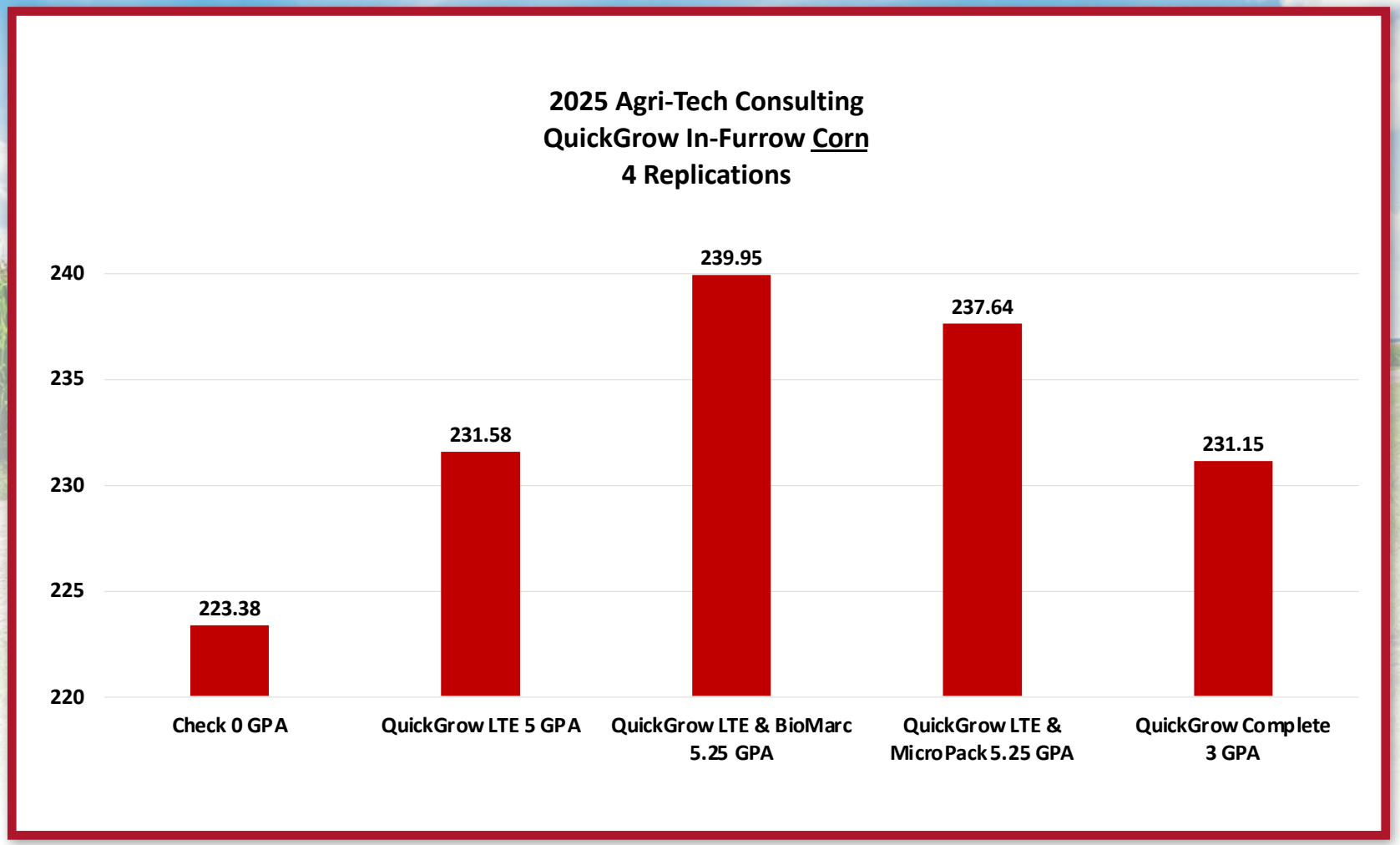
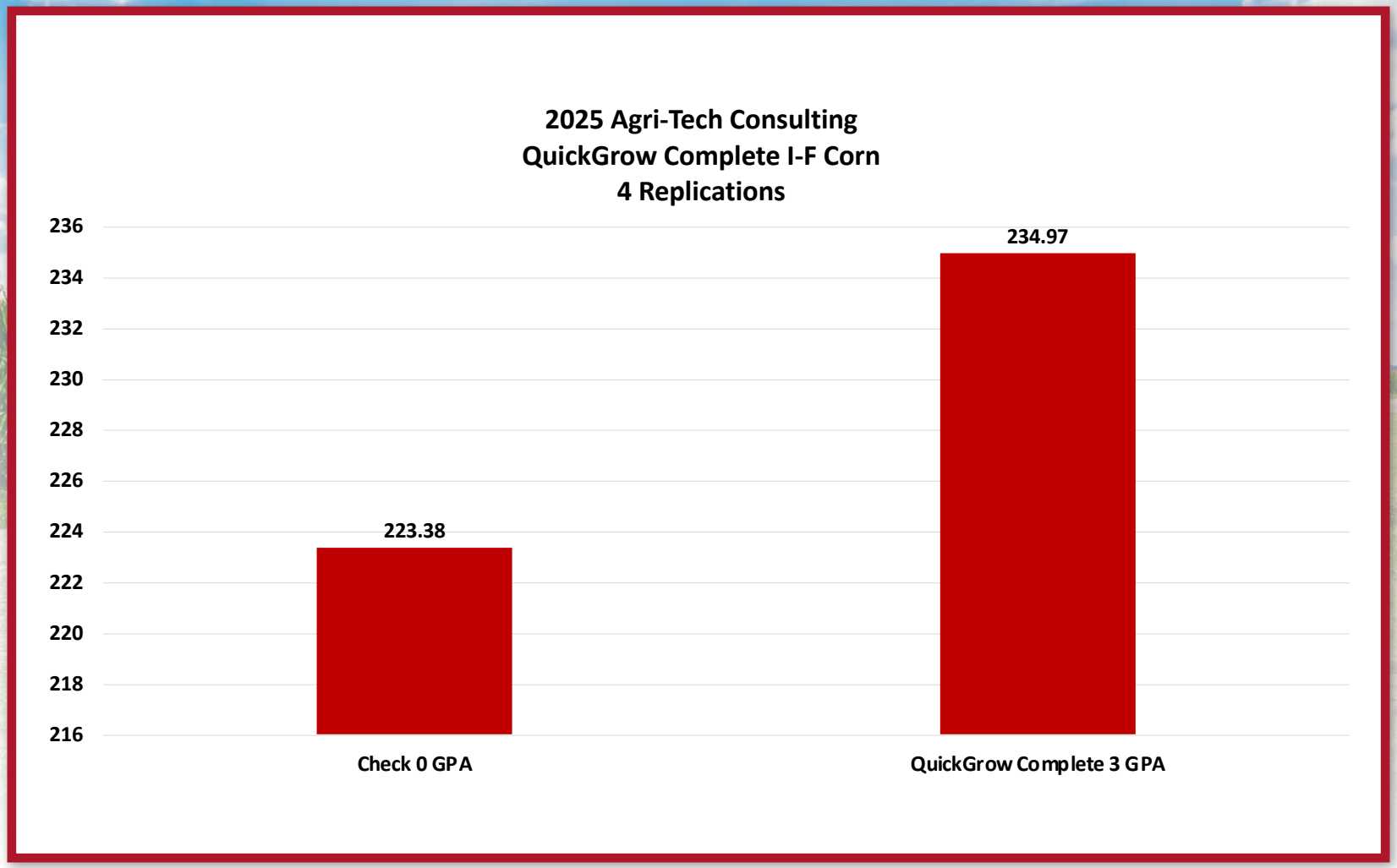
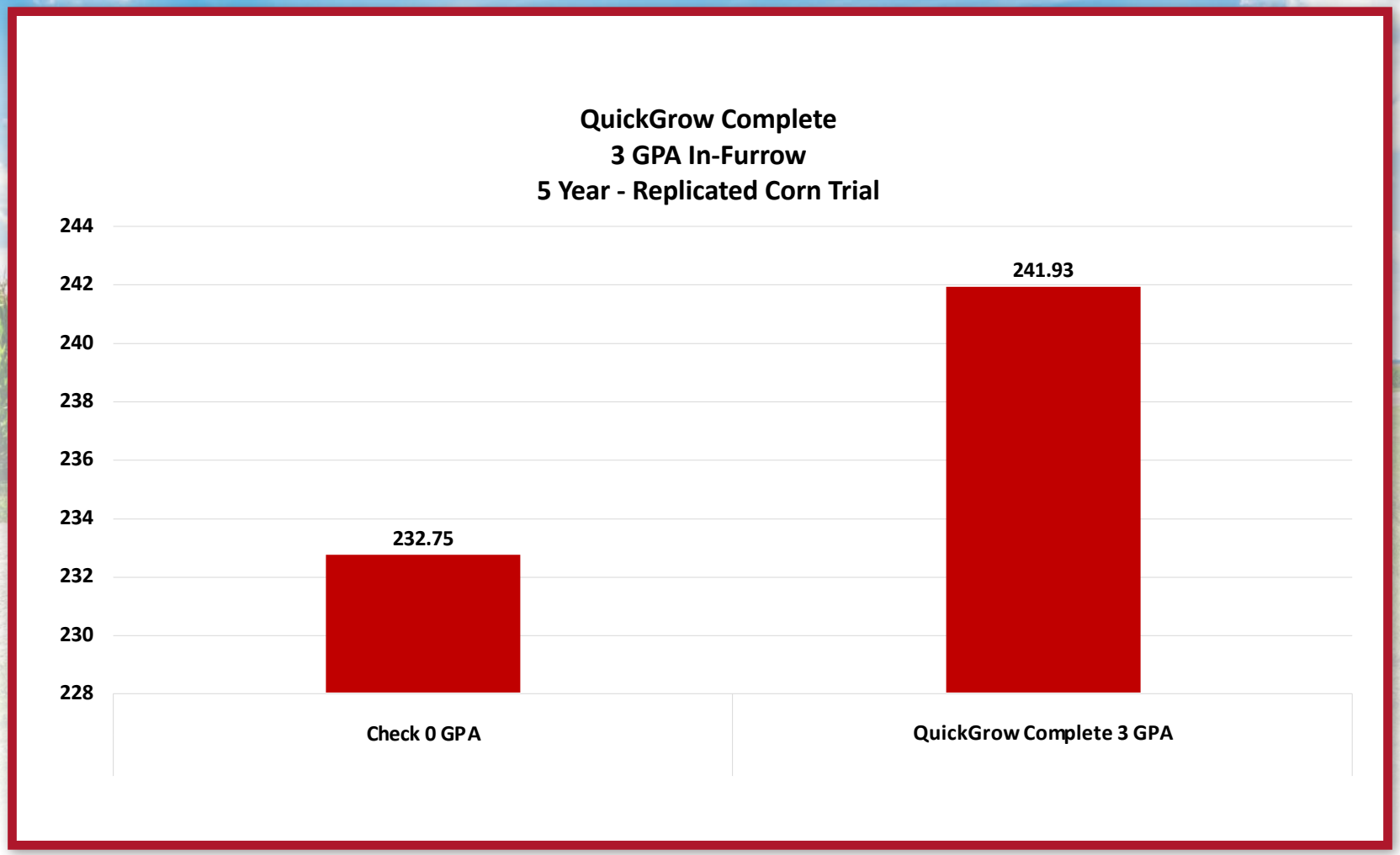
MARCO®

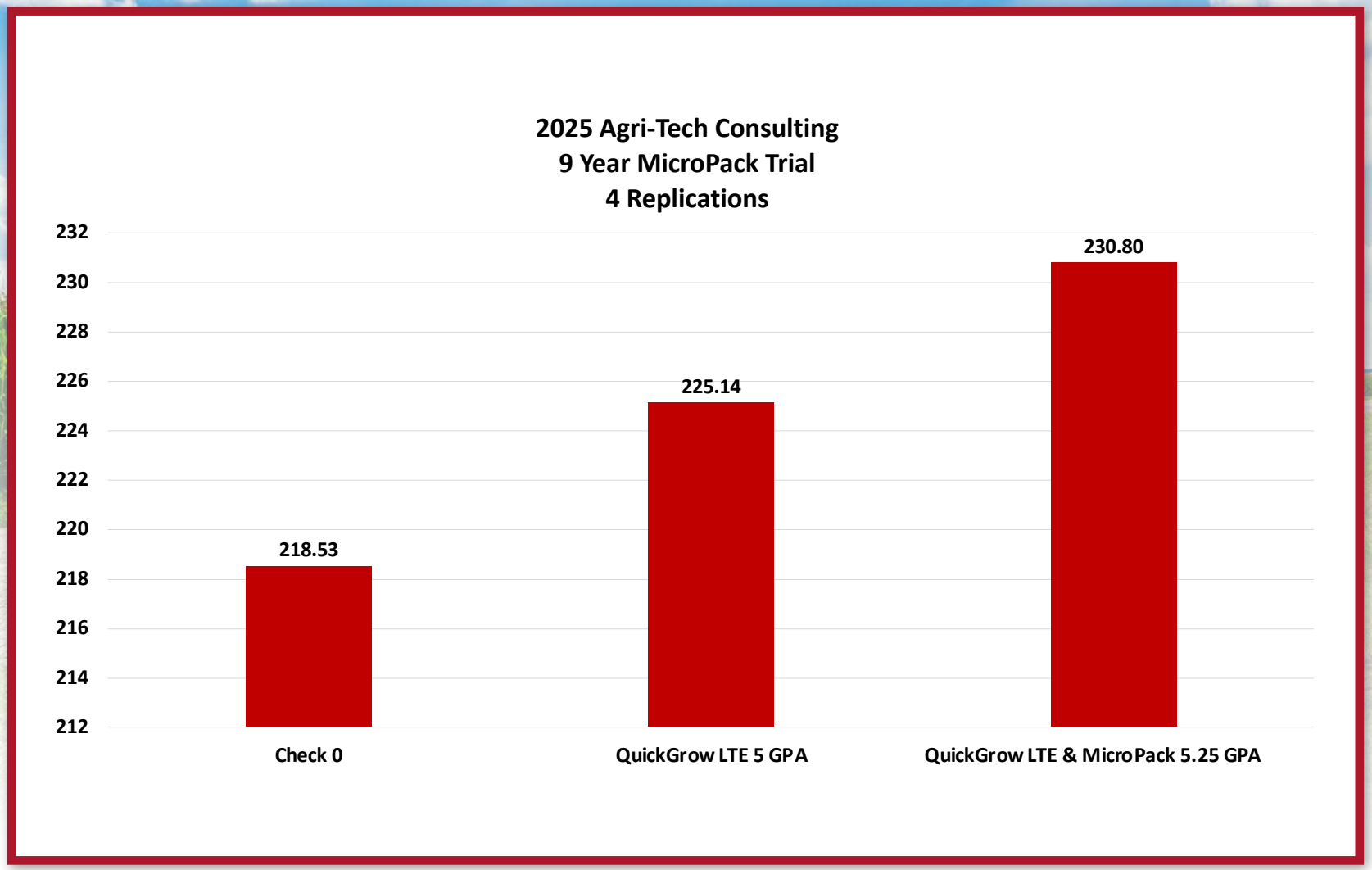
Research Trials 2025


MARCO®
MARCO®
QuickGrow™


2025 Agri-Tech Consulting
QuickGrow In-Furrow Corn
4 Replications
240
235
230
225
220
223.38
231.58
239.95
237.64
231.15
Check 0 GPA
QuickGrow LTE 5 GPA
QuickGrow LTE & BioMarc 5.25 GPA
QuickGrow LTE & MicroPack 5.25 GPA
QuickGrow Complete 3 GPA


