



NON-GMO | ORGANIC

Welcome!

To The

35th Annual

Prairie Hybrids Field Day





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Agronomy at Farmer Level

-Gilbert Hostetler

WHAT DID WE LEARN IN 2026 THAT MAKES US SUCCESSFUL

- Navigating the planter in cold soil temps
- Planting in cold soils brings on fusarium stalk rot
- The values of working ground 2 days ahead
- Pythium: how to work around it
- Corn needs nitrogen 2x2 in conventional or organic



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KERNAL COUNT DETERMINED



Sugar level in the stalk is what determined your harvest yield per ac. (kernel counts)



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KERNAL COUNT DETERMINED



Not enough sunlight for sugar production;
aborts kernels



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OUR GOALS FOR OUR CUSTOMERS

- Genetic Potential: 300 bu. per acre achieved
- Stay profitable—bu.
 - Help our growers be more efficient with fertility
- Even emergence—97% average or higher cold germ
- The correct hybrid placement for each farm
- Help our customers make small changes every year to keep raising their yield levels and start the regenerative ag path



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VALUES OF OUR SEED

- We are transparent with our cold germ (request from office or lookup on our website at planting)
- We plant our seed in March for emergence ratings
- Some of our seed has mycorrhiza fungi on seed production (this inoculates your field)
- R and D 10,000 (+ or -) hours a year=strong lineup
- R and D walks 16,000ish (2 or 4 row--20 ft. long) plots a year, not just AI



VALUES OF OUR SEED

- When you plant seed that was raised in a biological environment, it will have a regenerative impact to your farm
- Our customers say they can see the difference if the seed was raised by Prairie Hybrids' production



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Yield (bu/ac)

370
Instant

270
Field

Moisture %

21.3
Instant

23.5
Field

Field Acres

64.4

Load Moisture

23.3%

Load lbs

185,130

Load Yield (bu/ac)

301



EDIT



W of irri



2025 Corn



Yield



> 285 bu/ac

273 - 285 bu/ac

261 - 273 bu/ac

249 - 261 bu/ac

236 - 249 bu/ac

224 - 236 bu/ac

212 - 224 bu/ac

Head Height

38 %

Harvesting Crop

7445

Load

Load 9

New Load

Head
Lowered



Swath
Auto

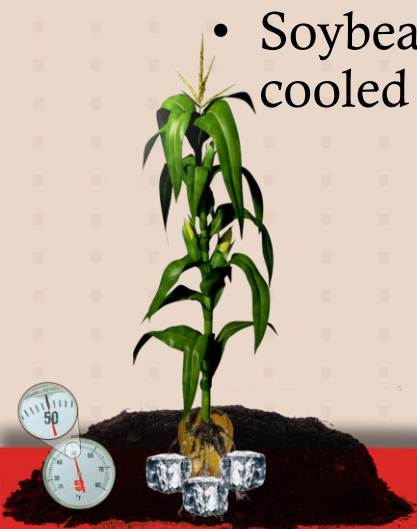


COLD GERMS 2025-2026

- Cold germ average last year: 96.7%
- Cold germ average this year: 96.5%
- Soybean seed after harvest, is cooled immediately
 - Soybean seed ages in the bin when it's not cooled down

