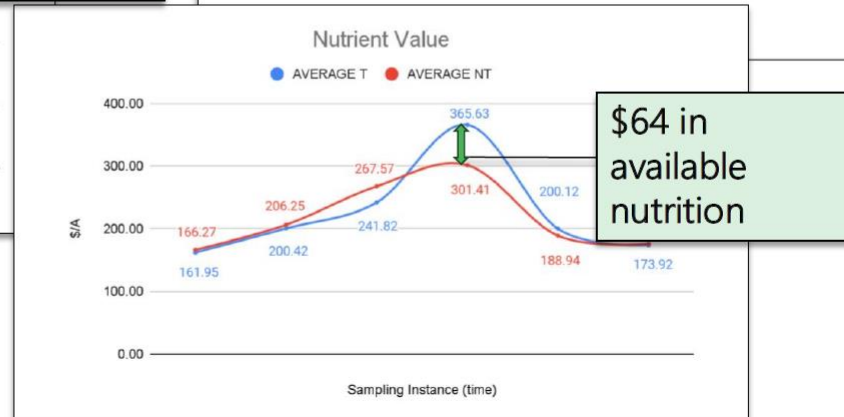
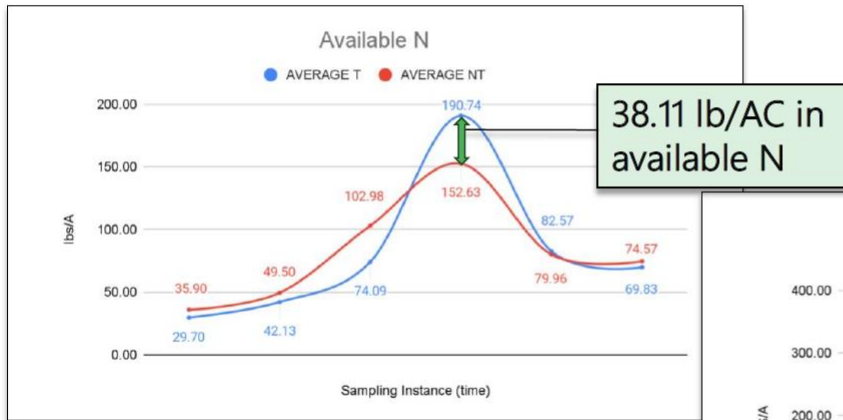
554,000,000 CFUs / mL

553.7 Million Reasons to use Excavator™

FIGHT BACK WITH EXCAVATOR™

EXCAVATOR®

It's time to reposition EXCAVATOR



**Minimum.....10-30-30
Fertilizer Pass**

Take Costs Out!!!

EXCAVATOR™
CROP RESIDUE BREAKDOWN
& NUTRIENT RELEASE AID

FIGHT BACK WITH EXCAVATOR™

3:1 RETURN ON INVESTMENT

Through multi-location/multi-state research trials, EXCAVATOR™ has proven to deliver a 3:1 return on investment through one or a combination of the following benefits.



Breaking down residue faster will allow faster planting, stronger stands and fewer skips

\$25/ac



More nutrients available early

\$39/ac



Less tillage required

\$18/ac



Improve soil health

12%+
in soil health index



OPHEIM SEED & CHEMICAL

POST HARVEST MEETING



2025 AGRIGOLD PRODUCT FOCUS



Brian Rouse & Jeff Morey
11/13/2024 – Thor, IA

A629-55

99 Day

FIELD
GXJ

TRAIT PACKAGES AVAILABLE:

VTDoublePRO
RIB COMPLETE

EAR FLEX –
TYPE

LENGTH

PRODUCT DESCRIPTION

TOP YIELDING HYBRID ACROSS MULTIPLE ENVIRONMENTS

VERY GOOD STALK AND DISEASE RATING

CONSISTENT SEMI-FLEXIBLE EAR THAT MOVES FROM EAST TO WEST



INTERNAL TRAINING ONLY

AGRONOMY RECOMMENDATIONS

CROP ROTATION

FOLLOWING SOYBEANS

FOLLOWING CORN

DRAINAGE

WELL DRAINED

POORLY DRAINED

YIELD LEVEL

HIGH

LOW

DISEASE TOLERANCE

NORTHERN CORN LEAF BLIGHT

TAR SPOT

GRAY LEAF SPOT

ANTHRACNOSE



A630-04

TRAIT PACKAGES AVAILABLE:

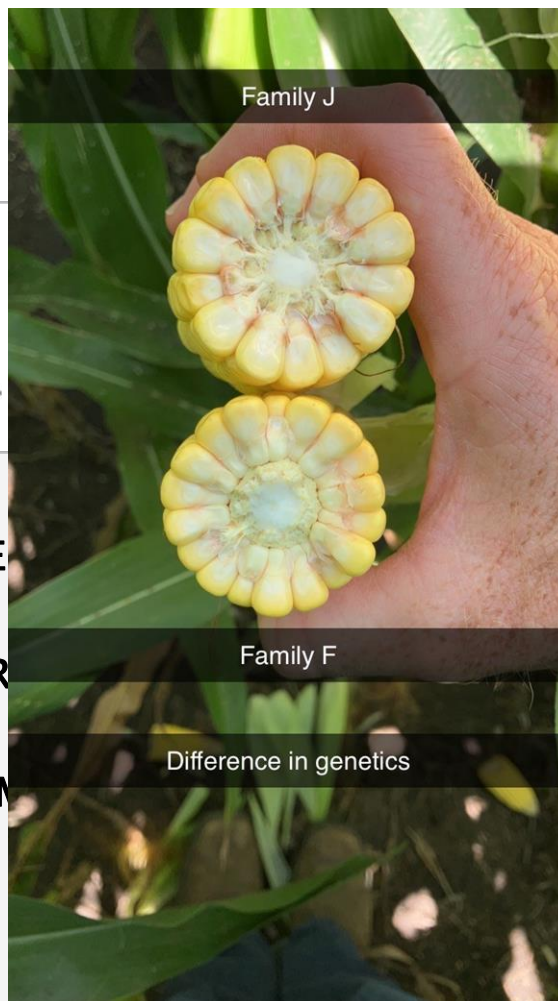


PRODUCT DESCRIPTION

UNIQUE EXCITING YIELD POTE

STRONG EMERGENCE & VIGOR

RESPONDS TO HIGH MANAGEM

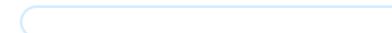


INTERNAL TRAINING ONLY

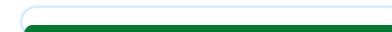
AGRONOMY RECOMMENDATIONS

CROP ROTATION

FOLLOWING SOYBEANS

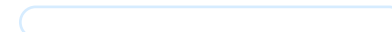


FOLLOWING CORN

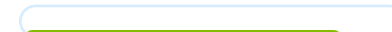


DRAINAGE

WELL DRAINED



POORLY DRAINED

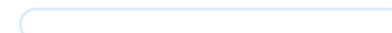


YIELD LEVEL

HIGH

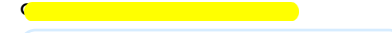


LOW

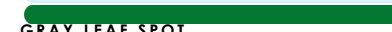


DISEASE TOLERANCE

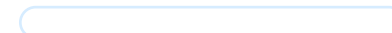
NORTHERN CORN LEAF BLIGHT



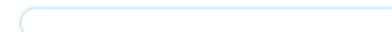
TAR SPOT



GRAY LEAF SPOT



ANTHRACNOSE



NEW

A631-08

10 Day
1

FIELD
GXJ

TRAIT PACKAGES AVAILABLE:

VTDoublePRO
RIB COMPLETE

EAR FLEX –
TYPE

KERNEL

PRODUCT DESCRIPTION

**SIMILAR LOOK AND FEEL AS 630-04 BUT
WITH IMPROVED AGRONOMICS**

EXCELLENT LATE SEASON INTACTNESS

**OPTIMIZE PERFORMANCE WITH A
FUNGICIDE**

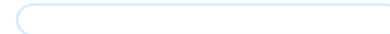


INTERNAL TRAINING ONLY

AGRONOMY RECOMMENDATIONS

CROP ROTATION

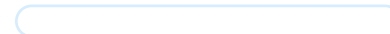
FOLLOWING SOYBEANS



FOLLOWING CORN

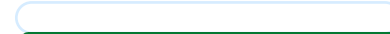


WELL DRAINED

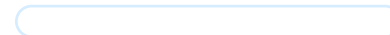


YIELD LEVEL

HIGH



LOW

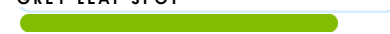


DISEASE TOLERANCE

NORTHERN CORN LEAF BLIGHT



GREY LEAF SPOT



GRAY LEAF SPOT



ANTHRACNOSE



A632

TRAIT PACKAGES AVAILABLE:

VTDoublePRO[®]
RIB COMPLETE[™]

PRODUCT DESCRIPTION

**STRONG PERFORMANCE
IN DIVERSE ENVIRONMENTS**

**EXCELLENT GREENS
AND HIGH LODGING SCORES**

VERY GOOD TART SWEET



A632-68VT2

INTERNAL TRAINING ONLY

AGRONOMY RECOMMENDATIONS

CROP ROTATION

FOLLOWING SOYBEANS

FOLLOWING CORN

WET

WET

WET

WET

WET TOLERANCE

WET CORN LEAF BLIGHT

WET

GRAY LEAF SPOT

ANTHRACNOSE

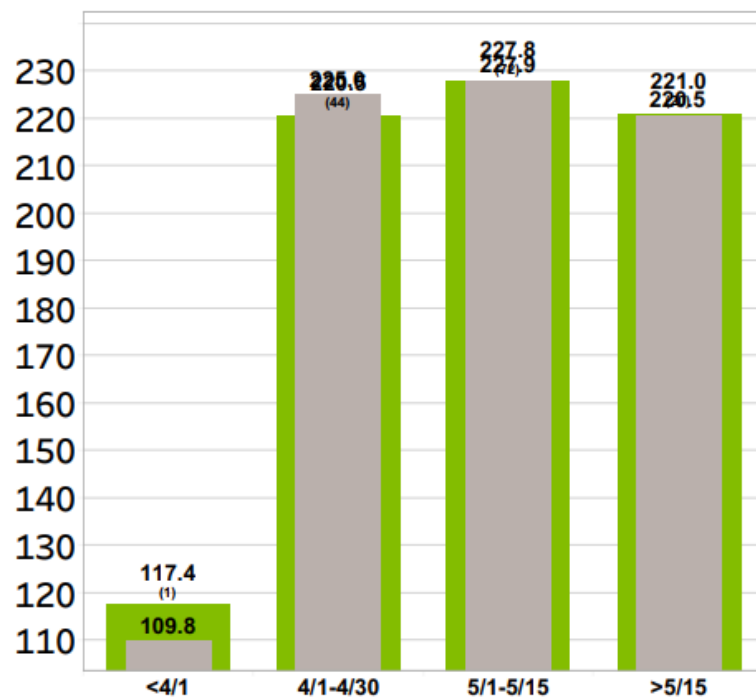


AGRONOMY RECOMMENDATIONS

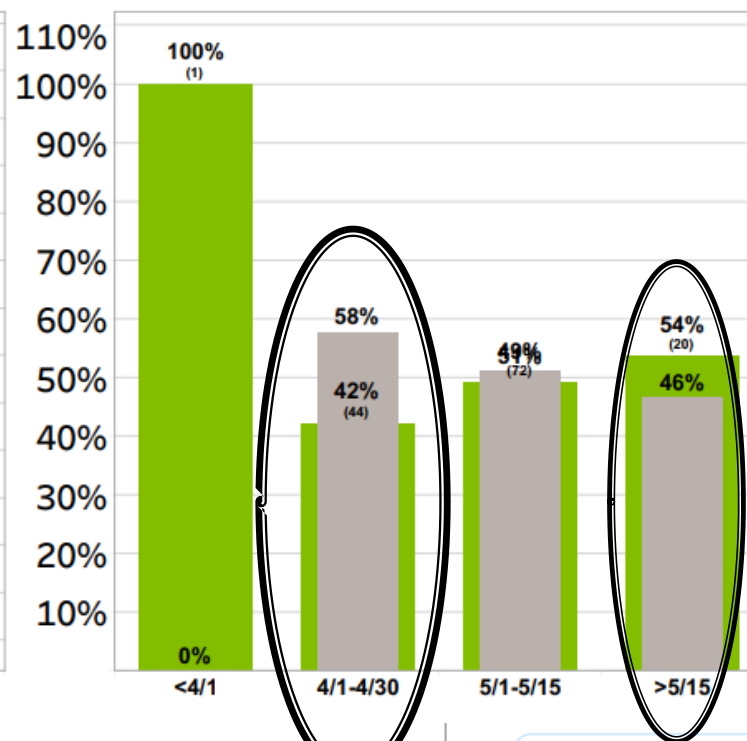
CROP ROTATION

Brand color
■ Agrigold

Yield by Planting Date A632-68VT2RIB



% Wins by Planting Date A632-68VT2RIB



ANTHRACNOSE

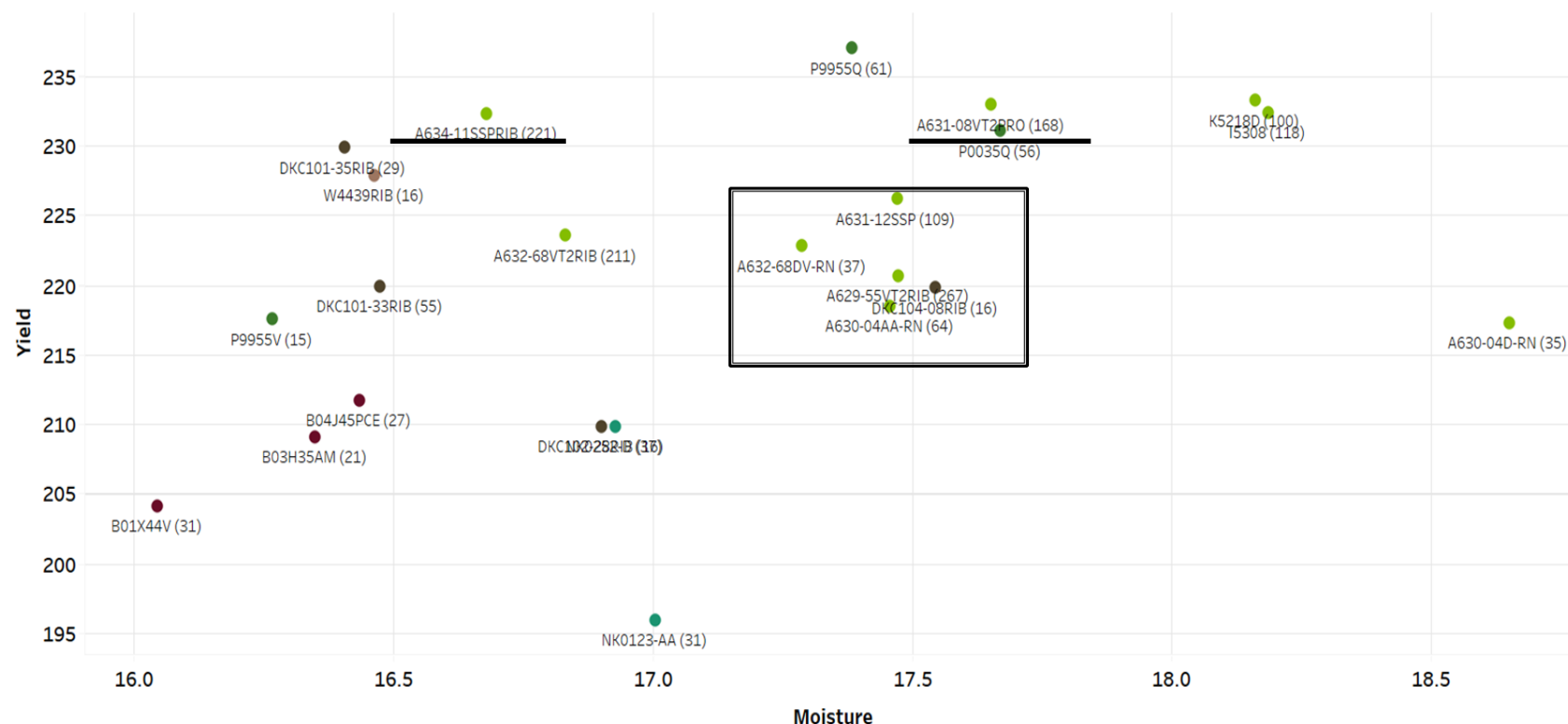


AGRONOMY RECOMMENDATIONS

CROP ROTATION

- AgriGold
- Brevant Seeds
- Dekalb
- NK Brand
- Pioneer
- Wyffels

Scatter Graph



99 – 104 RM West & Central Performance 2024

ANTRACNOSE



NEW

A634-11

TRAIT PACKAGES AVAILABLE:

SmartStax^{PRO}
With **RNAi** TECHNOLOGY

PRODUCT DESCRIPTION

**CONSISTENT AND RELIABLE PERFORMANCE
IN CRW ZONES**

**GREAT STRESS TOLERANCE, HANDLES
VARIABLE SOILS**

**CAUTION PLACEMENT IN HEAVY GOSSYP
WILT PRONED AREAS**

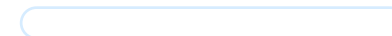
INTERNAL TRAINING



AGRONOMY RECOMMENDATIONS

CROP ROTATION

FOLLOWING SOYBEANS



FOLLOWING CORN

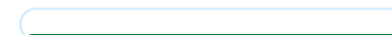


DRAINAGE

WELL DRAINED

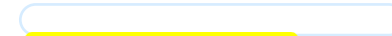


POORLY DRAINED



YIELD LEVEL

HIGH

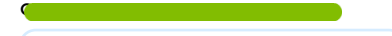


LOW

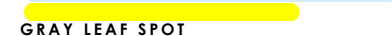


DISEASE TOLERANCE

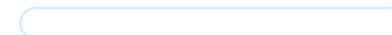
NORTHERN CORN LEAF BLIGHT



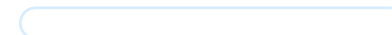
GREY LEAF SPOT



GRAY LEAF SPOT



ANTHRACNOSE



A636-11

10 Day
6

FIELD
GXF

TRAIT PACKAGES AVAILABLE:

~~SmartStax~~
RIB COMPLETE

~~VT DoublePRO~~
RIB COMPLETE

EAR FLEX –
TYPE

GIRTH

PRODUCT DESCRIPTION

PROVEN, REILIABLE PERFORMANCE
FROM YEAR TO YEAR

STRONG DISEASE TOLERANCE ALLOWS
BROAD PLACEMENT

EXCELLENT DRYDOWN



INTERNAL TRAINING ONLY

AGRONOMY RECOMMENDATIONS

CROP ROTATION

FOLLOWING SOYBEANS

FOLLOWING CORN

DRAINAGE

WELL DRAINED

POORLY DRAINED

YIELD LEVEL

HIGH

LOW

TAR SPOT

DISEASE TOLERANCE PHYSODERMA

GRAY LEAF SPOT

ANTHRACNOSE



A636-16 5222

TRAIT PACKAGES AVAILABLE:



PRODUCT DESCRIPTION

LONG PROVEN
PERFORMANCE

FAST EMERGENCE

EXCELLENT DISEASE
SPOT & GOSS'S



INTERNAL TRAINING ONLY

AGRONOMY RECOMMENDATIONS

CROP ROTATION

NG SOYBEANS

NG CORN

CE

AINED

DRAINED

LEVEL

T

E TOLERANCE
ERMA

SPOT

ANTHRACNOSE



A638-19

TRAIT PACKAGES AVAILABLE:



Conven

PRODUCT DESCRIPTION

UNIQUE HYBRID WITH GOOD E
AND KERNEL DEPTH

BROAD ACRE PRODUCT WITH S
PERFORMANCE

GREAT EMERENCE & EARLY VIC

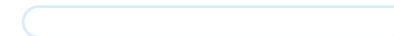


INTERNAL TRA

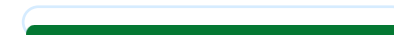
AGRONOMY RECOMMENDATIONS

CROP ROTATION

FOLLOWING SOYBEANS

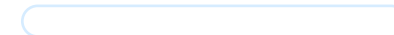


FOLLOWING CORN

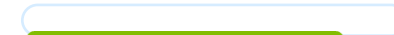


DRAINAGE

WELL DRAINED



POORLY DRAINED

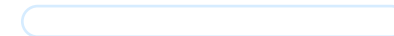


YIELD LEVEL

HIGH



LOW



DISEASE TOLERANCE

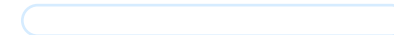
NORTHERN CORN LEAF BLIGHT



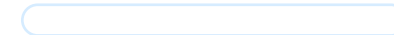
TAR SPOT



GRAY LEAF SPOT



ANTHRACNOSE



AGRONOMY RECOMMENDATIONS

CROP ROTATION



104-109 RM West & Central Performance 2024

GOSS'S WILT

GRAY VIRE SPOT

ANTHRACNOSE



A639-03

TRAIT PACKAGES AVAILABLE:



PRODUCT DESCRIPTION

TWO YEARS OF GREAT YIELD P

**BROAD AREA OF ADAPTATION
STRONG GREENSNAP TOLERANCE**

**TREMENDOUS EAR FLEX WITH
KERNELS**



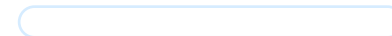
A639-03VT2

INTERNAL TRAINING ONLY

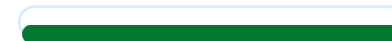
AGRONOMY RECOMMENDATIONS

CROP ROTATION

FOLLOWING SOYBEANS

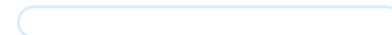


FOLLOWING CORN



DRAINAGE

WELL DRAINED



POORLY DRAINED

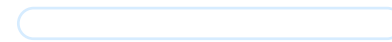


YIELD LEVEL

HIGH

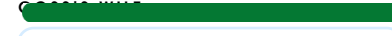


LOW



DISEASE TOLERANCE

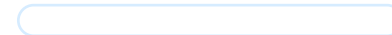
NORTHERN CORN LEAF BLIGHT



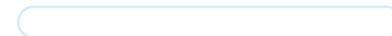
GRAY LEAF SPOT



GRAY LEAF SPOT



ANTHRACNOSE



NEW

A640-16

11 Day
0

TRAIT PACKAGES AVAILABLE:



FIELD
GXA



EAR FLEX –
TYPE

KERNEL

PRODUCT DESCRIPTION

EXCELS IN HIGH YIELD ENVIRONMENTS

OUTSTANDING DISEASE TOLERANCE

**RESPONDS TO HIGH MANAGEMENT AND
HIGH FERTILITY LEVELS**

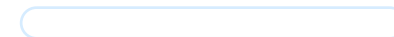


INTERNAL TRAINING ONLY

AGRONOMY RECOMMENDATIONS

CROP ROTATION

FOLLOWING SOYBEANS



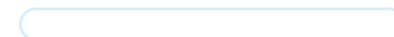
FOLLOWING CORN



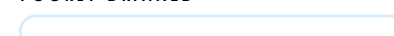
DRAINAGE



WELL DRAINED

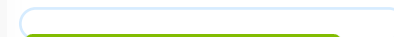


POORLY DRAINED



YIELD LEVEL

HIGH



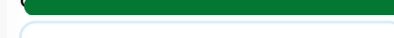
LOW



TAR SPOT



DISEASE TOLERANCE



GRAY LEAF SPOT



ANTHRACNOSE



NEW

A642-18

TRAIT PACKAGES AVAILABLE:

SmartStax^{PRO}
With **RNAi** TECHNOLOGY

PRODUCT DESCRIPTION

**BROADLY ADAPATED WITH EXCELLENT
MOVEMENT SOUTH OF ZONE**

**GOOD LATE SEASON INTACTNESS & STI
TOLERANCE**

**GREAT TOLERANCE TO GOSS'S WILT AN
SPOT**

ROUNDUP READY

XTEND
SOYBEANS

LD
XF

LD
XB

FLEX -
TYPE
RNL



AGRONOMY RECOMMENDATIONS

CROP ROTATION

FOLLOWING SOYBEANS

FOLLOWING CORN

DRAINAGE

WELL DRAINED

POORLY DRAINED

YIELD LEVEL

HIGH

AVERAGE

LOW

DISEASE TOLERANCE

COMMON RUST

TAR SPOT

GRAY LEAF SPOT

ANTHRACNOSE



INTERNAL TRAINING ONLY

AGRONOMY RECOMMENDATIONS

CROP ROTATION



Enlist E3®

SOYBEANS

109-114 RM West & Central Performance
2024

GOSS'S WILT

GRAY LEAF SPOT

ANTHRACNOSE



SOYBEAN OFFERINGS

Conventional

8 varieties

Early	Mid	Full
G1602	G2802	G3702
G2002	G3104	G4102
G2304	G3402	–



0 varieties

Early	Mid	Full
–	–	–



25 varieties – 8 NEW

Early	Mid	Full
G0500XF	G2950XF	G4430XF
G0854XF	G3114XF	G4615XF
G1394XF	G3334XF	G4650XF
G1704XF	G3552XF	G4850XF
G2000XF	G3724XF	G4910XF
G2306XF	G3804XF	G5104XF
G2573XF	G4094XF	G5364XF
G2450XF	G4184XF	G5536XF
–	–	G6490XF



23 varieties – 6 NEW

Early	Mid	Full
G0301E3	G2003E3	G3577E3
G0431E3	G2361E3	G3854E3
G0894E3	G2601E3	G4051E3
G1055E3	G2893E3	G4204E3
G1244E3	G3051E3	G4459E3
G1493E3	G3279E3	G4655E3
G1601E3	G3404E3	G4884E3
G1823E3	–	G5009E3

COMPANY CONFIDENTIAL – Not for Distribution

Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields. ALWAYS READ AND FOLLOW IRM, WHERE APPLICABLE, GRAIN MARKETING AND ALL OTHER STEWARDSHIP PRACTICES AND PESTICIDE LABEL DIRECTIONS.

2024 Corn Hybrid Performance

East Region

November 13, 2024



About the Performance Data

► Source of Data presented today (unless r

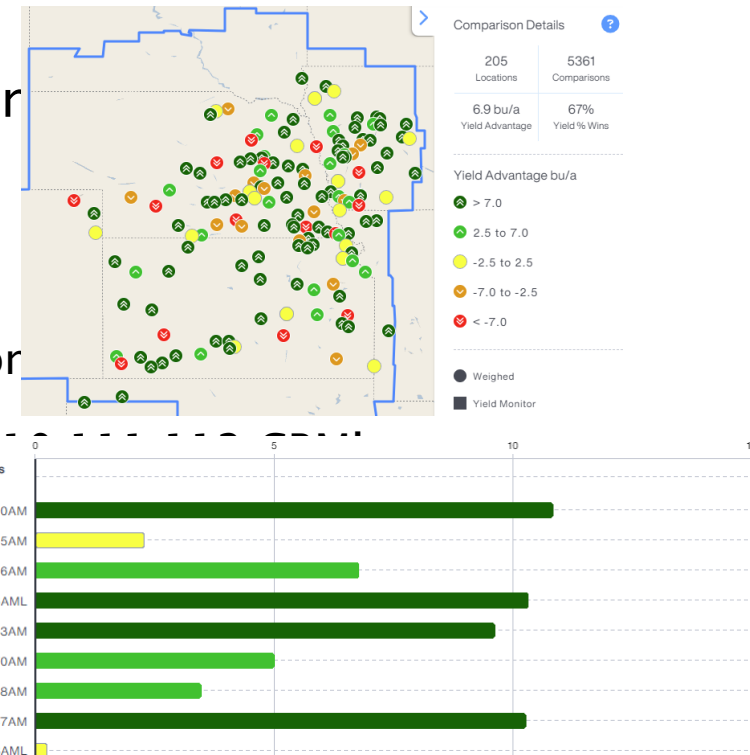
- 2024
- Hoegemeyer Strip Trials
- IMPACT/Research

► Maps

- Performance against ALL Hoegemeyer and Cor
- CRM
- Ex. 110 CRM product compares to 108,
- All data comes from the Blue outlined r

► Bar Charts

- Head to Head vs Selected Hoegemeyer a
- Green bar means the Featured hybrid w
- Red bar means the Comparison hybrid



2024 Year in Review

- Corn/soybeans planted April 23-26th
 - Cold rains directly after caused poor emergence
 - Final stands were reduced by 25-35%
- Abundance or Rain early
 - Causing major replants and flooding events
 - Some fields replanted multiple times
 - Some fields planted right before crop insurance dates



2024 Year in Review

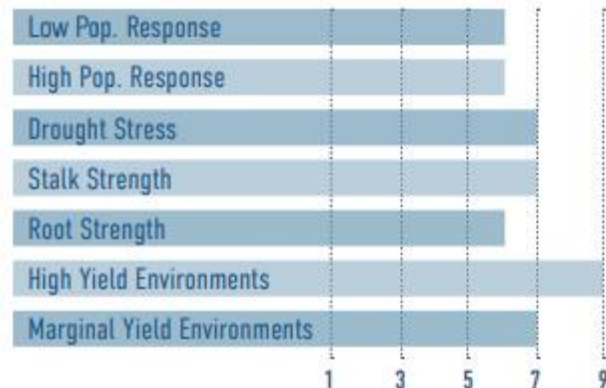
- Heavy insect pressure
 - Corn Earworm
 - Western Bean Cutworm
 - Soybean Aphids
- Corn Diseases
 - Tar Spot
 - Southern Rust
 - Not typical
 - Goss's Wilt
- Crop didn't have moisture to finish season
 - Soybeans went from 13% to 8% very quickly
 - Corn went from 22% to 14% in record time
 - Harvest loss??



