

FIELD EXPERIMENT HISTORY

Title: Corn Response to Seed Treatment
Experiment: 08Seed **Trial ID:** 3681 **Year:** 2013
Personnel: J.G. Lauer, K.D. Kohn, and T. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: Valent

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Plano
Soil Test: **Date:** 10/1 /13 **pH:** 6.1 **OM (%)** 2.9 **P (ppm)** 27 **K (ppm)** 161

Plot Management

Tillage Operations: Disk Field Cultivator

Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 150 lbs/A **Date:** N/A
 Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 4 /26/13
 Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:**
 Manure: N/A

Herbicide: Dual II Mag 28 oz/A **Insecticide:** None
 Hornet 4.0 oz/A

Irrigation: None

Planting Date: 4/26/13 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter

Harvest Date: 10/28/13 **Harvest Method:** Massey 8XP

Experimental Design

Design: RCB: Split-split-plot

Replications: 4

Plot Size Seeded: 10 x 25

Experiment Size: 0.4 Acre

Harvest Plot Size: 5' x 23'

Harvest Plant Density: 33419 plants per acre

MP: Hybrid

1) Hybrid 1: NP2643GT X NP2727CBLLRW
 2) Hybrid 2: GP217GTCBLLRW X GP6823

SP: PGR A X PGR B

1) AB1-Red
 2) AB2-Purple

SSP: PGR C

1) C1
 2) C2
 2) C3
 2) C4

Results: Table 1308-09.

FIELD EXPERIMENT HISTORY

Title: Corn Response to Seed Treatment
Experiment: 08Seed **Trial ID:** 5754 **Year:** 2013
Personnel: J.G. Lauer, K.D. Kohn, and T. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: Valent

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Plano
Soil Test: **Date:** 10/1 /13 **pH:** 6.1 **OM (%)** 2.9 **P (ppm)** 27 **K (ppm)** 161

Plot Management

Tillage Operations: Disk Field Cultivator

Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 150 lbs/A **Date:** N/A
 Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /13/13
 Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:**
 Manure: N/A

Herbicide: Dual II Mag 28 oz/A **Insecticide:** None
 Hornet 4.0 oz/A

Irrigation: None

Planting Date: 5/13/13 **Planting Depth:** 1.5" **Row Width** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter

Harvest Date: 10/30/13 **Harvest Method:** Massey 8XP

Experimental Design

Design: RCB: Split-split-plot

Replications: 4

Plot Size Seeded: 10 x 25

Experiment Size: 0.4 Acre

Harvest Plot Size: 5' x 23'

Harvest Plant Density: 34790 plants per acre

MP: Hybrid

1) Hybrid 1: NP2643GT X NP2727CBLLRW
 2) Hybrid 2: GP217GTCBLLRW X GP6823

SP: PGR A X PGR B

1) AB1-Red
 2) AB2-Purple

SSP: PGR C

1) C1
 2) C2
 2) C3
 2) C4

Results: Table 1308-10.

FIELD EXPERIMENT HISTORY

Title: Corn Response to Seed Treatment
Experiment: 08Seed **Trial ID:** 3550 **Year:** 2013
Personnel: J.G. Lauer, K.D. Kohn, and T. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: Valent

Site Information

Field: ARS358 **Previous Crop:** Soybean **Soil Type:** Planosilt loam
Soil Test: **Date:** 10/1 /13 **pH:** 6.1 **OM (%)** 2.9 **P (ppm)** 27 **K (ppm)** 161

Plot Management

Tillage Operations: Disk Field Cultivator
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	150 lbs/A	N/A
Starter	10-34-0	3.0 gal/A	4 /26/13
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	

Herbicide: Dual II Mag 28 oz/A Insecticide: None
 Hornet 4.0 oz/A

Irrigation: None **Hybrid:** NP2643GT x NP2727CBLLRW

Planting Date: 4/26/13 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter

Harvest Date: 10/28/13 **Harvest Method:** Massey 8XP

Notes: At planting a complete pass was inadvertently omitted (ARS358). Those plots were planted at a later date in a different location (ARS372). Each location consist of at least 1 rep of each treatment. Data was analysed as CRD.

Experimental Design

Design: CRD **Replications:** 4
Plot Size Seeded: 10 x 25 **Experiment Size:** 0.75 Acre
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 30921 plants per acre

Factors/Treatments:

MP: Chemical

- 1) A: 21-25
- 2) B: 26-30

SP: Dose

- 1) SP1: 21 or 26
- 2) SP2: 22 or 27
- 3) SP3: 23 or 28
- 4) SP4: 24 or 29
- 5) SP5: 25 or 30

Results: Table 1308-11.