PRairie
HYBRIDS

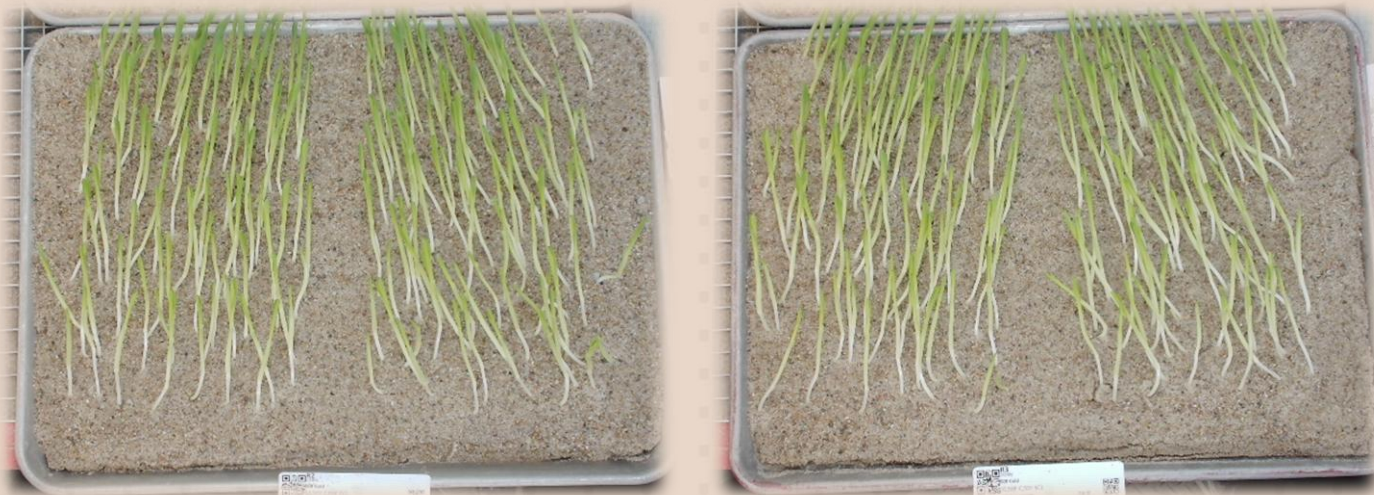
NON - GMO
SEED CORN



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KNOW YOUR COLD GERM. PERIOD.

- Know our competitor's cold germ
- Use SoDak Labs in south Dakota--real time data
- Not some university 📖



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CROWN ROTS MAKE THE HAIR ON US SEEDSMEN STAND ON END



Fusarium stalk rot



TAR SPOT

- Is a lack of available micronutrients to the biology
- A lack of sulfur, Zinc, Manganese and Copper available
- Our hybrids that are most tolerant or susceptible

Tolerant

- 817
- 1556
- 4991
- 4556
- 6436
- 6854
- 7207
- 8751

Susceptible

- 3259
- 3054/3051
- 5167
- 6987
- 8786
- 8681



LEAF DISEASES

Southern Rust—from the southwest



Northern Leaf Blight—happens 10 days after first cool night



Tar Spot—cool, damp, high humidity conditions



Curvularia Leaf Spot



PYTHIUM

- Pythium swims in wet soil like fish swim in water. Bottom line: in wet soil you can get pythium.



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WHEN YOU RUN A FIELD CULTIVATOR

- Think of it as if you have a million beef cows passing through your cultivator shovels
 - Give them time to make it through there without being killed



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A QUOTE ON THE FIELD CULTIVATOR

- The faster you go, the more problems you will have
- Soil does not like to be smashed to pieces
- You want to end up with crumbles, not dust



NO TILLS ORGANIC

WHY YOU WORK GROUND 2 DAYS AHEAD OF PLANTER

- Pythium dies—zoo spores swim in moisture
- You dry and die them out
- Strip till—you try to plant at 37-39% moisture max
- 40+ % moisture is a concern