Availability: Good Availability: Good

NEW
6964 PCE™ **NEW**
6965 V™

AGRONOMICS



RECOMMENDED GEOGRAPHY

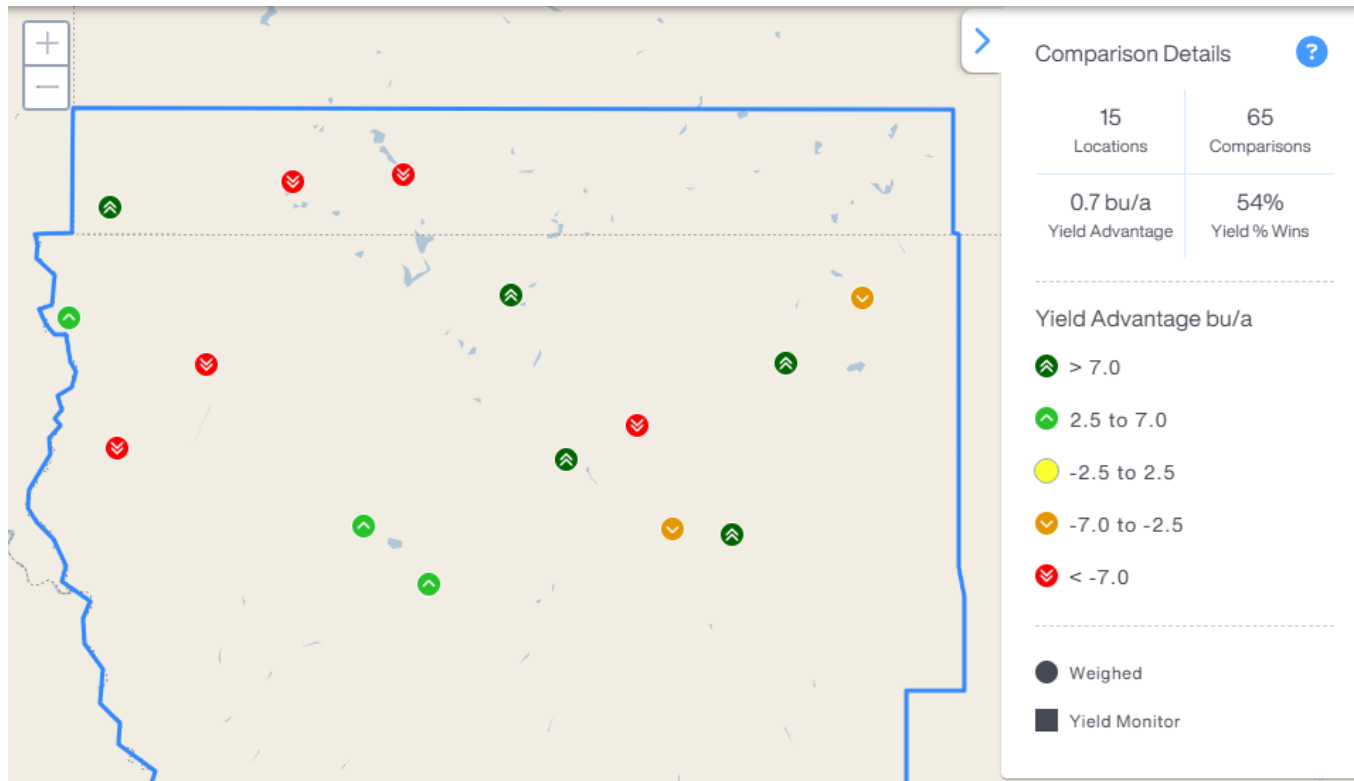


99 RM – 2430 HEAT UNITS

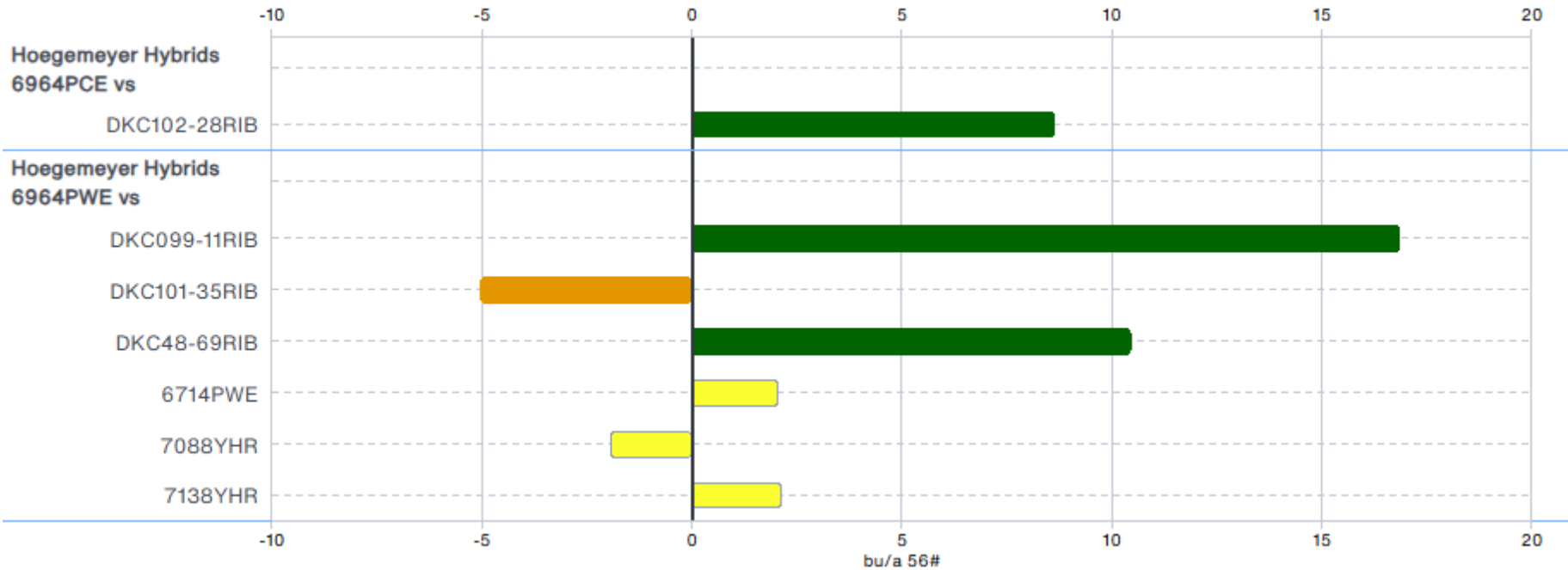
- Introducing new PowerCore Enlist and Vorceed Enlist trait packages in the 6963 AM brand family
- The yield leader in the 98-100 relative maturity range
- Excellent standability package with moderate plant stature
- Competes well with fuller-season products

- ▶ Limited units of 6963 AM available in some districts

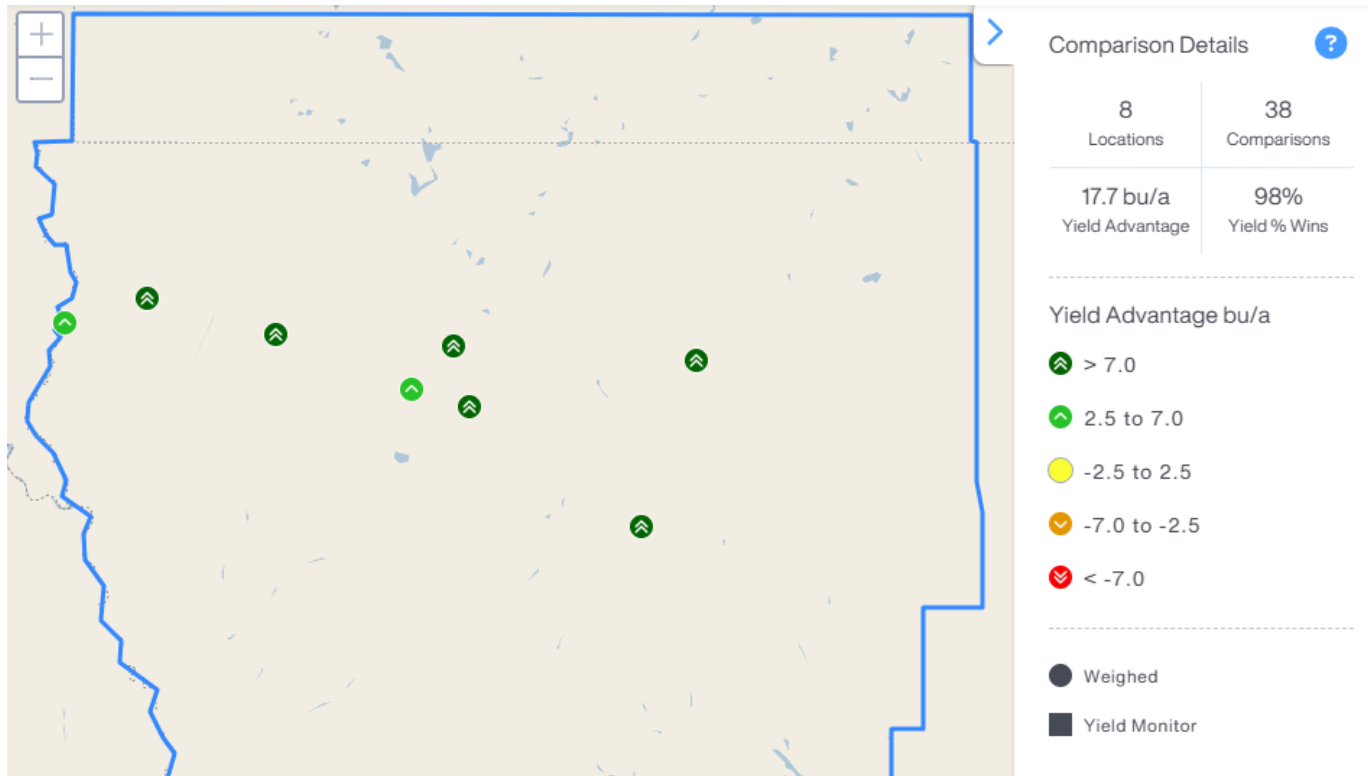
6964 PCE vs All (+/- 2RM)



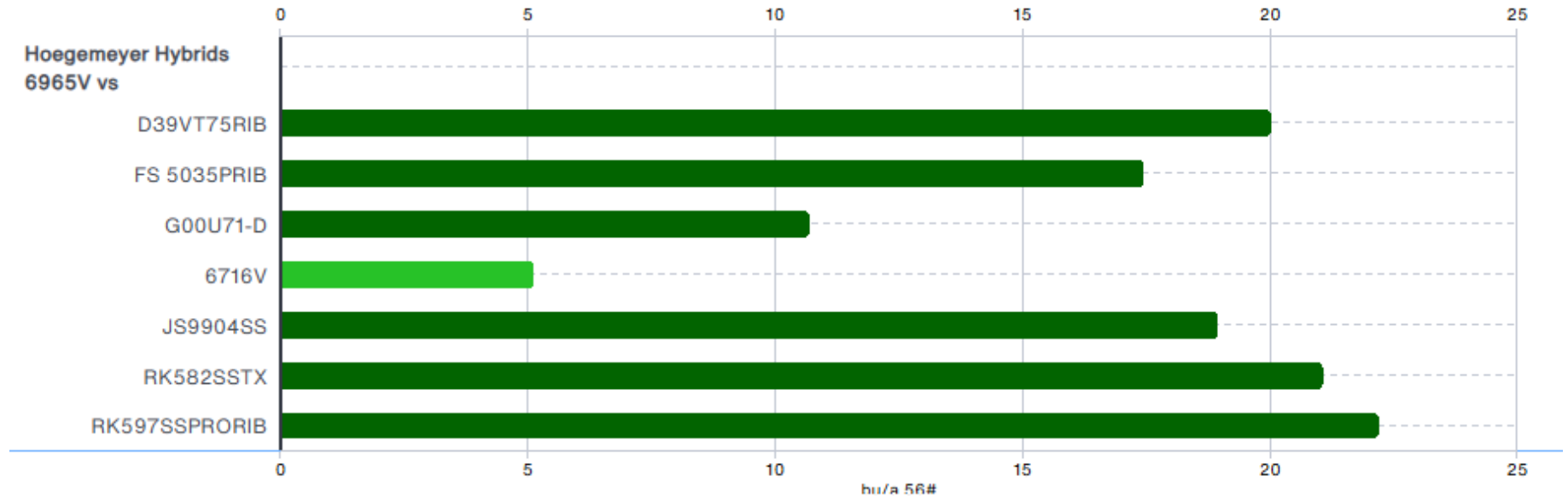
6964 PCE Head to Heads



6965 V vs All (+/- 2RM)



6965 V Head to Heads



6965 V NW IA FIRST Trials

2024 Corn Grain Top 30 Region Summary for Iowa Northwest [IANW]



Ultra Early-Season Test

95 - 100 Day CRM

B2024IANWu

Test by: Clearwater, NE

For Gross Income (Sorted by Yield), (17) Replication Average

Company/Brand	Product/Brand	Technol. †	RM	Yield (bu/a)	Moisture (%)	Lodging (%)	Gross Income (\$/a)	Albert City		Moorland		Sioux Center *		
HOEGEMEYER	6965V ↗	VE	99	271.0	11.9	0	1119	1	292.2	268.9	269.6	262.8	265.2	267.3
JACOBSEN	JS0034SS ↗	STX	100	263.1	15.0	0	1079	4	267.7	266.5	262.6	251.6	261.2	269.3
WYFFELS	W2386 ↗	VT2P	100	262.3	13.2	0	1083	2	279.2	242.4	258.8	259.1	278.4	255.8
WYFFELS	W1996RIB ↗	VT2P	98	262.2	12.9	0	1083	3	277.0	252.3	261.5	260.4	271.5	250.1
GOLDEN HARVEST	G00U71-D ↗	D	100	260.3	14.7	0	1069	5	270.7	257.5	261.1	240.5	274.2	257.9
PIONEER	P9955Q GC ↗	QR	99	258.5	13.7	1	1065	7	264.0	235.5	274.6	240.7	270.4	266.0
DYNA-GRO	D37PN35RA ↗	PCE	97	258.3	13.3	2	1065	9	274.1	244.6	262.6	243.6	254.8	270.3
WYFFELS	W2446RIB ↗	VT2P	100	258.3	13.5	1	1067	6	258.3	238.7	248.4	264.4	281.2	258.7
RENK	RK630TRE ↗	TRE	100	258.0	13.7	0	1065	8	266.8	254.4	251.6	254.5	264.5	256.2
FS INVISION	FS 4545D2 EZR ↗	5222	95	257.0	13.4	0	1061	10	261.7	255.9	259.1	247.1	263.2	254.8
FS INVISION	FS 4927T RIB ↗	TRE	99	255.8	13.0	0	1056	11	256.9	247.3	251.4	246.3	266.5	266.2
TITAN PRO	48-99 PCE ↗	PCE	99	255.2	13.4	3	1053	12	254.2	233.9	264.5	231.2	269.0	278.6
FS INVISION	FS 5035P RIB ↗	STXP	100	253.6	13.5	0	1047	13	258.4	255.7	253.7	242.3	249.7	261.6
JACOBSEN	JS9904SS ↗	STX	98	252.1	13.1	1	1041	14	257.6	233.5	261.9	248.7	251.7	259.1
VIKING BLUE RIVER	73-97 ↗	CONV	97	251.0	12.8	0	1037	15	262.9	242.7	246.2	240.7	253.4	260.2
DYNA-GRO	D39VT75RIB ↗	VT4P	99	251.0	13.1	1	1037	16	258.4	228.7	254.4	253.3	256.8	254.3
WYFFELS	W1869 ↗	STXP	97	250.1	13.1	0	1032	17	264.5	239.5	249.4	248.1	254.6	244.4
RENK	RK582SSTX ↗	STX	98	249.9	12.7	1	1032	18	257.6	244.6	247.4	242.9	243.5	263.7
RENK	RK586VT4P ↗	VT4P	99	249.8	13.4	1	1032	19	253.9	250.4	249.2	244.0	252.6	248.8
RENK	RK597SSPRO ↗	STXP	99	248.8	12.7	0	1028	20	257.7	246.5	249.1	229.4	257.6	252.6
JACOBSEN	JS9762 CONV ↗	CONV	97	247.8	13.4	0	1023	21	248.5	241.9	234.6	247.9	269.3	244.6
VIKING BLUE RIVER	24-99 ↗	CONV	99	247.7	13.3	1	1023	22	241.7	238.4	254.0	234.0	261.9	256.3
PIONEER	P0075Q GC ↗	QR	100	247.2	13.8	0	1019	23	267.2	250.5	227.6	236.4	246.8	254.8
JACOBSEN	JS9414VT2P ↗	VT2P	95	246.6	12.1	0	1018	24	265.9	228.6	252.7	250.1	244.8	237.4
GOLDEN HARVEST	G00A97-AA ↗	AA	100	241.9	13.9	0	996	25	235.1	239.1	249.1	228.6	243.8	255.5
JACOBSEN	JS9542DGV2P ↗	VT2PDG	95	239.4	13.0	1	989	26	244.0	217.5	229.1	244.3	245.9	255.8
RENK	RK561DGV2P ↗	VT2PDG	95	237.1	12.5	1	979	27	257.4	217.0	228.7	238.8	238.7	242.2

 Nick Hoffman nick.hoffman@firstseedtests.com, (308) 730-7503	Averages =	253.1	13.3	1	1044	261.2	243.4	252.3	245.6	258.6	257.0
	LSD (0.10) =	6.6	0.3	ns		14.0	16.3	14.8	11.5	13.5	12.8
	LSD (0.25) =	3.5	0.2	ns		7.3	8.5	7.8	6.0	7.0	6.7

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.04 Prev. years average yield for region: 204.0 bu/a, 25 yr(s) Prices: GMO = \$4.13

† See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. **Bold** yields are significantly above test average by LSD(0.10). **Italicized** brands exceed the grain moisture limit for this test. **ns** = column values not significantly different. *Links to product's results at www.firstseedtests.com. * 2 reps for the site.*

Additional reports available at www.firstseedtests.com

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Report Date: 10/23/2024

6964 PCE

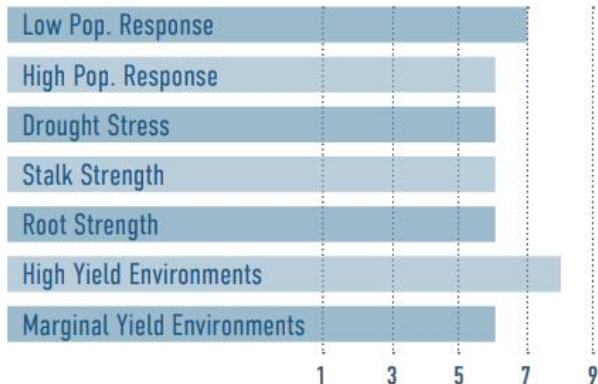


Availability: Good Availability: Good

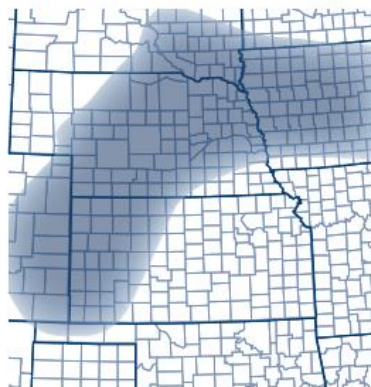
7329 AM™

7331 V™

AGRONOMICS



RECOMMENDED GEOGRAPHY



103 RM – 2450 HEAT UNITS

- Elite performance potential in this exciting 103 day platform
- Demonstrated excellent yield results in Iowa and eastern South Dakota in 2023
- Attractive flex-style ears with heavy test weight
- Moderate plant stature

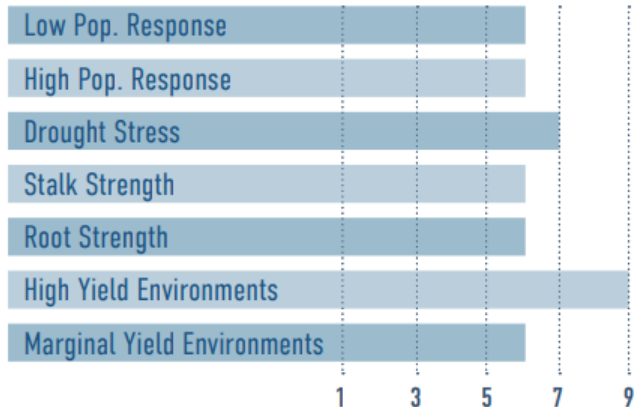
- ▶ Heavy Southern Rust pressure noted in 2024

Availability: Limited Availability: Limited

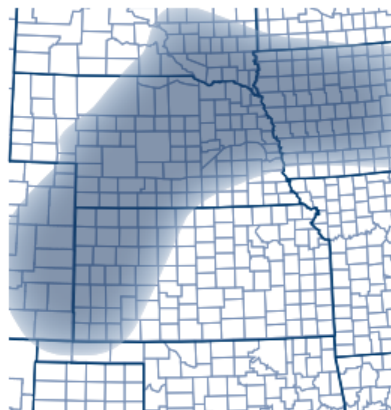
NEW
7485 PCE™

NEW
7486 V™

AGRONOMICS



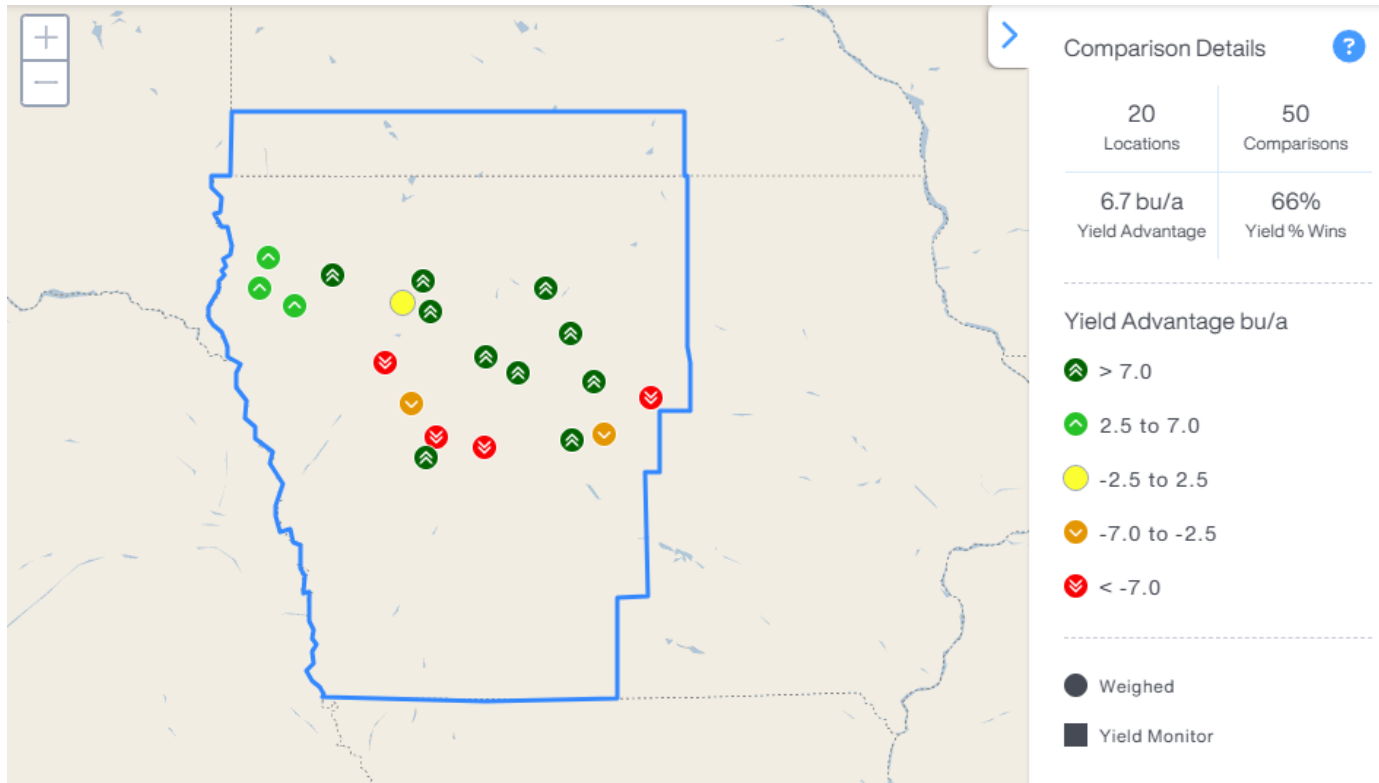
RECOMMENDED GEOGRAPHY



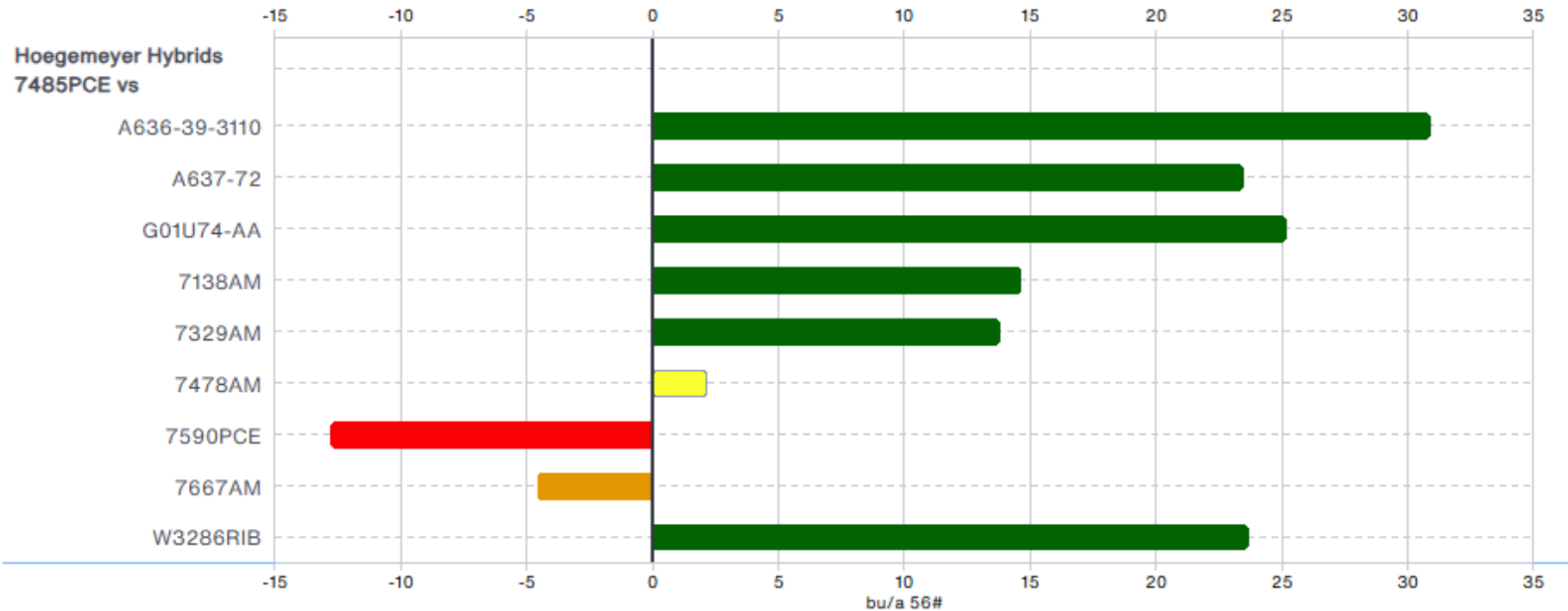
104 RM – 2510 HEAT UNITS

- High caliber top-end yield potential in this new 104 RM genetic brand family
- Moderate plant stature
- Strong out of the ground
- Avoid fields with a history of Goss's Wilt

7485 PCE vs All (+/- 2RM)



7485 PCE Head to Heads



7485 PCE NW IA FIRST Trials

2024 Corn Grain Top 30 Region Summary for Iowa Northwest [IANW]

first farmers' independent
research of seed
technologies
Test by: Clearwater, NE

Early-Season Test

101 - 106 Day CRM

B2024IANWw

Top 30 of 45

For Gross Income (Sorted by Yield), (18) Replication Average

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Gross Income \$/Acr	Rank	Albert City	Lu Verne	Moorland	Paulina	Sioux Center	Webb
HOEGEMEYER	7485PCE	PCE	104	284.8	14.5	0	1165	1	301.4	298.4	277.8	265.1	284.1	281.8
PRAIRIE HYBRIDS	4470	CONV	106	277.1	14.8	0	1136	2	286.3	269.5	273.5	253.0	272.3	308.1
TITAN PRO	46-03 PCE	PCE	103	275.7	14.0	0	1136	3	287.5	256.8	271.2	257.2	288.5	292.8
JACOBSEN	JS0593PCE	PCE	105	274.6	15.9	0	1117	6	280.5	271.3	292.7	239.6	277.0	286.8
PRAIRIE HYBRIDS	EX8780	CONV	104	274.6	14.5	2	1128	4	266.1	262.3	298.0	251.3	279.0	291.0
FS INVISION	FS 5335P RIB	STXP	103	274.2	14.1	1	1126	5	288.6	266.3	267.8	258.3	272.2	291.7
TITAN PRO	44-06 PCE	PCE	106	272.9	15.3	0	1113	8	292.2	282.8	225.9	251.9	284.2	300.3
WYFFELS	W3309RIB	STXP	103	271.9	14.4	1	1116	7	286.6	275.1	257.2	249.7	266.5	296.5
RENK	RK705VT4P	VT4P	105	270.5	15.3	0	1105	9	268.9	289.8	272.4	258.0	278.4	255.4
PRAIRIE HYBRIDS	3054-3051	CONV	105	268.7	15.3	1	1094	13	279.9	268.1	270.0	228.2	269.1	297.1
WYFFELS	W3579RIB	STXP	105	268.5	14.5	0	1103	10	272.7	267.1	258.7	239.9	281.3	291.4
TITAN PRO	24-05 PCE	PCE	105	267.9	16.3	0	1087	17	256.4	250.4	276.2	263.2	284.8	276.5
INTEGRA	5443 DGV2P2RIB	VT2PDG	104	267.6	14.6	1	1100	11	270.8	256.6	252.1	270.4	275.5	280.0
ROB-SEE-CO	RC5209-D	D	102	267.4	15.4	0	1095	12	263.2	271.5	268.6	254.5	285.2	261.2
CORNELIUS	C6467PCE	PCE	104	266.3	14.9	0	1087	16	272.8	277.0	273.1	242.0	246.6	286.2
ROB-SEE-CO	RC5430-DGV2P	VT2PDG	104	264.9	13.9	2	1091	14	273.8	260.2	265.2	262.0	266.0	262.0
HOEGEMEYER	7591V	VE	105	264.6	14.4	0	1088	15	263.2	277.1	267.4	256.1	271.6	252.0
JACOBSEN	JS0342DGV2P	VT2PDG	102	263.8	14.4	1	1084	18	272.3	252.6	269.7	252.8	279.0	256.6
TITAN PRO	34-04 DG2P	VT2PDG	104	262.9	14.7	0	1078	21	279.9	260.5	271.6	236.0	263.3	265.8
EPLEY	E1340	CONV	103	262.6	13.9	1	1083	20	266.6	255.2	259.6	245.8	262.5	286.1
JACOBSEN	JS0414PCE	PCE	104	262.4	14.2	1	1076	23	251.1	255.4	266.6	255.5	254.6	291.2
FS INVISION	FS 5525VDG RIB	VT2PDG	105	262.4	15.0	1	1077	22	259.3	258.3	268.2	261.4	261.8	265.3
WYFFELS	W3286RIB	VT2P	103	261.1	14.8	0	1073	24	262.4	257.5	248.3	260.1	275.2	263.2
WYFFELS	W4439RIB	STXP	106	261.1	14.8	1	1067	26	262.8	275.2	242.9	232.4	255.0	298.1
FS INVISION	FS 5147T RIB	TRE	101	260.2	14.3	0	1069	25	278.0	255.2	246.7	263.9	257.7	259.8
DYNA-GRO	D44PN25RA	PCE	104	259.9	14.3	0	1066	27	254.3	279.4	245.1	228.1	263.1	289.3
PIONEER	P0339Q	QR	103	259.8	14.9	0	1062	30	265.9	263.7	241.9	235.6	279.3	272.2
GOLDEN HARVEST	G01U74-AA	AA	101	259.6	15.3	0	1062	29	262.0	269.5	256.5	239.4	279.3	250.9
ROB-SEE-CO	RC5694-VT2P	VT2P	106	259.5	14.9	0	1065	28	275.9	262.2	234.0	241.5	274.2	269.0
PIONEER	P0688AM CK	AM	106	260.1	15.4	0	1060	31	262.0	261.0	257.1	248.0	258.2	274.0
Averages =				262.1	14.8	1	1074		266.8	261.3	255.4	248.5	269.8	271.4
LSD (0.10) =				9.9	0.5	ns			17.9	16.1	15.9	13.0	17.5	21.2
LSD (0.25) =				5.2	0.3	ns			9.4	8.4	8.3	6.8	9.2	11.1

Nick Hoffman

nick.hoffman@firstseedtests.com, (308) 730-7503

Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.04

Prices: GMO = \$4.13

Prev. years average yield for region: 204.0 bu/a, 25 yr(s)

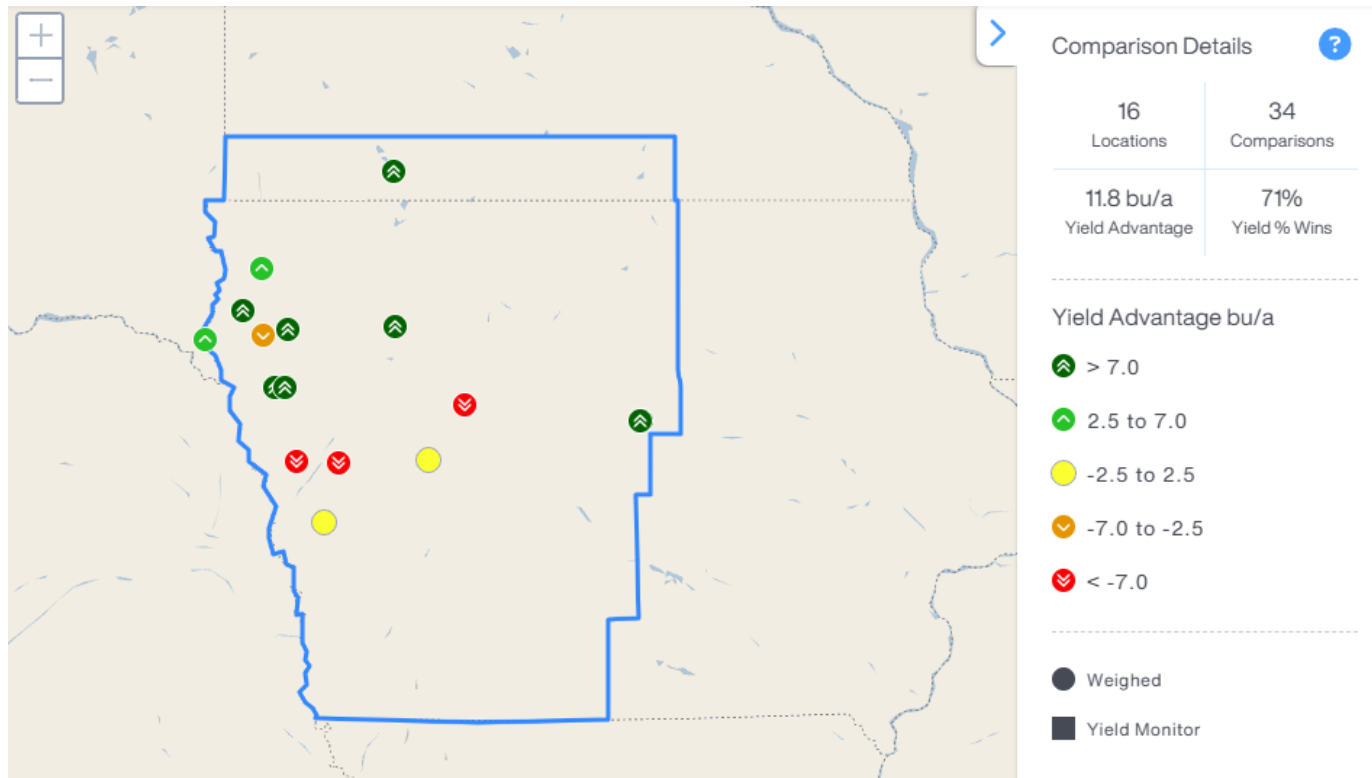
† See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. **Bold** yields are significantly above test average by LSD(0.10). **Italicized** brands exceed the grain moisture limit for this test. **ns** = column values not significantly different. www.firstseedtests.com