**Table: 1308-11. Valent - New - Early.
Arlington, WI - 2013.**

Entry	V2 density	Harvest density	Grain yield	Grain moisture	Test weight	Lodged			Return \$4.04
						Total	Stalk	Root	
	plants/A	plants/A	bu/A	%	lb/bu	%	%	%	\$/A
21	32386	30681	243	19.7	53	0	0	0	907
22	32007	32197	253	18.4	55	0	0	0	948
23	32386	31818	252	20.9	52	2	0	2	934
24	31944	31439	248	19.2	53	0	0	0	925
25	31186	31060	256	19.7	54	0	0	0	954
29	29166	27083	251	20.5	53	0	0	0	930
41	30871	30113	252	18.3	55	0	0	0	946
42	30681	31186	260	19.6	54	0	0	0	971
43	30871	30681	246	20.7	53	0	0	0	913
44	32323	32954	259	20.0	54	0	0	0	965
Mean	31382	30921	252	19.7	54	0	0	0	939

Probability(%)

Entry	30.7	15.2	87.5	2.9	4.2	0.2	71.5	0.0	82.8
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LSD(0.10)

Entry	NS	NS	NS	1.2	1	1	NS	0	NS
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FIELD EXPERIMENT HISTORY

Title: Corn Response to Seed Treatment
Experiment: 08Seed **Trial ID:** 5753 **Year:** 2013
Personnel: J.G. Lauer, K.D. Kohn, and T. Diallo
Location: Arlington, W **County:** Columbia
Supported By: Valent

Site Information

Field: ARS372 **Previous Crop:** Soybean **Soil Type:** Planosilt loam
Soil Test: **Date:** 10/1 /13 **pH:** 6.3 **OM (%)** 2.6 **P (ppm)** 21 **K (ppm)** 136

Plot Management

Tillage Operations: Disk Field Cultivator
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	150 lbs/A	N/A
Starter	10-34-0	3.0 gal/A	6 /4 /13
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	

Herbicide: Dual II Mag 28 oz/A **Insecticide:** None
 Hornet 4.0 oz/A
Irrigation: None **Hybrid:** NP2643GT x NP2727CBLLRW
Planting Date: 6/4/13 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 11/5/13 **Harvest Method:** Massey 8XP

Notes: At planting a complete pass was inadvertently omitted (ARS358). Those plots were planted at a later date in a different location (ARS372). Each location consist of at least 1 rep of each treatment. Data was analysed as CRD.

Experimental Design

Design: CRD **Replications:** 4
Plot Size Seeded: 10 x 25 **Experiment Size:** 0.15 Acre
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 30909 plants per acre

Factors/Treatments:

MP: Chemical

- 1) A: 21-25
- 2) B: 26-30

SP: Dose

- 1) SP1: 21 or 26
- 2) SP2: 22 or 27
- 3) SP3: 23 or 28
- 4) SP4: 24 or 29
- 5) SP5: 25 or 30

Results: Table 1308-12.

**Table: 1308-12. Valent - New - Early.
Arlington, WI - 2013.**

Entry	V2 density	Harvest density	Grain yield	Grain moisture	Test weight	Lodged			Return \$4.04
						Total	Stalk	Root	
	plants/A	plants/A	bu/A	%	lb/bu	%	%	%	\$/A
21	32386	30303	153	36.4	46	0	0	0	519
22	33712	31060	157	33.8	47	0	0	0	540
23	33143	30871	142	36.3	47	0	0	0	482
24	32197	30681	158	34.3	46	0	0	0	544
25	33333	30303	185	35.0	48	0	0	0	631
29	33333	31818	154	36.0	47	0	0	0	524
41	33522	30871	164	35.0	47	1	1	0	561
42	30303	32197	131	34.0	46	0	0	0	450
43	30681	31818	150	35.1	46	1	0	1	513
44	32575	29166	174	35.0	48	0	0	0	596
Mean	32518	30909	157	35.1	47	0	0	0	536

Probability(%)

Entry	54.3	85.5	97.9	54.4	21.8	12.4	0.0	77.6	98.0
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LSD(0.10)

Entry	NS	NS	NS	NS	NS	NS	0	NS	NS
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