

## FIELD EXPERIMENT HISTORY

**Title:** Corn Response to Seed Treatment - Syngenta  
**Experiment:** 08SeedTrt **Trial ID:** 3511 **Year:** 2012  
**Personnel:** J.G. Lauer, K.D. Kohn, and T. Diallo  
**Location:** Arlington, WI **County:** Dane  
**Supported By:** Syngenta Crop Protection

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### Site Information

**Field:** ARS379 **Previous Crop:** Corn **Soil Type:** Plano Silt Loam  
**Soil Test:** **Date:** 10/1 /12 **pH:** 6.0 **OM (%)** 3.6 **P (ppm)** 31 **K (ppm)** 114

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### Plot Management

**Tillage Operations:** Disk Chisel Field Cultivator  
**Fertilizer:** **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 161 lbs/A **Date:** N/A  
**Starter Analysis:** 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /17/12  
**Post plant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Manure:** N/A  
**Herbicide:** Hornet @ 5.0oz/A **Insecticide:** None  
Dual II Magnum @ 24 oz/A **Hybrid:** 98 RM GT/CB/LL/RW/BL  
**Irrigation:** None  
**Planting Date:** 5/17/12 **Planting Depth:** 1.5" **Row Width** 30"  
**Target Plant Density:** 34000 plants per acre **Planting Method:** Almaco Precision Planter  
**Harvest Date:** 10/18/12 **Harvest Method:** Massey 8XP  
**Notes:**

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### Experimental Design

**Design:** RCB **Replications:** 4  
**Plot Size Seeded:** 10' x 25' **Experiment Size:** 0.25 A  
**Harvest Plot Size:** 2.5' x 22' **Harvest Plant Density:** 30380 plants per acre

### Factors/Treatments:

#### Seed treatments:

Check Noninoculated	A16148(0.0063)+A14918+A9765
Check Inoculated	A18112
A9459+A9382+A12050+A9765	A16148+A18112
A14918+A9765	STP12195+STP15201
A16148(0.0025)+A14918+A9765	STP15142+STP15199+STP15101+STP15201
A16148(0.0038)+A14918+A9765	

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**Results: Table C-27.**

**Table C-27. Corn Grain Response to Syngenta Seed Treatments.  
Arlington, WI - 2012.**

Treatment	Density		V2	Grain	Grain	Test	Lodged			Return
	V2	Harvest	Vigor	yield	moisture	weight	Total	Stalk	Root	\$/A
	plants/A	plants/A	0-9	bu/A	%	lb/bu	%	%	%	\$/A
Check Noninoculated	31534	28219	8	172	18.5	52	14	1	14	1238
Check Inoculated	32481	29356	8	167	17.7	53	11	0	11	1197
A9459+A9382+A12050+A9765	32575	31439	8	181	17.5	53	4	0	4	1157
A14918+A9765	32007	31439	8	194	17.3	54	3	0	2	1295
A16148(0.0025)+A14918+A9765	32859	31439	8	188	17.6	54	3	0	3	1257
A16148(0.0038)+A14918+A9765	31250	28409	8	181	17.7	54	5	0	5	1199
A16148(0.0063)+A14918+A9765	32765	31723	9	203	17.9	54	3	0	3	1156
A18112	31818	30208	8	188	18.0	53	2	0	2	1068
A16148+A18112	31723	30208	8	197	17.4	54	4	1	4	1096
STP12195+STP15201	32481	31344	8	189	17.5	53	3	0	3	1208
STP15142+STP15199+STP15101+STP15201	31534	30397	8	191	17.7	54	3	0	2	1215
Mean	32093	30380	8	187	17.7	53	5	0	5	1190
<b>Probability(%)</b>										
Treatment (T)	87.0	39.7	93.1	20.2	18.1	18.2	1.5	51.0	1.7	19.5
<b>LSD(0.10)</b>										
Treatment (T)	NS	NS	NS	NS	NS	NS	6	NS	6	NS