Additional reports available at www.firstseedtests.com

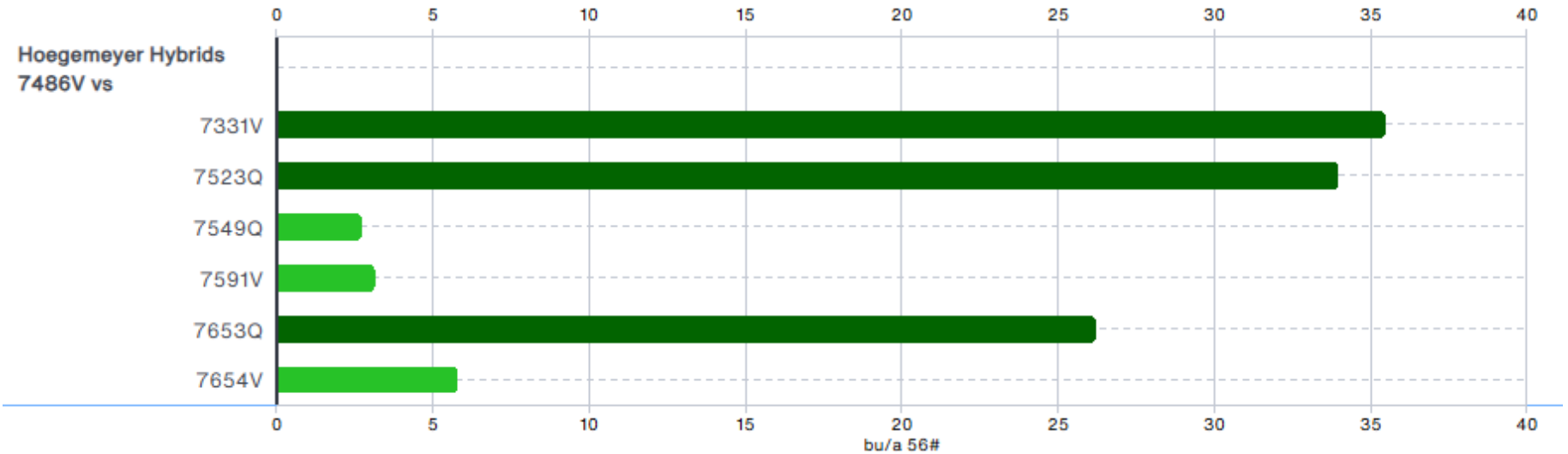
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Report Date: 10/23/2024

7486 V vs All (+/- 2RM)



7486 V Head to Heads



7485 PCE

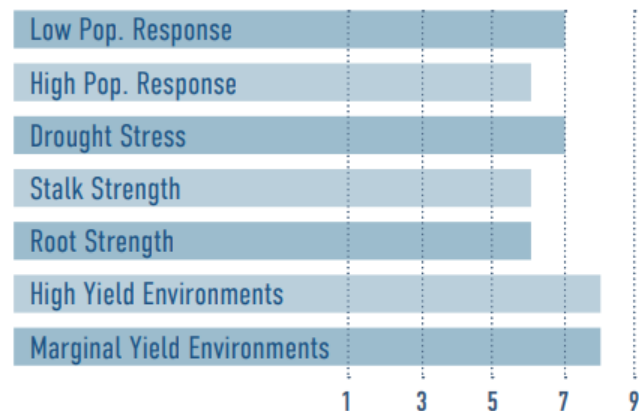


Availability: Limited availability: Limited

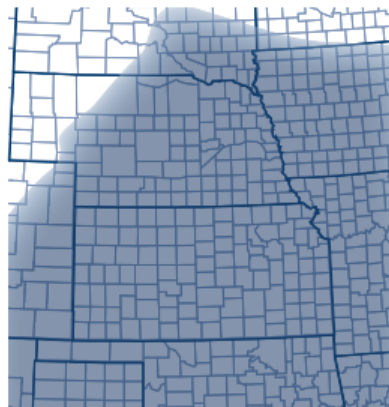
NEW
7590 PCE™

NEW
7591 V™

AGRONOMICS



RECOMMENDED GEOGRAPHY



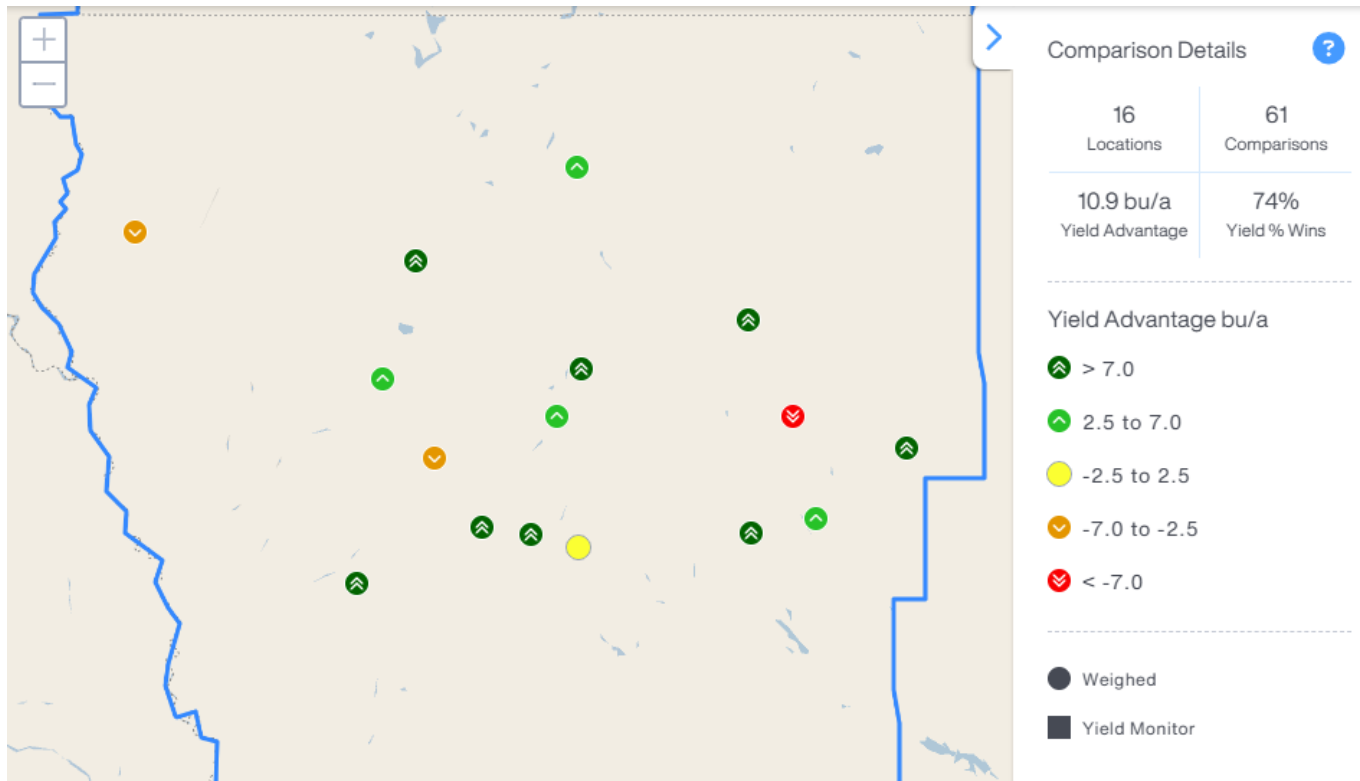
105 RM – 2420 HEAT UNITS

- Versatile new genetic brand family that fits a wide range of growing environments
- Features top-end yield potential, ear flex, and drought tolerance
- Potential utility as a dual-purpose grain/silage hybrid

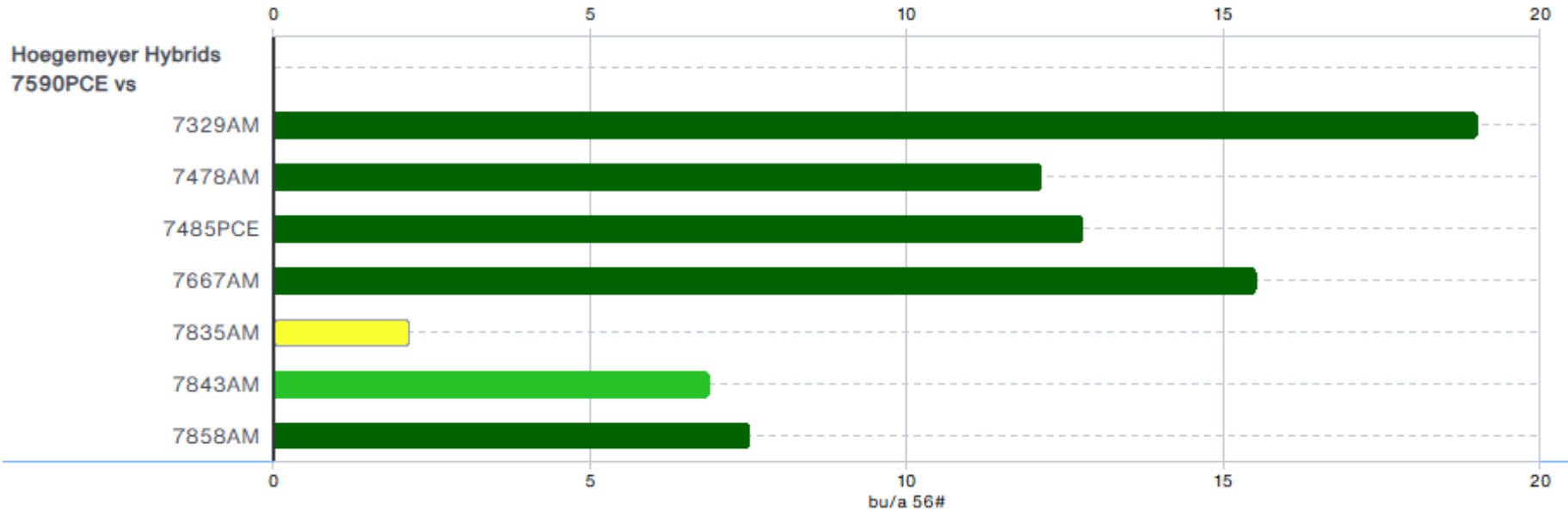


Silage MAX

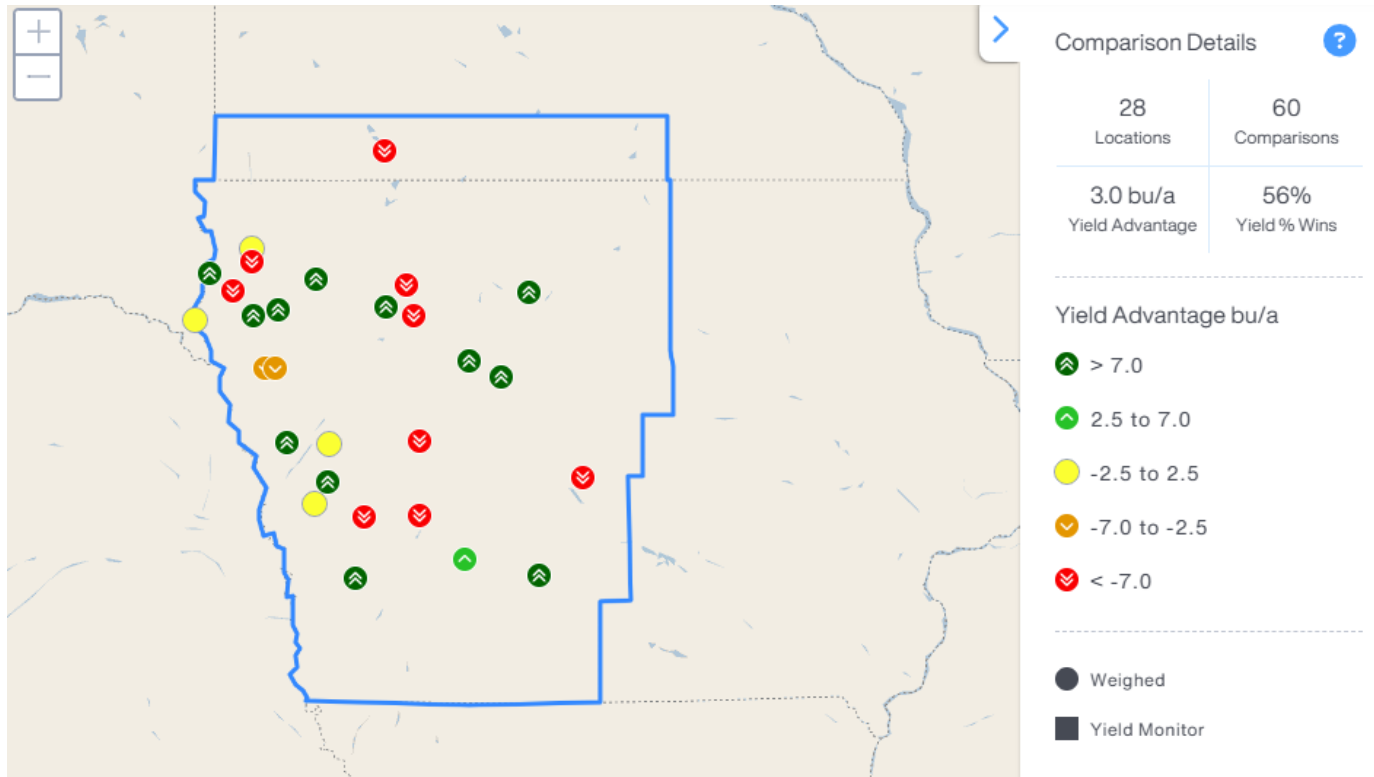
7590 PCE vs All (+/- 2RM)



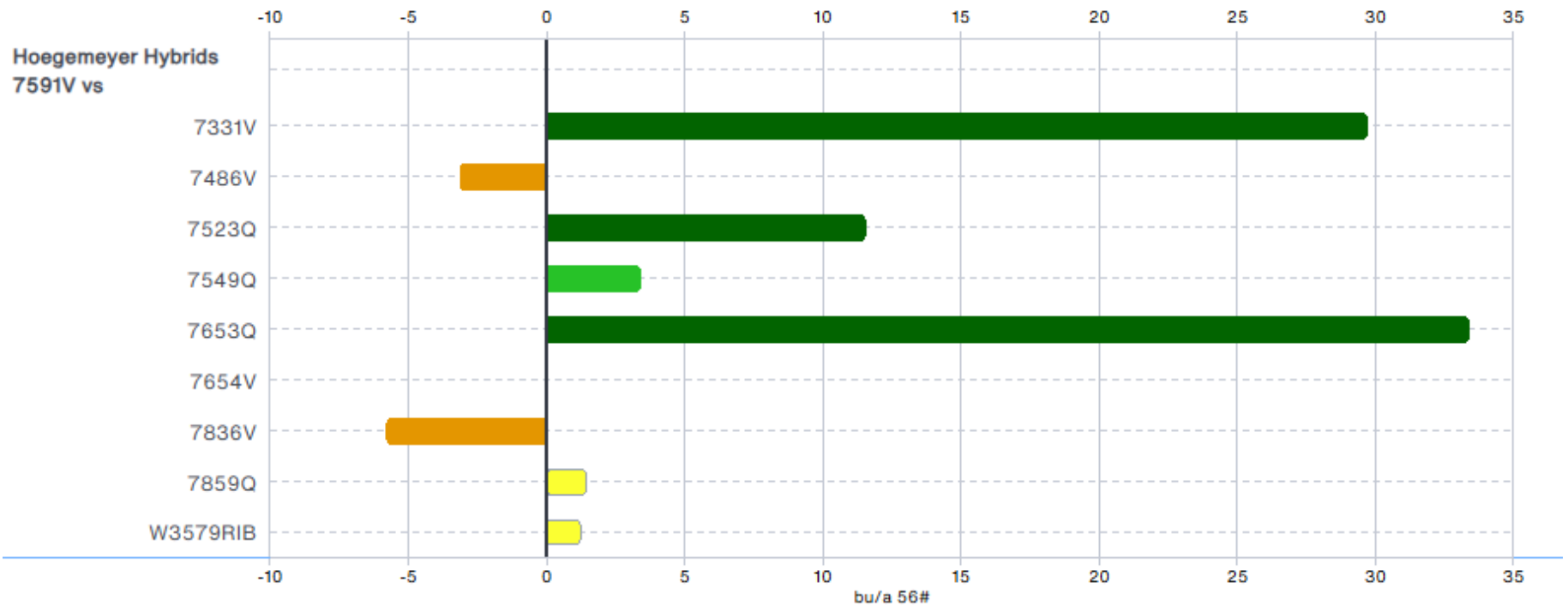
7590 PCE Head to Heads



7591 V vs All (+/- 2RM)



7591 V Head to Heads



7591 V



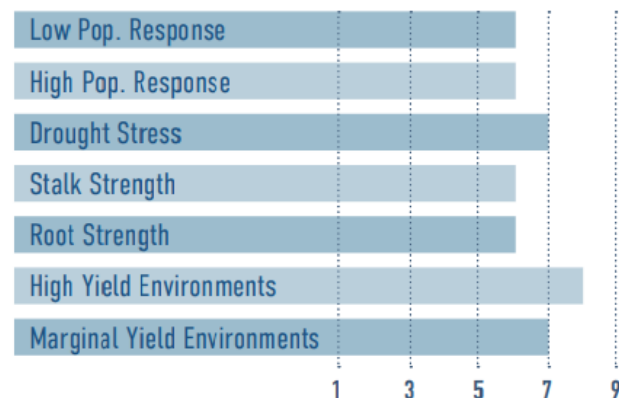
7485 PCE vs 7590 PCE



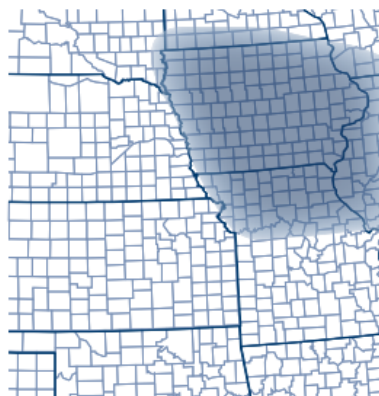
Availability: Good

NEW
7654 V™

AGRONOMICS



RECOMMENDED GEOGRAPHY

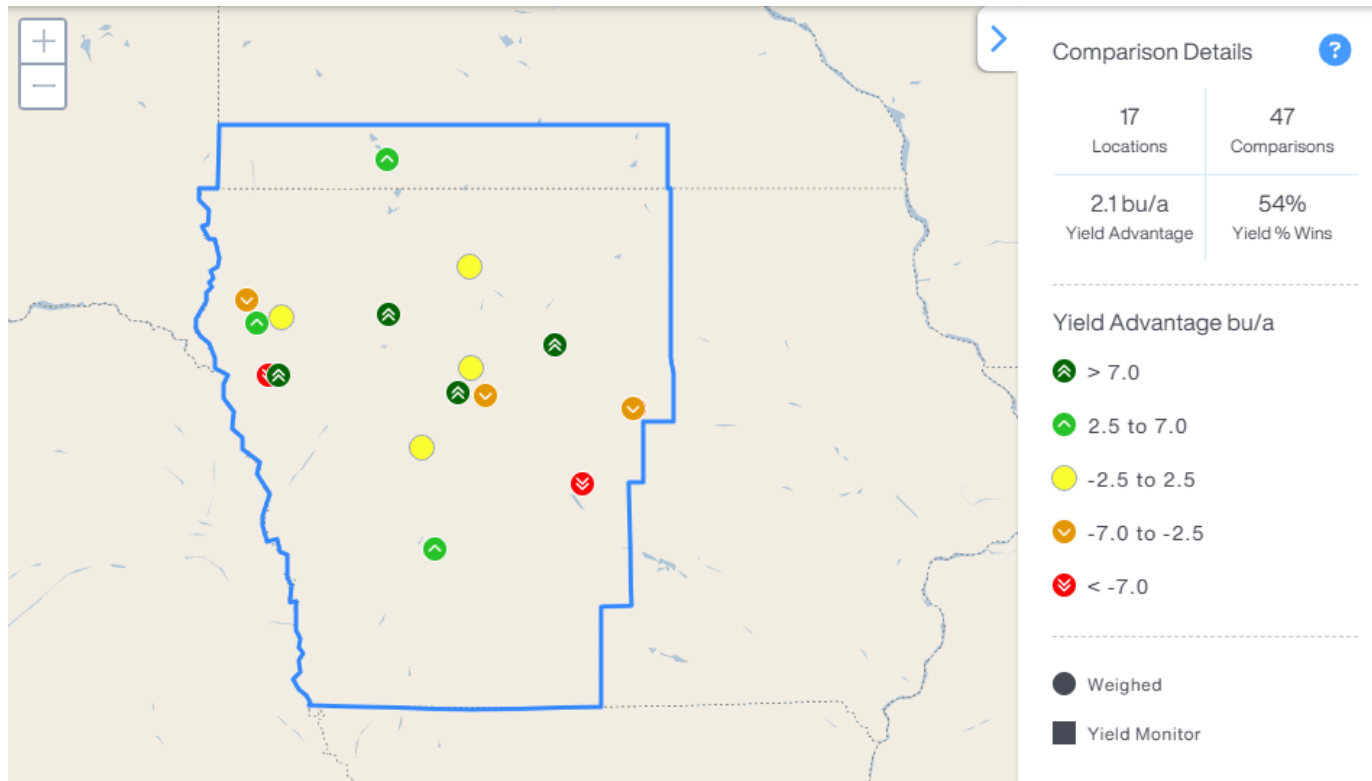


106 RM – 2560 HEAT UNITS

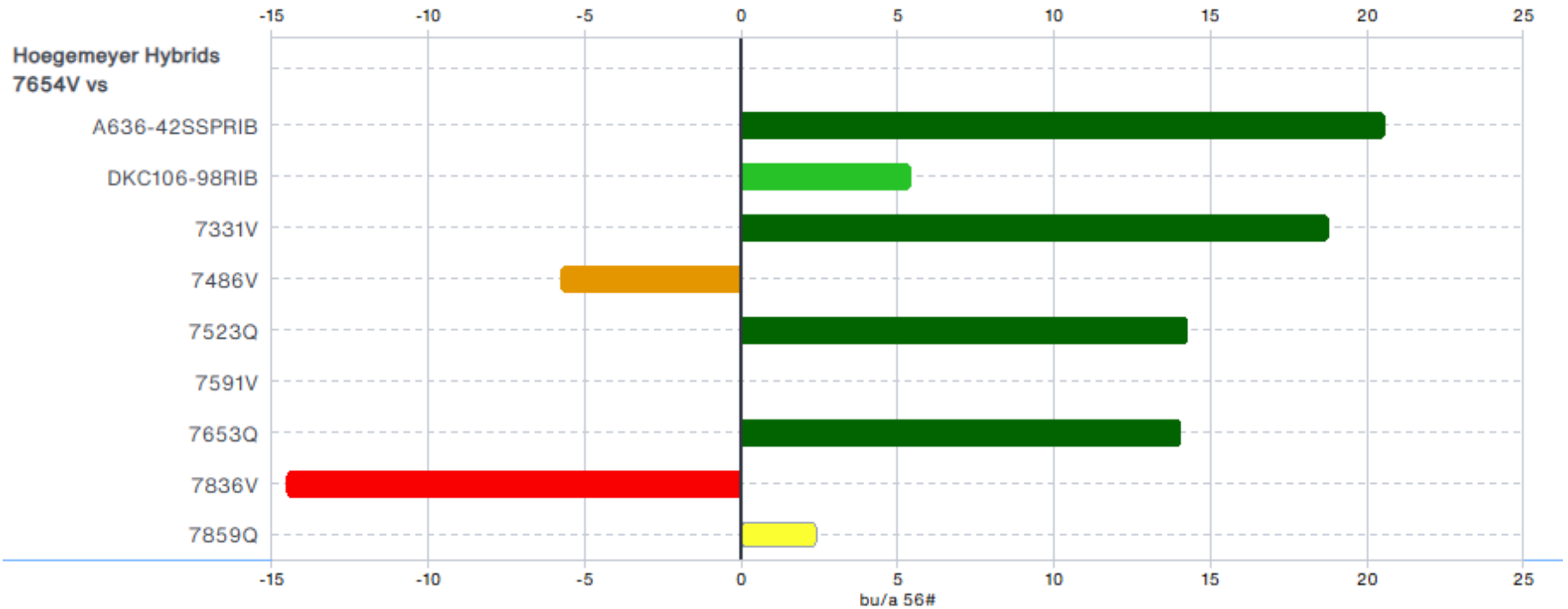
- Same base genetics as 7653 Q upgraded to the Vorceed® Enlist® trait package
- Outstanding option for Iowa and eastern South Dakota with next-level protection against corn rootworm
- Good drought tolerance
- Strong emergence for high residue fields

- ▶ 7654 V replaces 7653 Q with data showing a 10–12 bushel/acre advantage to 7654 V

7654 V vs All (+/- 2RM)



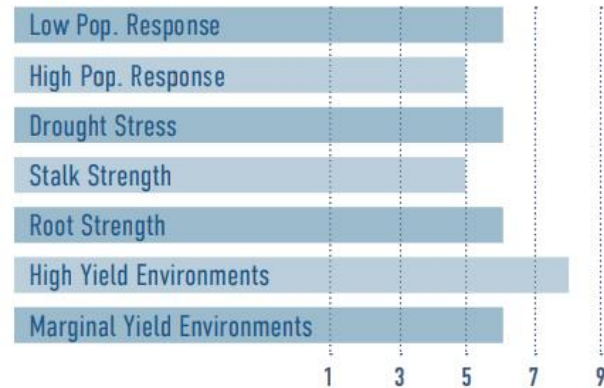
7654 V Head to Heads



Availability: Good

7667 AM™

AGRONOMICS



RECOMMENDED GEOGRAPHY



106 RM – 2600 HEAT UNITS

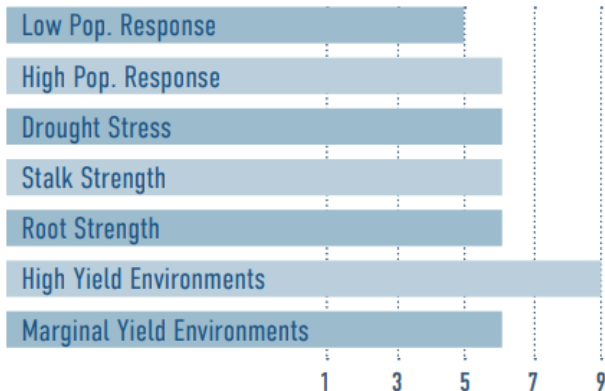
- High yield potential in a 106 day hybrid
- Best suited in highly productive fields
- Good root strength and strong disease package

- ▶ Good performance and good availability if 104–105 RM supplies are tight

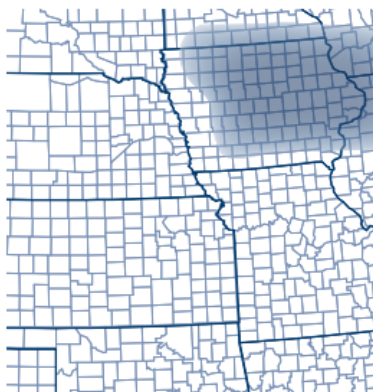
Availability: Limited Availability: Limited

7835 AM™ **NEW 7836 V™**

AGRONOMICS



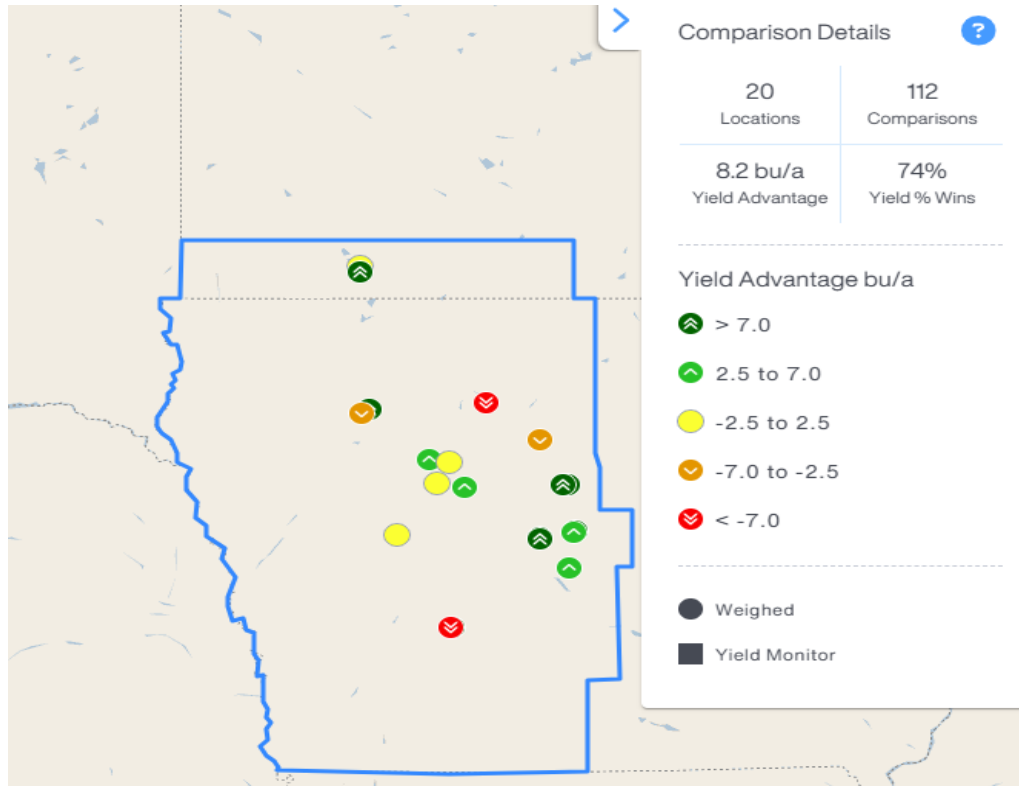
RECOMMENDED GEOGRAPHY



108 RM – 2600 HEAT UNITS

- Top-end yield potential with excellent adaptation to central Iowa
- Strong disease package with good observations on Tar Spot tolerance
- Good root strength and stress emergence

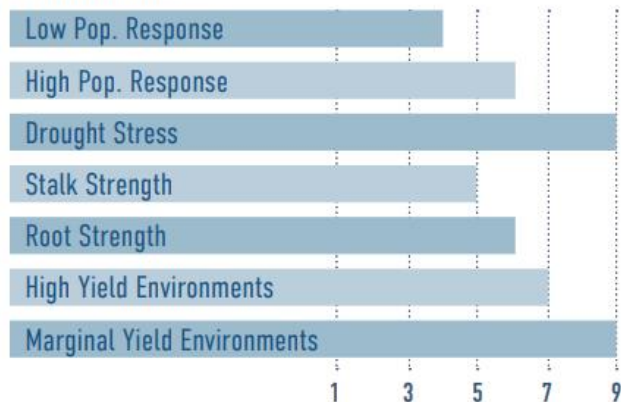
(2023 & 2024 data) 7835 AM vs All (+/- 2RM)



Availability: Good Availability: Good

7858 AM™  **7859 Q™** 

AGRONOMICS



RECOMMENDED GEOGRAPHY



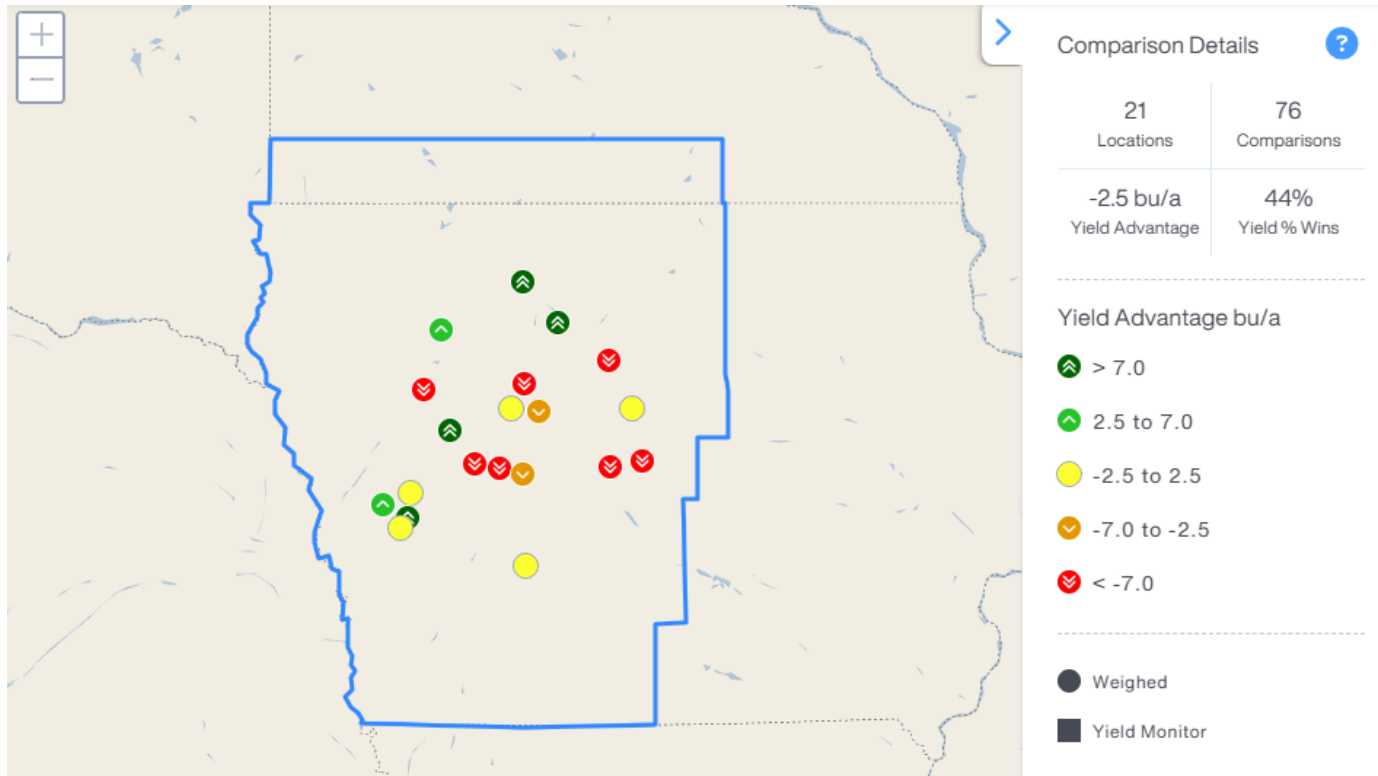
108 RM – 2680 HEAT UNITS

- Versatile genetic platform that works across many growing environments
- Optimum AQUAmax drought tolerance
- Good root strength and greensnap tolerance
- Best performance at aggressive planting populations

