

FIELD EXPERIMENT HISTORY

Title: Syngenta Seed Treatment Trial
Experiment: 08 Syngenta **Trial ID:** 3474 **Year:** 2011
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: Syngenta

Site Information

Field: ARS408 **Previous Crop:** Corn **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/21/11 **pH:** 7.1 **OM (%)** 3.3 **P (ppm)** 64 **K (ppm)** 193

Plot Management

Tillage Operations: Disk Ripper Field Cultivator Cultivated
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	46-0-0	150 lbs/A	5 /2 /11
Starter	10-34-0	3.0 gal/A	5 /16/11
Post plant	N/A	N/A	N/A
Manure:	N/A	N/A	N/A

Herbicide: Dual II Mag 24 oz/A **Insecticide:** Force 3G 4.4 lb/A
Hornet 4 oz/A
Accent Q 1 oz/A
Irrigation: None **Hybrid:** Garst 88R16-3000GT
Planting Date: 5/16/11 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/31/11 **Harvest Method:** Massey Ferguson 8XP

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 25' x 10' **Experiment Size:** 0.07 A
Harvest Plot Size: 23' x 5' **Harvest Plant Density:** 34027 plants per acre

Factors/Treatments:

Seed Treatment

A: Maxim Quattro+Cruiser @ 0.064+0.25 mg ai/seed
B: Maxim Quattro+Cruiser+Dynasty @ 0.064+0.25 + 0.0025 mg ai/seed
C: Maxim Quattro+Cruiser+Dynasty @ 0.064+0.25 + 0.0038 mg ai/seed

Results: Table C-29.

FIELD EXPERIMENT HISTORY

Title: Syngenta Seed Treatment Trial
Experiment: 08 Syngenta **Trial ID:** 3473 **Year:** 2011
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Coleman, WI **County:** Marinette
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Oconto Sandy Loam
Soil Test: **Date:** 10/21/11 **pH:** 6.9 **OM (%)** 2.5 **P (ppm)** 37 **K (ppm)** 156

Plot Management

Tillage Operations: Chisel Plow Field Cultivator
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	10-34-0	3.0 gal/A	10/20/11
Post plant	34-0-0	102	N/A
Manure:	N/A	N/A	N/A

Herbicide: Lumax 3 qt/A **Insecticide:** Force 3G 4.4 lbs/A
Irrigation: None **Hybrid:** Garst 88R16-3000GT
Planting Date: 5/20/11 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/28/11 **Harvest Method:** Massey Ferguson 8XP

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 25' x 10' **Experiment Size:** 0.07 A
Harvest Plot Size: 23' x 5' **Harvest Plant Density:** 27935 plants per acre

Factors/Treatments:

Seed Treatment

A: Maxim Quattro+Cruiser @ 0.064+0.25 mg ai/seed
 B: Maxim Quattro+Cruiser+Dynasty @ 0.064+0.25 + 0.0025 mg ai/seed
 C: Maxim Quattro+Cruiser+Dynasty @ 0.064+0.25 + 0.0038 mg ai/seed

Results: Table C-30.

**Table C-30. Syngenta Seed Treatment Study.
Coleman, WI - 2011.**

Treatment	Grain yield bu/A	Grain moisture %	Test weight lb/bu	Lodged			Grower return \$/A	Population	
				Total %	Stalk %	Root %		V5 plants/A	Harvest plants/A
Treatment A	179	17.9	53	11	11	0	963	26325	26704
Treatment B	211	18.0	54	4	4	0	1135	26799	29450
Treatment C	192	18.0	53	4	3	0	1037	25378	27651
Mean	194	18.0	53	6	6	0	1045	26168	27935
<u>Probability(%)</u>	13.0	87.8	44.1	1.2	0.7	42.2	14.0	75.9	42.3
<u>LSD(0.10)</u>	NS	NS	NS	4	3	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: Syngenta Seed Treatment Trial
Experiment: 08 Syngenta **Trial ID:** 3475 **Year:** 2011
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Fond du Lac, WI **County:** Fond du Lac
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Virgil Silt Loam
Soil Test: **Date:** 10/21/11 **pH:** 6.7 **OM (%)** 2.9 **P (ppm)** 23 **K (ppm)** 86