2025 Agri-Tech Consulting
QuickGrow Complete I-F Corn
4 Replications
236
234
232
230
228
226
224
222
220
218
216
223.38
234.97
Check 0 GPA
QuickGrow Complete 3 GPA


QuickGrow Complete
3 GPA In-Furrow
5 Year - Replicated Corn Trial
244
242
240
238
236
234
232
230
228
232.75
241.93
Check 0 GPA
QuickGrow Complete 3 GPA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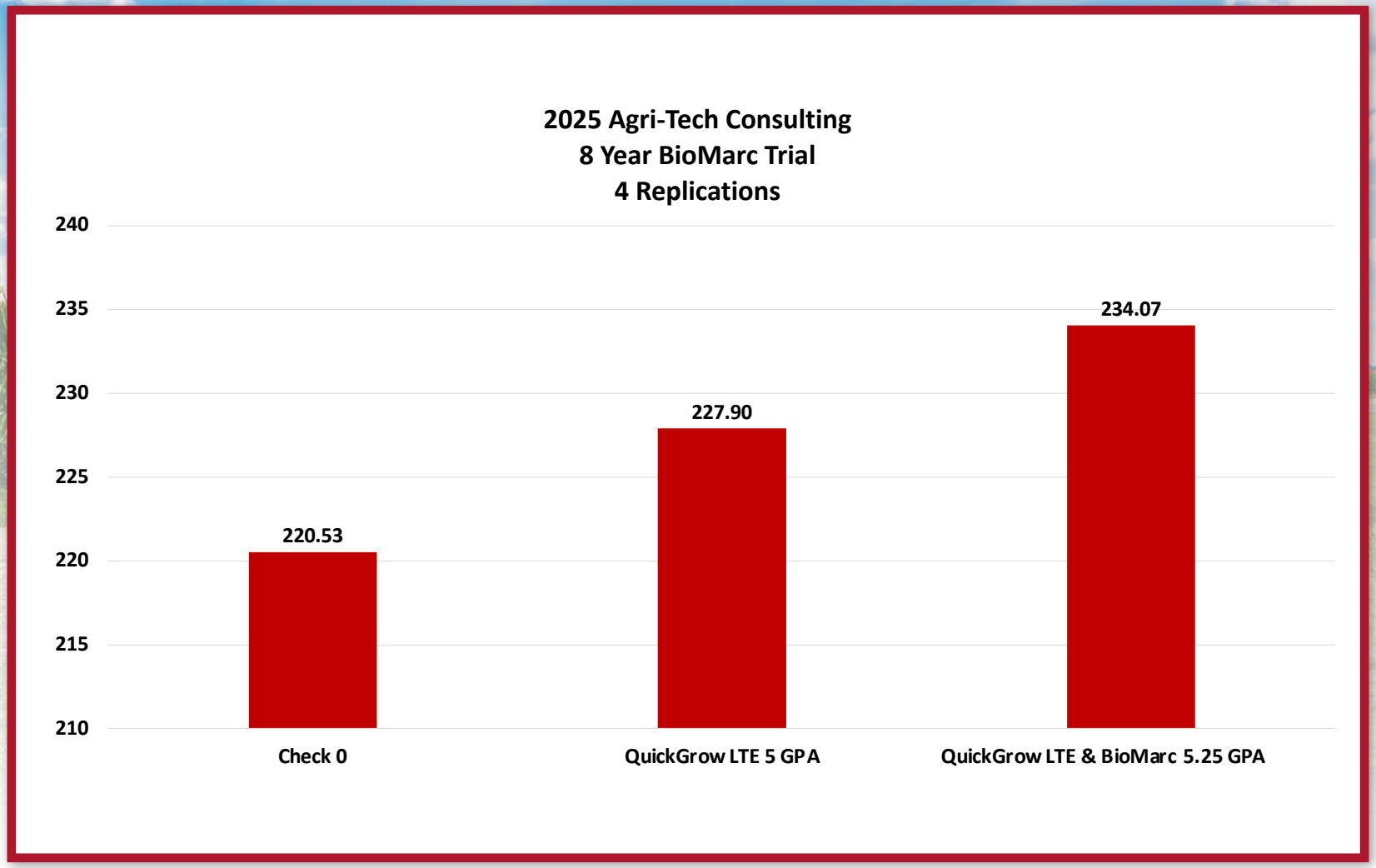
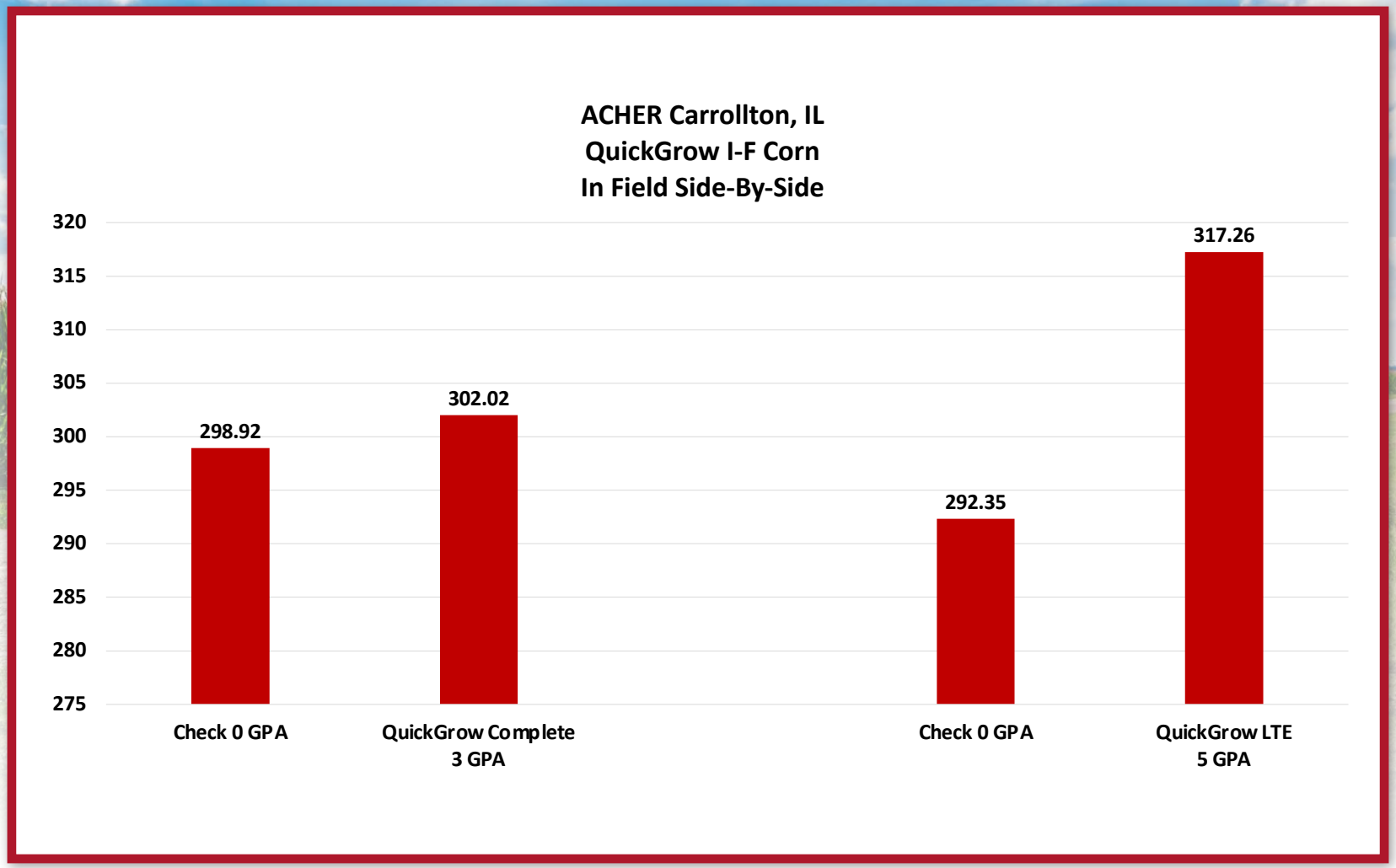
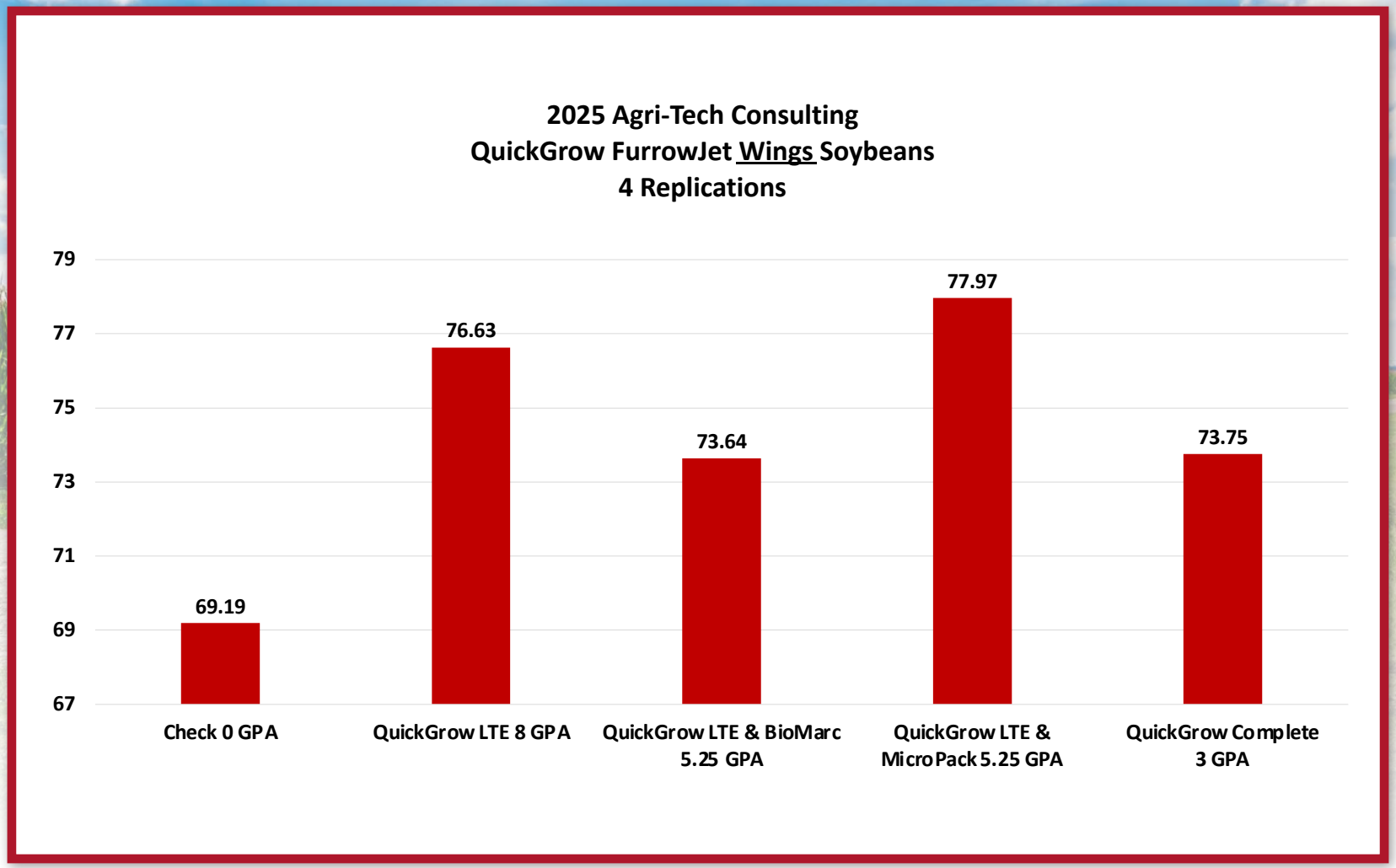
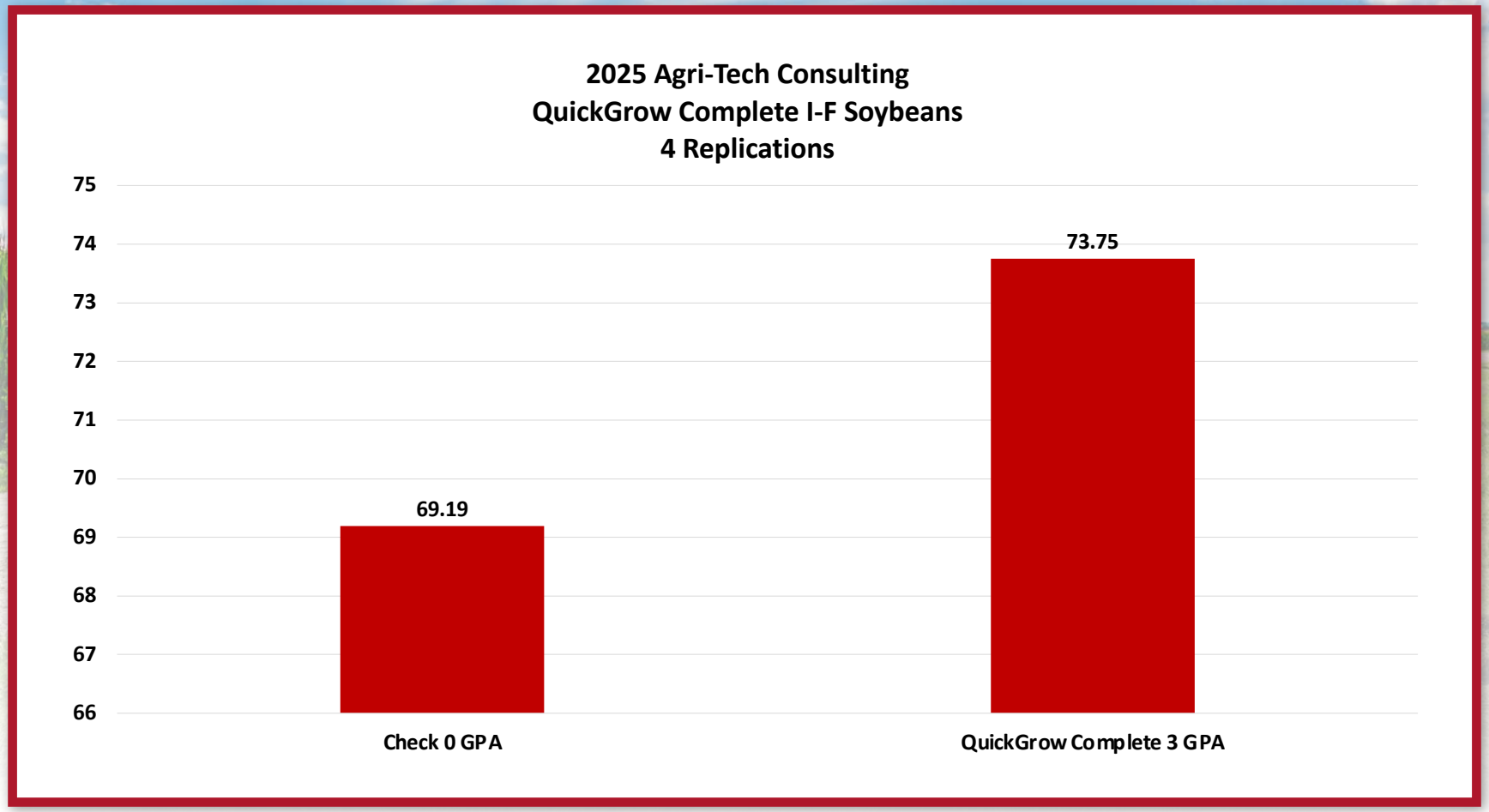
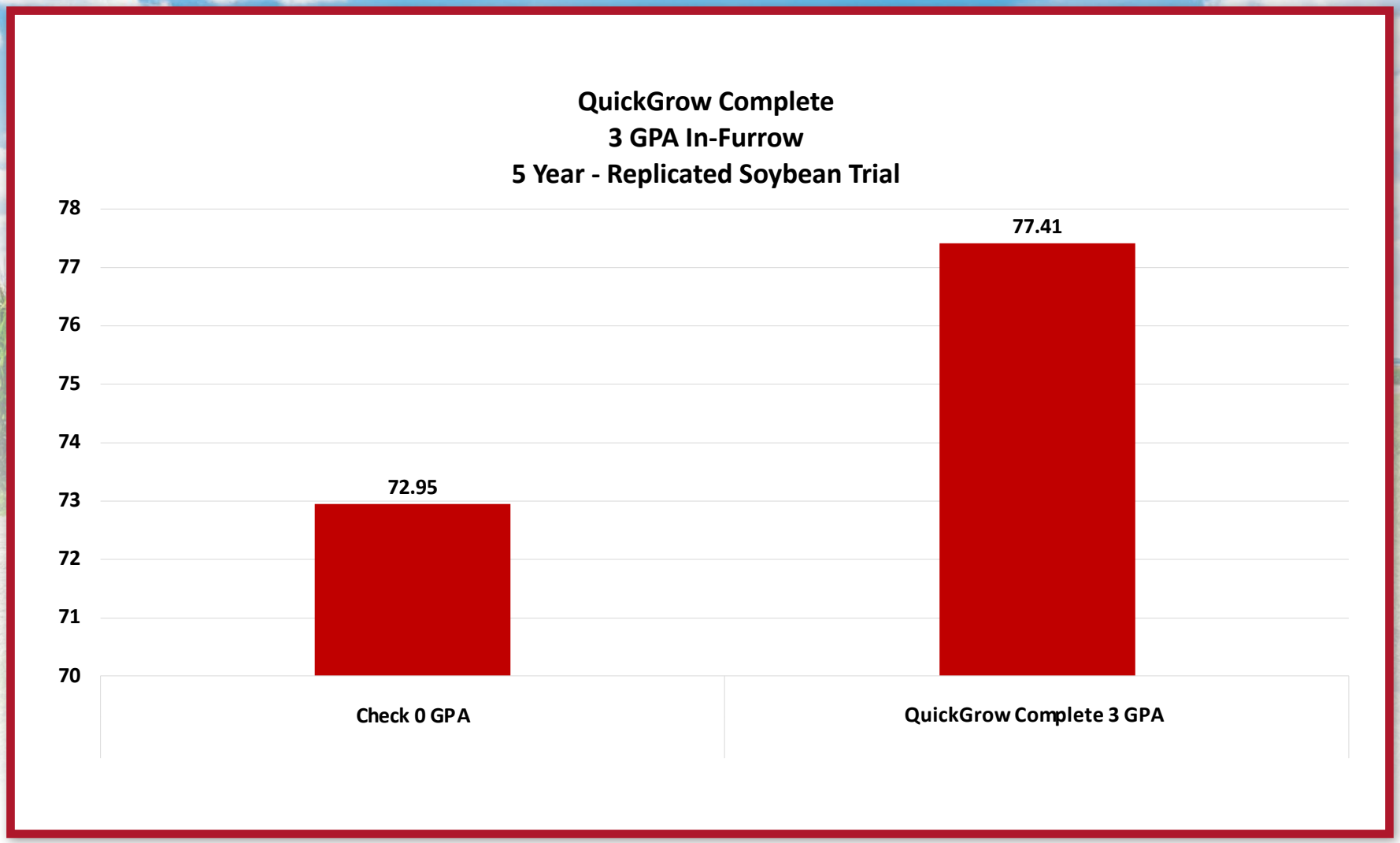
9 Year MicroPack Trial
4 Replications
232
230
228
226
224
222
220
218
216
214
212
218.53
225.14
230.80
Check 0
QuickGrow LTE 5 GPA
QuickGrow LTE & MicroPack 5.25 GPA