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EVEN EMERGENCE

Worked ground 3 days
ahead of planter



EVEN EMERGENCE

I like biology in-furrow



Cultivated
same day



PYTHIUM: HOW TO WORK AROUND IT

Don't work
soil the same
day you plant



EVEN EMERGENCE

Does biology help?
Yes, and cold germ



300 bu. corn:
kernels are
visible



**NICE GREEN BRACE ROOTS TELL
US A STORY: 300 BU. POTENTIAL**



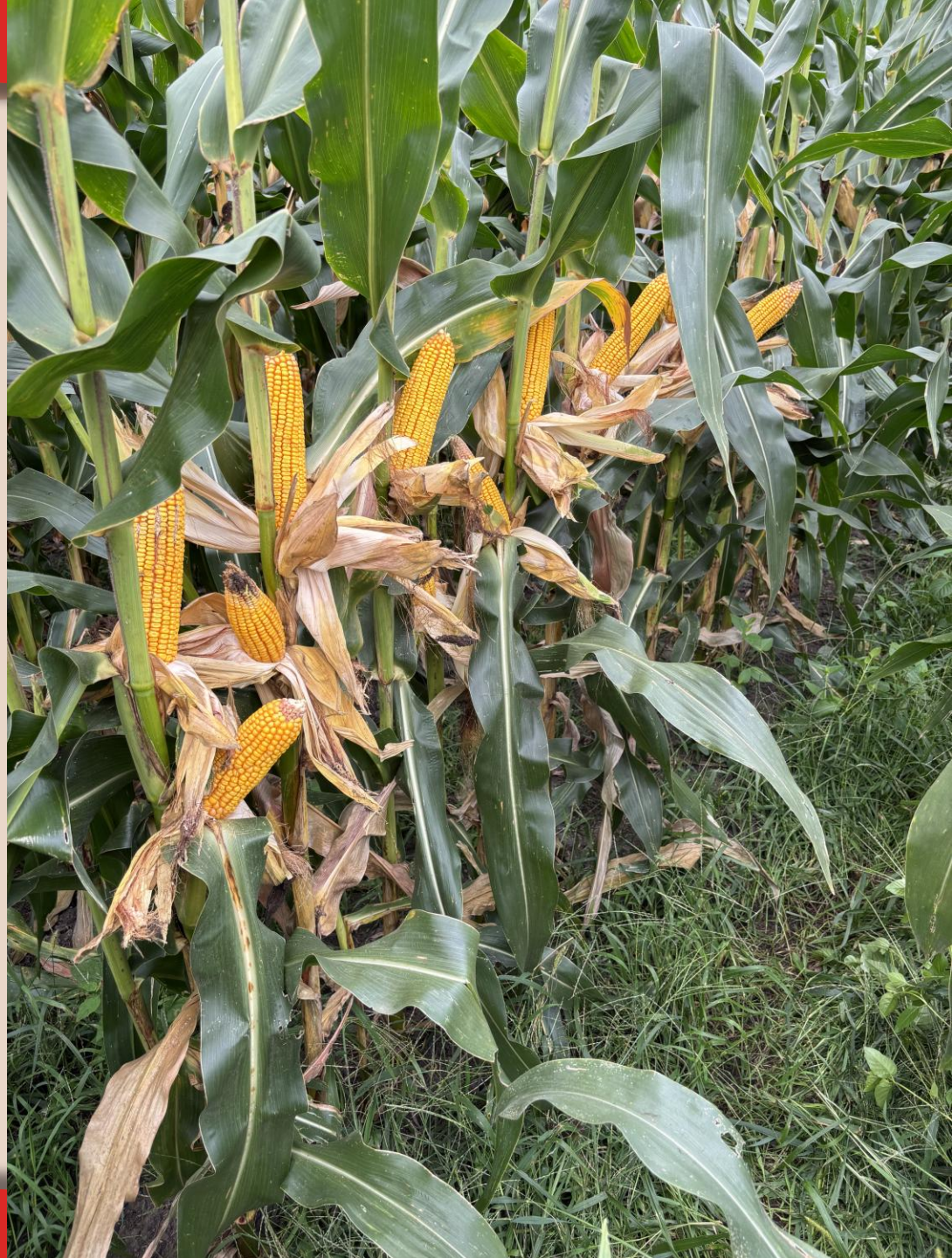
A HIGH YIELD PICTURE: YELLOW HUSK & GREEN PLANT





MY "ATTA-BOY FARMER"

6436: 2026



280ISH YIELD HERE



HOW DO I GET EVEN CORN EMERGENCE

When you add the correct form of biology--
mycorrhiza fungi--on the seed, this signals
all the seeds to consistently emerge at the
same time



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BIOLOGY IN-FURROW VALUES

- **Mycorrhiza fungi on the seed in-furrow infects the seed in a good way. It gives a signal to the seed that we are protecting it from disease and that is why they emerge evenner**
- **Mycorrhiza fungi (ABC), grows a hyphae on the roots to process the enzymes and melt minerals to get available nutrition for the plant (Phos, zinc, iron, micros)**

IN-FURROW –LESS WEED PRESSURE

- Only biology-no NPK
- Weeds are telling us that calcium is tied up/not available, so you add ABC fungi to make calcium available and you have less weeds
- Farmers report on organic they see 50% reduction in weed pressure with ABC in-furrow
 - Works in gardens