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	10-34-0	3.0 gal/A	5 /17/11
Post plant	46-0-0	150	N/A
Manure:	N/A	N/A	N/A

Herbicide: Lumax 3 qt/A **Insecticide:** None
Irrigation: None **Hybrid:** Garst 88R16-3000GT
Planting Date: 5/17/11 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/20/11 **Harvest Method:** Massey Ferguson 8XP

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 25' x 10' **Experiment Size:** 0.07 A
Harvest Plot Size: 23' x 5' **Harvest Plant Density:** 33522 plants per acre

Factors/Treatments:

Seed Treatment

A: Maxim Quattro+Cruiser @ 0.064+0.25 mg ai/seed
 B: Maxim Quattro+Cruiser+Dynasty @ 0.064+0.25 + 0.0025 mg ai/seed
 C: Maxim Quattro+Cruiser+Dynasty @ 0.064+0.25 + 0.0038 mg ai/seed

Results: Table C-31.

**Table C-31. Syngenta Seed Treatment Study.
Fond du Lac, WI - 2011**

Treatment	Grain yield bu/A	Grain moisture %	Test weight lb/bu	Lodged			Grower return \$/A	Population	
				Total %	Stalk %	Root %		V5 plants/A	Harvest plants/A
Treatment A	200	15.5	55.6	0.6	0.6	0	1086	34659	33143
Treatment B	205	15.5	55.9	0.6	0.6	0	1116	34185	34185
Treatment C	200	15.4	56.0	1.4	1.4	0	1090	33806	33238
Mean	202	15.5	55.8	0.9	0.9	0	1097	34217	33522
<u>Probability(%)</u>	72.1	95.4	0.7	8.5	8.5	-	71.9	74.6	55.2
<u>LSD(0.10)</u>	NS	NS	0.2	0.7	0.7	NS	NS	NS	NS

FIELD EXPERIMENT HISTORY

Title: Syngenta Seed Treatment Trial
Experiment: 08 Syngenta **Trial ID:** 3476 **Year:** 2011
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Marshfield, WI **County:** Wood
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Withee Silt Loam
Soil Test: **Date:** 10/21/11 **pH:** 6.5 **OM (%)** 3.3 **P (ppm)** 55 **K (ppm)** 138

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	10-34-0	3.0 gal/A	4 /28/10
Post plant	28-0-0	120	N/A
Manure:	N/A	N/A	N/A

Herbicide: SureStart 2.25 pt/A **Insecticide:** Force 3G 4.4 lbs/A
Volley 2.75 oz/A
Irrigation: None **Hybrid:** Garst 88R16-3000GT
Planting Date: 5/18/11 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 11/1/11 **Harvest Method:** Massey Ferguson 8XP

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 25' x 10' **Experiment Size:** 0.07 A
Harvest Plot Size: 23' x 5' **Harvest Plant Density:** 29103 plants per acre

Factors/Treatments:

Seed Treatment

A: Maxim Quattro+Cruiser @ 0.064+0.25 mg ai/seed
B: Maxim Quattro+Cruiser+Dynasty @ 0.064+0.25 + 0.0025 mg ai/seed
C: Maxim Quattro+Cruiser+Dynasty @ 0.064+0.25 + 0.0038 mg ai/seed

Results: Table C-32.

**Table C-32. Syngenta Seed Treatment Study.
Marshfield, WI - 2011.**

Treatment	Grain yield	Grain moisture	Test weight	Lodged			Grower return	Population	
				Total	Stalk	Root		V5	Harvest
	bu/A	%	lb/bu	%	%	%	\$/A	plants/A	plants/A
Treatment A	198	25.1	49	0	0	0	1039	30113	28598
Treatment B	196	24.7	48	1	0	1	1030	31912	30397
Treatment C	196	25.0	48	0	0	0	1029	29829	28314
Mean	197	24.9	48	0	0	0	1033	30618	29103
<u>Probability(%)</u>	96.9	50.9	46.6	42.2	-	42.2	97.3	4.8	15.4
<u>LSD(0.10)</u>	NS	NS	NS	NS	NS	NS	NS	1358	NS