2025 Agri-Tech Consulting
8 Year BioMarc Trial
4 Replications
240
235
230
225
220
215
210
220.53
227.90
234.07
Check 0
QuickGrow LTE 5 GPA
QuickGrow LTE & BioMarc 5.25 GPA


ACHER Carrollton, IL
QuickGrow I-F Corn
In Field Side-By-Side
320
315
310
305
300
295
290
285
280
275
298.92
302.02
292.35
317.26
Check 0 GPA
QuickGrow Complete 3 GPA
Check 0 GPA
QuickGrow LTE 5 GPA


2025 Agri-Tech Consulting
QuickGrow FurrowJet Wings Soybeans
4 Replications
79
77
75
73
71
69
67
69.19
76.63
73.64
77.97
73.75
Check 0 GPA
QuickGrow LTE 8 GPA
QuickGrow LTE & BioMarc 5.25 GPA
QuickGrow LTE & MicroPack 5.25 GPA
QuickGrow Complete 3 GPA


2025 Agri-Tech Consulting
QuickGrow Complete I-F Soybeans
4 Replications
75
74
73
72
71
70
69
68
67
66
69.19
73.75
Check 0 GPA
QuickGrow Complete 3 GPA


QuickGrow Complete
3 GPA In-Furrow
5 Year - Replicated Soybean Trial
78
77
76
75
74
73
72
71
70
72.95
77.41
Check 0 GPA
QuickGrow Complete 3 GPA

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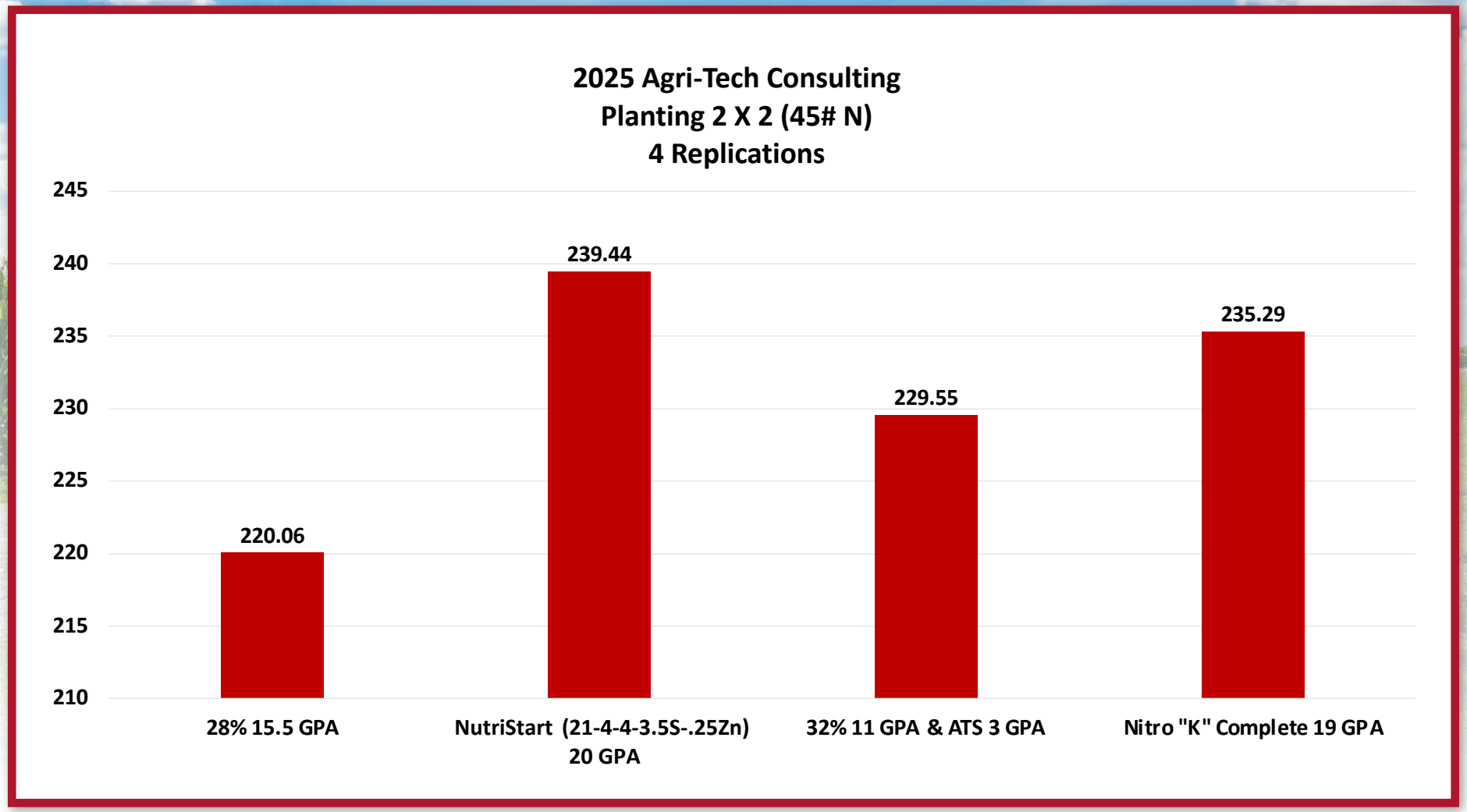
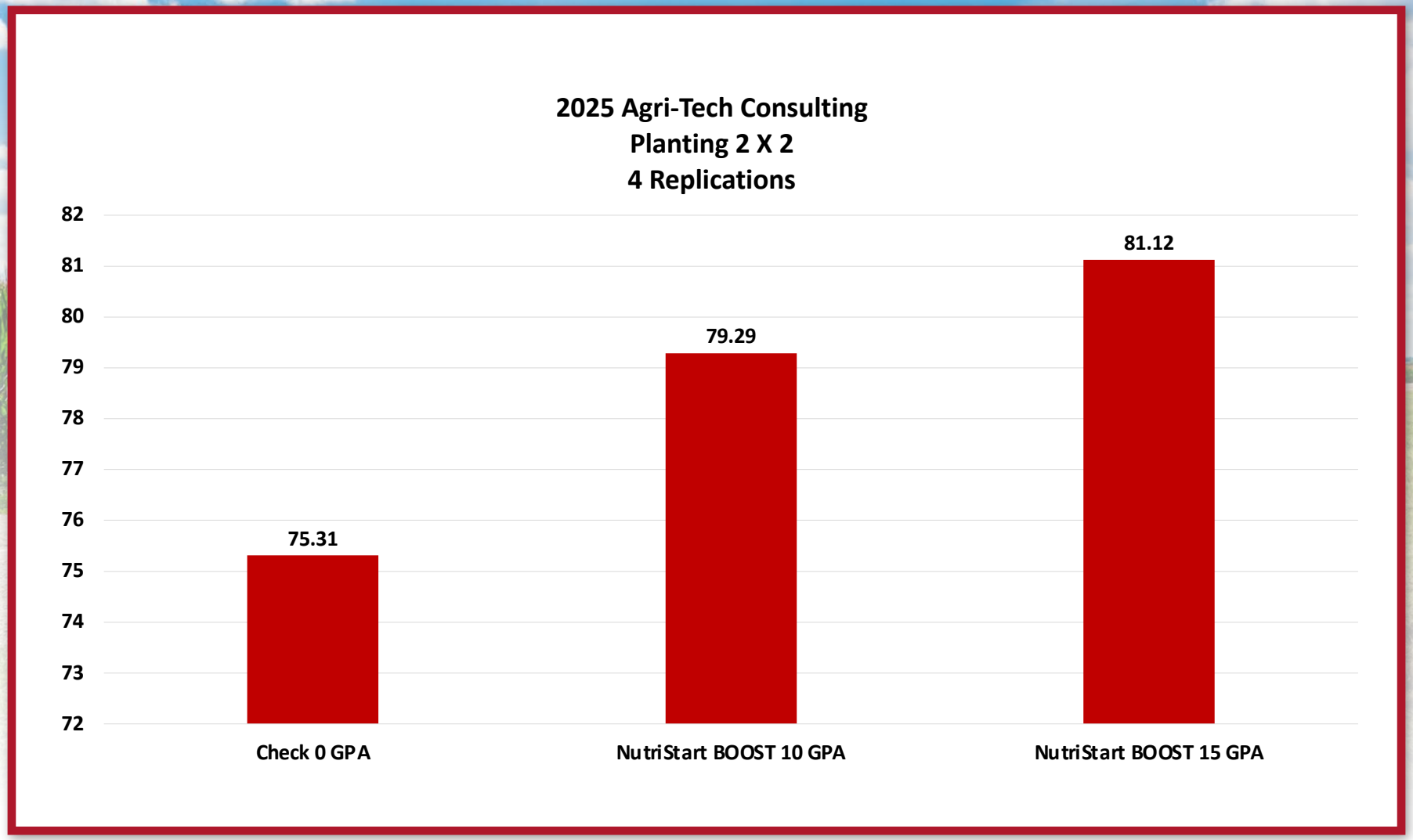
NutriStart