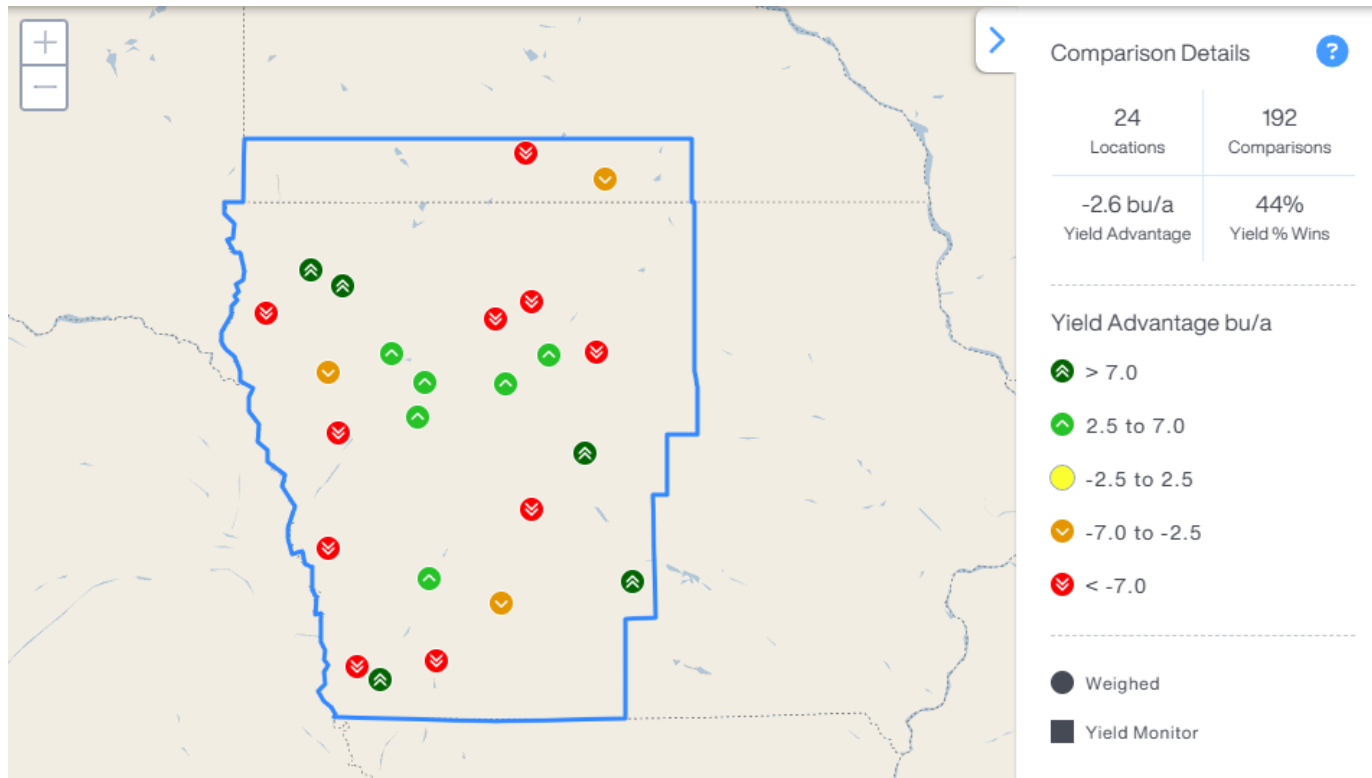
7858 AM



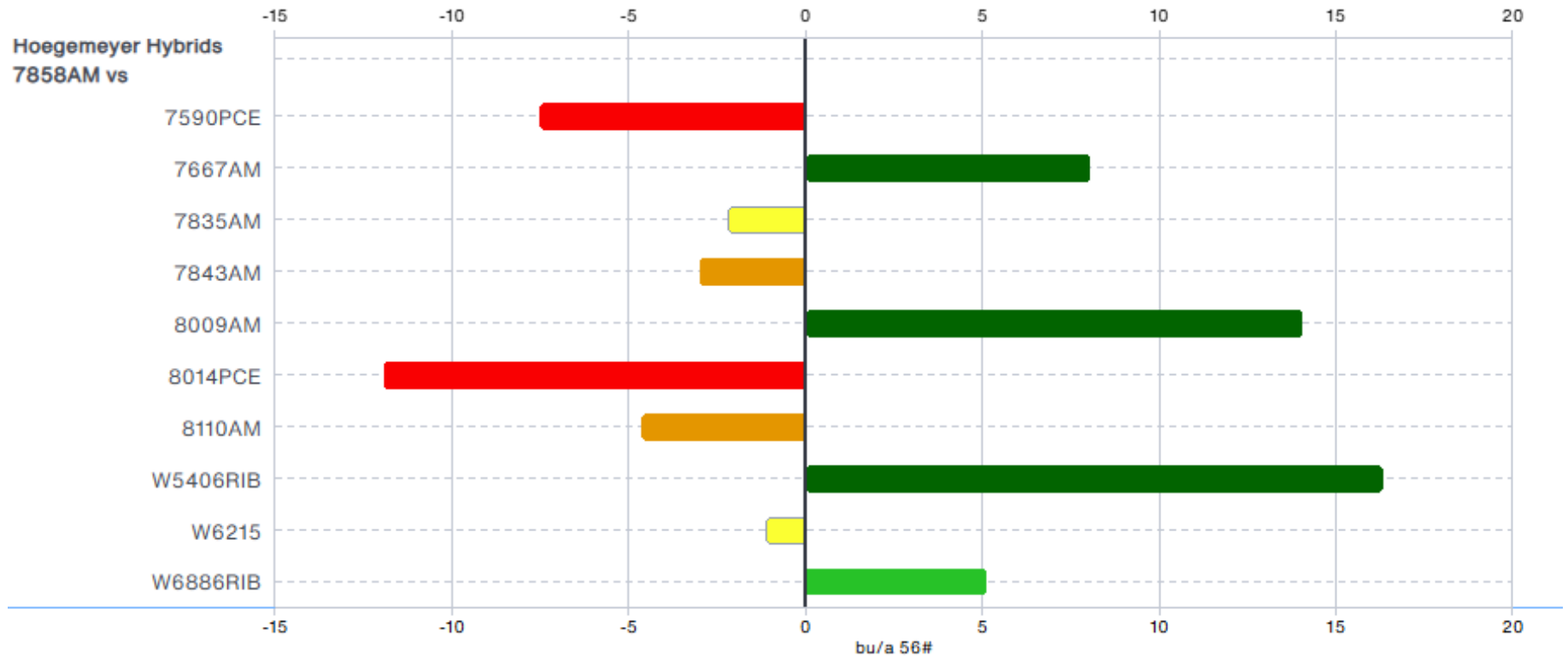
7858 AM vs All (+/- 2RM)



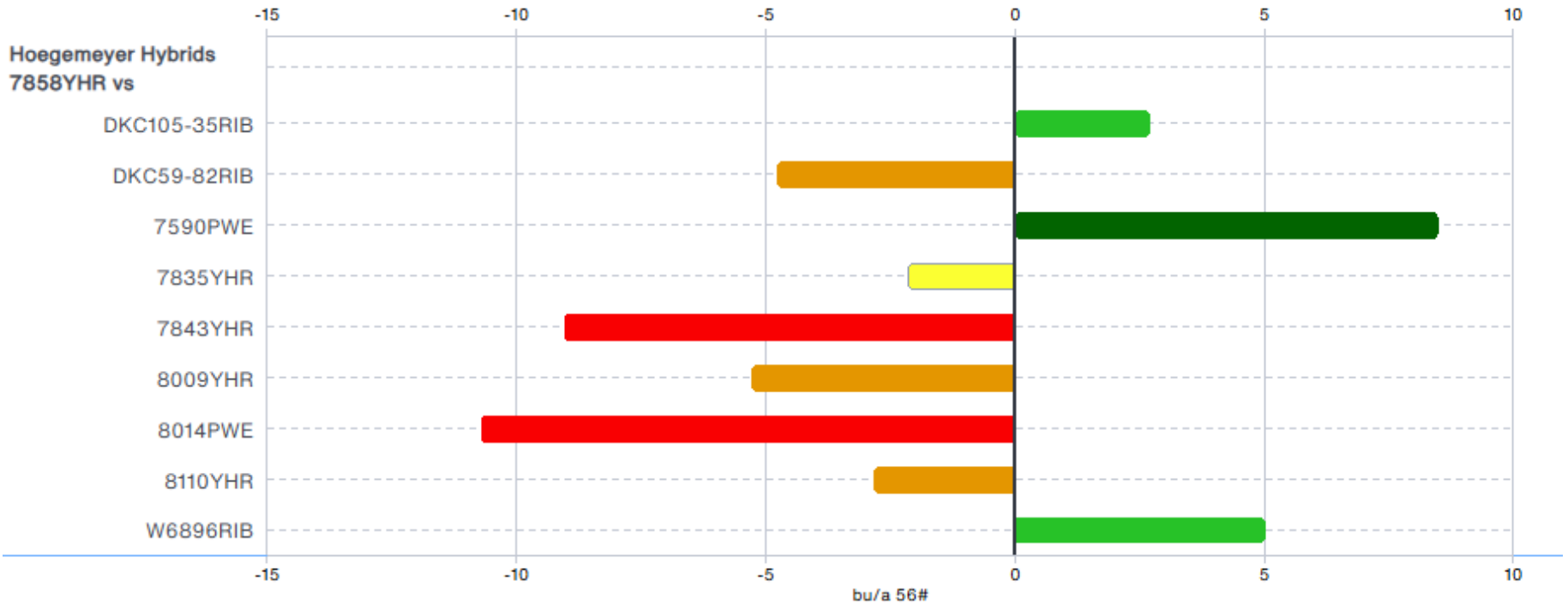
7858 AM vs All (+/- 2RM)



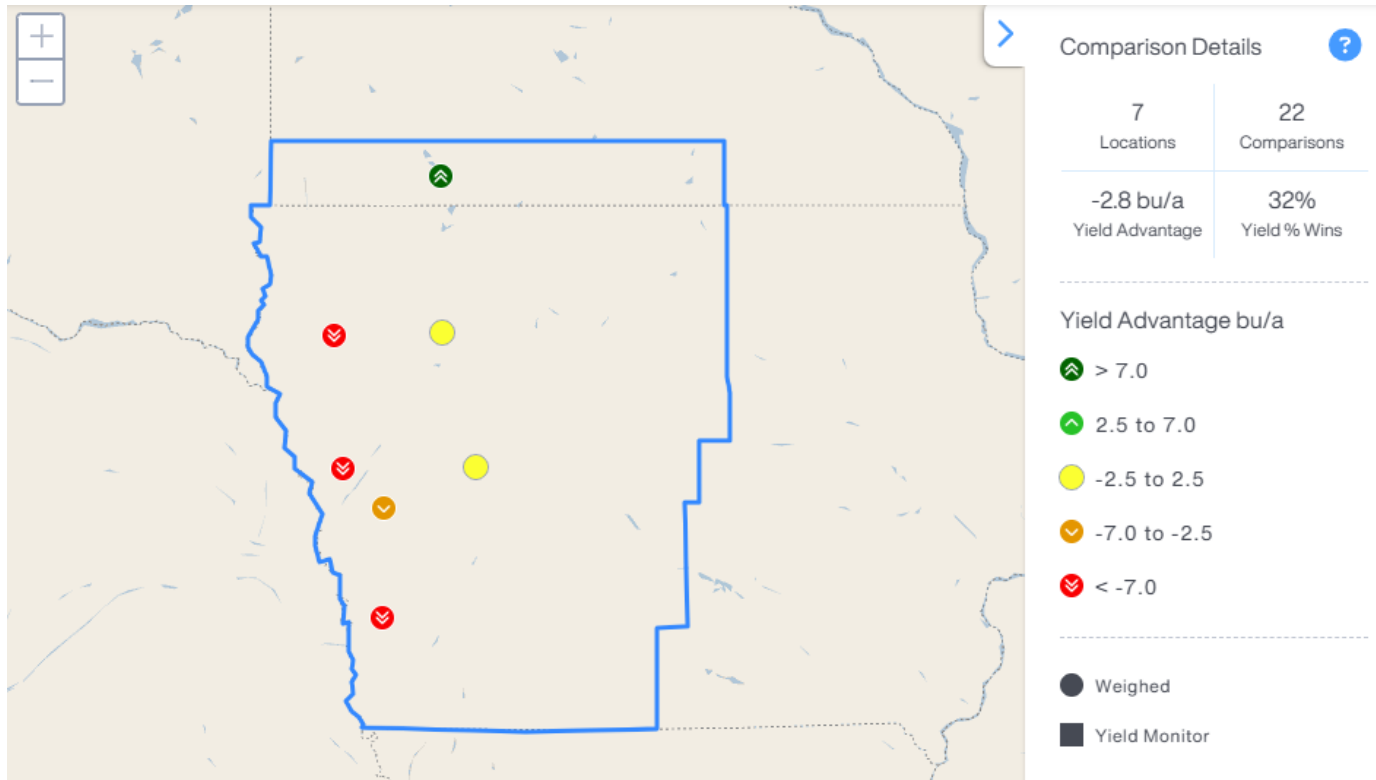
7858 AM Head to Heads



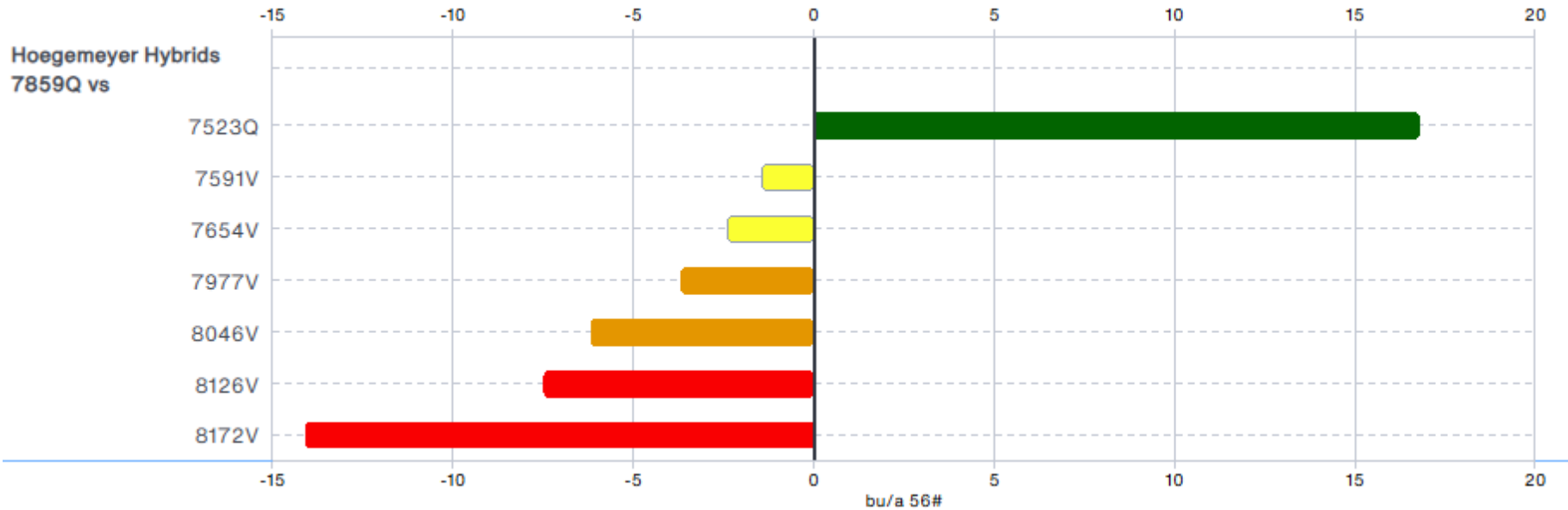
7858 AM Head to Heads



7859 Q vs All (+/- 2RM)



7859 Q Head to Heads



Availability: Good

NEW
8046 V™

AGRONOMICS

Low Pop. Response

High Pop. Response

Drought Stress

Stalk Strength

Root Strength

High Yield Environments

Marginal Yield Environments

1 3 5 7 9

RECOMMENDED GEOGRAPHY



110 RM – 2680 HEAT UNITS

- New Vorceed® Enlist® brand hybrid with good standability
- Broadly adapted across the corn belt with an early silking date
- Good ear flex

7486 V, 7591 V, 8014 PCE, 8046 V



8046 V

first farmers' independent
research of seed
technologies

Test by: F.I.R.S.T. CCB, Inc. Elizabeth, IL

2024 Corn Grain Top 30 Harvest Report

Iowa West Central [IAWC] OAKLAND, IA
Mark & Keith Bentley, Pottawattamie County, IA 51560

Early-Season Test

105 - 110 Day CRM
B2024IAWC23a

Top 30 of 30

For Gross Income
(Sorted by Yield)
Average of (3) Replications

PREV. CROP/HERB:

Soybeans / Authority Supreme,
Liberty, Roundup, Clethodim

SOIL DESCRIPTION:

Marshall silty clay loam, well
drained, non-irrigated

SOIL CONDITION:

No-Till, very high P, very high K,
5.5 pH, 3.2% OM, 20.6 CEC

PEST MANAGEMENT:

Acuron, Status, Veltyma

FERTILITY - Applied N:

190 Spring

Applied N-P-K (units):

190-0-0

SEEDED - RATE - ROW:

May 10 35.0 /A 30" spacing

HARVESTED - STAND:

Oct 17 32.0 /A

TEST COMMENTS:

Planting conditions were very good. The plot received some good rains to start and emerged well. Light tar spot could be seen in the plot. In early July, the plot had over 2 3/4 inches of rain from one storm with clocked 100 mph winds. This caused some green snap in the plot. There was no root lodging. The plants not affected were standing strong and well-matured. At harvest, winds were around 40 mph. These were tall plants with large girthy ears, pollinated well. Ear shanks were getting weak. The overall look of the plot was great until you found the spots with green snap. This area also is seeing rapid dry-down.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Hoegemeyer	8014PCE ↗	PCE	110	279.4	13.2	1	30.9	1190	2
Renk	RK800VT4PRO ↗	VT4P	110	265.0	13.8	1	32.9	1129	3
Hoegemeyer	8046V ↗	VE	110	263.5	14.2	1	30.9	1123	4
Rob-See-Co	KC6026-PCE ↗	PCE	110	261.5	13.2	1	30.9	1114	5
FS InVision	FS 6025X RIB ↗	STX	110	260.7	13.6	1	32.9	1111	6
FS InVision	FS 6042F RIB ↗	VT4P	110	259.8	13.5	1	31.9	1107	7
Wyffels	W6479 ↗	STXP	110	256.1	13.1	1	32.9	1091	8
FS InVision	FS 5935X RIB ↗	STX	109	253.8	13.4	1	31.9	1081	9
Integra	6061 SSRIB ↗	STX	110	249.7	13.4	2	30.9	1064	10
Hoegemeyer	7591V ↗	VE	105	249.6	12.7	1	31.9	1063	11
Dyna-Gro	D49PN05RA ↗	PCE	109	248.1	12.7	1	32.9	1057	12
Merschman	2408C-30 GC ↗	PCE	108	247.6	12.7	1	30.0	1055	13
FS InVision	FS 5949PC RA ↗	PCE	109	246.9	12.8	1	31.9	1052	14
Cornelius	C7026PCE ↗	PCE	110	245.0	13.6	1	33.8	1044	15
Integra	5935PCE ↗	PCE	109	244.7	12.5	1	31.9	1042	16
Cornelius	C7021DP ↗	VT2P	110	244.6	13.5	1	31.9	1042	17
Pioneer	P0529Q GC ↗	QR	105	238.6	12.6	1	31.9	1016	18
Wyffels	W5406RIB ↗	VT2P	108	237.0	14.4	1	31.9	1010	19
Dyna-Gro	D50SP65RIB ↗	STXP	110	236.9	13.3	5	32.9	1009	20
Hoegemeyer	7836V ↗	VE	108	233.5	13.1	1	30.9	995	21
Integra	5802 VT2PRIB ↗	VT2P	108	230.9	13.0	9	30.9	984	22
FS InVision	FS 5947T RIB ↗	TRE	109	223.3	13.2	38	34.8	951	23
LG Seeds	LG58C48VT2PRIB GC ↗	VT2P	108	222.7	13.1	7	30.9	949	24
Golden Harvest	G08U00-V ↗	V	108	220.7	13.4	7	30.9	940	25
Renk	RK773TRE ↗	TRE	109	198.8	12.8	38	33.8	847	26
Wyffels	W6505 ↗	TRE	110	195.3	13.9	33	33.8	832	27
Wyffels	W6215RIB ↗	TRE	109	190.1	13.5	30	30.9	810	28
Renk	RK766SSPRO ↗	STXP	109	185.2	13.3	30	32.9	789	29
Rob-See-Co	RC5768-VT2P ↗	VT2P	107	181.9	12.8	33	30.9	775	30
PIONEER	P1027AM CK	AM	110	287.1	13.4	1	31.9	1223	1
				Averages =	238.6	13.3	8	32.0	1016
				LSD (0.10) =	15.4	0.5	14		
				LSD (0.25) =	8.0	0.3	7		
				C.V. =	6.1				
				Historic yield: 227.41 bu/a, 14 yr(s)					

Randy Meinsma

randym@firstseedtests.com, (815) 238-8007

Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.04

Prices: GMO = \$4.26

† See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. **Bold** yields are significantly above test average by LSD(0.10). **Italicized** brands exceed the grain moisture limit for this test. **ns** = column values not significantly different. ↗ Links to full product yield results at www.firstseedtests.com

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Report Date: 10/17/2024

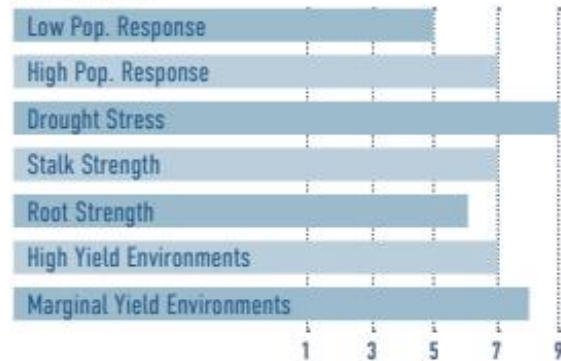
Additional reports available at www.firstseedtests.com

8231™💧

8233 AM™💧

8235 Q™💧

AGRONOMICS



RECOMMENDED GEOGRAPHY



112 RM – 2630 HEAT UNITS

- Proven genetics with maximum versatility
- Optimum AQUAmax drought tolerance
- Excellent standability
- Heavy test weight with Food Grade opportunities



Silage MAX

Availability: Good Availability: Sold Out

NEW
8262 PCE™ **NEW**
8263 V™

AGRONOMICS



RECOMMENDED GEOGRAPHY



112 RM – 2710 HEAT UNITS

- New genetics adapted to the Missouri River corridor and areas to the east
- Moderate stature with good root strength
- Strong Northern Leaf Blight tolerance with good observations on Tar Spot
- Avoid fields with a history of Goss's Wilt



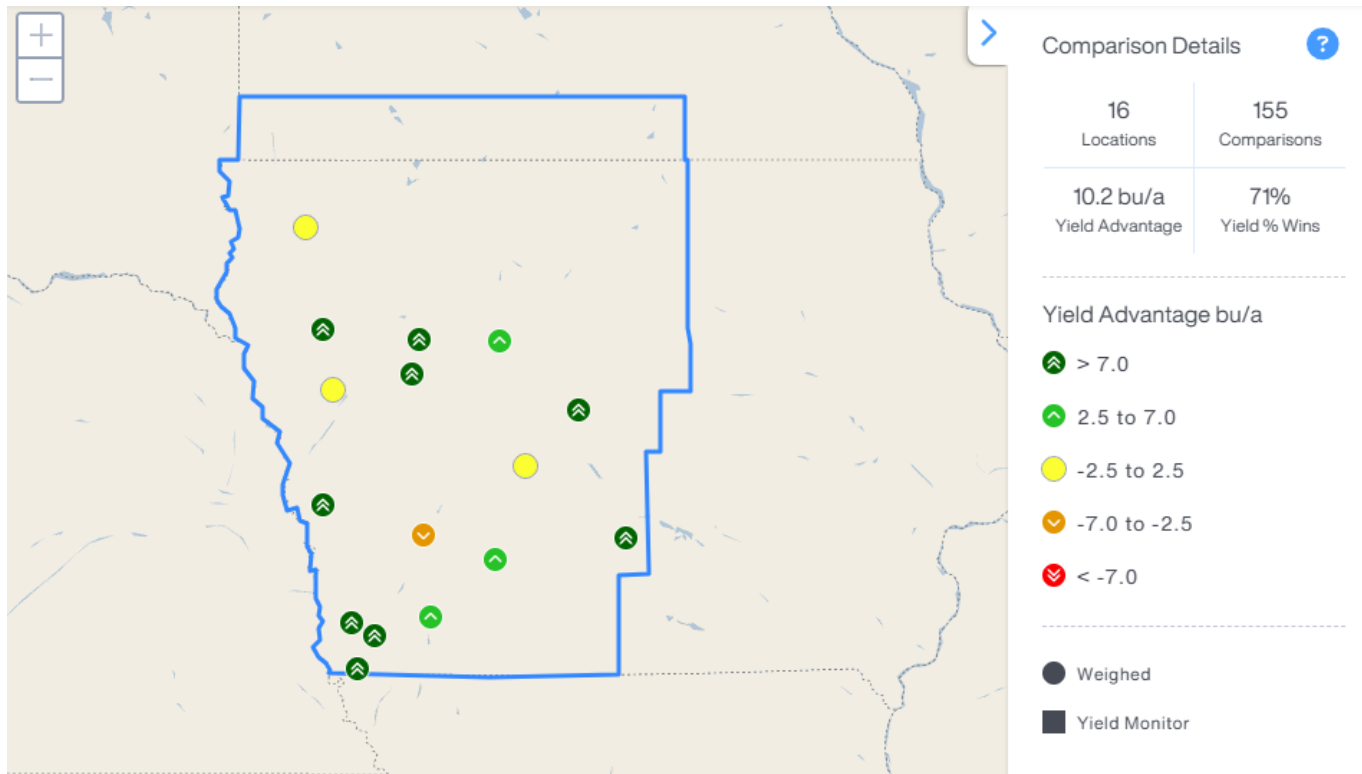
Silage MAX

- ▶ 8263 V has been discontinued due to Goss's Wilt concerns with corn-on-corn acres
- ▶ Moves east in region very well.

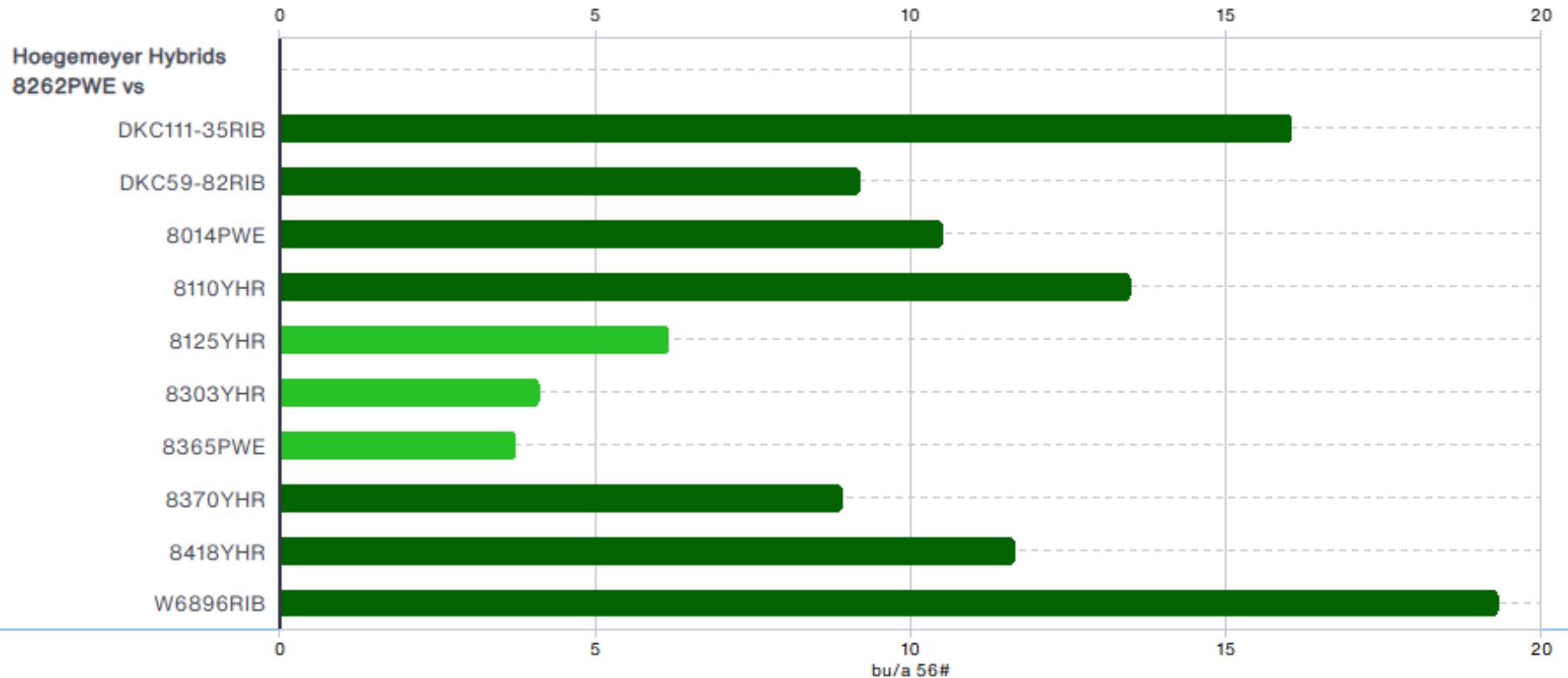
8263 V, 8366 V, 8685 V, 8813 V



8262 PCE vs All (+/- 2RM)



8262 PCE Head to Heads



8262 PCE & 8366 V



Test by: F.I.R.S.T. CCB, Inc. Elizabeth, IL

2024 Corn Grain Top 30 Harvest Report

Iowa West Central [IAWC] OAKLAND, IA
Mark & Keith Bentley, Pottawattamie County, IA 51560

Full-Season Test 111 - 115 Day CRM
B2024IAWC23b

Top 31 of 36 For Gross Income
(Sorted by Yield)
Average of (3) Replications

PREV. CROP/HERB: Soybeans / Authority Supreme,
Liberty, Roundup, Clethodim

SOIL DESCRIPTION: Marshall silty clay loam, well
drained, non-irrigated

SOIL CONDITION: No-Till, very high P, very high K,
5.5 pH, 3.2% OM, 20.6 CEC

PEST MANAGEMENT: Acuron, Status, Veltyma

FERTILITY - Applied N: 190 Spring

Applied N-P-K (units): 190-0-0

SEEDING - RATE - ROW: May 10 35.0 /A 30" spacing

HARVESTED - STAND: Oct 17 32.2 /A

TEST COMMENTS:

Planting conditions were very good. The plot received some good rains to start and emerged well. Light tar spot could be seen in the plot. In early July, the plot had over 2 3/4 inches of rain from one storm with clocked 100 mph winds. This caused some green snap in the plot. There was no root lodging. The plants not affected were standing strong and well-matured. At harvest, winds were around 40 mph. These were tall plants with large girthy ears, pollinated well. Ear shanks were getting weak. The overall look of the plot was great until you found the spots with green snap. This area also is seeing rapid dry-down.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Renk	RK825VT4P ↗	VT4P	112	271.0	14.5	1	31.9	1154	2
Hoegemeyer	8262PCE ↗	PCE	112	268.1	13.7	1	33.8	1142	4
Wynnels	W8086RIB ↗	VT2P	114	267.9	15.0	1	31.9	1141	5
FS InVision	FS 6349PC RA ↗	PCE	113	266.6	15.0	1	31.9	1136	6
FS InVision	FS 6432P RIB ↗	STXP	114	264.7	14.4	1	31.9	1128	7
Wyffels	W7485 ↗	TRE	112	263.4	14.1	2	32.9	1122	8
Titan Pro	33-12 PCE ↗	PCE	112	261.1	14.1	1	31.9	1112	9
Golden Harvest	G15U34-V ↗	V	115	260.4	15.0	1	32.9	1109	10
Dyna-Gro	D54VC05RIB ↗	VT2P	114	260.2	13.8	1	32.9	1100	14
Hoegemeyer	8366V ↗	VE	113	258.7	14.8	1	30.9	1102	12
Wynnels	W7755RIB ↗	STXP	113	258.1	14.3	1	31.9	1100	13
DeKalb	DKC66-06RIB GC ↗	TRE	116	257.1	15.8	1	30.9	1087	14
Titan Pro	40-13 PCE ↗	PCE	113	255.2	14.7	2	32.9	1087	15
Epley	E2215SS ↗	STX	112	253.3	14.4	2	31.9	1079	16
Integra	6244PCE ↗	PCE	112	252.6	13.4	1	31.9	1076	17
Rob-See-Co	RC6392-PCE ↗	PCE	113	250.6	14.5	1	31.9	1068	18
Golden Harvest	G12U11-AA ↗	AA	112	250.4	14.0	1	31.9	1067	19
Rob-See-Co	RC6539-VT2P ↗	VT2P	115	250.3	14.8	1	30.9	1066	20
Renk	RK876VT2P ↗	VT2P	113	248.9	15.3	1	31.9	1057	22
Dyna-Gro	D53VC54RIB ↗	VT2P	113	248.5	14.6	1	32.9	1059	21
Renk	RK921VT2P ↗	VT2P	115	245.8	14.9	1	33.8	1047	23
Integra	6365SSPRO ↗	STXP	113	244.7	14.6	1	31.9	1042	24
Merschman	2512C-30 GC ↗	PCE	112	244.5	14.6	3	32.9	1042	25
FS InVision	FS 6217X RIB ↗	STX	112	243.8	14.8	1	32.9	1039	26
Wyffels	W7876RIB ↗	VT2P	114	239.2	14.7	2	32.9	1019	27
Rob-See-Co	RC6131-TRE ↗	TRE	111	236.4	13.8	2	31.9	1007	28
Renk	RK958VT2P ↗	VT2P	115	234.3	14.7	1	30.9	998	29
FS InVision	FS 6447T RIB ↗	TRE	114	232.2	15.1	7	30.0	989	30
Dyna-Gro	D53SP85RIB ↗	STXP	113	231.2	14.2	4	33.8	985	31
PIONEER	P1027AM CK	AM	110	288.5	14.0	1	32.9	1229	1
Averages =				247.7	14.5	3	32.2	1055	
LSD (0.10) =				12.5	0.5	9			
LSD (0.25) =				6.5	0.3	5			
C.V. =				4.8					
Historic yield: 227.41 bu/a, 14 yr(s)									
Yield & Income Factors:				Base Moisture = 15.0%		Shrink = 1.3		Drying = \$0.04	
								Prices: GMO = \$4.26	

† See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. **Bold** yields are significantly above test average by LSD(0.10). **Italicized** brands exceed the grain moisture limit for this test. **ns** = column values not significantly different. ↗ Links to full product yield results at www.firstseedtests.com

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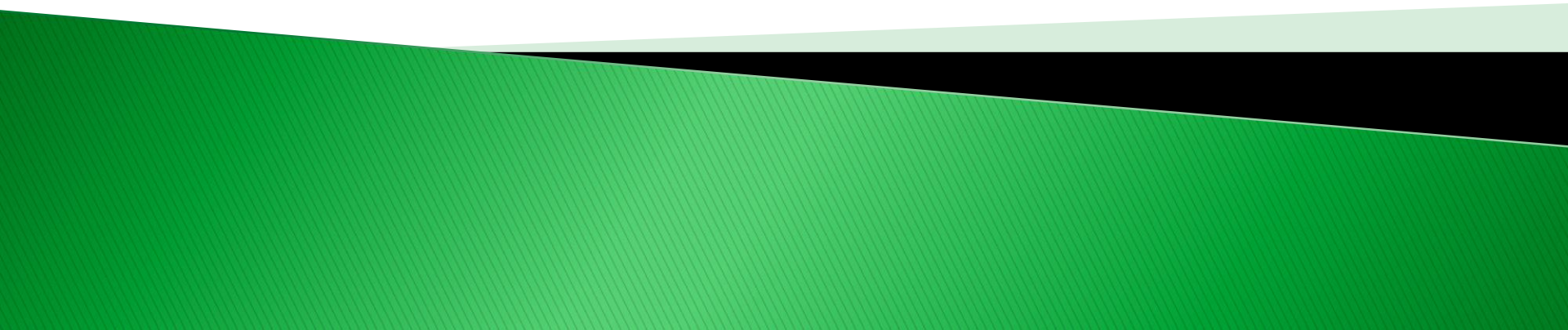
Report Date: 10/17/2024

Additional reports available at www.firstseedtests.com



2024 Soybean Yield Performance

Fall 2024



Meet Enlimited Grade

- ▶ A **selective** approach to designating our new elite products that offer a step change with the following:

1. IMPROVED AGRONOMIC SCORES

plus

2. INCREASED YIELD POTENTIAL

while ensuring

3. WIDELY ADAPTED



1865 E

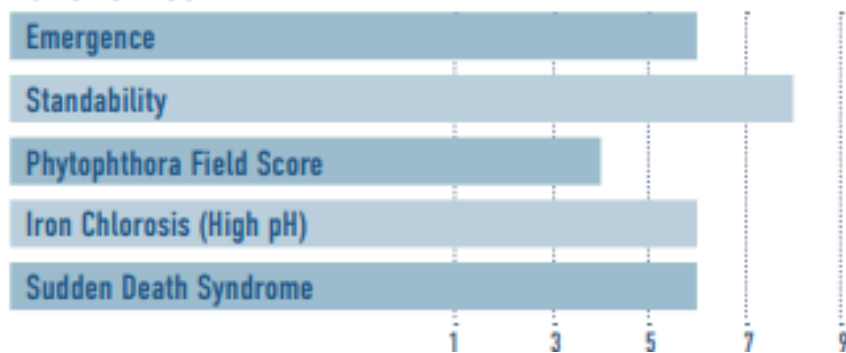
Availability: Good

1.8 RM

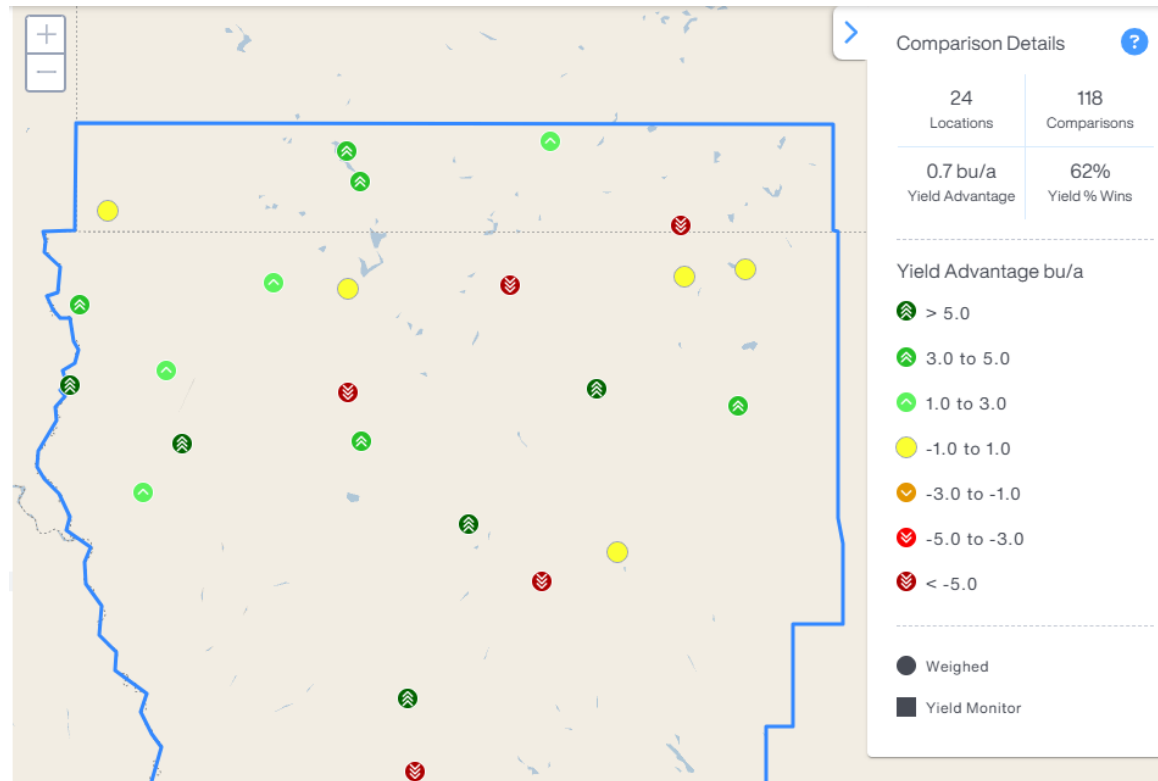
- Targeted placement for SCN, IDC, and SDS prone acres
- Peking SCN with very good iron chlorosis tolerance
- Excellent standability with good plant height
- Good choice for marginal soil types

► White Mold = 4

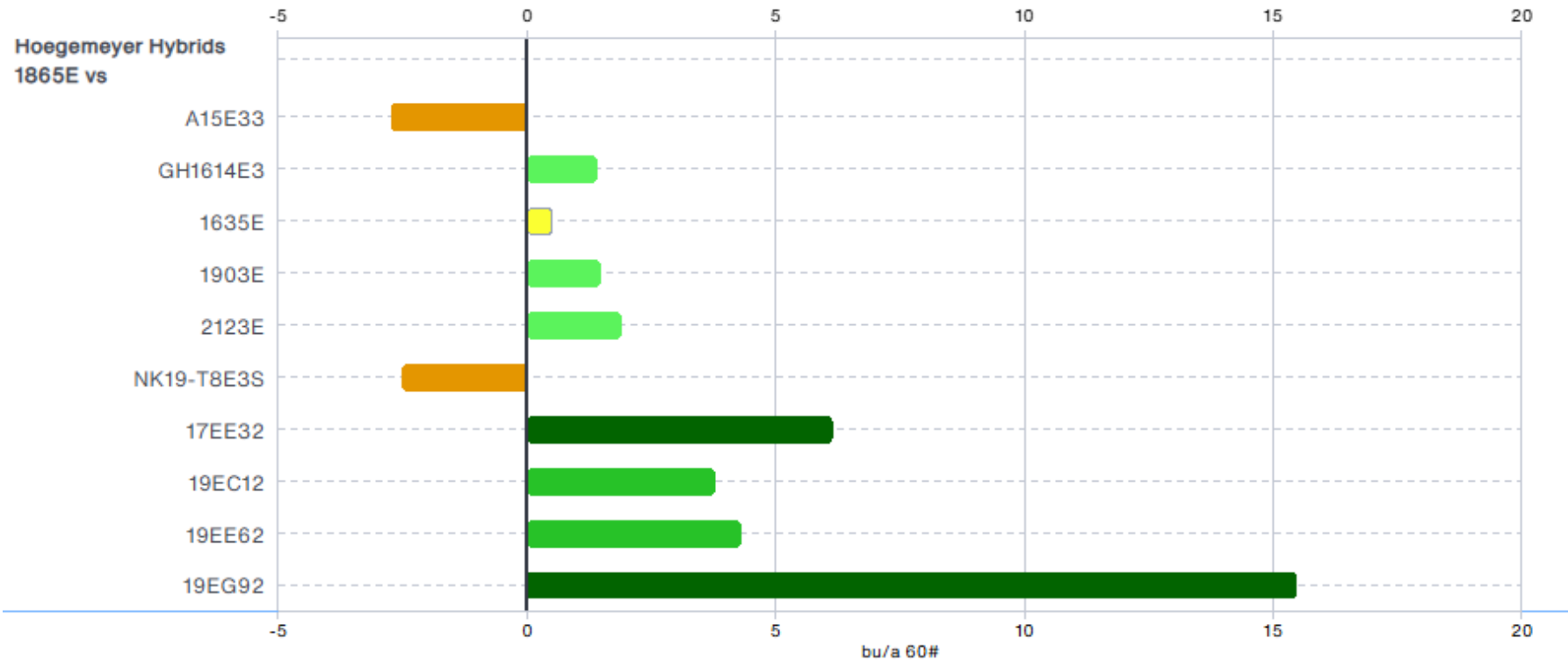
AGRONOMICS



1865 E vs All (+/- 2 RM)



1865 E Head to Heads

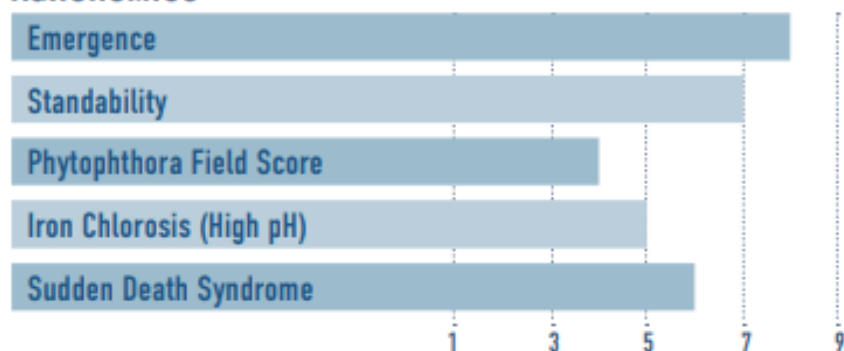


1903 E

1.9 RM

- Premium disease package for tough growing environments
- Peking SCN resistance with Rps1k Phytophthora gene
- Solid combination of good iron chlorosis, white mold, and sudden death syndrome tolerance
- Full canopy with good plant height for tough soil conditions

AGRONOMICS

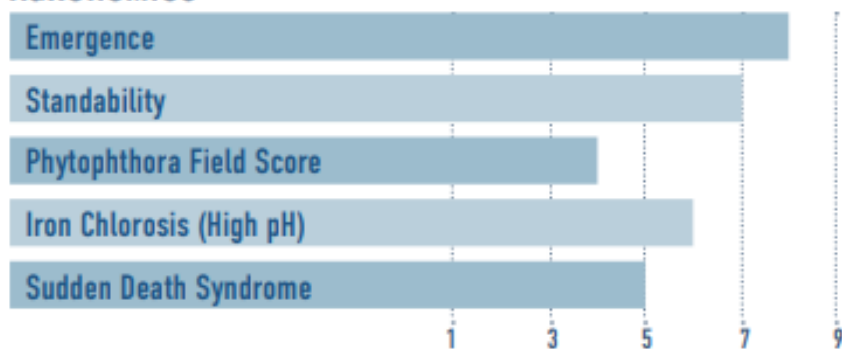


2123 E

2.1 RM

- Volume leader for Northern Iowa
- Peking SCN resistance with very good iron chlorosis tolerance
- Rps1k Phytophthora gene with good brown stem rot tolerance
- Widely adapted product that excels in high yield environments

AGRONOMICS



2185 E



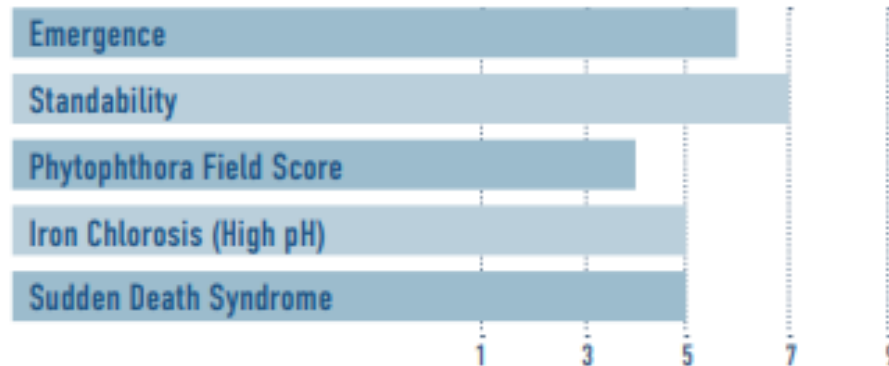
Availability: Good

2.1 RM

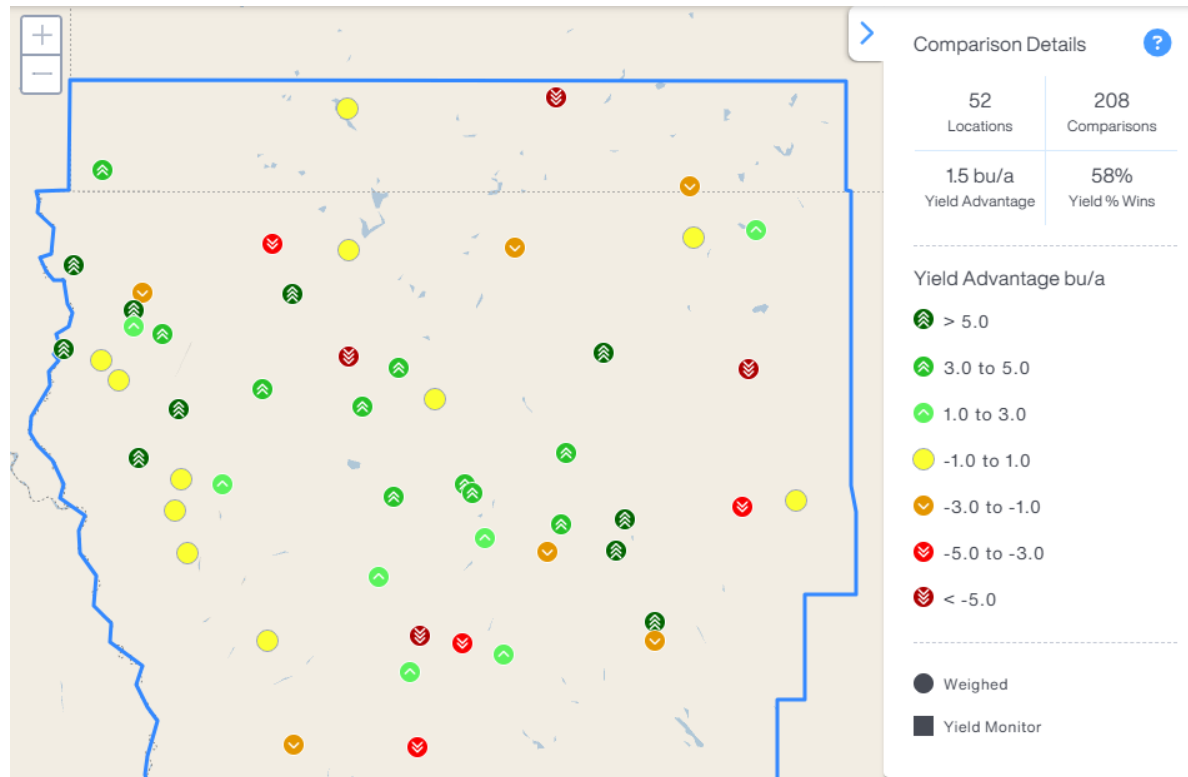
- Enlited Grade early group 2 performance leader
- Very good white mold tolerance
- Consistent top yield performance from east to west
- Peking SCN resistance with good tolerance to iron deficiency chlorosis

► White Mold = 5

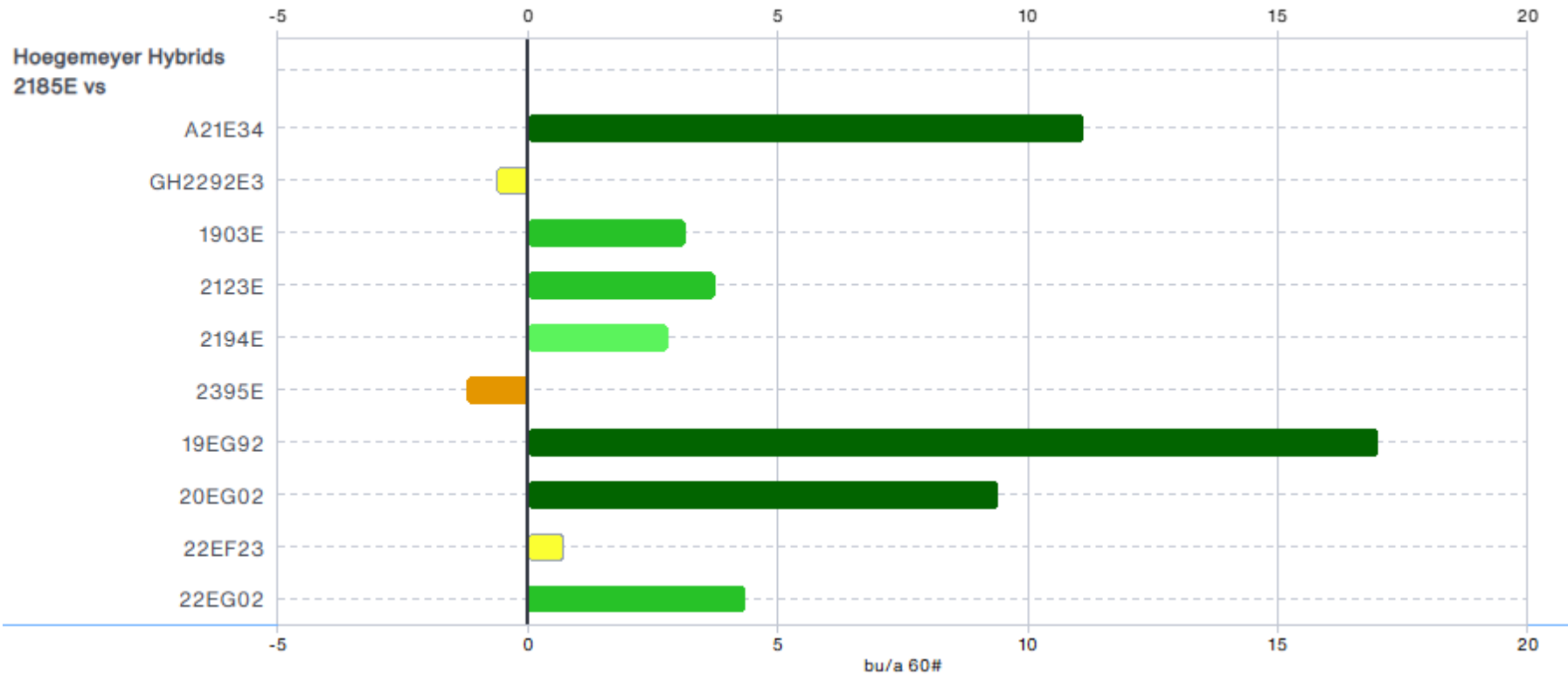
AGRONOMICS



2185 E vs All (+/- 2 RM)



2185 E Head to Heads



2395 E



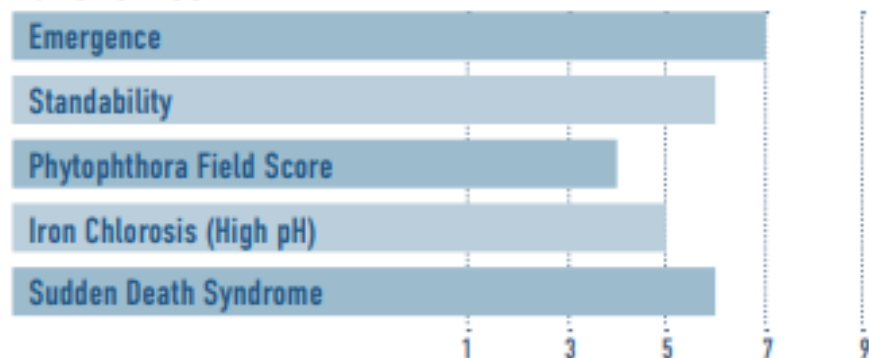
Availability: Good

2.3 RM

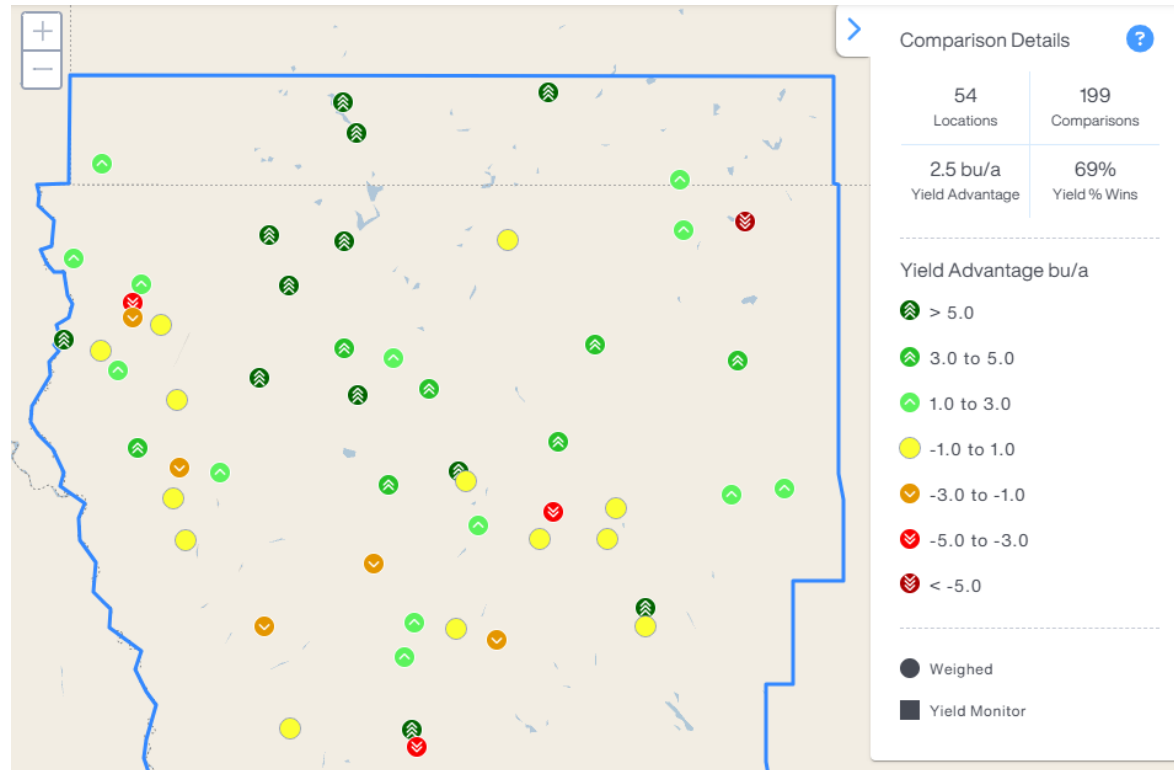
- Enlimited™ Grade genetics with elite yield for the Western Corn Belt
- Top performance over a wide geography on most soil types
- Peking SCN resistance combined with good tolerance to iron deficiency chlorosis
- Reduce planting rate on lodge-prone soils

► White Mold = 4

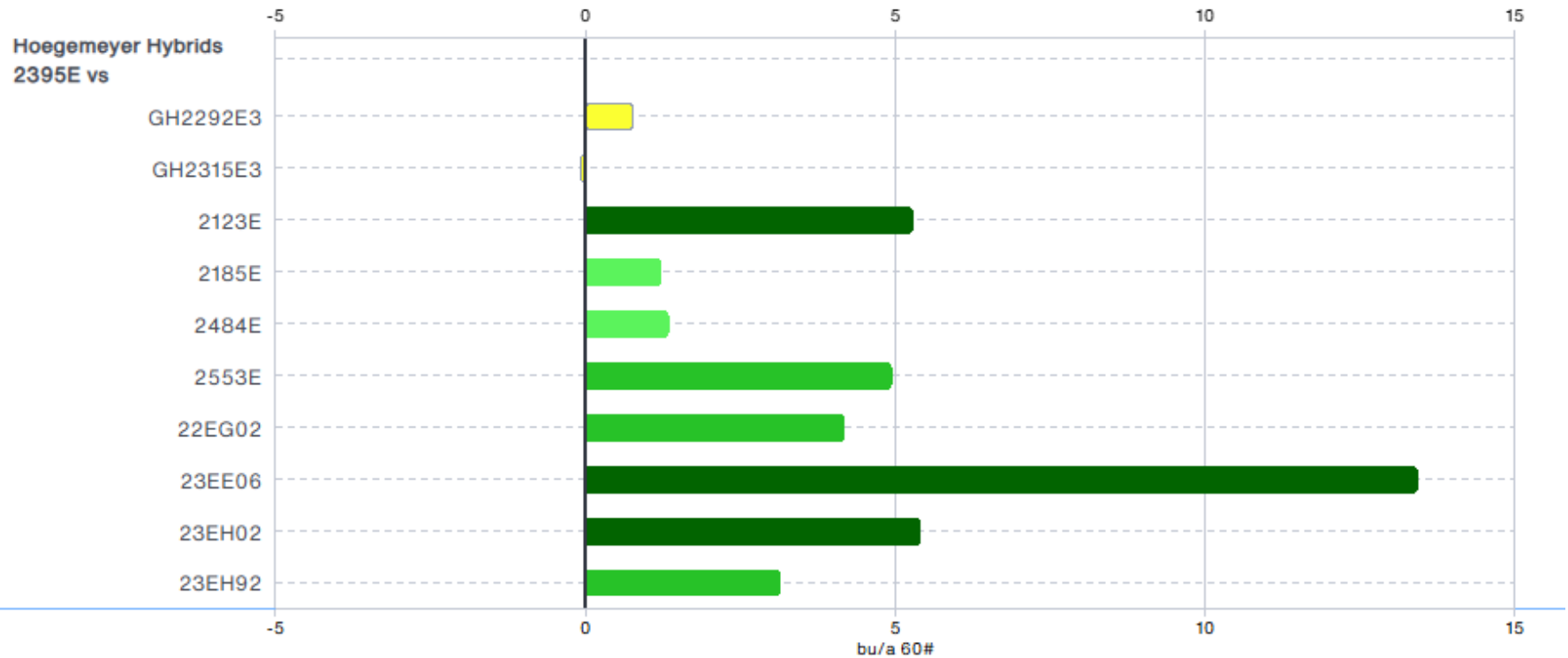
AGRONOMICS



2395 E vs All (+/- 2 RM)



2395 E Head to Heads

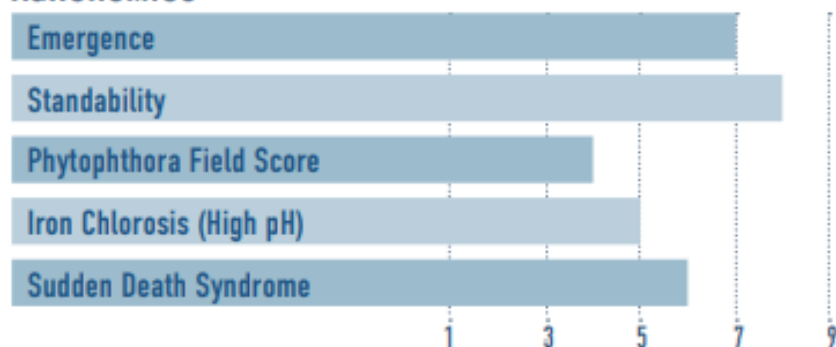


2484 E

2.4 RM

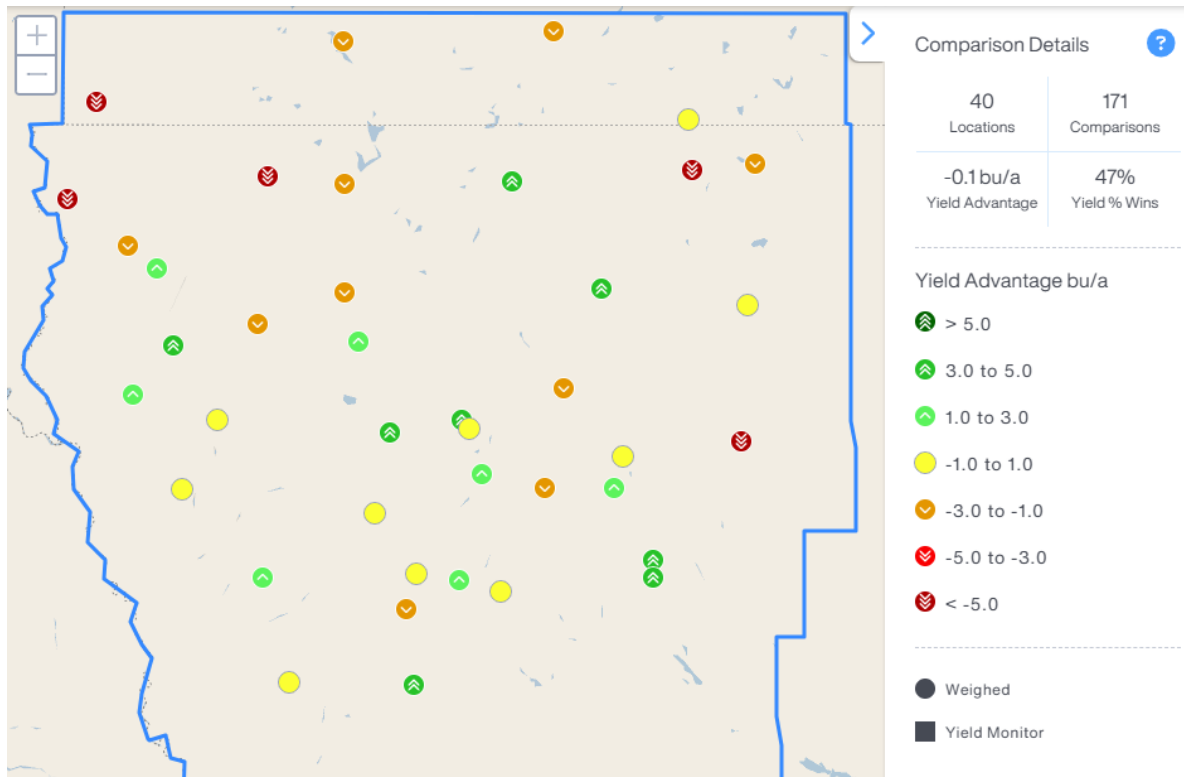
- Premium agronomic package and solid yield potential
- Peking SCN resistance with good tolerance to sudden death syndrome
- Very good white mold tolerance combined with solid iron chlorosis tolerance
- Excellent standability