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HEAVY WEED PRESSURE—WHY

- Calcium in the soil is not available
- Worked the soil too wet
- Trapped carbon dioxide from working soil too fast and making it too fine
- Not enough mycorrhiza fungi in the soil



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ORGANIC

SOIL
REGENERATION

ABC

SOIL HEALTH

LIQUID FISH • BIOMENTUM • HUMIC ACID

Guaranteed Analysis:

Total Nitrogen (N)	.54%	Zinc (Zn)	.0070%
Organic Nitrogen (N)	.43%	Iron (Fe)	.120%
Ammonical Nitrogen (NH3)	.030%	Manganese (Mn)	.0020%
Nitrate Nitrogen (NO3)	.080%	Copper (Cu)	.0020%
Potassium (K2O)	.69%	Boron (B)	.010%
Sulfur (S)	.46%	Total Carbon (C)	3.46%

Derived From: Filtered water, liquid molasses (omri listed), liquid fish (omri listed) liquid kelp (omri listed), natural occurring lactic acid bacteria, naturally chelated trace minerals, and humic acid

Soil Application Rates: At Planting: 3 quarts per acre in furrow (corn and/or soybeans)



Manufactured For:
Terra Transitional Solutions
3480 440th Street, Orange City, IA 51041

03/26

NET WEIGHT:
8.9 lbs/gal

6 QUARTS ABC IN-FURROW



6 quarts--no
RPD yet





North (30104456)



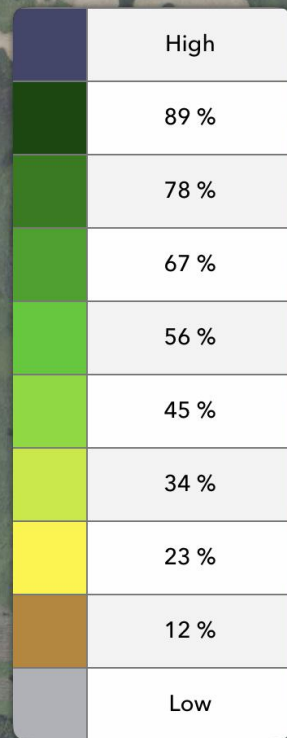
2026 Corn



FH - 07/08/2026 - Vegeta...



Physagro
BIOME



Yield (bu/ac)

359	268
Instant	Field

Moisture %

22.2	23.5
Instant	Field

Field Acres

61.2

Load Moisture

23.4%

Load lbs

126,790

Load Yield (bu/ac)