2025 Agri-Tech Consulting
Planting 2 X 2 (45# N)
4 Replications
245
240
235
230
225
220
215
210
220.06
239.44
229.55
235.29
28% 15.5 GPA
NutriStart (21-4-4-3.5S-.25Zn) 20 GPA
32% 11 GPA & ATS 3 GPA
Nitro "K" Complete 19 GPA


2025 Agri-Tech Consulting
Planting 2 X 2
4 Replications
82
81
80
79
78
77
76
75
74
73
72
75.31
79.29
81.12
Check 0 GPA
NutriStart BOOST 10 GPA
NutriStart BOOST 15 GPA

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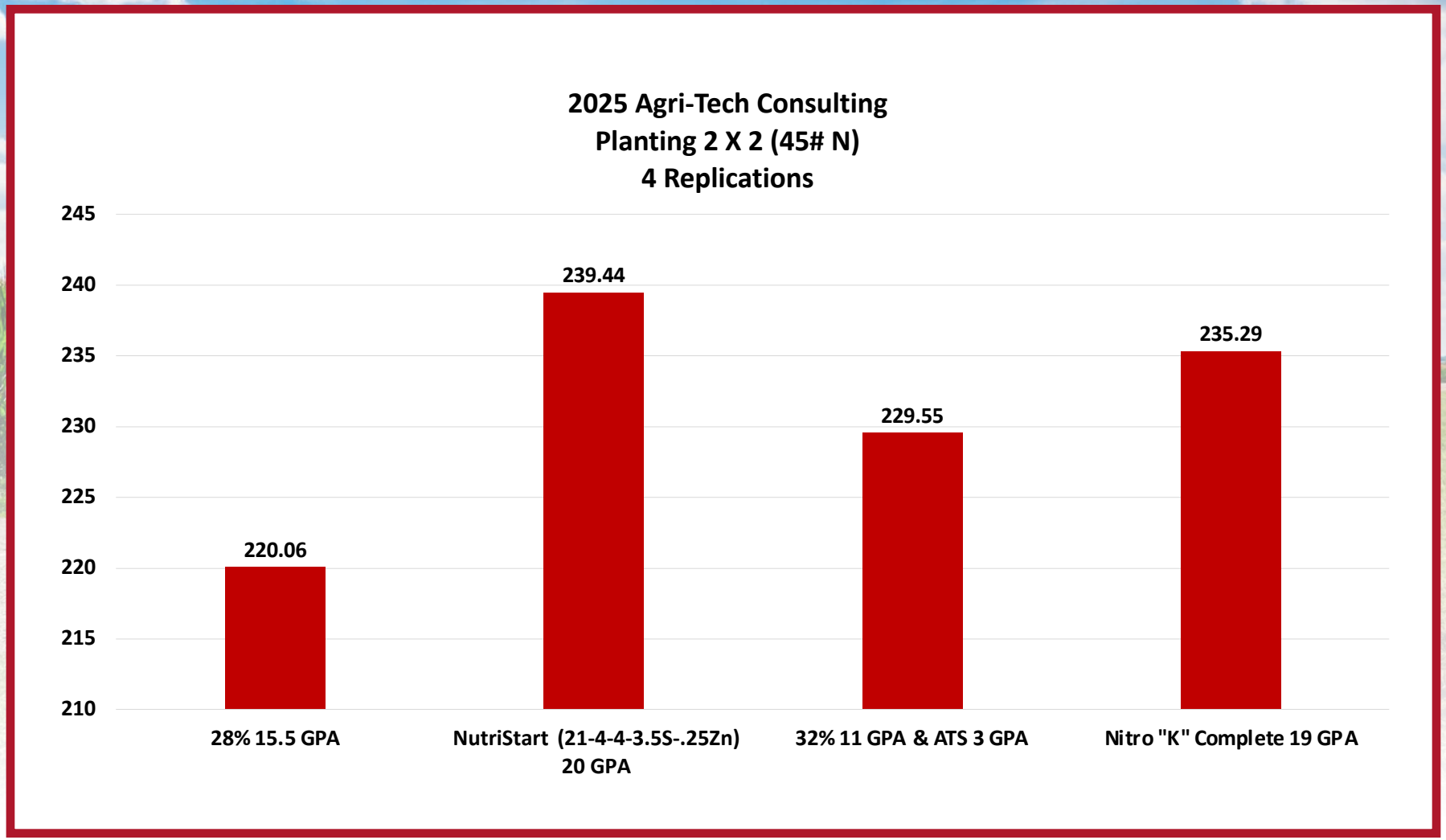
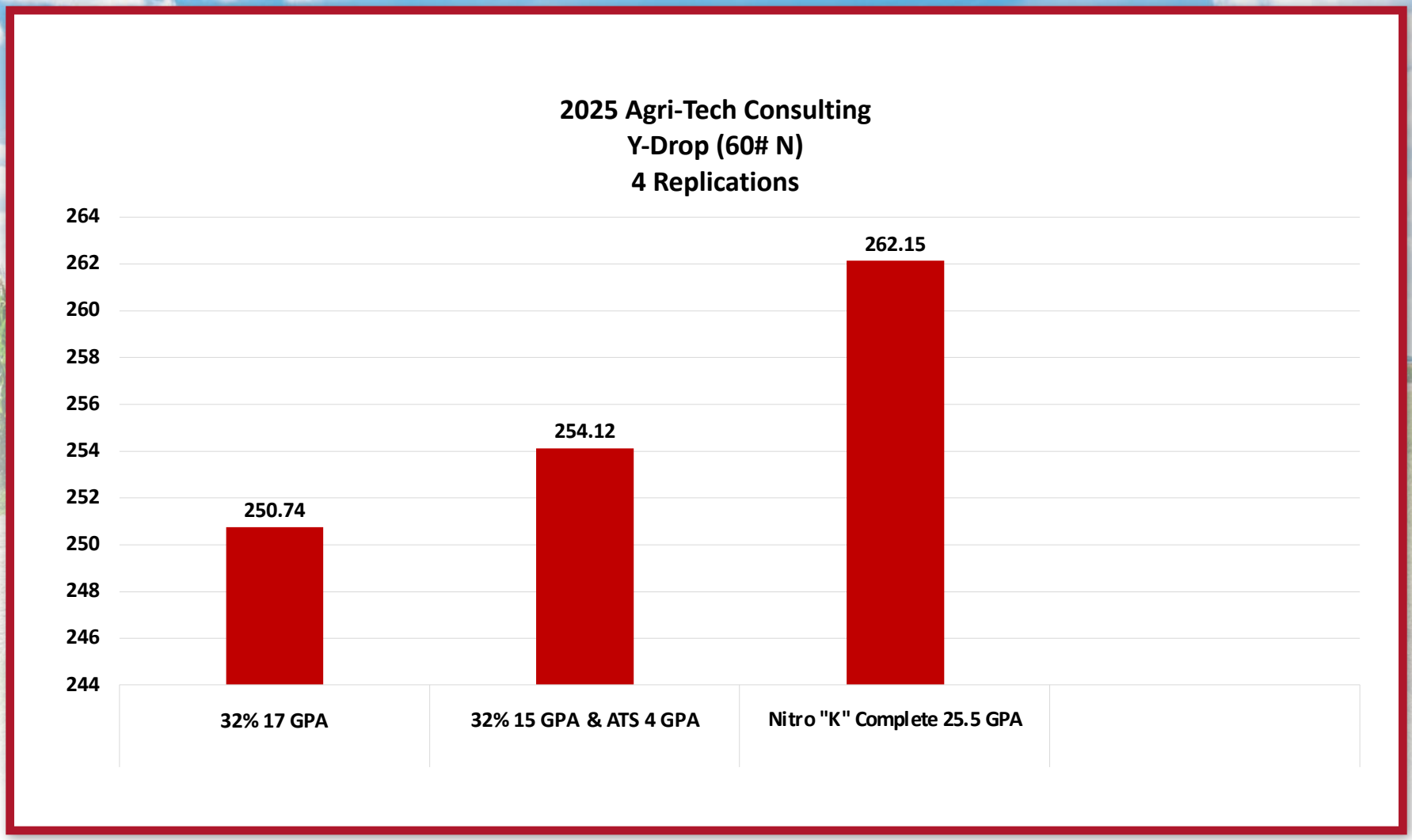
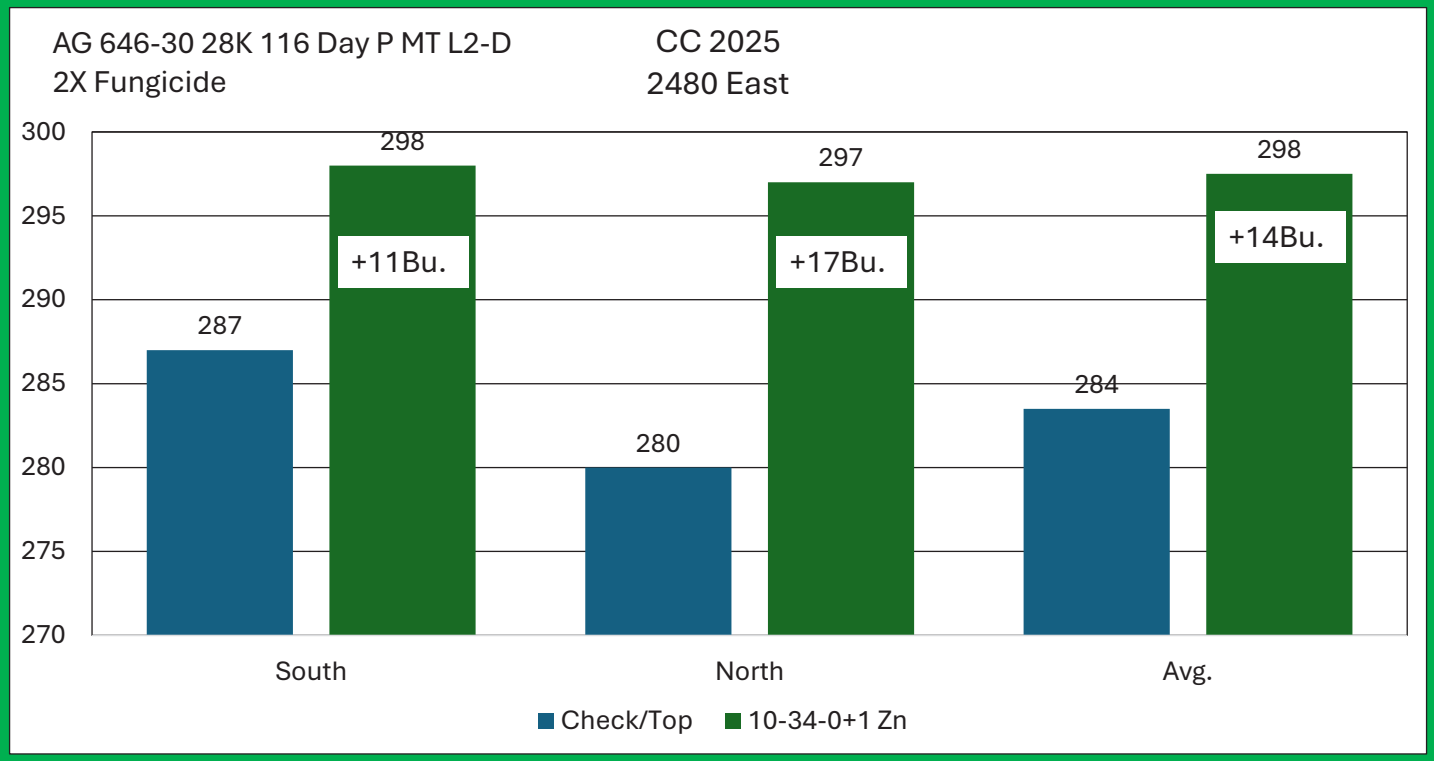
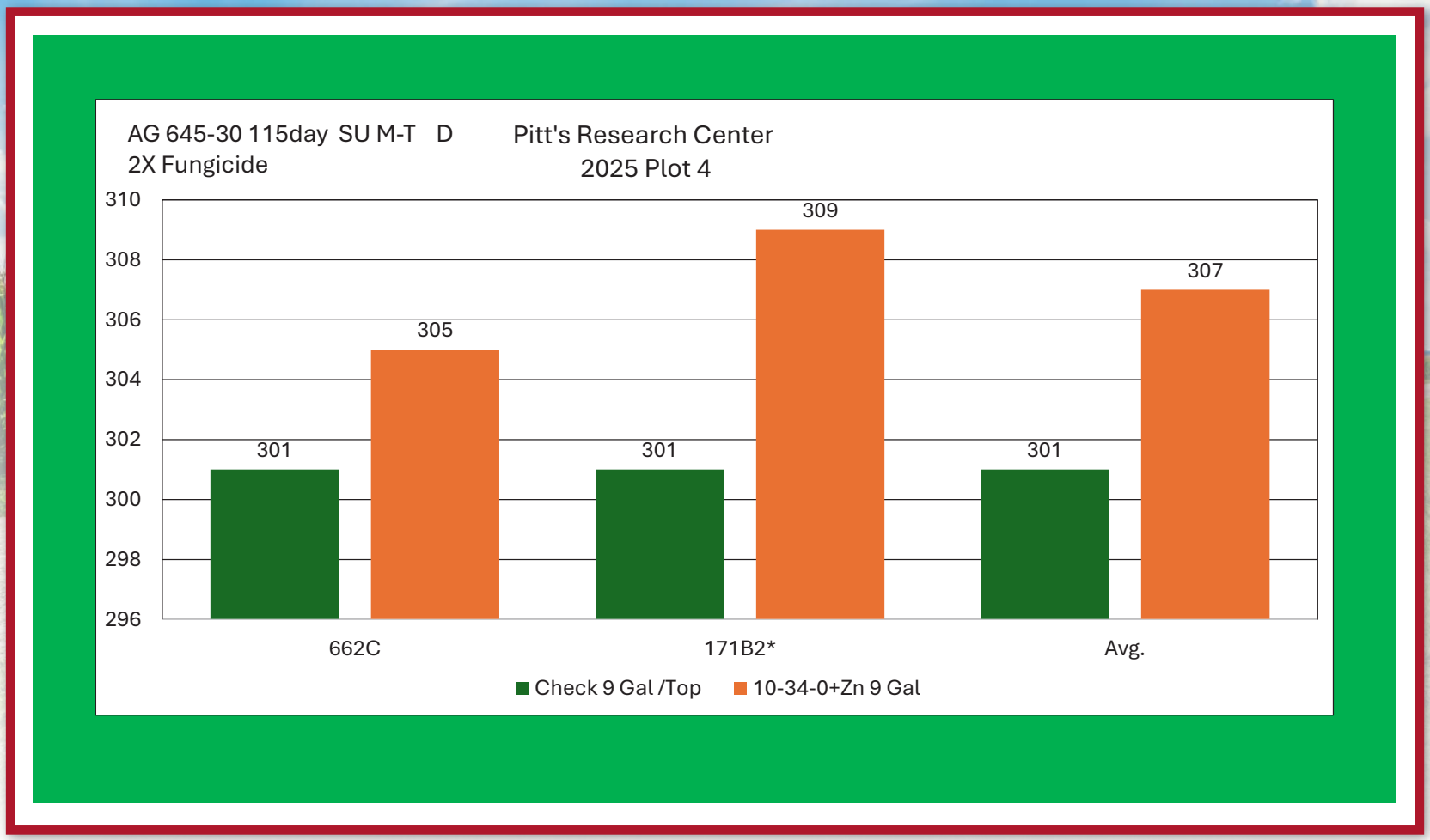
Nitro “K”