AGRONOMICS

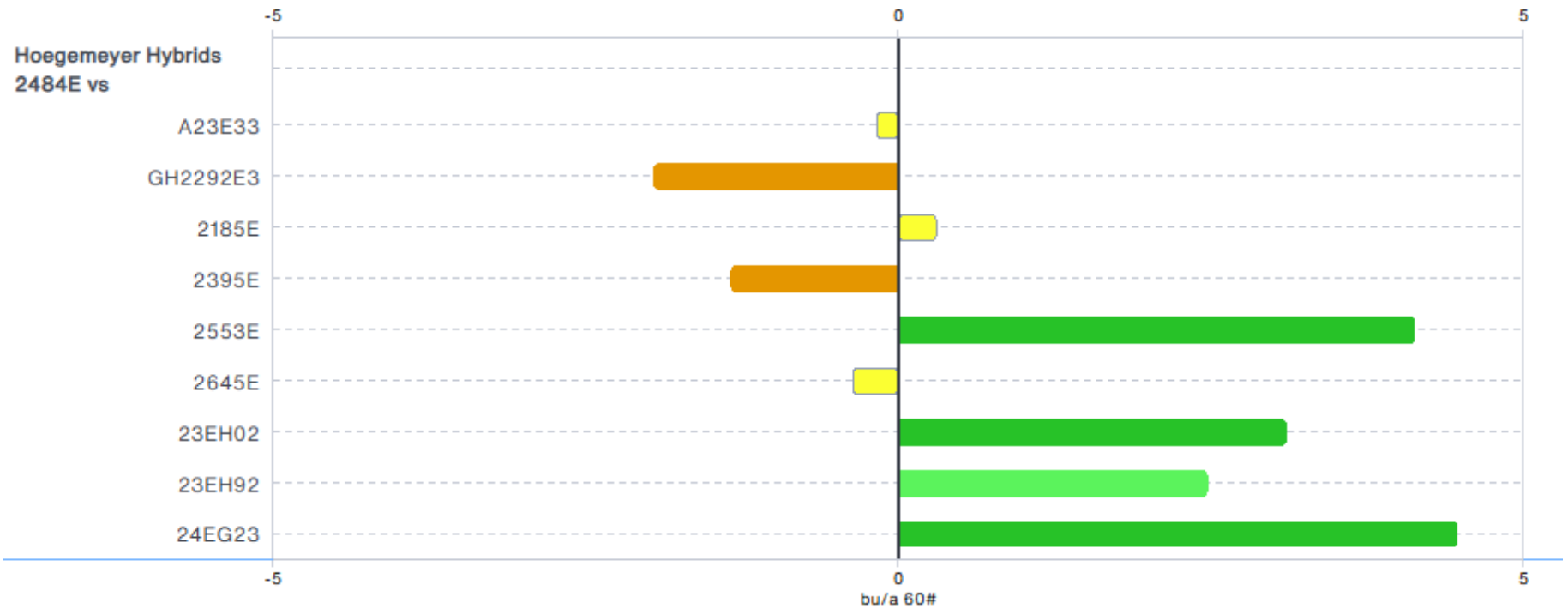


2484 E vs All (+/- 2 RM)

Availability: Good



2484 E Head to Heads



2645 E

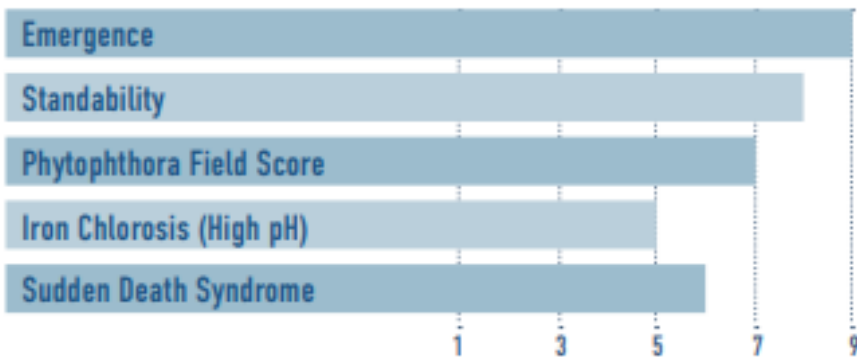


Availability: Good

2.6 RM

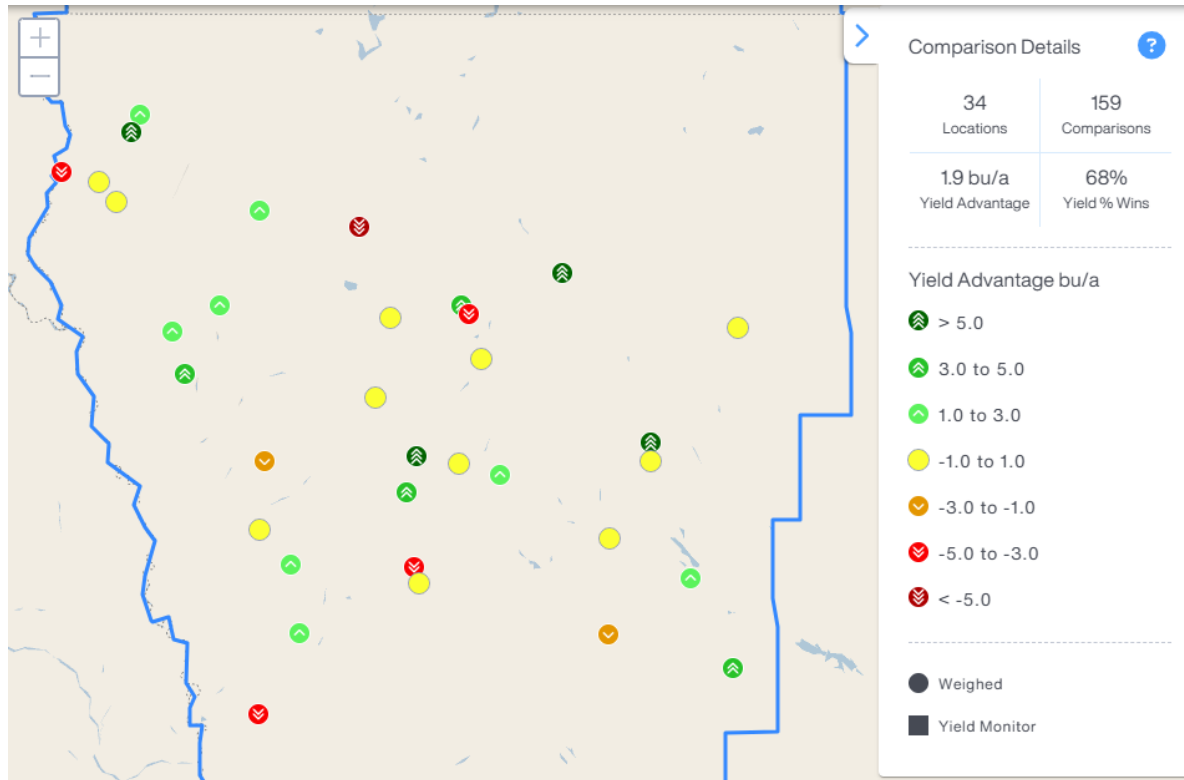
- Enlimited Grade mid group 2 with advanced agronomics and elite yield
- Excellent emergence and very good standability
- Good choice for all soil types due to a well-rounded agronomic package
- Good height and canopy for tough growing environments

AGRONOMICS

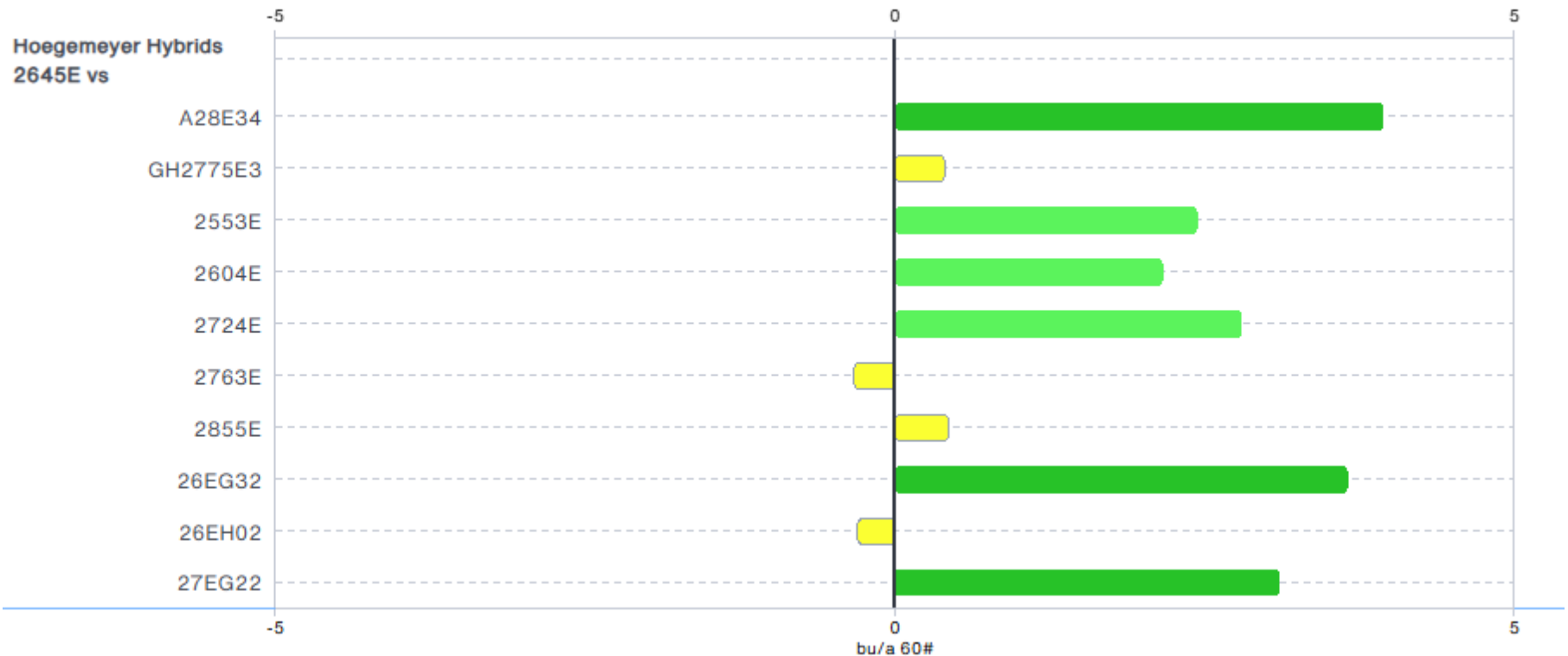


► White Mold = 4

2645 E vs All (+/- 2 RM)



2645 E Head to Heads

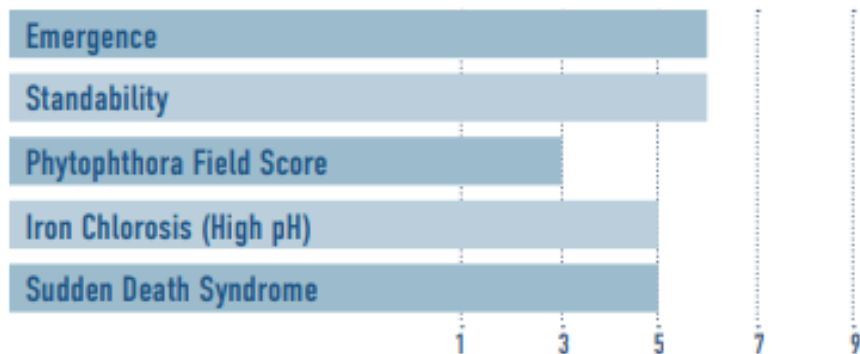


2763 E

2.7 RM

- Elite yield level for the Western Corn Belt
- Peking SCN resistance with good iron chlorosis tolerance
- Rps1k Phytophthora gene, with strong tolerance to brown stem rot, and frogeye
- Widely adapted product with big yield potential

AGRONOMICS

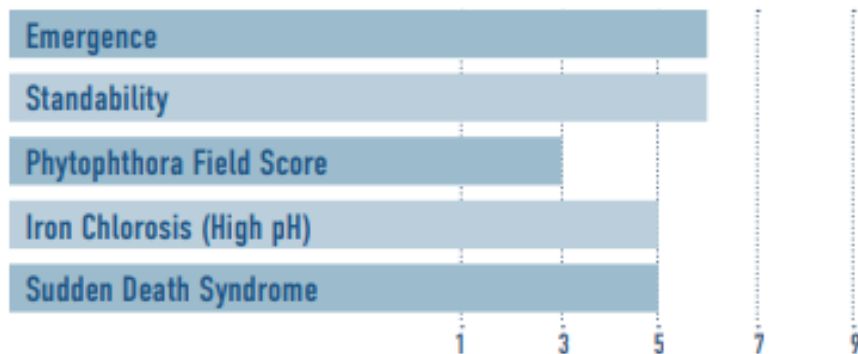


2763 E

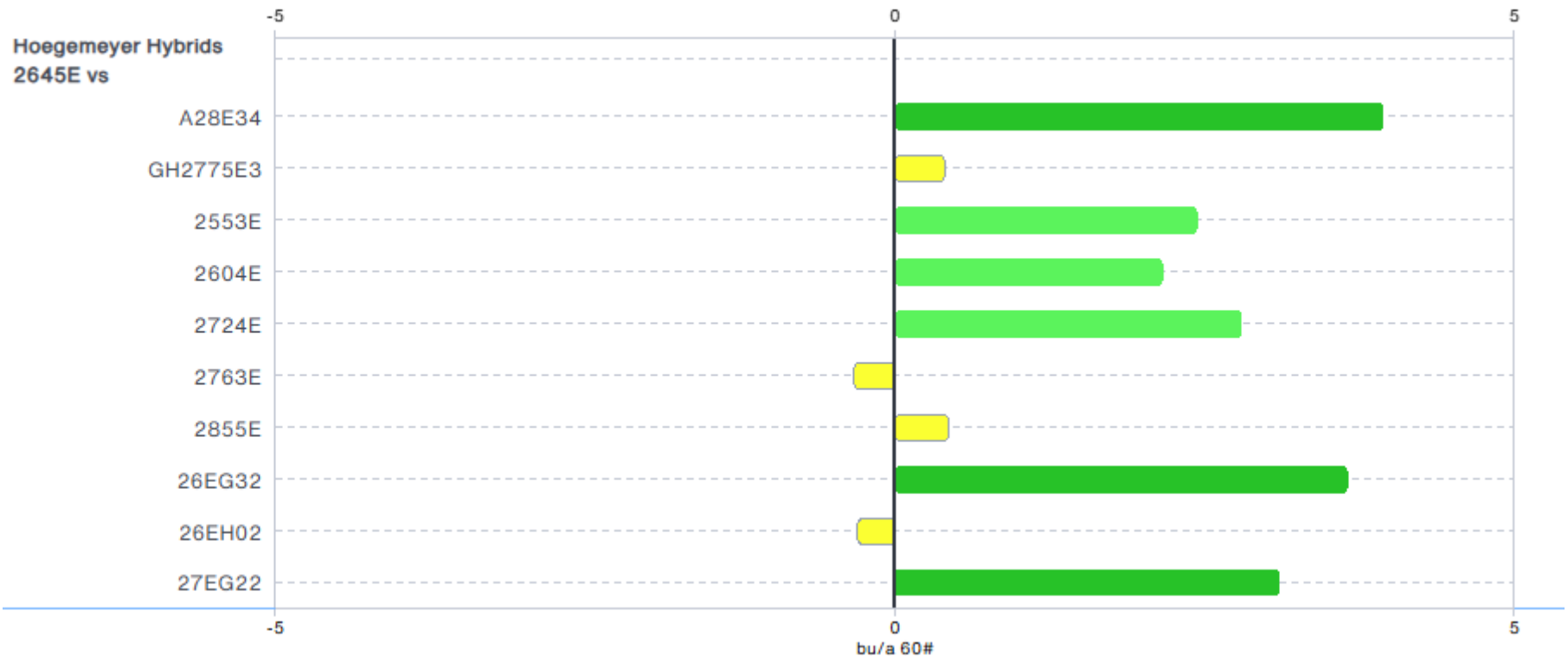
2.7 RM

- Elite yield level for the Western Corn Belt
- Peking SCN resistance with good iron chlorosis tolerance
- Rps1k Phytophthora gene, with strong tolerance to brown stem rot, and frogeye
- Widely adapted product with big yield potential

AGRONOMICS



2645 E Head to Heads

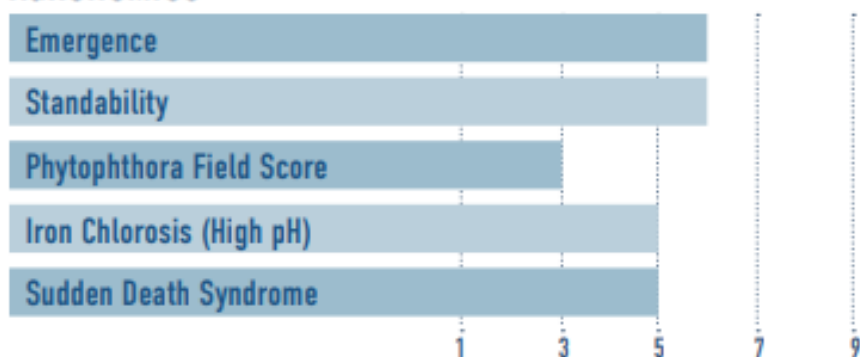


2763 E

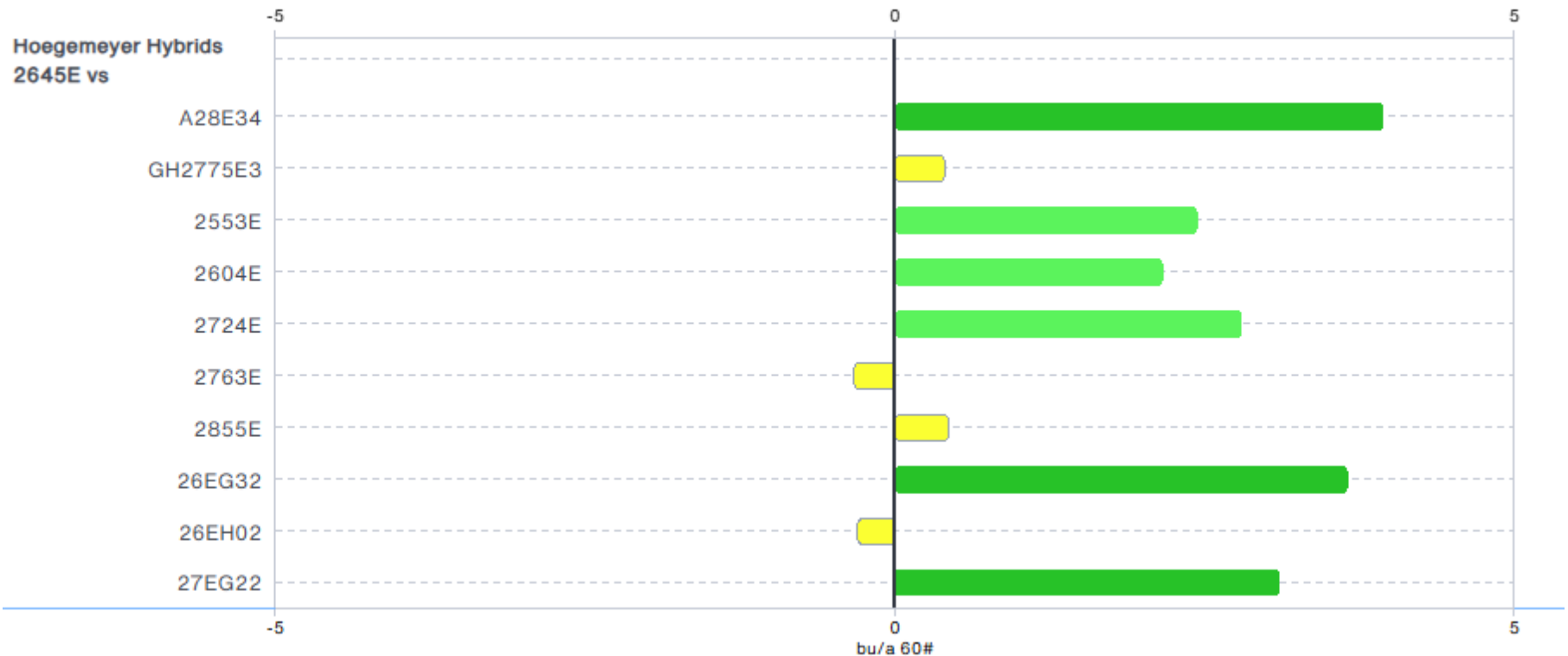
2.7 RM

- Elite yield level for the Western Corn Belt
- Peking SCN resistance with good iron chlorosis tolerance
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- Widely adapted product with big yield potential

AGRONOMICS



2645 E Head to Heads

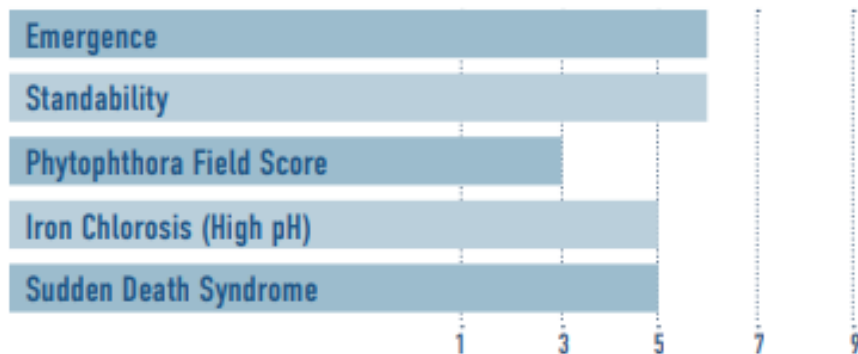


2763 E

2.7 RM

- Elite yield level for the Western Corn Belt
- Peking SCN resistance with good iron chlorosis tolerance
- Rps1k Phytophthora gene, with strong tolerance to brown stem rot, and frogeye
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AGRONOMICS

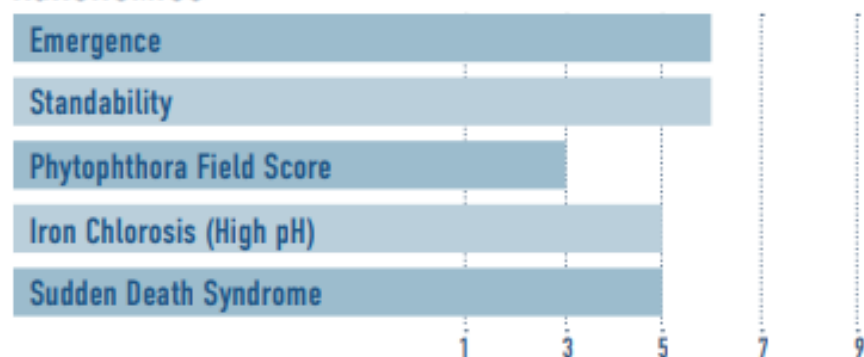


2763 E

2.7 RM

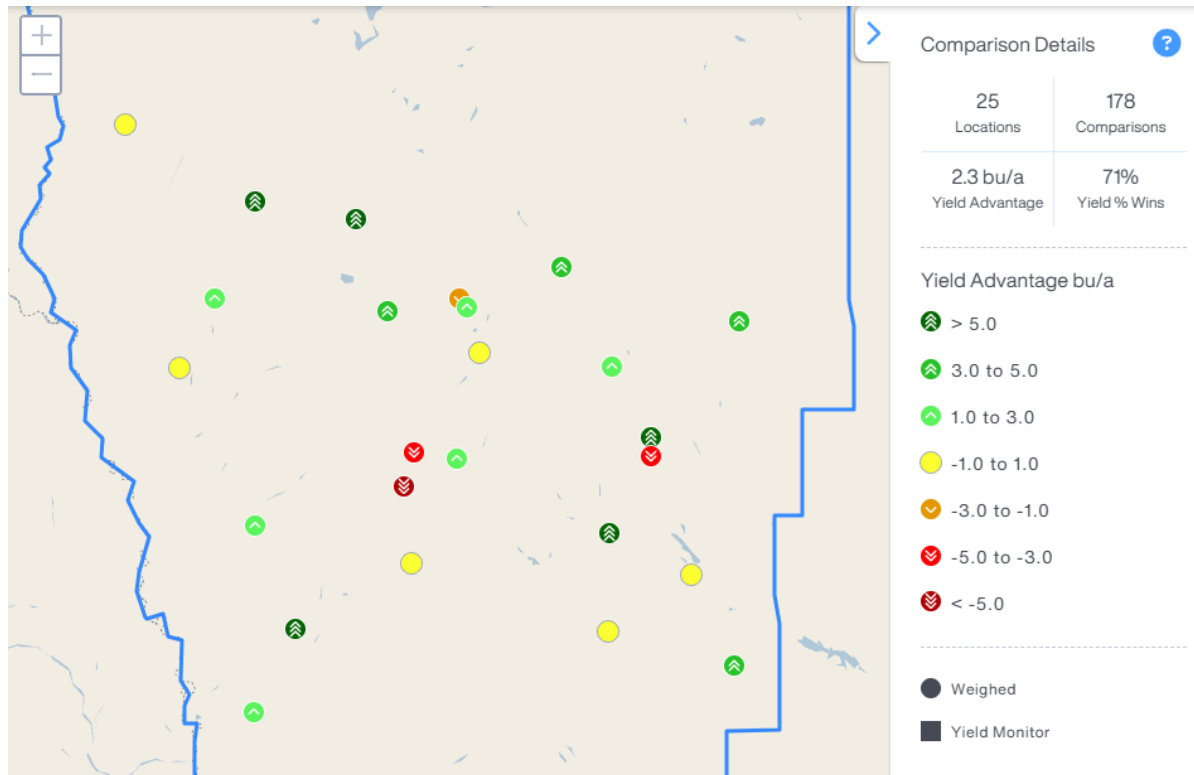
- Elite yield level for the Western Corn Belt
- Peking SCN resistance with good iron chlorosis tolerance
- Rps1k Phytophthora gene, with strong tolerance to brown stem rot, and frogeye
- Widely adapted product with big yield potential

AGRONOMICS

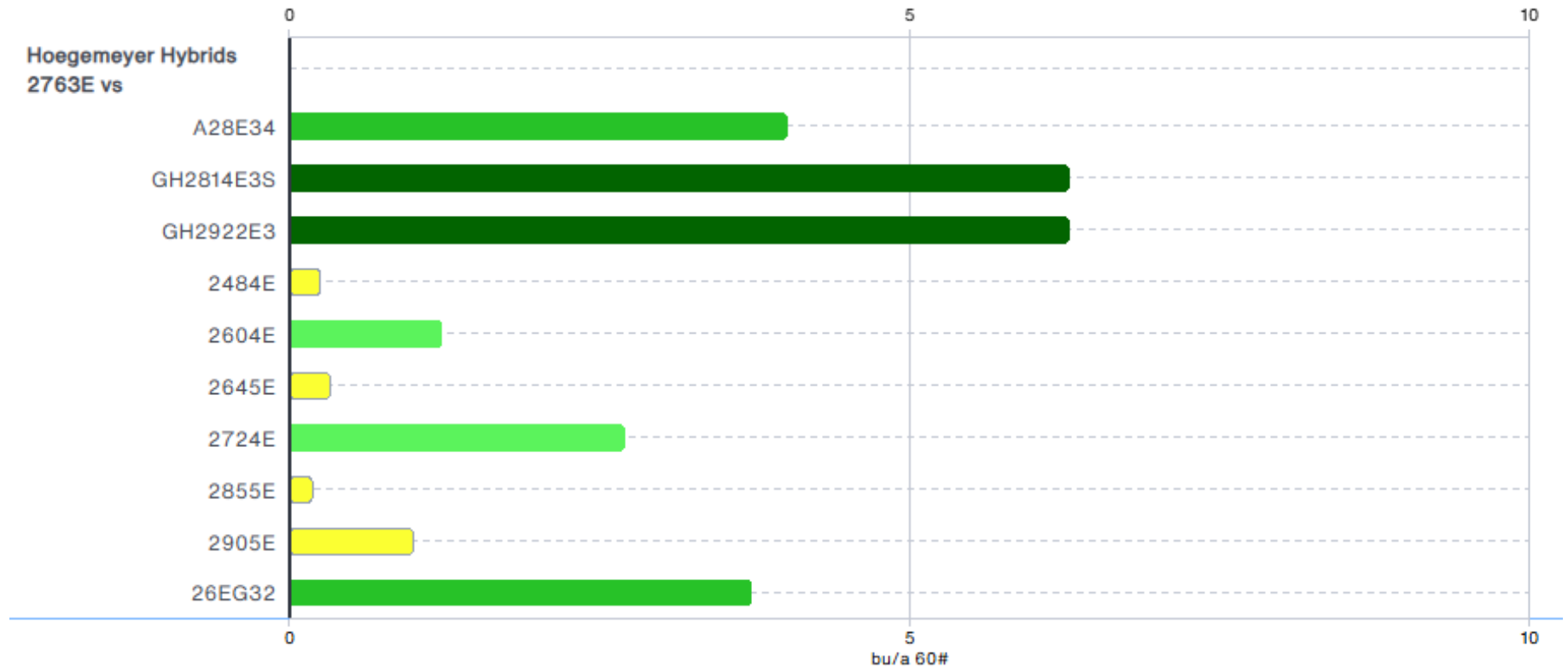


2763 E vs All (+/- 2 RM)

Availability: Good

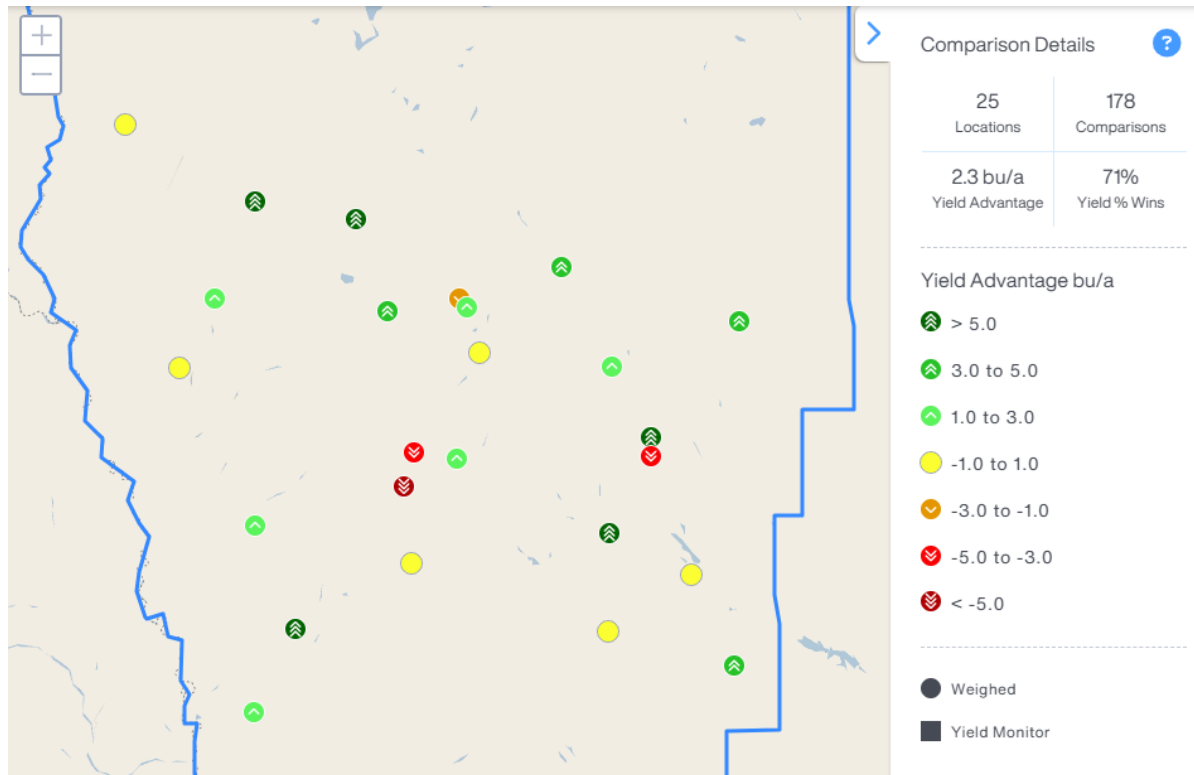


2763 E Head to Heads

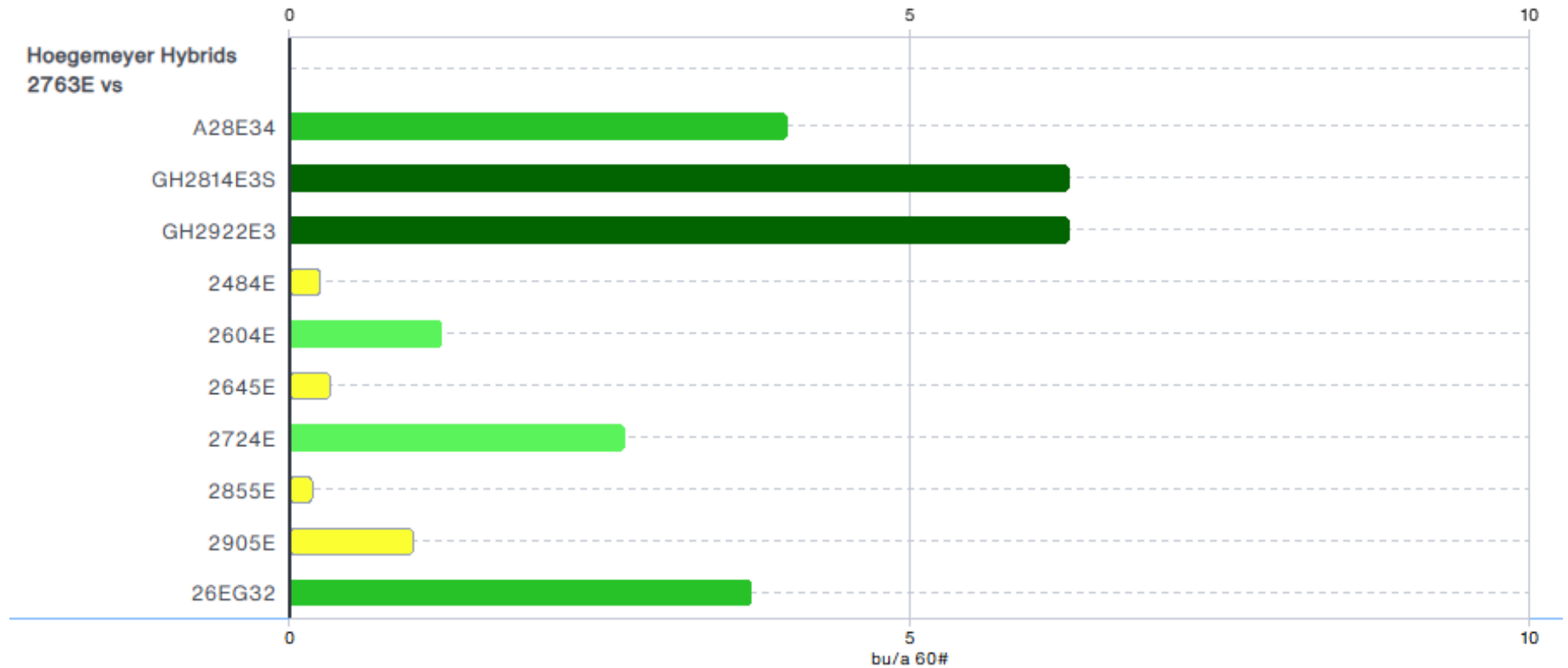


2763 E vs All (+/- 2 RM)

Availability: Good



2763 E Head to Heads





2025 Xitavo Key Varieties

Justin Zwiefel BASF

Xitavo[®]
Soybean Seed



Xitavo[®] Soybean Seed Variety

XO 1632E



Local Agronomic Recommendations

- Solid disease package including Rps3a gene. Good early season emergence and vigor. Solid agronomic package including IDC, SDS, BSR, and 3a PRR gene and tolerance. Mid VPI. Excellent top end yield potential for highly productive acre. Good standability with moderate height and bushiness. SEG for Chloride.