302

EDIT

W of irri

2025 Corn

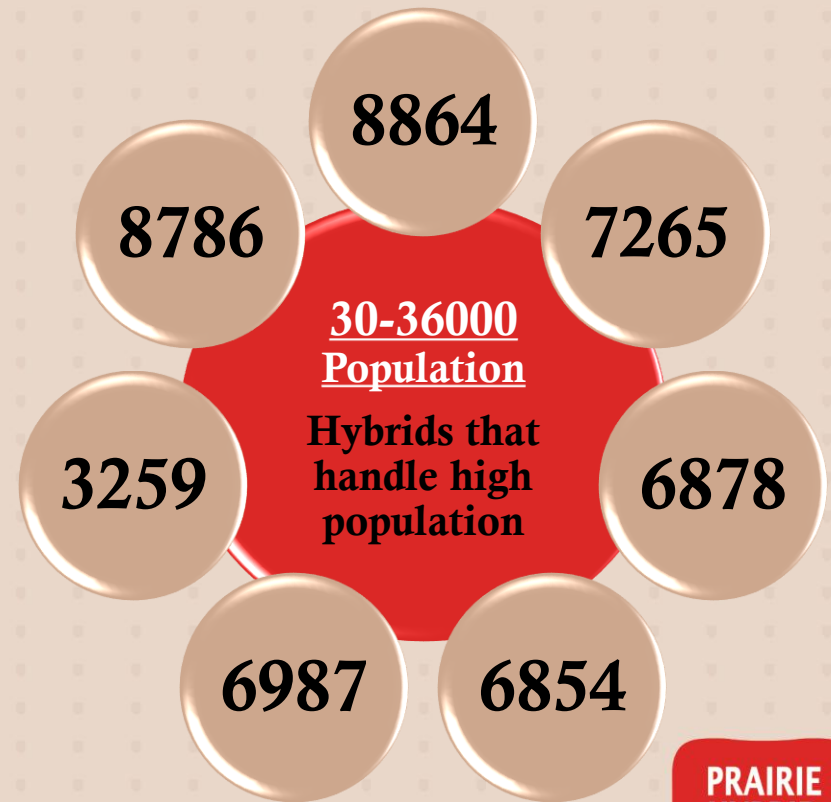
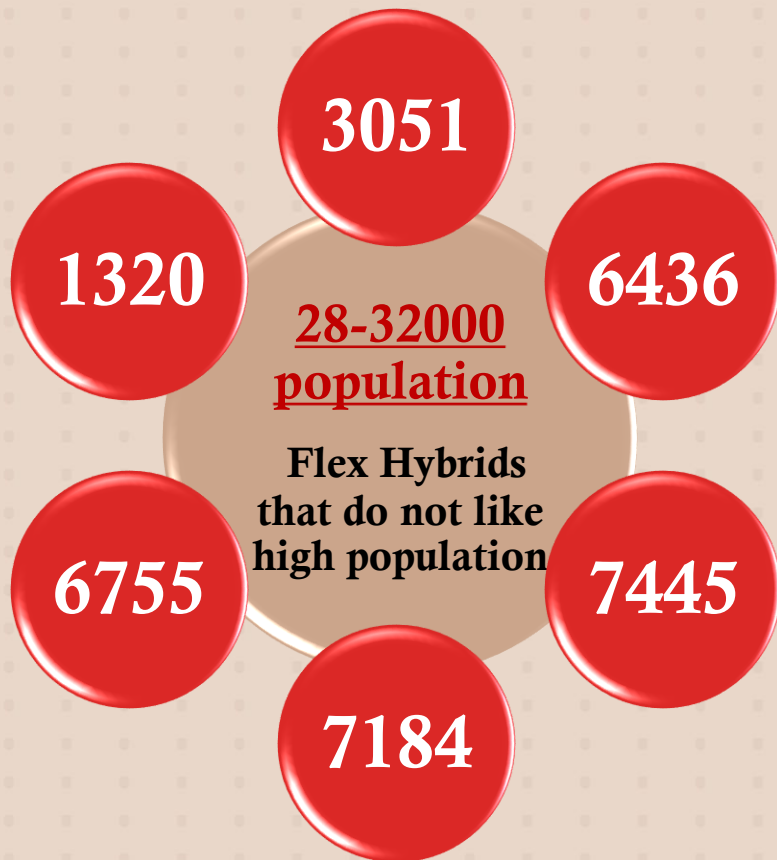
Yield

Navigation icons: Map, Tractor, Minus, Plus, Split View, Grid, Back, Home, Recent, Document

Head Height	Harvesting Crop	Load	New Load
36 %	7445	Load 9	
Head Lowered			Swath Auto

> 285 bu/ac
273 - 285 bu/ac
261 - 273 bu/ac
249 - 261 bu/ac
236 - 249 bu/ac
224 - 236 bu/ac
212 - 224 bu/ac