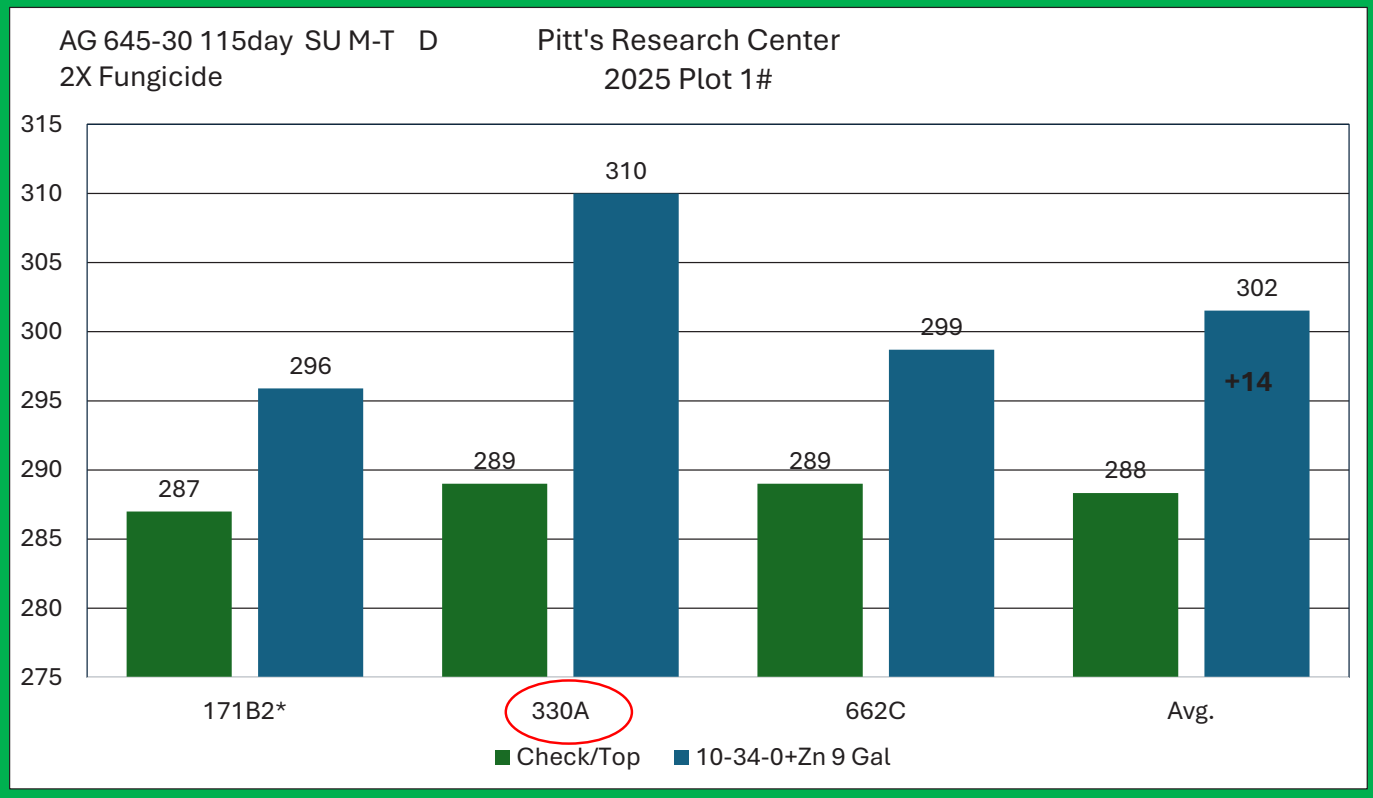

2025 Agri-Tech Consulting
Planting 2 X 2 (45# N)
4 Replications
245
240
235
230
225
220
215
210
220.06
239.44
229.55
235.29
28% 15.5 GPA
NutriStart (21-4-4-3.5S-.25Zn) 20 GPA
32% 11 GPA & ATS 3 GPA
Nitro "K" Complete 19 GPA

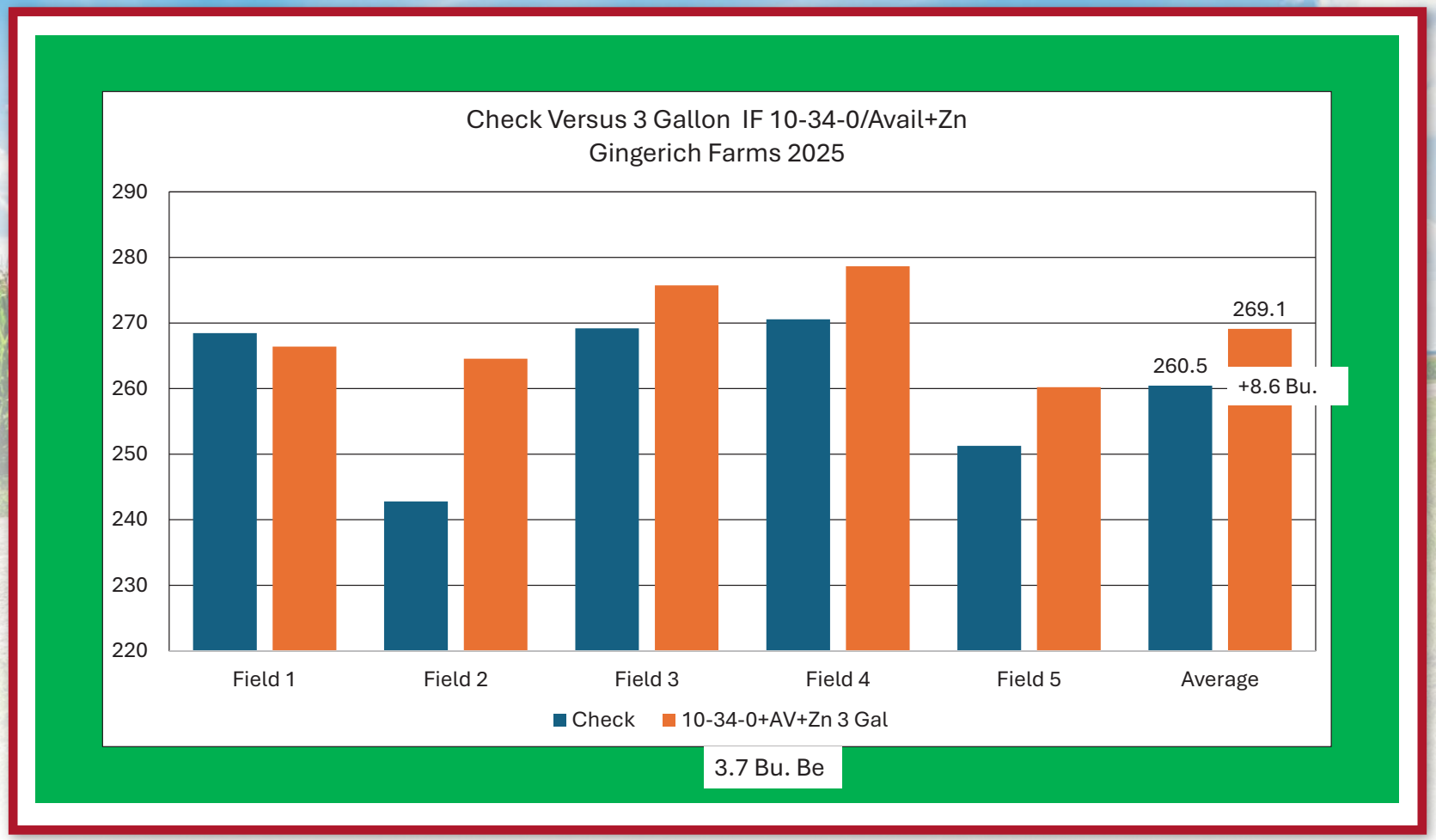

2025 Agri-Tech Consulting
Y-Drop (60# N)
4 Replications
264
262
260
258
256
254
252
250
248
246
244
250.74
254.12
262.15
32% 17 GPA
32% 15 GPA & ATS 4 GPA
Nitro "K" Complete 25.5 GPA