FIELD EXPERIMENT HISTORY

Title: Syngenta Seed Treatment Trial
Experiment: 08 Syngenta **Trial ID:** 3477 **Year:** 2011
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Seymour, WI **County:** Oneida
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Silt Loam
Soil Test: **Date:** 10/21/11 **pH:** 7.2 **OM (%)** 3.1 **P (ppm)** 8 **K (ppm)** 111

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	10-34-0	3.0 gal/A	5 /19/11
Post plant	46-0-0	220	6 /22/11
Manure:	N/A	N/A	N/A

Herbicide: Overtime ATZ 1.7 qt/A **Insecticide:** None
 Hornet 2.0 oz/A

Irrigation: None **Hybrid:** Garst 88R16-3000GT

Planting Date: 5/19/11 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 10/27/11 **Harvest Method:** Massey Ferguson 8XP

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 25' x 10' **Experiment Size:** 0.07 A
Harvest Plot Size: 23' x 5' **Harvest Plant Density:** 23137 plants per acre
Factors/Treatments:

Seed Treatment

A: Maxim Quattro+Cruiser @ 0.064+0.25 mg ai/seed
 B: Maxim Quattro+Cruiser+Dynasty @ 0.064+0.25 + 0.0025 mg ai/seed
 C: Maxim Quattro+Cruiser+Dynasty @ 0.064+0.25 + 0.0038 mg ai/seed

Results: Table C-33.

FIELD EXPERIMENT HISTORY

Title: Syngenta Seed Treatment Trial
Experiment: 08 Syngenta **Trial ID:** 3478 **Year:** 2011
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Valders, WI **County:** Manitowoc
Supported By: Syngenta

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Kewaunee Clay
Soil Test: **Date:** 10/21/11 **pH:** 7.3 **OM (%)** 2.6 **P (ppm)** 32 **K (ppm)** 115

Plot Management

Tillage Operations: Spring Chisel Field Cultivator Cultivated
Fertilizer:

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
Preplant	N/A	N/A	N/A
Starter	10-34-0	3.0 gal/A	5 /19/11
Post plant	46-0-0	160 lbs/A	6 /21/11
Manure:	N/A	N/A	N/A

Herbicide: Steadfast 1.0 oz/A **Insecticide:** Force 3G 4.4 lbs/A
Laudis 2.0 oz/A
Irrigation: None **Hybrid:** Garst 88R16-3000GT
Planting Date: 5/19/11 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/27/11 **Harvest Method:** Massey Ferguson 8XP

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 25' x 10' **Experiment Size:** 0.07 A
Harvest Plot Size: 23' x 5' **Harvest Plant Density:** 30239 plants per acre

Factors/Treatments:

Seed Treatment

A: Maxim Quattro+Cruiser @ 0.064+0.25 mg ai/seed
B: Maxim Quattro+Cruiser+Dynasty @ 0.064+0.25 + 0.0025 mg ai/seed
C: Maxim Quattro+Cruiser+Dynasty @ 0.064+0.25 + 0.0038 mg ai/seed

Results: Table C-34.

**Table C-34. Syngenta Seed Treatment Study.
Valders, WI - 2011.**

Treatment	Grain yield bu/A	Grain moisture %	Test weight lb/bu	Lodged			Grower return \$/A	Population	
				Total %	Stalk %	Root %		V5 plants/A	Harvest plants/A
Treatment A	130	15.6	54	64	63	1	706	29734	30208
Treatment B	144	15.6	54	55	55	0	781	31818	30113
Treatment C	137	15.7	54	67	67	0	744	29640	30397
Mean	137	15.6	54	62	62	0	744	30397	30239
<u>Probability(%)</u>	27.5	92.7	73.1	46.0	47.7	12.5	27.4	8.3	98.5
<u>LSD(0.10)</u>	NS	NS	NS	NS	NS	NS	NS	1715	NS