Product Ratings

1 = Excellent / 9 = Poor

Height/Canopy Type	Medium; Med-Bush
Standability	3
Phytophthora	Rps3a; 2
White Mold	5
Iron Deficiency Chlorosis	3
Soybean Cyst Nematode	PI88788



Population Recs by Productivity	
Field Characteristics	Planting Pop
High Productivity	140K
Average Productivity	160K
Water Limited	180K

Placement Guide

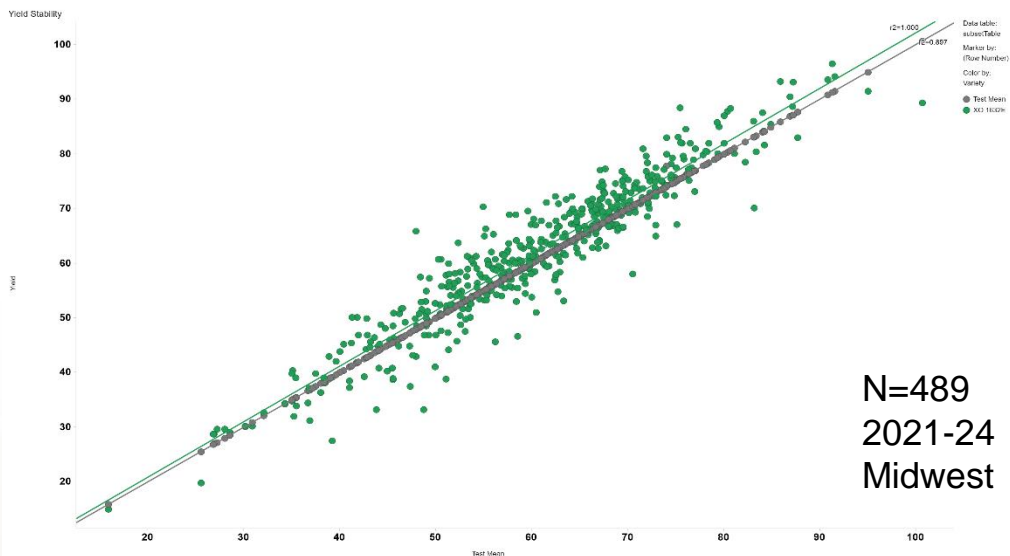
Field Characteristics	E	VG	A	NR
Highly Productive	✓			
Low Productivity		✓		
Variable Soils	✓			
Irrigation	✓			
Drought Prone			✓	
Poorly Drained	✓			
No-Till, Cover Crop				✓

E: Excellent | VG: Very Good | A: Average | NR: Not Recommended

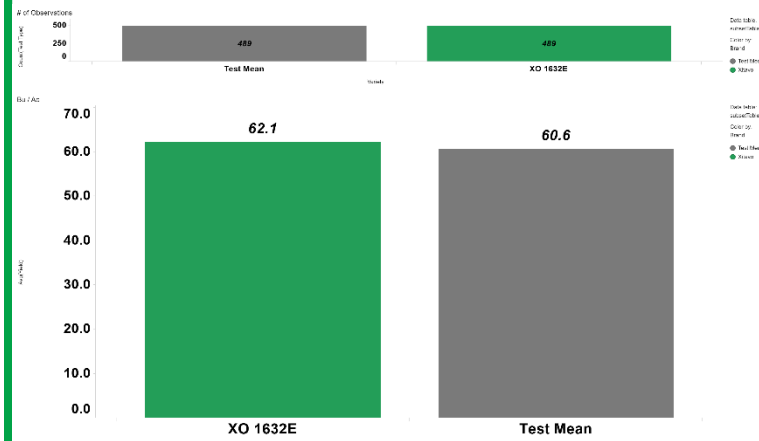
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Xitavo[®] Soybean Seed Variety XO 1632E



Versus the Test Mean:
+1.5 bu/A or 102.5%

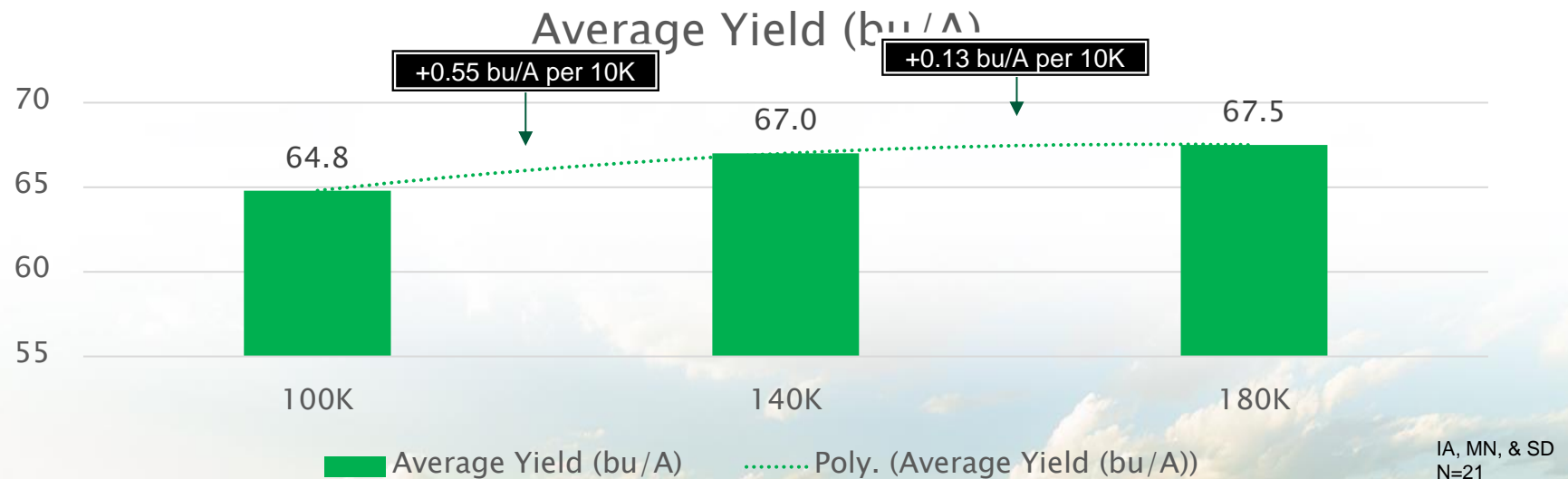


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Xitavo® Soybean Seed Variety

Seeding Rate Yield Comparison

XO 1632E



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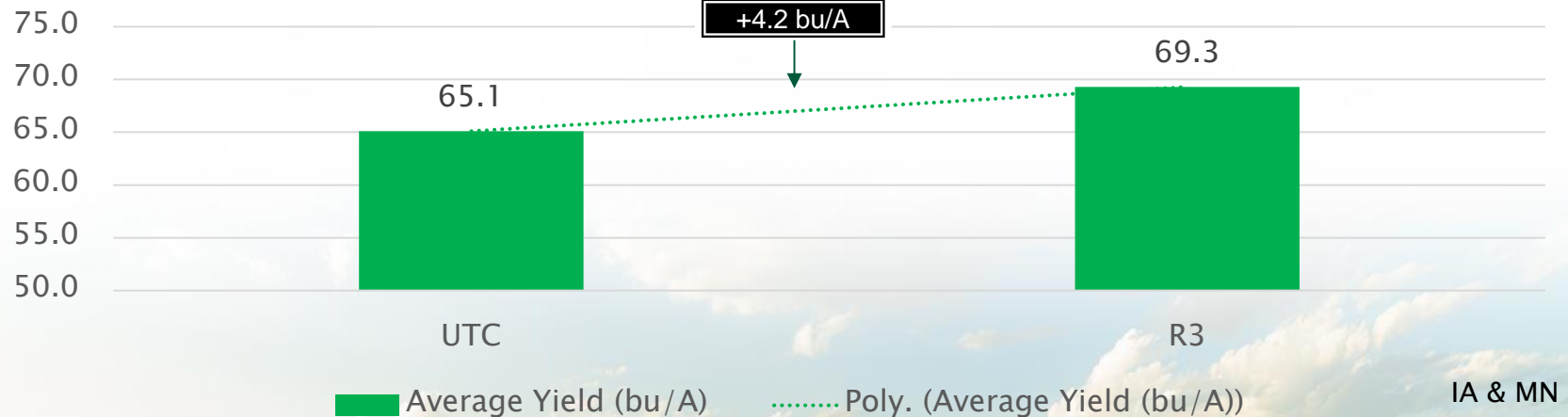
Xitavo® Soybean Seed Variety

VFI Yield Comparison (with and without Revytek + Renestra at R3)

XO 1632E



Average Yield (bu/A)



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Xitavo® Soybean Seed

Variety

XO 1822E



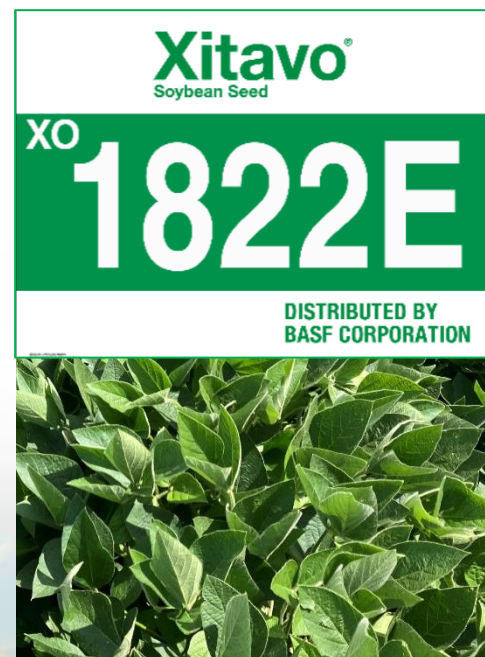
Local Agronomic Recommendations

- Solid disease package including Rps3a gene. Good early season emergence and vigor. Solid agronomic package including IDC, SDS, BSR, and 3a PRR gene and tolerance. Mid VPI. Excellent top end yield potential for highly productive acre. Good standability with moderate height and bushiness. SEG for Chloride.

Product Ratings

1 = Excellent / 9 = Poor

Height/Canopy Type	Med/Avg; Bushy
Standability	4
Phytophthora	Rps3a; 2
White Mold	6
Iron Deficiency Chlorosis	5
Soybean Cyst Nematode	PI88788



Population Recs by Productivity	Planting Pop
High Productivity	140K
Average Productivity	150K
Water Limited	160K

Placement Guide

Field Characteristics	E	VG	A	NR
Highly Productive	✓			
Low Productivity		✓		
Variable Soils		✓		
Irrigation		✓		
Drought Prone		✓		
Poorly Drained			✓	
No-Till, Cover Crop			✓	

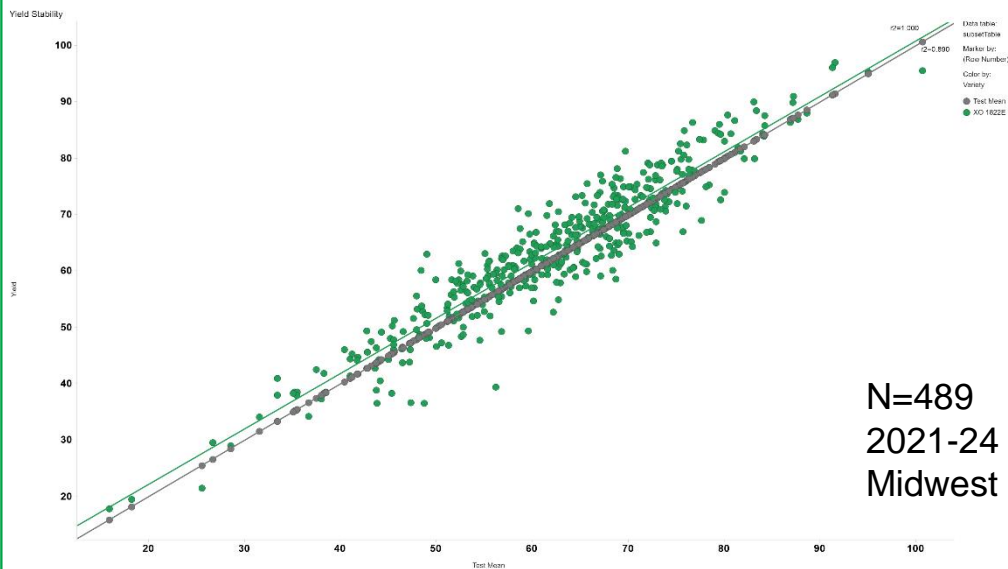
E: Excellent | VG: Very Good | A: Average | NR: Not Recommended

The transgenic soybean event in Enlist E3 soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies, L.L.C.

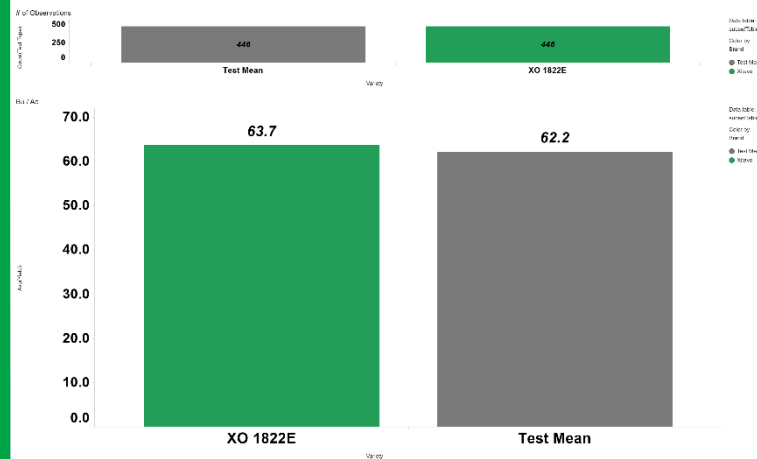
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Xitavo[®] Soybean Seed Variety XO 1822E



Versus the Test Mean:
+1.5 bu/A or 102.5%

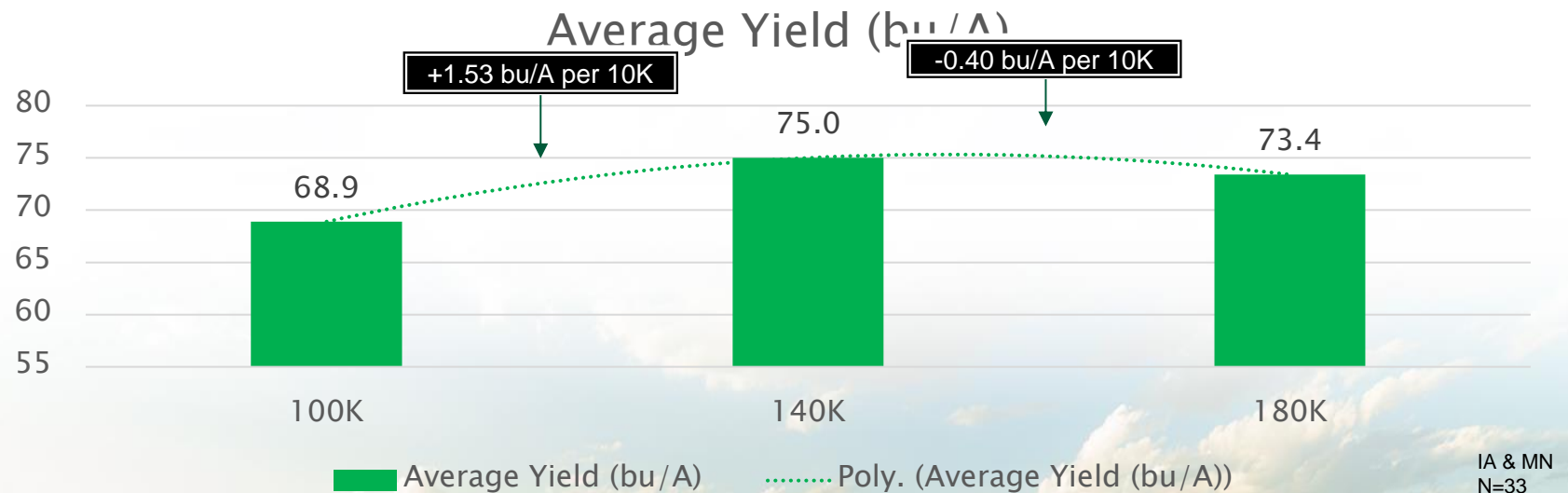


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Xitavo® Soybean Seed Variety

Seeding Rate Yield Comparison

XO 1822E



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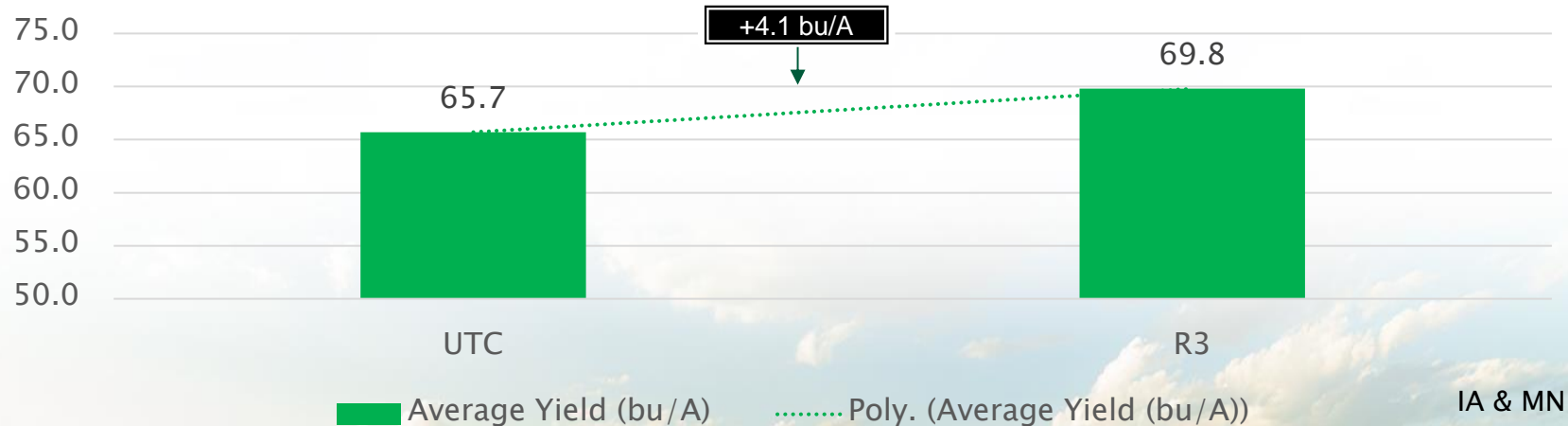
Xitavo® Soybean Seed Variety

VFI Yield Comparison (with and without Revytek + Renestra at R3)

XO 1822E



Average Yield (bu/A)



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Xitavo® Soybean Seed

Variety

XO 2075E

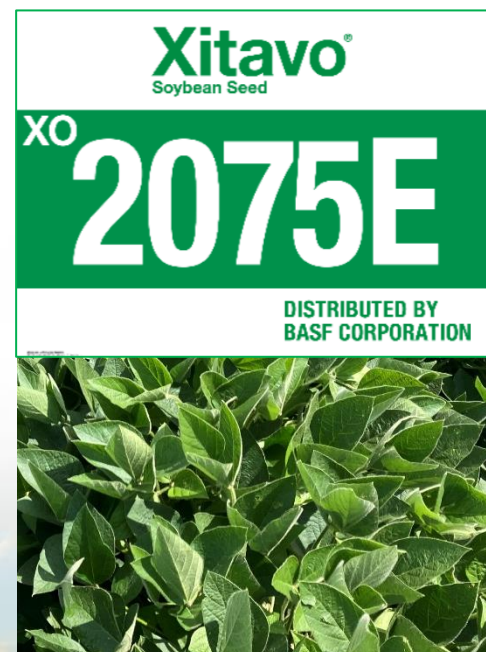
NEW
!



Local Agronomic Recommendations

- Good IDC and SWM tolerance with Peking SCN source. Good standability in a Med-Tall plant type. Initial Mid VPI rating. Includer for Chloride. Excellent choice for placement on any acre.

Product Ratings		1 = Excellent / 9 = Poor
Height/Canopy Type	Med/Tall; Med-Bush	
Standability	3	
Phytophthora	Rps3a; 2	
White Mold	3	
Iron Deficiency Chlorosis	3	
Sudden Death Syndrome	4	
Soybean Cyst Nematode	Peking	



Population Recs by Productivity	
Field Characteristics	Planting Pop
High Productivity	140K
Average Productivity	160K
Water Limited	180K

Placement Guide

Field Characteristics	E	VG	A	NR
Highly Productive	✓			
Low Productivity	✓			
Variable Soils	✓			
Irrigation	✓			
Drought Prone	✓			
Poorly Drained			✓	
No-Till, Cover Crop	✓			

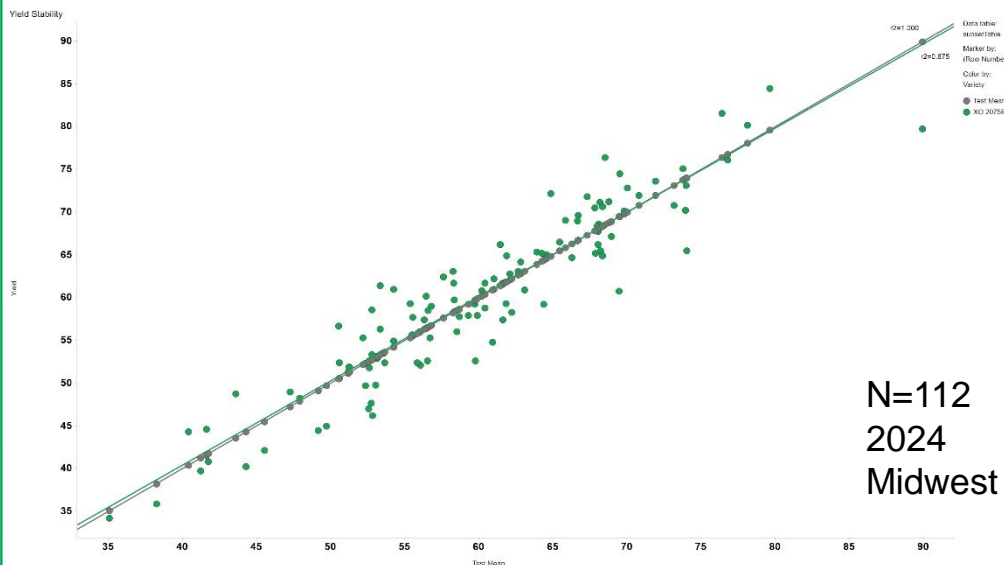
E: Excellent | VG: Very Good | A: Average | NR: Not Recommended

The transgenic soybean event in Enlist E3 soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies, L.L.C.

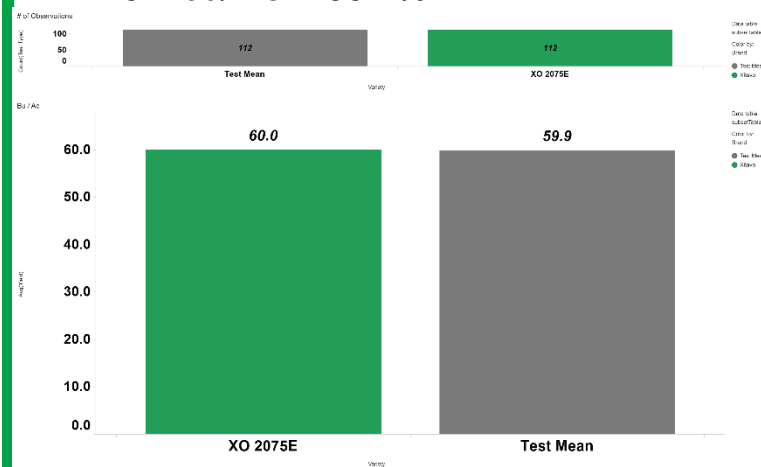
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Xitavo[®] Soybean Seed Variety

XO 2075E



Versus the Test Mean:
+0.1 bu/A or 100.2%

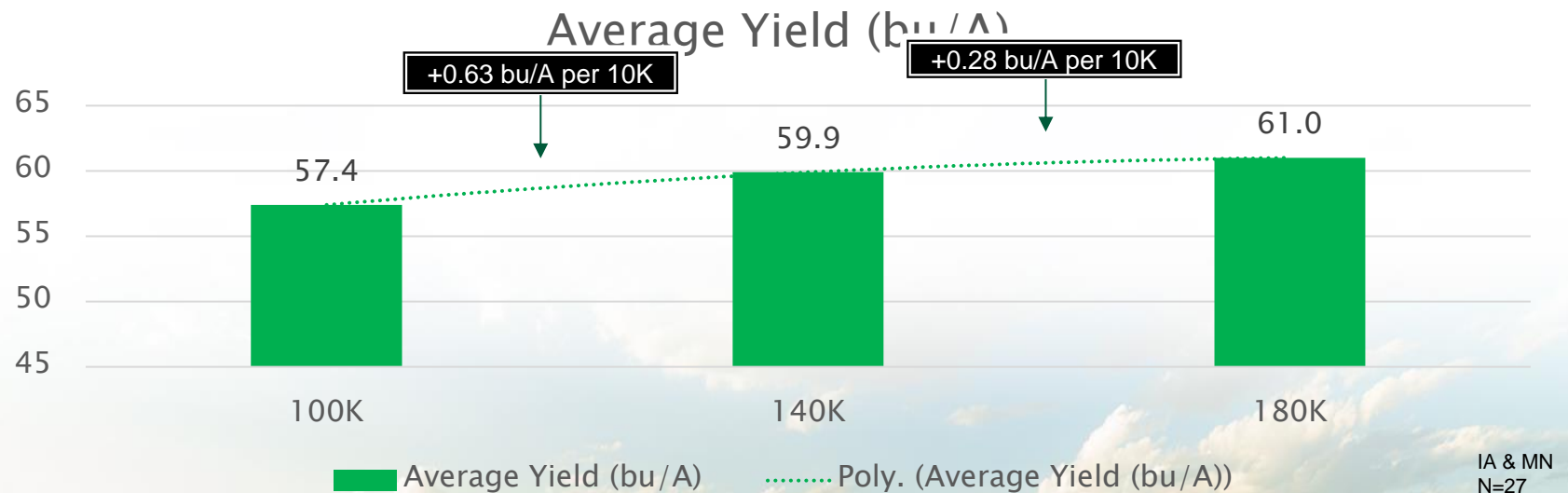


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Xitavo® Soybean Seed Variety

Seeding Rate Yield Comparison

XO 2075E



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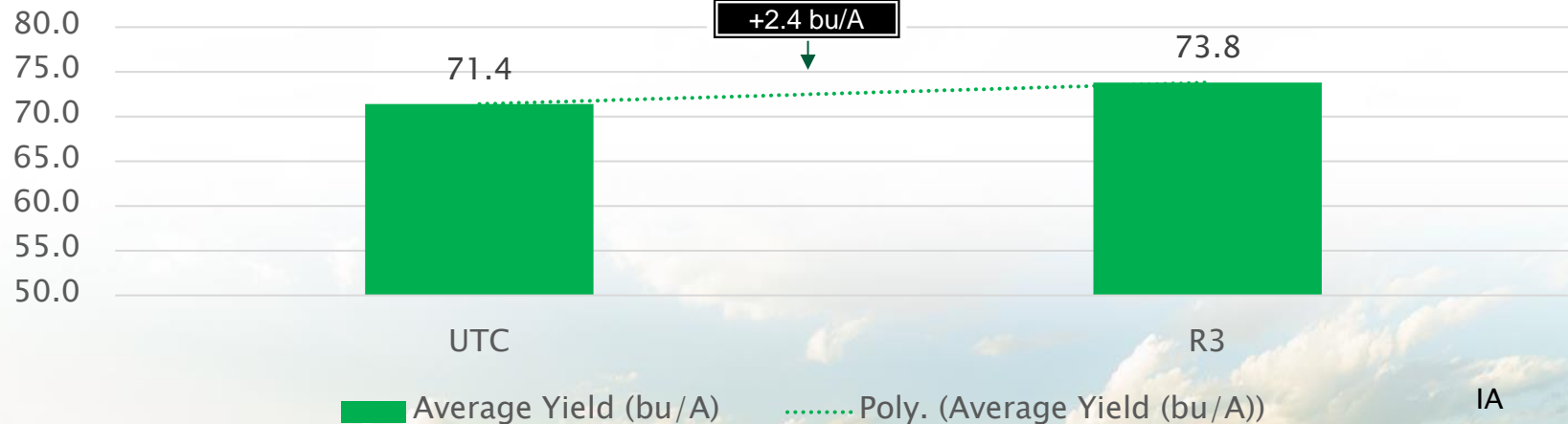
Xitavo[®] Soybean Seed Variety

VFI Yield Comparison (with and without Revytek + Renestra at R3)

XO 2075E



Average Yield (bu/A)



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Xitavo® Soybean Seed

Variety

XO 2444E



Local Agronomic Recommendations

- Excellent yield potential and impressive stress tolerance. Outstanding across soil types and management styles with a tendency to impress later in the growing season. Mid VPI. Upright lateral branching at all seeding rates. Above average defensive disease package on SDS, PRR, and SWM. Above average IDC. SEG for Chloride. Above Average on Charcoal Rot. STS Tolerant.