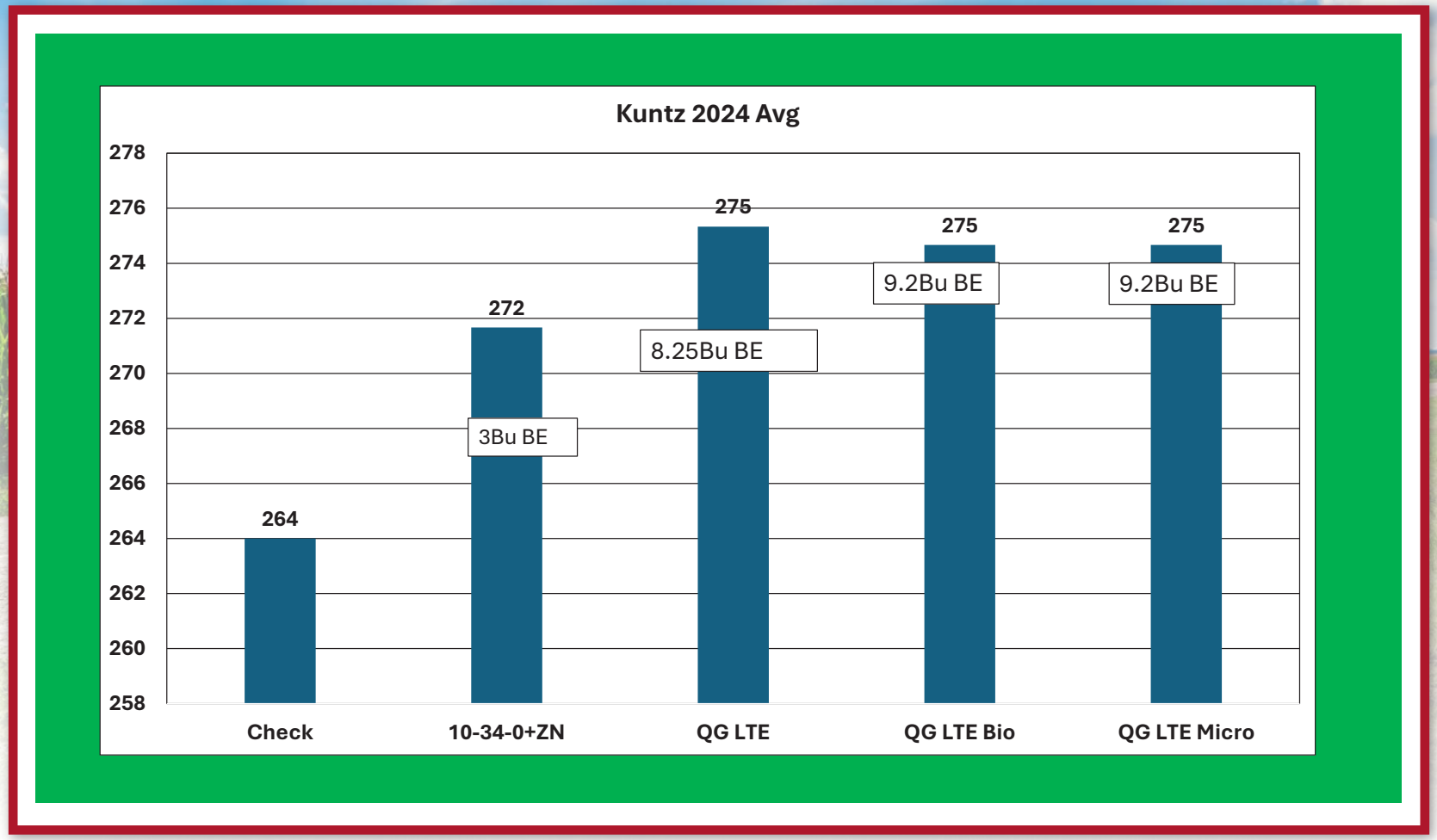
2025
Crop-Tech Consulting
Trials

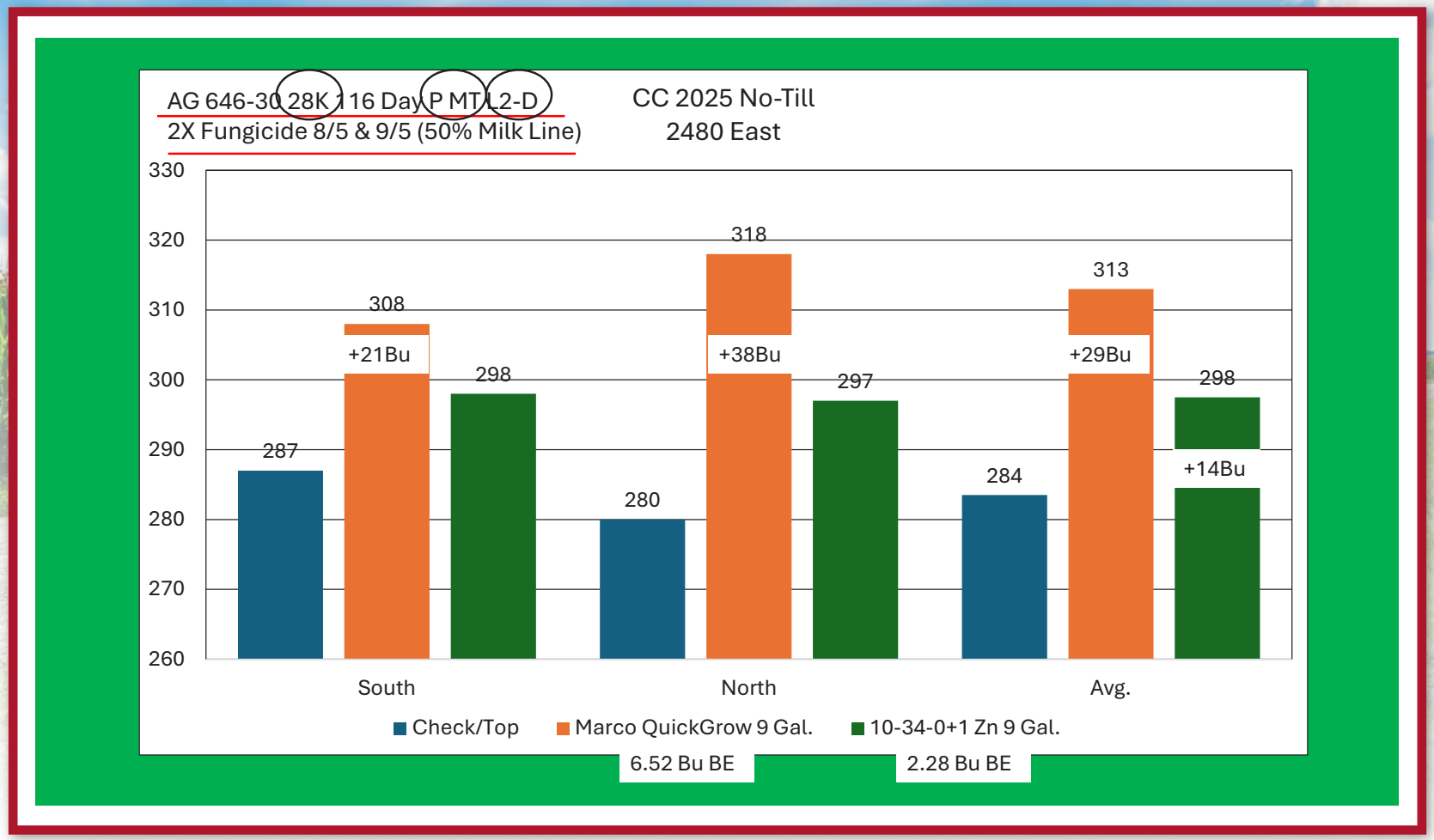

AG 646-30 28K 116 Day P MT L2-D
2X Fungicide
CC 2025
2480 East
300
295
290
285
280
275
270
287
298
+11Bu.
280
297
+17Bu.
284
298
+14Bu.
South
North
Avg.
Check/Top
10-34-0+1 Zn

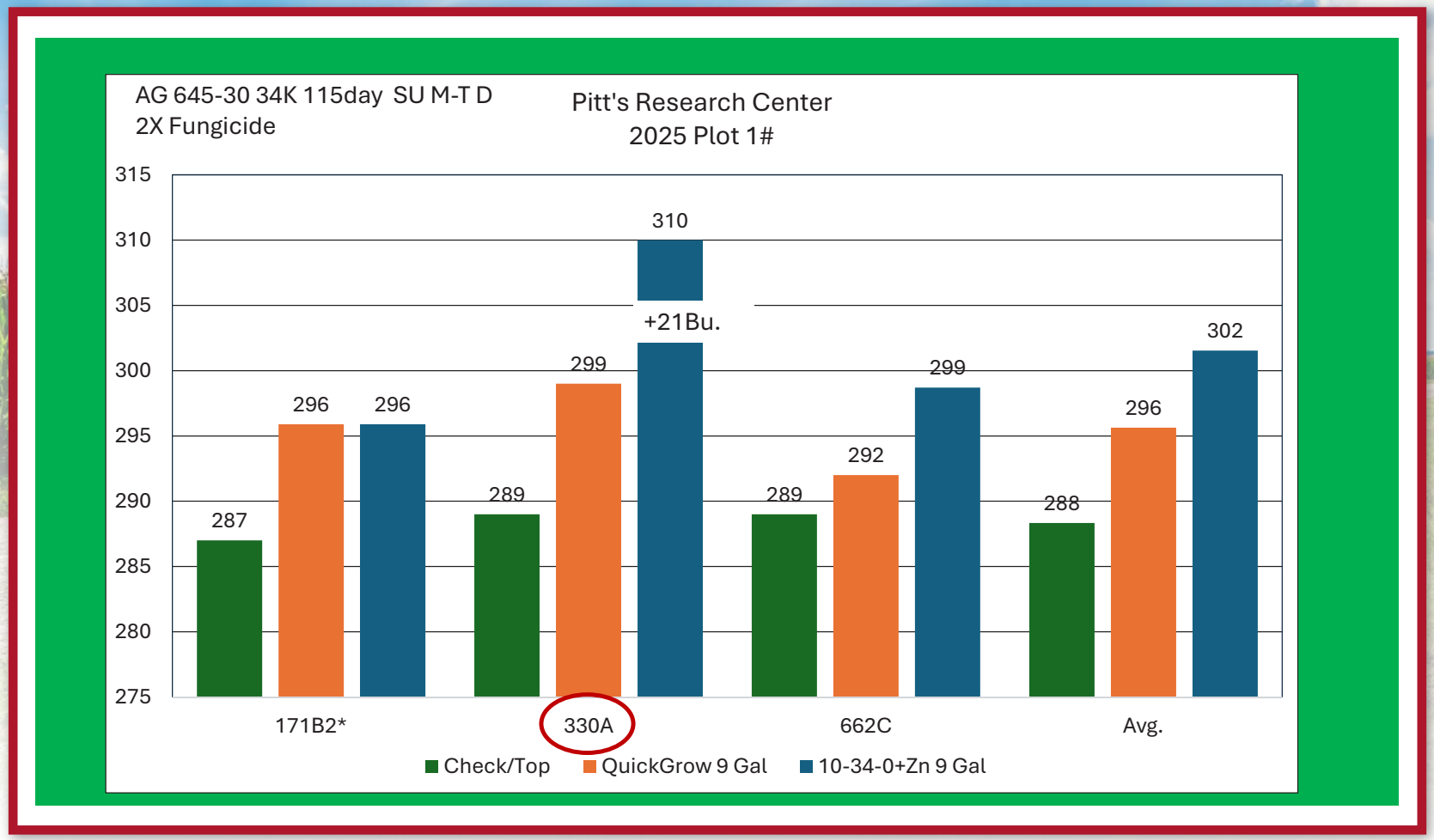

AG 645-30 115day SU M-T D
2X Fungicide
Pitt's Research Center
2025 Plot 4
310
308
306
304
302
300
298
296
301
305
301
309
301
307
662C
171B2*
Avg.
Check 9 Gal /Top
10-34-0+Zn 9 Gal

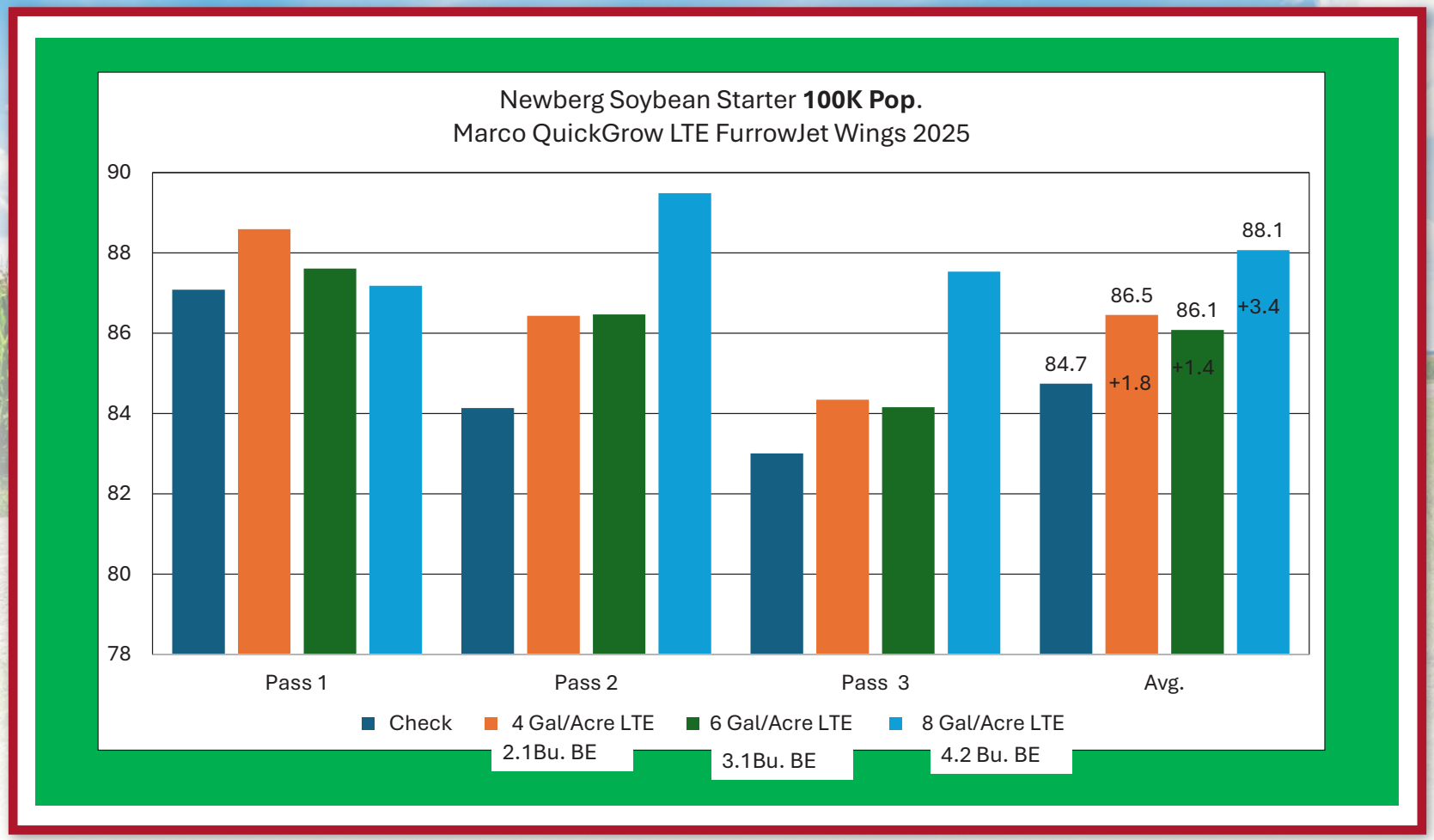

AG 645-30 115day SU M-T D
2X Fungicide
Pitt's Research Center
2025 Plot 1#
315
310
305
300
295
290
285
280
275
287
296
289
310
289
299
288
302
+14
171B2*
330A
662C
Avg.
Check/Top
10-34-0+Zn 9 Gal

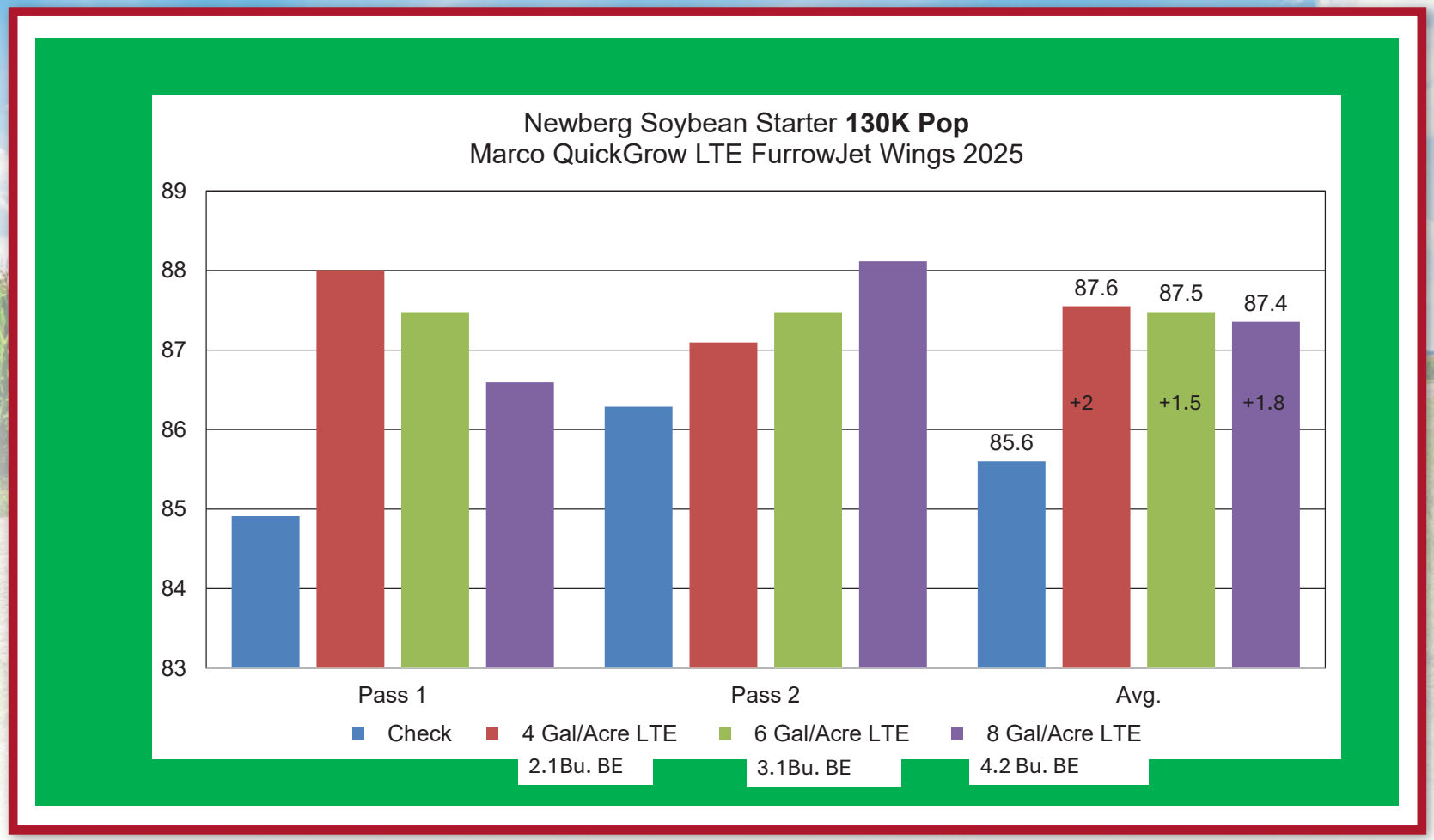

Check Versus 3 Gallon IF 10-34-0/Avail+Zn
Gingerich Farms 2025
290
280
270
260
250
240
230
220
269.1
260.5
+8.6 Bu.
Field 1
Field 2
Field 3
Field 4
Field 5
Average
Check
10-34-0+AV+Zn 3 Gal
3.7 Bu. Be