HYBRIDS PER POPULATION- SAME YIELD POTENTIAL

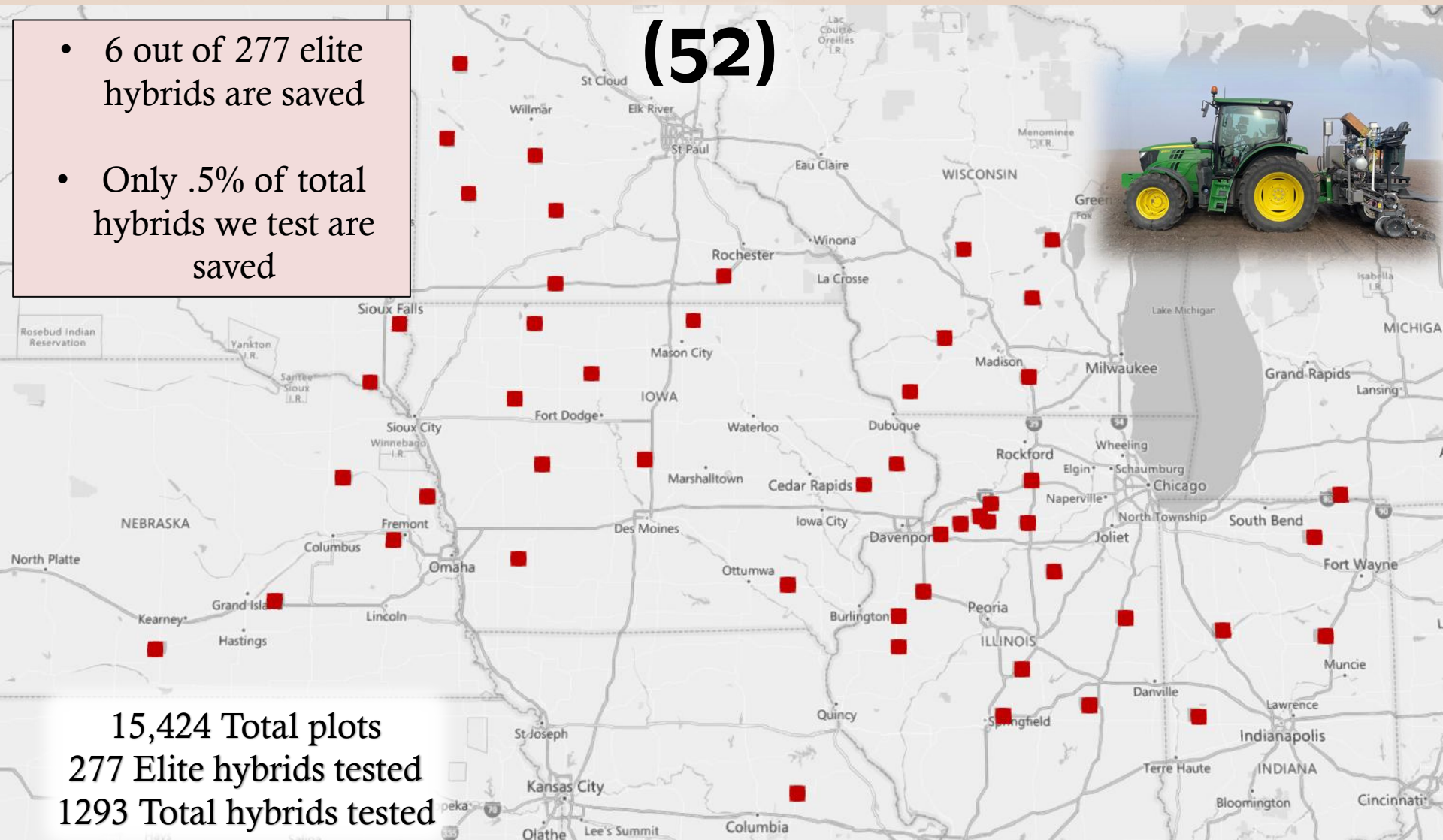


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PRAIRIE RESEARCH TESTING LOCATIONS

- 6 out of 277 elite hybrids are saved
- Only .5% of total hybrids we test are saved

(52)



15,424 Total plots
277 Elite hybrids tested
1293 Total hybrids tested

TREATMENT RESEARCH TRIALS

[5141 26 Emerge+ vs. 5141 26 Sapphire Seed Coat,5141 26 Bio-Ferm 2,...] Treatment Head to Head

Description	Year	% Stand	% Runts	% Good Stand	#Locs
5141 26 Emerge+	2026	83.9			3
5141 26 Sapphire Seed Coat	2026	84.4			3
Difference	2026	-0.5			3
#Reps	2026	11	0	0	3
Pct #1 Wins	2026	67			3
 5141 26 Emerge+	 2026	 83.6			 3
5141 26 Bio-Ferm 2	2026	83.9			3
Difference	2026	-0.3			3
#Reps	2026	11	0	0	3
Pct #1 Wins	2026	33			3
 5141 26 Emerge+	 2026	 83.6			 3
5141 26 Verone	2026	83.9			3
Difference	2026	-0.3			3
#Reps	2026	11	0	0	3
Pct #1 Wins	2026	67			3
 5141 26 Emerge+	 2026	 83.3			 3
5141 26 Silver ST	2026	83.1			3
Difference	2026	0.2			3
#Reps	2026	12	0	0	3
Pct #1 Wins	2026	67			3