Product Ratings		1 = Excellent / 9 = Poor
Height/Canopy Type	Med/Tall; Med-Bush	
Standability	3	
Phytophthora	Rps1a; 3	
White Mold	4	
Iron Deficiency Chlorosis	4	
Sudden Death Syndrome	2	
Soybean Cyst Nematode	PI88788	



Population Recs by Productivity	
Field Characteristics	Planting Pop
High Productivity	140K
Average Productivity	160K
Water Limited	180K

Placement Guide

Field Characteristics	E	VG	A	NR
Highly Productive	✓			
Low Productivity	✓			
Variable Soils	✓			
Irrigation		✓		
Drought Prone	✓			
Poorly Drained		✓		
No-Till, Cover Crop		✓		

E: Excellent | VG: Very Good | A: Average | NR: Not Recommended

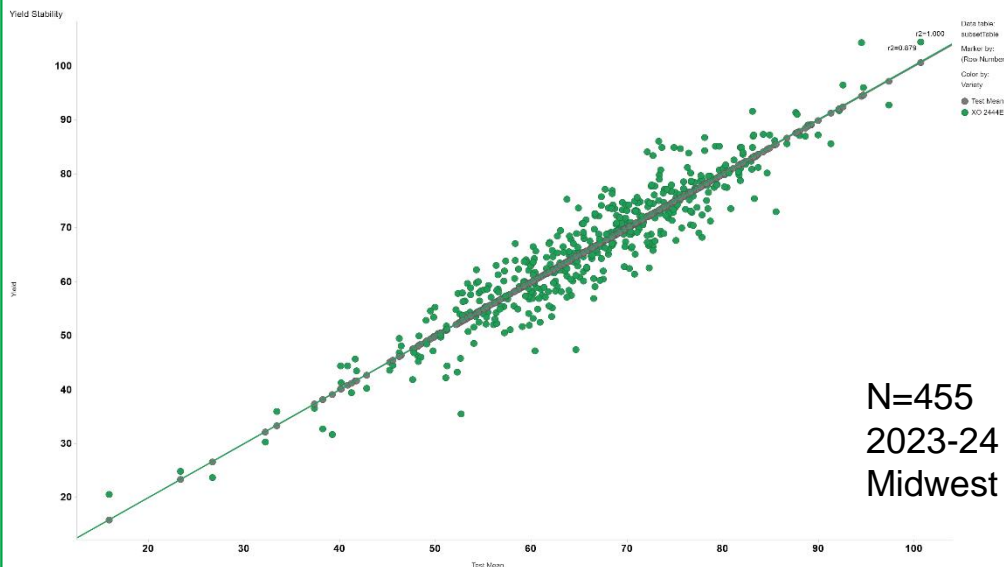
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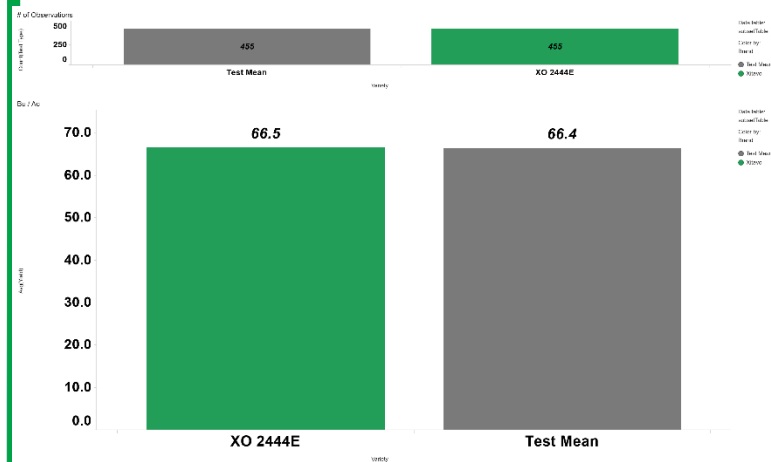
Xitavo[®] Soybean Seed Variety

XO 2444E



N=455
2023-24
Midwest

Versus the Test Mean:
+0.1 bu/A or 100.2%

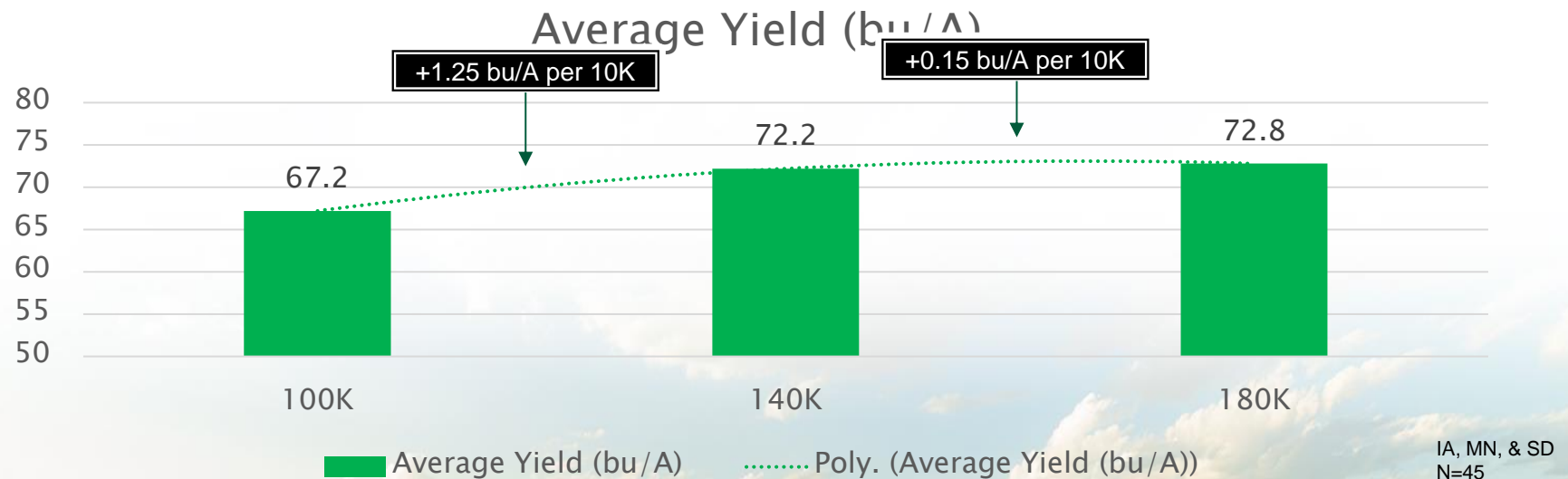


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Xitavo® Soybean Seed Variety

Seeding Rate Yield Comparison

XO 2444E



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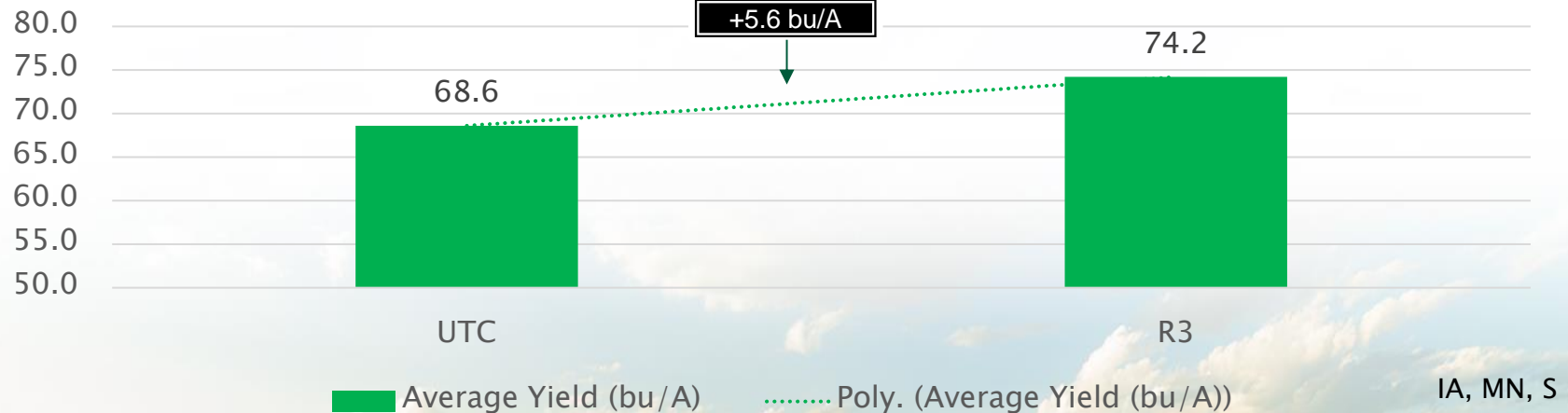
Xitavo[®] Soybean Seed Variety

VFI Yield Comparison (with and without Revytek + Renestra at R3)

XO 2444E



Average Yield (bu/A)



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Opheim Seed and Chemical Post-Harvest 2024



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2024 NK Corn Product Performance



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NK0007-AA

100 RM

- ▶ Elite yielding and agronomically sound hybrid
- ▶ Cornerstone performer in NK across region
- ▶ Outstanding Tar Spot tolerance
- ▶ Shorter plant stature with favorable ear height
- ▶ Semi-Determinate ear type, drive populations >35k
- ▶ Strong performance in on-farm settings
- ▶ Utilize NK0123-AA as a semi-flex companion

Agronomic Attributes	
Nitrogen Response	-
Fungicide Response	Good
Ear Type/Root Type	Semi-Determinant/Modified
NCLB	3
GLS	3
Tar Spot	4
Drought Prone/Variable Soils	Good/Best

Product 2	Trials	Yield +/- (bu/ac)	Moisture +/- (%)
B98Z37AM	8	+3.6	+0.3
B01X44V	28	-4.8	-0.7
CP4083VT4P	19	-0.1	+0.3
DKC101-35	48	-13.8	0.0
DKC102-28	16	-4.2	-0.2
P0220AM	12	+14.4	-1.1
NK9771-DV	92	+3.6	+0.2
NK0123-AA	160	-5.1	-1.3
NK0252-D	148	-6.7	-1.3

Data: 103024, Yield Dashboard, Agronomist: Mike Schultz

CLASSIFICATION: Public

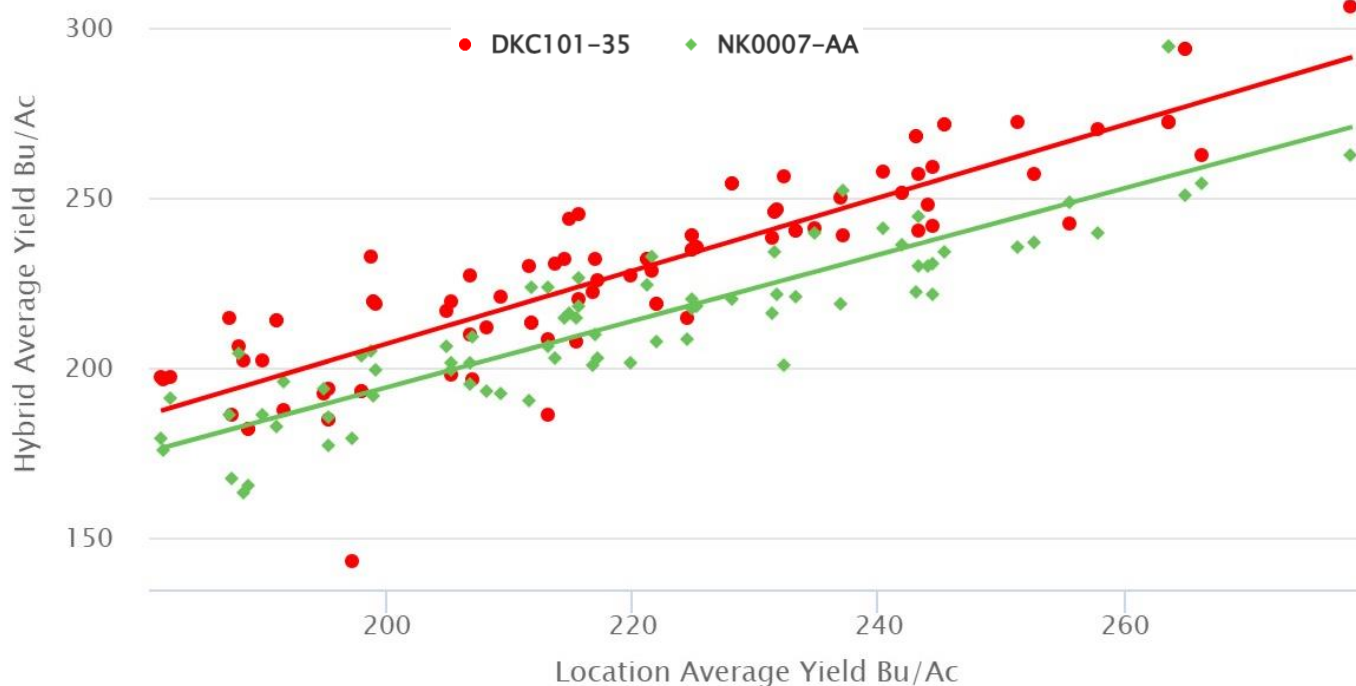
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Multi-Hybrid Regression

NK0007/DKC101-35

CORN YIELD
RESULTS



- Much of the gap in performance can be made up by pushing population on NK0007 – seen in on-farm setting

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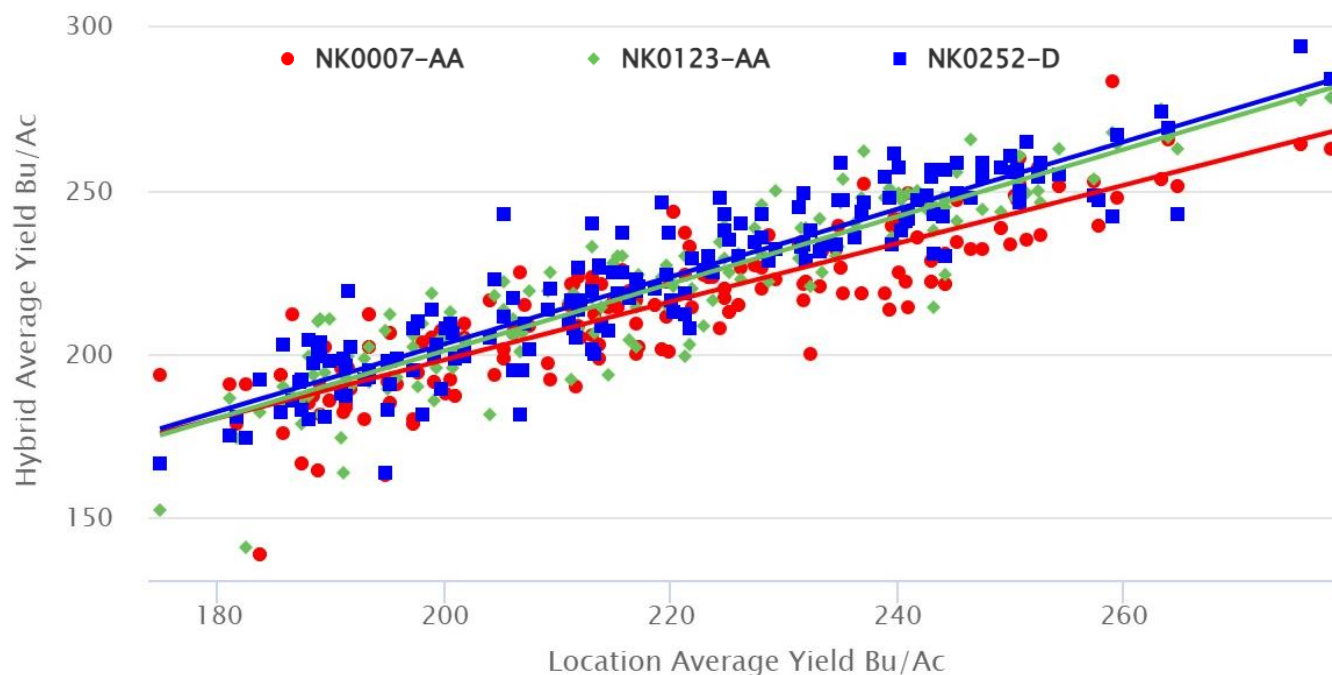
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Multi-Hybrid Regression

NK0007/NK0123/NK0252

CORN YIELD
RESULTS



- Consistent step change in performance w/ new genetics
- NK0123/NK0252 in lockstep across all performance levels – semi-flex style ears
- Clustering of NK0123/NK0252 showcases yield consistency – much improved

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NK0252-D

102 RM

- ▶ NEW addition for 2025
- ▶ Elite yield upgrade
- ▶ Agronomics and yield stability enable broad placement capabilities
- ▶ Very strong drought tolerance, can carry into drought prone soils
- ▶ Wide population range with SF ear style, 32-36,000 sds/ac
- ▶ Robust disease package to protect yield
- ▶ Very good emergence and early vigor

Agronomic Attributes	
Nitrogen Response	-
Fungicide Response	Fair
Ear Type/Root Type	Semi-Flex/Modified
NCLB	4
GLS	4
Tar Spot	4
Drought Prone/Variable Soils	Best/Good

Product 2	Trials	Yield +/- (bu/ac)	Moisture +/- (%)
B01X44V	32	+1.3	+0.8
B03H35V	29	+1.8	+0.6
DKC101-33	38	-0.2	+1.4
DKC102-13	33	-3.9	+2.0
DKC102-28	13	-3.1	+1.4
P0220AM	12	+9.1	+0.1
P0339Q	20	+6.7	-0.1
P0404Q	14	+1.2	-1.1
NK0007-AA	148	+6.7	+1.3
NK0123-AA	165	+1.9	+0.1
NK0243-AA/D	80	+11.2	+0.8

Data: 103024, Yield Dashboard, Agronomist: Mike Schultz



CLASSIFICATION: Public

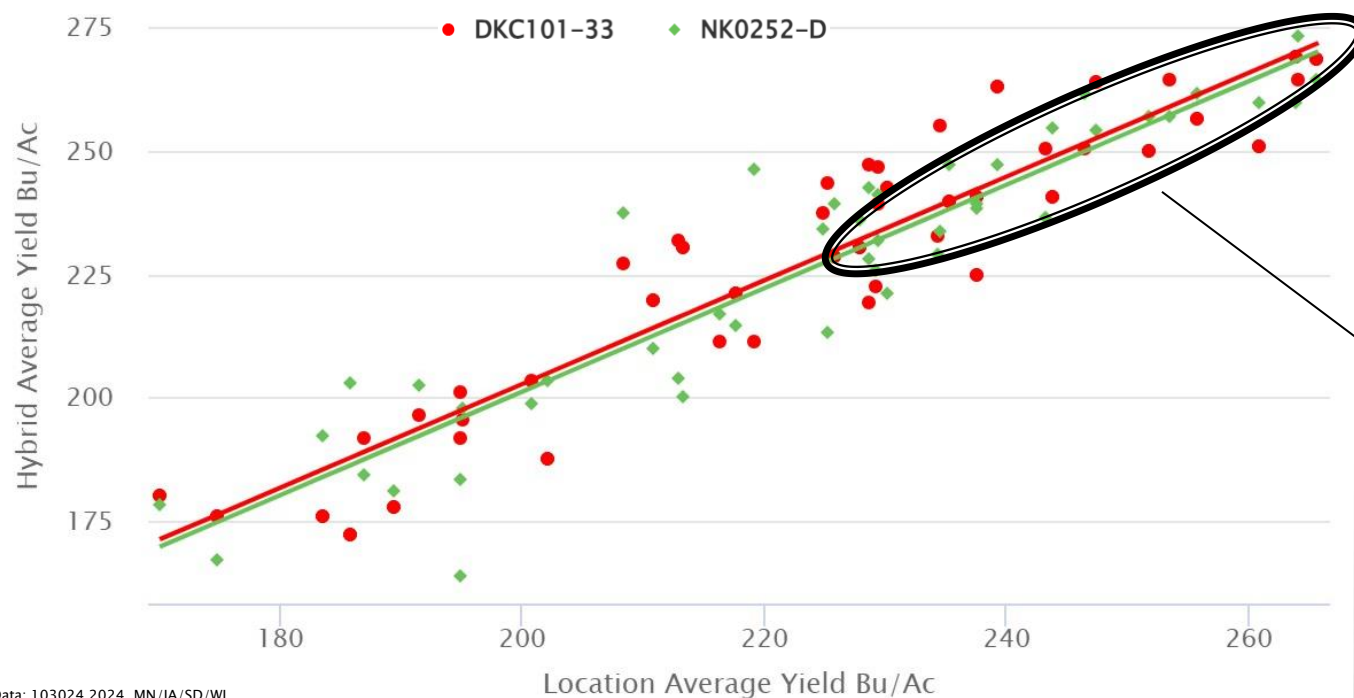
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Multi-Hybrid Regression

NK0252 V DKC101-33

CORN YIELD
RESULTS



- NK0252 performs on top of DKC101-33 across a yield environments
- NK0252 showcases more consistent performance >225 bu/ac

Data: 103024,2024, MN/IA/SD/WI,

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NK1188-D

111 RM

- ▶ Leading genetics with strong track record of success
- ▶ Broad acre adaptability
- ▶ Good disease tolerance and early season emergence for CoC
- ▶ True fibrous root structure aids in exceptional drought tolerance
- ▶ Maintain moderate planting densities 32-35,000 sds/ac
- ▶ Taller plant type would make for great dual-purpose option
- ▶ Huge fungicide response, helps late season stalks/crown

Agronomic Attributes

Nitrogen Response	-
Fungicide Response	Best
Ear Type/Root Type	Semi-Flex/Fibrous
NCLB	3
GLS	4
Tar Spot	3
Drought Prone/Variable Soils	Good/Best

Product 2	Trials	Yield +/- (bu/ac)	Moisture +/- (%)
DKC108-64	24	+7.8	+3.4
DKC59-81/82	23	+4.3	+2.9
DKC110-10	24	-2.3	+0.8
DKC111-33	14	+4.1	+2.9
P1185AM	39	+0.9	+1.8
NK1040-AA	42	+8.2	-0.3
NK1056-V	62	+6.2	+1.4
NK1228-AA	52	-0.2	+0.1

Data: 103024, Yield Dashboard, Agronomist: Mike Schultz

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2024 NK Soybean Product Performance



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NK16-Z6E3

1.6 RM

- ▶ Peking SCN Resistance
- ▶ New & Improved NK14-W6E3 (phyto, SDS, SWM, standability, yield)
- ▶ Solid option to carry through some tough pH environments
- ▶ Great drought tolerance allows consistent performance across region
- ▶ Provides reliable and stable performance on the broad acre

Agronomic Attributes	
SCN Source	Peking
SWM	4
SDS	3
IDC	3
PRR Source	Rps1c, Rps3a
Drought Prone Soil	Best
Moderate/Variable Environments	Good

Product 2	Trials	Yield +/- (bu/ac)
B164EE	23	+0.1
CP1620E	8	+0.8
Alloy 16E34	13	+3.6
Alloy 18E35	23	-0.3
P18A73E	23	+1.1
Stine 13EG23	7	+6.2
NK14-U5E3	63	-0.5
NK15-G9E3S	73	-0.8

Data: 103024_Yield Dashboard, Agronomist: Mike Schultz

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NK19-T8E3S

1.9 RM

- ▶ Peking SCN Resistance
- ▶ Elite yield potential in high yielding environments
- ▶ Solid agronomics on SDS and SWM
- ▶ Utilize NK16-Z6E3 on tougher widespread IDC acres
- ▶ Continues to be a leader on the high-yield acre across the Midwest
- ▶ Above avg. on SWM, plant type and higher yield background helps push through some tough environments

Agronomic Attributes	
SCN Source	Peking
SWM	4
SDS	4
IDC	4
PRR Source	Rps1k
Drought Prone Soil	Best
Moderate/Variable Environments	Best

Product 2	Trials	Yield +/- (bu/ac)
B202EE	12	+0.7
Alloy 18E35	30	+0.2
Alloy 21E34	34	+2.6
P18A73E	25	+3.8
P22A67E	30	-1.0
NK18-R4E3	106	+3.4
NK21-C2E3	119	-0.6

Data: 10/30/24, Yield Dashboard, Agronomist: Mike Schultz

CLASSIFICATION: Public

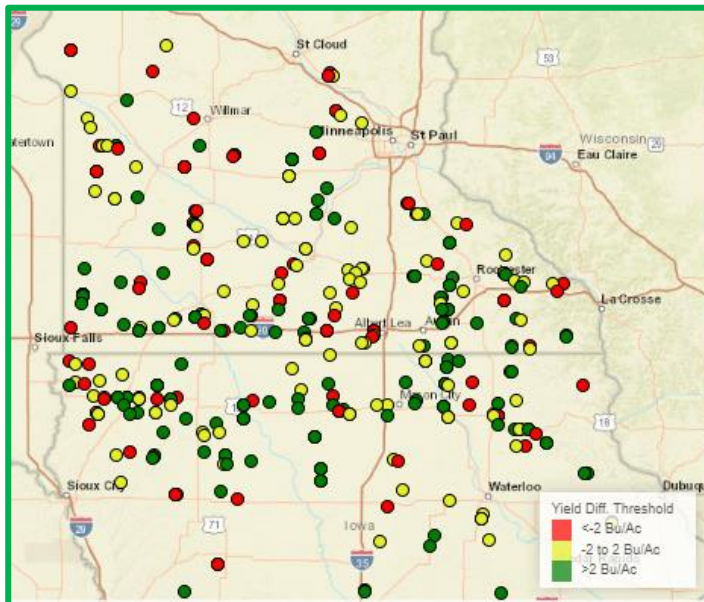
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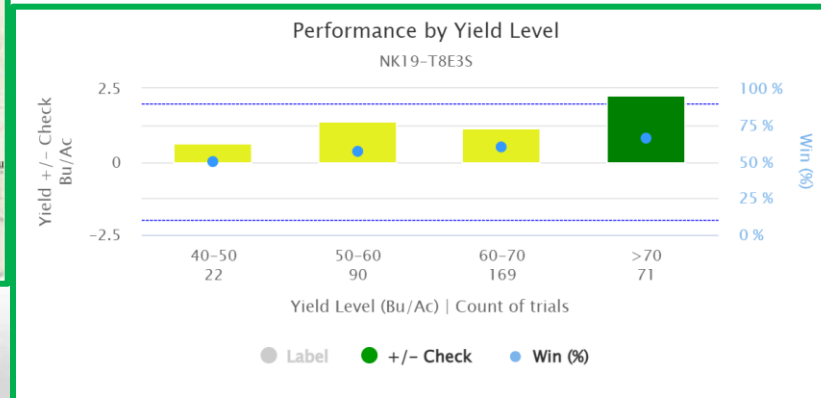
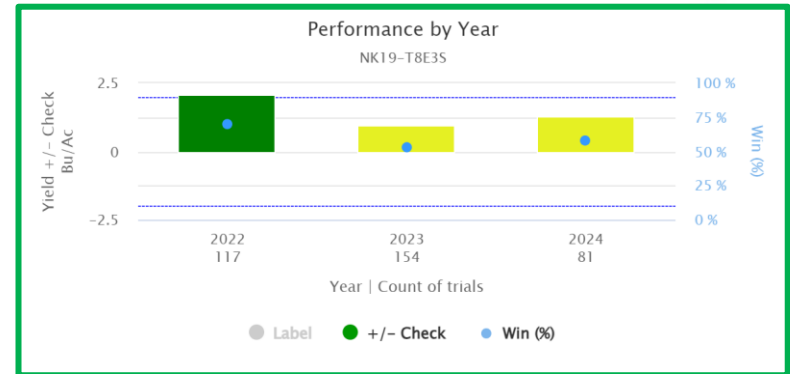
SOYBEAN YIELD RESULTS

NK19-T8E3S Performance – Regional

2022-2024, MN, IA VS NON-SYN CHECKS, +/- 0.2 RM



Cropwise 11124 Cropwise vs Croplan, Stine, Xitavo, Brevant, Pioneer, Alloy



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NK21-C2E3

2.1 RM

- ▶ Cornerstone variety that pairs well with NK19-T8E3S
- ▶ Extremely strong SDS package
- ▶ Leading agronomics and background genetics for broad acre adaptability
- ▶ Deserves to be a lead choice when gaining new business >2.0 RM
- ▶ Consistency in all yield environments across very diverse years keeps it on the farm

Agronomic Attributes	
SCN Source	PI88788
SWM	3
SDS	2
IDC	3
PRR Source	Rps1c
Drought Prone Soil	Good
Moderate/Variable Environments	Best

Product 2	Trials	Yield +/- (bu/ac)
B214EE	34	+1.6
Alloy 21E34	39	+4.4
P21Z71E	9	+0.1
P22A67E	36	+0.0
NK19-T8E3S	116	+0.6
NK22-C4E3	27	+2.7
NK23-P1E3	86	+0.7

Data: 10/30/24, Yield Dashboard, Agronomist: Mike Schultz

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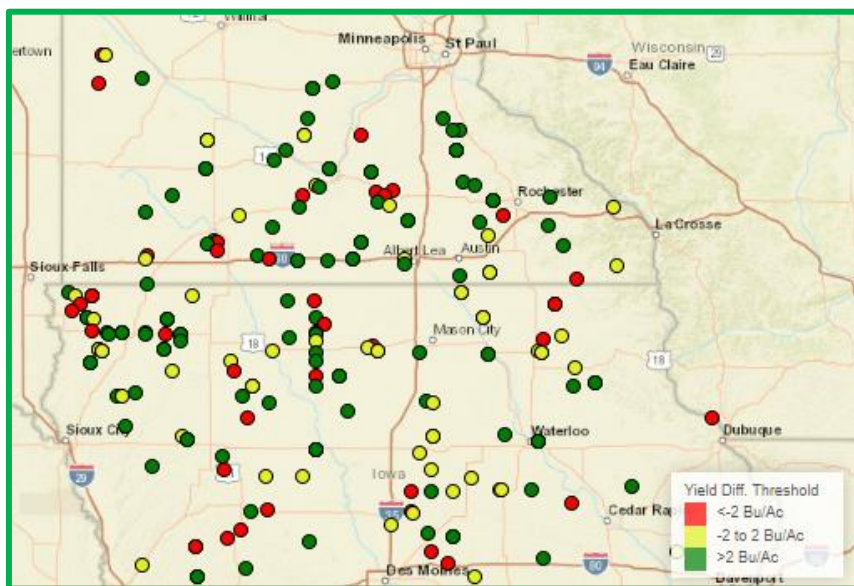
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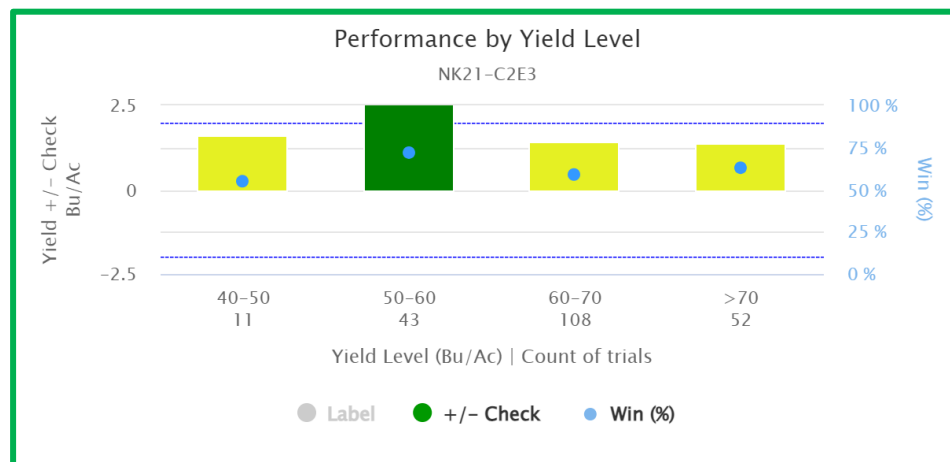
SOYBEAN YIELD RESULTS

NK21-C2E3 Performance – Regional

2022-2024, MN, IA VS NON-SYN CHECKS, +/- 0.2 RM



Cropwise 11124 Cropwise vs Croplan, Stine, Xitavo, Brevant, Pioneer, Alloy



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Thank You!



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