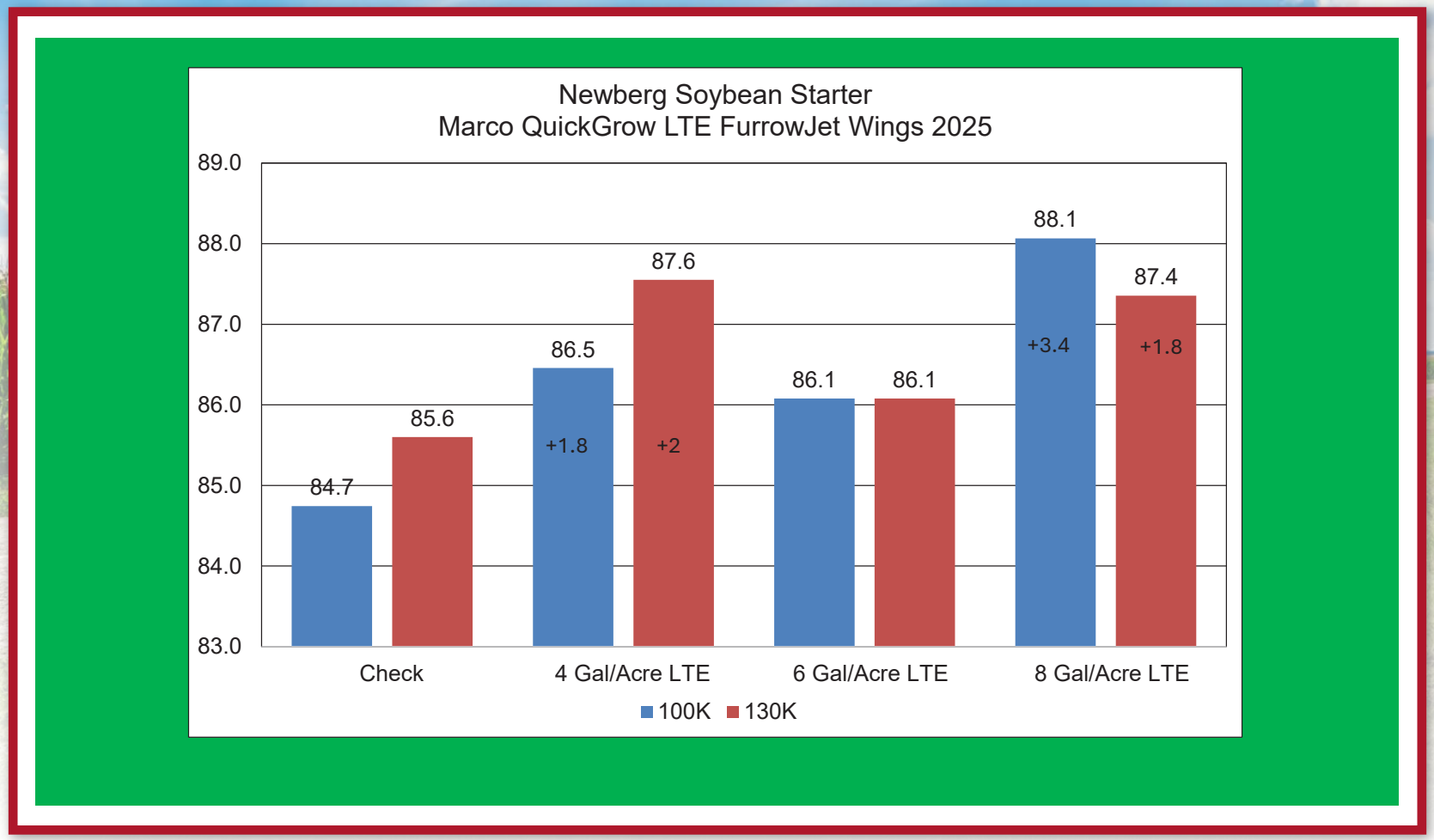

Kuntz 2024 Avg
278
276
274
272
270
268
266
264
262
260
258
264
272
3Bu BE
275
8.25Bu BE
275
9.2Bu BE
275
9.2Bu BE
Check
10-34-0+ZN
QG LTE
QG LTE Bio
QG LTE Micro


AG 646-30 28K 116 Day P MT L2-D
2X Fungicide 8/5 & 9/5 (50% Milk Line)
CC 2025 No-Till
2480 East
330
320
310
300
290
280
270
260
287
308
+21Bu
298
280
318
+38Bu
297
284
313
+29Bu
298
+14Bu
South
North
Avg.
Check/Top
Marco QuickGrow 9 Gal.
10-34-0+1 Zn 9 Gal.
6.52 Bu BE
2.28 Bu BE


AG 645-30 34K 115day SU M-T D
2X Fungicide
Pitt's Research Center
2025 Plot 1#
315
310
305
300
295
290
285
280
275
287
296
296
289
299
310
+21Bu.
289
292
299
288
296
302
171B2*
330A
662C
Avg.
Check/Top
QuickGrow 9 Gal
10-34-0+Zn 9 Gal


Newberg Soybean Starter **100K Pop**.
Marco QuickGrow LTE FurrowJet Wings 2025
90
88
86
84
82
80
78
88.1
86.5
86.1
+3.4
84.7
+1.8
+1.4
Pass 1
Pass 2
Pass 3
Avg.
Check
4 Gal/Acre LTE
6 Gal/Acre LTE
8 Gal/Acre LTE
2.1Bu. BE
3.1Bu. BE
4.2 Bu. BE


Newberg Soybean Starter **130K Pop**
Marco QuickGrow LTE FurrowJet Wings 2025
89
88
87
86
85
84
83
87.6
87.5
87.4
85.6
+2
+1.5
+1.8
Pass 1
Pass 2
Avg.
Check
4 Gal/Acre LTE
6 Gal/Acre LTE
8 Gal/Acre LTE
2.1Bu. BE
3.1Bu. BE
4.2 Bu. BE


Newberg Soybean Starter
Marco QuickGrow LTE FurrowJet Wings 2025
89.0
88.0
87.0
86.0
85.0
84.0
83.0
84.7
85.6
86.5
+1.8
87.6
+2
86.1
86.1
88.1
+3.4
87.4
+1.8
Check
4 Gal/Acre LTE
6 Gal/Acre LTE
8 Gal/Acre LTE
100K
130K

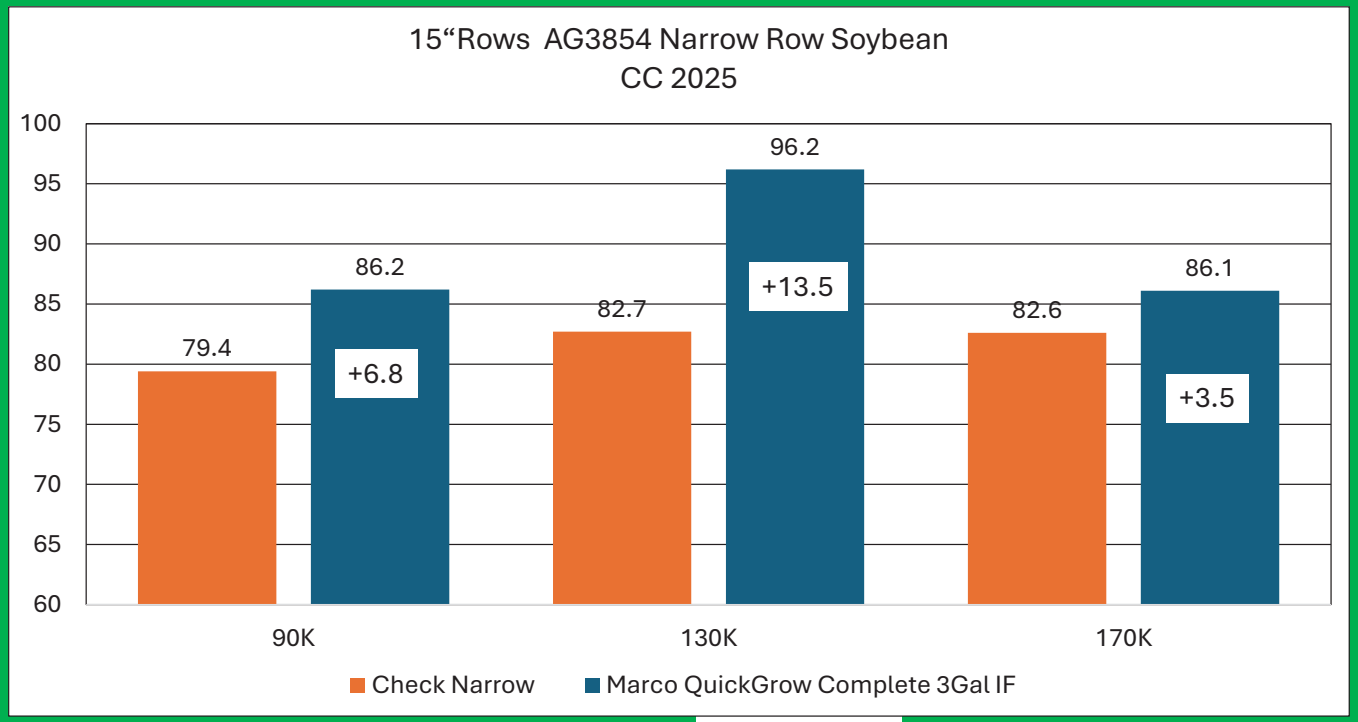
CC Planting April 16th

15” Rows 3 gallons QuickGrow Complete IF

2 varieties 3.8 Narrow & 3.2 Bush

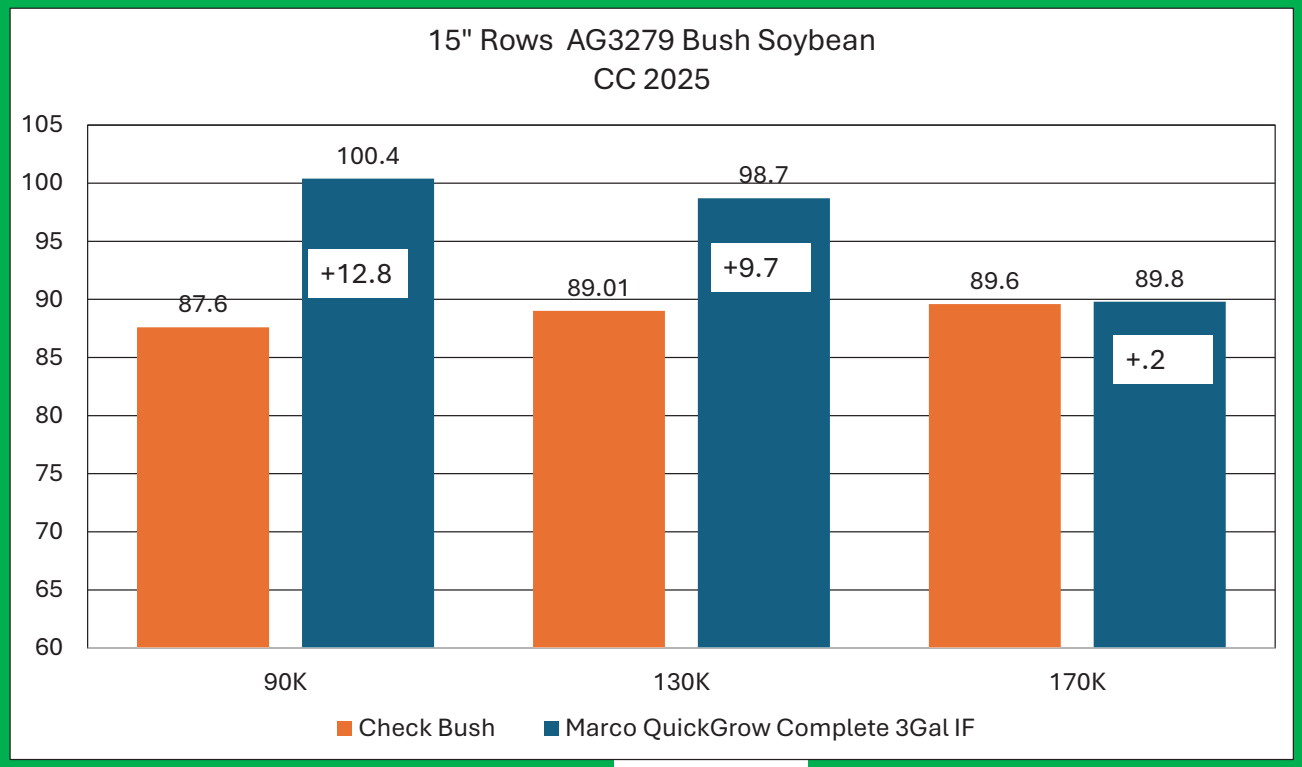
Three populations 90K, 130K, 170K

AG 3854 - Narrow Low response to low populations



2.7 Bu. BE

AG 3279 - Bush Good response to low pops



2.7 Bu. BE

2025 Precision Planting
PTI Farm Trials

2025 PTI Results

Marco Fertilizer NutriStart BOOST 14-12-4-6S Study

Objective: This trial evaluates the yield and net return of NutriStart BOOST 14-12-4-6S at 15 Gal/A. applied through dual band Conceal®. This liquid fertilizer is a 70% polyphosphate, and 30% orthophosphate formula designed for non-in furrow applications in soybeans. NutriStart products are manufactured with Marco 10-34-0, Potassium - soluble potash (K2O), Sulfur - Ammonium Thiosulfate and Zinc - 9% EDTA.