All treatment formulations tested: 86

Locations: 3

HYBRID SELECTION AND REJECTION

6436

- ✓ Yield
- ✓ Stalks
- ✓ Disease resistance
- Emergence
- ✓ Roots
- ✓ Ear Height

EX1290

- Emergence
- ✓ Yield
- ✓ Stalks
- ✓ Disease resistance
- ✓ Emergence
- ✓ Roots
- ✗ Ear consistency



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VALUE WE BRING TO THE TABLE IN RESEARCH

- All efforts on Non-GMO and organic genetics
- Man hours: 7,000-10,000 per year
- Mud on our boots; we walk every plot
- **Our goal is to end up with a very strong lineup with a low risk level for the farmer**



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6436 YIELD DATA

[6436 vs. Becks 6046,P1185,P0924,P1359,Becks 6557,Becks 5741,...] PH Head to Head For Dealers PDF

Description	Yield	Moisture	Y/M Ratio	Stlk Ldg %	Rt Ldg %	TW	Population (acre)	Overall Plot Rate	#Locs Year
6436	248.9	17.8	14.2	3.2	2.2	58.6	33174	7.1	21 2025
P0924	232.4	17.6	13.5	1.1	2.1	59.6	32655	7.3	21 2025
Difference	16.5	0.2	0.7	2.1	0.1	-1.0	519	-0.2	21 2025
6436	241.8	17.4	14.2	3.9	1.3	58.1	33461	7.0	43 2024-2025
P1359	233.1	17.3	13.8	3.5	4.4	58.6	33164	6.9	43 2024-2025
Difference	8.7	0.1	0.4	0.4	-3.1	-0.5	297	0.1	43 2024-2025
6436	242.2	17.3	14.3	3.9	1.2	58.2	33336	7.0	43 2024-2025
Becks 6557	234.4	19.0	12.6	3.2	1.0	58.4	32196	7.1	43 2024-2025
Difference	7.8	-1.7	1.7	0.7	0.2	-0.2	1140	-0.1	43 2024-2025
6436	248.9	17.8	14.2	3.2	2.2	58.6	33174	7.1	21 2025
Becks 5741	232.7	16.5	14.4	7.4	2.6	59.2	33569	6.4	21 2025
Difference	16.2	1.3	-0.2	-4.2	-0.4	-0.6	-395	0.7	21 2025
6436	251.4	18.0	14.3	3.1	2.4	58.3	33164	7.2	20 2025
NuTech 70A8	232.5	17.2	13.7	1.8	1.4	59.2	33244	6.4	20 2025
Difference	18.9	0.8	0.6	1.3	1.0	-0.9	-80	0.8	20 2025
6436	240.3	17.9	13.8	3.9	1.2	57.9	33803	7.2	22 2025
DKC111-30	226.6	18.7	12.7	0.2	2.2	59.3	33170	6.7	22 2025
Difference	13.7	-0.8	1.1	3.7	-1.0	-1.4	633	0.5	22 2025
6436	248.9	17.8	14.2	3.2	2.2	58.6	33174	7.1	21 2025
DKC59-80	228.5	16.9	13.8	0.8	1.2	59.2	32741	6.5	21 2025
Difference	20.4	0.9	0.4	2.4	1.0	-0.6	433	0.6	21 2025
6436	239.5	18.0	13.8	4.1	1.2	57.7	33669	7.2	21 2025
W7940	249.7	20.3	12.9	1.5	2.9	56.2	33352	7.8	21 2025
Difference	-10.2	-2.3	0.9	2.6	-1.7	1.5	317	-0.6	21 2025
6436	247.6	17.6	14.4	3.1	2.1	58.4	32962	7.1	24 2025
P1185	234.9	18.1	13.3	1.7	1.2	59.6	33620	7.3	24 2025
Difference	12.7	-0.5	1.1	1.4	0.9	-1.2	-658	-0.2	24 2025