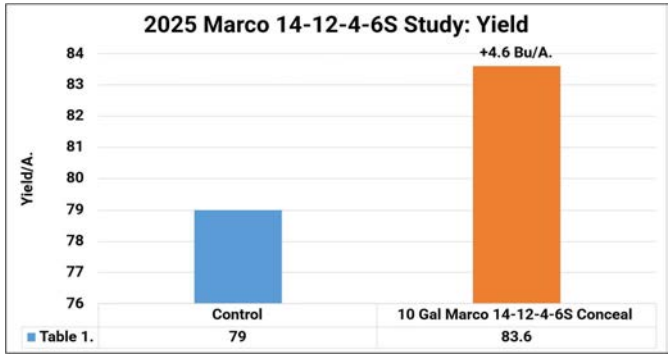
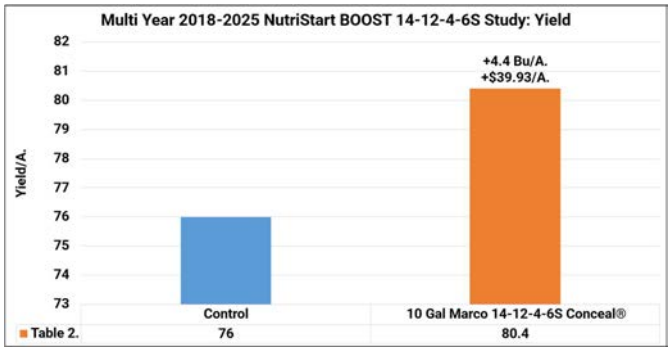



Figure 1. Conceal® Dual Placement

Results: Table 1. illustrates that 14-12-4-6S proved positive yield gains of +4.6 Bu/A. at 10 Gal resulting in an economic gain of +$25.43/A. Table 2. Shows multiyear averages of a positive +4.4 Bu/A. and an economic return of +$39.93/A.



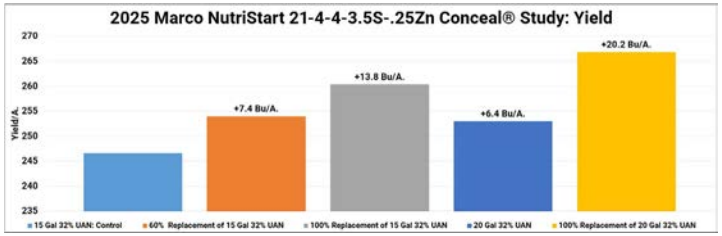
Planting Date: April 24th Variety: AG 35XF3 Population: 120K Row Width: 30" Rotation: BAC SB Price: $9.93 BOOST 14-12-4-6: $3.25/Gal

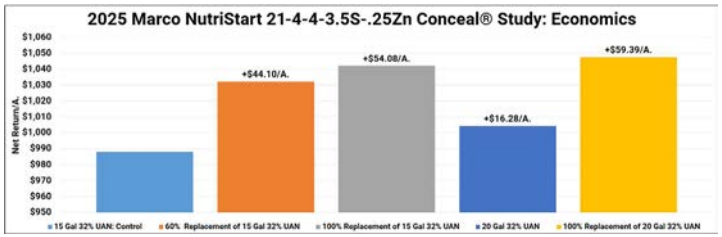
2025 PTI Results

Marco Fertilizer NutriStart Conceal® Study

Objective: This trial evaluates the yield and net return of Marco Fertilizer's NutriStart 21-4-4-3.5S-2.5Zn as a tank-mix partner or total replacement of 32% UAN applied through dual band Conceal® (Figure 1).

This trial was designed for grower's who apply at-plant nitrogen with Conceal®, but do not have a second tank and pump to apply in-furrow starter fertilizers, but would like to add phosphorus, potassium, zinc, and sulfur, blended with 32% nitrogen, without the hassle of blending and compatibility issues.





Results: NutriStart 21-4-4-3.5S-.25Zn proved gains of +7.4 Bu/A. and net returns of +$44.10/A. when used as a 60% replacement.

100% replacement of 15Gal 32%, resulted in gains of +13.8 Bu/A. and +$54.08/A.

Increasing 15Gal of UAN to 20Gal on the planter, resulted in gains of +6.4 Bu/A. and +$16.28/A.

100% Replacement of 20Gal of 32%, resulted in gains of +20.2 Bu/A. and +$59.39/A., the highest of the study.

Figure 1. Conceal® Dual Placement

Planting Date: April 24th Hybrid: DKC 114-99 Population: 36K Row Width: 30" Rotation: CAB Corn Price: $4.13 NutriStart: $2.77/GAL Fert Re-allocation: $30

2025 PTI Results

Marco Fertilizer High Management Irrigated Soybean Study

Objective: To evaluate the yield and economic impact of a soybean liquid starter fertilizer and foliar nutritional program from Marco Fertilizer in a high management irrigated environment. This trial consisted of the following:

Treatments and Placement:

#1. Control:	150# 18-46-0,125# 0-0-60, R1 Miravis®Top
#2 At-Plant Fertility:	
Conceal® Dual Band (Figure 1.)	1 Pt Soil Assist
	3 Gal QuickGrow Complete
FurrowJet® Wings: (Figure 2.)	1 oz MycoBoost

#3 Foliar Applications:

V3: 20 oz Energizer, 1 Pt Iron Plus

R1: 2# Nutri Complete, 2oz Poseidon, 1 Pt Energizer, 1 Qt Calcium Plus

R4: 2.5 Gal Finisher

Figure 1. Conceal® Placement

Figure 2. FurrowJet® Placement

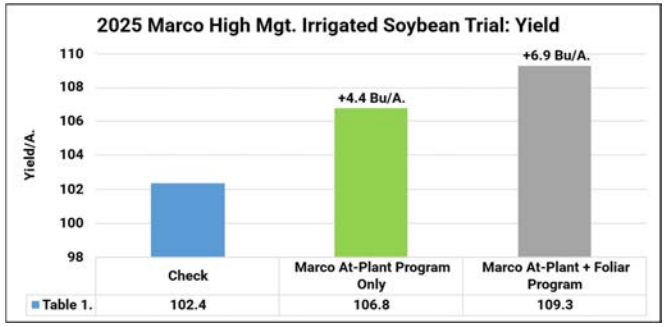
2025 PTI Results

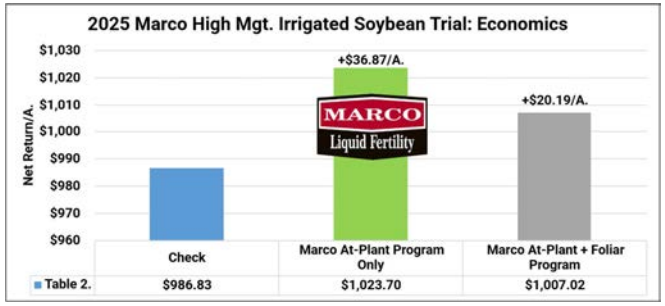
Marco Fertilizer High Management Irrigated Soybean Study

Irrigation consisted of 8.00" of rain throughout the growing season and all treatments received fungicide applications of 13.7oz/A. Miravis® Top at R1 and 13.7oz/A. Miravis®Neo at R3 growth stages.

Results: At-Plant FurrowJet® and Conceal® treatments resulted in yields of 106.8 Bu/A., +4.4 Bu/A. over the control. At-plant + foliar combination treatments pushed yield to 109.3 Bu/A., +6.9 Bu/A. over the control.

After all costs, at-plant nutritional treatments proved economic gains of +$36.87/A. Adding the foliar treatments to at-plant applications tallied economic gains of +$20.19/A.





Planting Date: May 9th Variety: GH 3035E3 Population: 120K Row Width: 30 Rotation: BAC SB Price: $9.93 Irrigation: $40/A.

At-Plant Program: $36.83/A. Foliar Program: $41.50/A $30 Fert Reallocation

2025 PTI Results

Marco Fertilizer High Management Irrigated Corn Study

Objective: To evaluate the yield and economic impact of a corn liquid starter fertilizer and foliar nutritional program from Marco Fertilizer in a high management irrigated environment. This trial consisted of the following:

Treatments and Placement:

#1. Control:	200# DAP, 200# 0-0-60, less 40# N
#2 At-Plant Fertility:	
FurrowJet® 3-Way: (Figure 1.)	3 Gal/A. QuickGrow Complete
	1oz/A. MycoBoost with 3 Gal/A. Water
#3 Foliar Applications :	
	V3: 1 oz/A. Poseidon
	20 oz/A. Energizer
	1 pt/A. Iron Plus
	V10: 1 oz/A. Poseidon
	20 oz/A. Energizer
	2# Foliar Complete
	VT: 20 oz/A. Energizer
	2# Foliar Complete
	32 oz/A. Calcium Plus
	R3: 2.5 gal/A. Finisher + 20 Gal/A. Water

Figure 1. FurrowJet® Placement

2025 PTI Results

Marco Fertilizer High Management Irrigated Corn Study

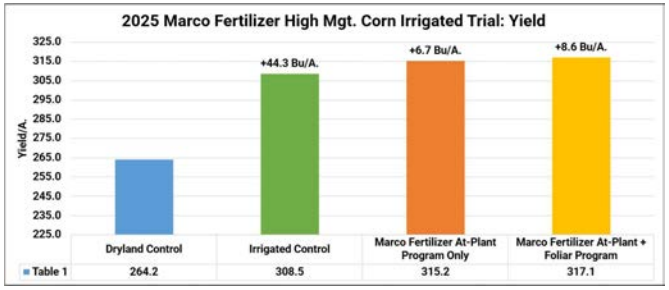
Irrigation on all treatments received 8" of water throughout the growing season. All treatments received 13.7oz/A. of Miravis® Neo at VT and 13.7oz/A. of TrivaPro® at R3 growth stage. All irrigated treatments received +40 additional N units.

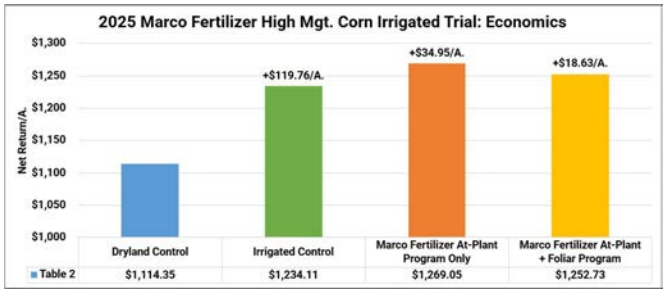
Results: Pioneer 1742Q posted highest yield of 317.1 Bu/A. in the planter nutrition/foliar program, +52.9 Bu/A. over the dryland control.

Irrigation resulted in yield gains of +44.3 Bu/A. over the dryland control, resulting in net returns of +$119.76/A.

At-plant Marco treatments captured +6.7 Bu/A. gains with a positive return of +$34.95/A. over the irrigated control. These net returns proved highest of all treatments.

Combination at-plant and foliar treatments captured +8.6 Bu/A. gains with a positive return of +$18.63/A. over the irrigated control.





Planting Date: April 25th *Hybrid: Pioneer 1742Q* *Population: 36-38K* *Row Width: 30"* *Rotation: CAB* *Corn Price: $4.13*

At-Plant Conceal® and FurrowJet Program: $32.73/A. *Foliar Program: $64.16/A.* *Base Irrigation Program: $40/A.* *Fert Re-Allocation: $40/A.* *N: $.58/#*

2025 PTI Results

Marco Fertilizer High Management Dryland Corn Study

Objective: To evaluate the yield and economic impact of a corn liquid starter fertilizer and foliar nutritional program from Marco Fertilizer in a high management dryland environment. This trial consisted of the following:

Treatments and Placement:

#1. Control:	200# DAP, 200# 0-0-60, less 40# N
#2 At-Plant Fertility:	
FurrowJet® 3-Way: (Figure 1.)	3 Gal/A. QuickGrow Complete
	1oz/A. MycoBoost with 3 Gal/A. Water
#3 Foliar Applications :	
	V3: 1 oz/A. Poseidon
	20 oz/A. Energizer
	1 pt/A. Iron Plus
	V10: 1 oz/A. Poseidon
	20 oz/A. Energizer
	2# Foliar Complete
	VT: 20 oz/A. Energizer
	2# Foliar Complete
	32 oz/A. Calcium Plus
	R3: 2.5 gal/A. Finisher + 20 Gal/A. Water

Figure 1. FurrowJet® Placement

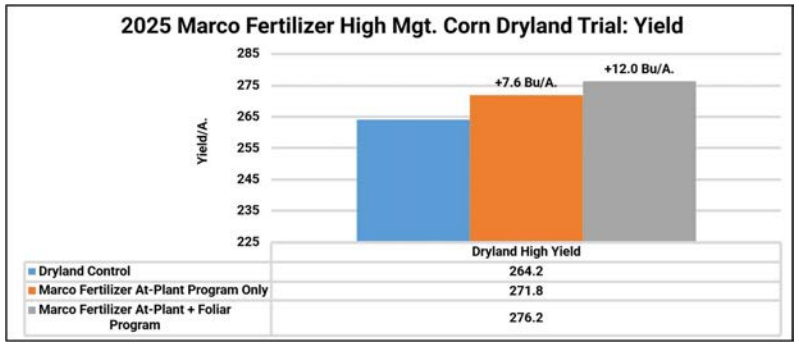
2025 PTI Results

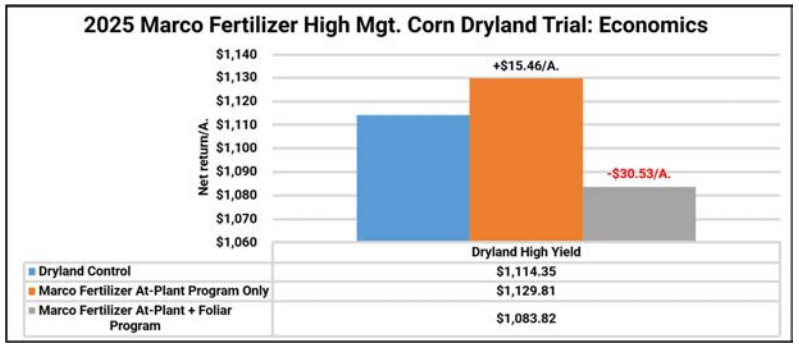
Marco Fertilizer High Management Dryland Corn Study

All treatments received 13.7oz/A. of Miravis® Neo at VT and 13.7oz/A. of TrivaPro® at R3 growth stage. All high yield treatments received +40 additional N units.

Results: At-plant Marco treatments captured +7.6 Bu/A. gains with a positive return of +$15.46/A. over the control. These net returns proved highest of all treatments.

Combination at-plant and foliar treatments captured +12.0 Bu/A. gains with a negative return of **-$30.53/A.** over the control.





Planting Date: April 25th *Hybrid: Pioneer 1742Q* *Population: 38K* *Row Width: 30"* *Rotation: CAB* *Corn Price: $4.13*

At-Plant Conceal® and FurrowJet Program: $32.73/A. *Foliar Program: $64.16/A.* *Fert Re-Allocation: $40/A.* *N: $.58/#*


MARCO®