7445 YIELD DATA

[7445 vs. 6251,6854,6436,7241,6878,7184,7265,8904,8786,8864,...] PH Head to Head For Dealers PDF

Description	Yield	Moisture	Y/M Ratio	Stlk Ldg %	Rt Ldg %	TW	Population (acre)	Overall Plot Rate	#Locs Year
7445	236.0	18.3	13.2	2.4	3.7	57.8	32612	6.9	23 2025
DKC111-30	227.3	18.7	12.7	0.2	2.1	59.3	33131	6.8	23 2025
Difference	8.7	-0.4	0.5	2.2	1.6	-1.5	-519	0.1	23 2025
7445	240.8	18.0	13.6	4.0	2.7	57.7	31821	7.0	43 2024-2025
W7870	231.1	18.6	12.8	0.6	0.3	57.9	32568	7.5	43 2024-2025
Difference	9.7	-0.6	0.8	3.4	2.4	-0.2	-747	-0.5	43 2024-2025
7445	237.2	18.4	13.3	2.5	3.9	57.6	32574	6.9	22 2025
W7940	249.3	20.4	12.8	2.0	2.7	56.2	33403	7.9	22 2025
Difference	-12.1	-2.0	0.5	0.5	1.2	1.4	-829	-1.0	22 2025
7445	236.2	18.9	12.8	1.7	4.6	57.0	32536	6.8	35 2025
8786	225.1	18.2	12.7	0.7	1.8	59.7	32819	7.0	35 2025
Difference	11.1	0.7	0.1	1.0	2.8	-2.7	-283	-0.2	35 2025
7445	239.5	18.0	13.5	3.5	2.4	57.5	31756	7.0	56 2024-2025
8864	228.4	17.8	13.1	1.4	2.2	57.9	32734	7.0	56 2024-2025
Difference	11.1	0.2	0.4	2.1	0.2	-0.4	-978	0.0	56 2024-2025
7445	239.6	18.3	13.3	3.7	2.9	57.6	32072	7.0	56 2024-2025
8683/8681	228.5	19.1	12.3	3.7	4.4	58.6	33322	6.9	56 2024-2025
Difference	11.1	-0.8	1.0	0.0	-1.5	-1.0	-1250	0.1	56 2024-2025
7445	245.3	18.2	13.6	0.6	0.0	56.2	30864	6.9	6 2024-2025
P1185	232.3	16.6	14.2	0.6	0.0	59.5	31339	7.2	6 2024-2025
Difference	13.0	1.6	-0.6	0.0	0.0	-3.3	-475	-0.3	6 2024-2025
7445	239.3	18.1	13.4	4.1	2.6	57.5	31861	7.0	49 2024-2025
P1359	232.4	17.1	13.9	3.2	4.0	58.7	33141	6.9	49 2024-2025
Difference	6.9	1.0	-0.5	0.9	-1.4	-1.2	-1280	0.1	49 2024-2025

Yield (bu/ac)

353
Instant

267
Field

Moisture %

23.5
Instant

23.5
Field

Field Acres

59.3

Load Moisture

23.3%

Load lbs

90,782

Load Yield (bu/ac)

303



EDIT



W of irri



2025 Corn



Yield



Head Height

40 %

Harvesting Crop

7445

Load

Load 9

New Load

Head
Lowered



Swath
Auto

> 285 bu/ac

273 - 285 bu/ac

261 - 273 bu/ac

249 - 261 bu/ac

236 - 249 bu/ac

224 - 236 bu/ac

212 - 224 bu/ac

HOW DO I GET AMMONIA NITROGEN

Conventional

- Use AMS dry or lots of thiosulfate with 32%
- Use N-Guage from Summit Gold (N stabilizer)



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ORGANIC: HOW DO I GET AMMONIA N

- Use 2 lbs. of kelp a year (organic farmers)
- Use sulfur 40-70 lbs. a year
- Copper also helps this conversion



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PLANTER RULES TO FOLLOW

- The first 7 hours behind the planter is the most critical.
- Always remember this**

Optimum moisture from Smart Firmers

- 36% to 39%
- 42-48 is too wet
- Soil temps: stay above 50 degrees



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QUESTIONS?



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Thank you for Coming!