

FIELD EXPERIMENT HISTORY

Title: Corn Response to Seed Treatment - Syngenta -TFD.
Experiment: 08Syngenta-TFD **Trial ID:** 2952 **Year:** 2007
Personnel: J.G. Lauer, K.D. Kohn, and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: Syngenta Crop Protection

Site Information

Field: ARS428 **Previous Crop:** Corn **Soil Type:** Plano silt loam
Soil Test: **Date:** 10/15/07 **pH** 6.9 **OM (%)** 3.0 **P (ppm)** 32 **K (ppm)** 127

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated 6/8/07
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 325 **Date:** N/A
Starter Analysis: 9-23-30 **Rate lbs/A:** 150 **Date:** 4 /30/07
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: N/A
Herbicide: Hornet 4.0 oz/A **Insecticide:** Force 3G 4.4 lbs/A
 Harness 24 oz/A **Hybrid:** H-8012GTCBLL
 Banvel 2.0 oz/A
Irrigation: None
Planting Date: 4/30/07 **Planting Depth:** 1.5" **Row Width** 30"
Harvest Date: 10/1/07 **Planting Method:** Kinze Plot Planter
Harvest Method: Massey Ferguson 8XP

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 72' x 10' **Experiment Size:** 0.50
Harvest Plot Size: 72' x 5'

Factors/Treatments:

Seed treatments:

- 1) Maxim XL 2.7 FS+ Apron XL 3 LS
- 2) Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS
- 3) Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ Cruiser 5 FS
- 4) A14918
- 5) A14918+ Cruiser 5 FS
- 6) A14918+ A10466
- 7) A14918+ A10466+ Cruiser 5 FS
- 8) A14115+ Cruiser 5 FS
- 9) Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ STP27332+ Cruiser 5 FS
- 10) Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ Actigard 50 Wg+ Cruiser 5 FS
- 11) Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ STP27301+ Cruiser 5 FS
- 12) Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ STP27301+ STP27332+ Cruiser 5 FS
- 13) STP15142+ STP15199+ STP15101
- 14) STP15142+ STP15199+ STP15101+ STP15201
- 15) Maxim XL 2.7 FS+ Apron XL 3 LS+ STP15199
- 16) Maxim XL 2.7 FS+ Apron XL 3 LS+ STP15199+ STP15201
- 17) Check Noninoculated
- 18) Check Inoculated

Product/AI Rate

- 1). 0.0089, 0.0025
- 2). 0.0089, 0.0025, 0.0025
- 3). 0.0089, 0.0025, 0.0025, 0.25
- 4). 0.0652
- 5). 0.0652, 0.25
- 6). 0.0652, 0.05
- 7). 0.0652, 0.05, 0.25
- 8). 0.138, 0.125
- 9). 0.0089, 0.0025, 0.0025, 260.0, 0.25
- 10). 0.0089, 0.0025, 0.0025, 0.0025, 0.25
- 11). 0.0089, 0.0025, 0.0025, 0.032, 0.25
- 12). 0.0089, 0.0025, 0.0025, 0.032, 260.0, 0.25
- 13). 4.0, 5.0, 2.5
- 14). 4.0, 5.0, 2.5, 0.25
- 15). 0.0089, 0.0025, 5.0
- 16). 0.0089, 0.0025, 5.0, 0.25
- 17).
- 18).

Results: Table C-30.

Table C-30 Corn Response to Seed Treatment - Syngenta - TFD.
Arlington, WI - 2007

Treatment	Grain yield bu/A	Grain moisture %	Test weight lb/bu	Plant lodging %	Grower return \$/A	Harvest population plants/A	Seeds planted	Observation on day after planting					
								7 pop	7 vigor	14 pop	14 vigor	28 pop	28 vigor
Maxim XL 2.7 FS +Apron XL 3LS	175	25.9	51	1	567	29563	34848	0	0.0	31363	7.0	34599	7.8
Maxim XL 2.7 FS +Apron XL 3LS +Dynasty .83 FS	186	25.5	51	1	605	30840	34848	0	0.0	29123	7.3	32110	7.8
Maxim XL 2.7 FS +Apron XL 3LS +Dynasty .83 FS+Cruiser 5FS	187	25.5	52	2	608	32351	34848	0	0.0	32857	7.3	35097	7.8
A14918	179	25.9	52	1	579	29795	34848	0	0.0	32608	7.8	35844	8.0
A14918+Cruiser 5FS	181	25.3	51	3	588	30957	34848	0	0.0	31612	7.3	33106	7.8
A14918+A10466	184	25.3	52	4	599	30899	34848	0	0.0	30119	7.5	33603	7.8
A14918+A10466+Cruiser 5FS	181	25.1	51	6	589	32002	34848	0	0.0	32608	7.0	33852	7.8
A14115+Cruiser 5FS	181	26.2	52	6	585	30027	34848	0	0.0	33106	7.5	34848	8.0
Maxim XL 2.7 FS +Apron XL 3LS+Dynasty .83 FS+STP27332+Cruiser 5FS	195	25.2	50	2	635	30260	34848	0	0.0	32359	7.5	34848	7.8
Maxim XL 2.7 FS +Apron XL 3LS+Dynasty .83 FS+Actigard 50Wg+Cruiser 5FS	187	25.5	52	4	609	30260	34848	0	0.0	32608	7.8	35097	8.0
Maxim XL 2.7 FS +Apron XL 3LS+Dynasty .83 FS+STP27301+Cruiser 5FS	178	25.3	52	5	578	30492	34848	0	0.0	31612	7.0	33106	8.0
Maxim XL 2.7 FS +Apron XL 3LS+Dynasty .83 FS+STP27301+STP27332+Cruiser 5FS	181	25.2	51	2	588	31305	34848	0	0.0	34350	7.3	35346	8.0
STP15142+STP15199+STP15101	186	26.0	51	4	604	30318	34848	0	0.0	36341	7.3	35097	7.8
STP15142+STP15199+STP15101+STP15201	177	25.0	51	4	579	30550	34848	0	0.0	33106	7.3	36590	8.0
Maxim XL 2.7 FS +Apron XL 3LS++STP15199	189	25.5	52	2	613	30144	34848	0	0.0	27878	7.3	32110	8.0
Maxim XL 2.7 FS +Apron XL 3LS+++STP15199+STP15201	181	25.7	51	2	588	30144	34848	0	0.0	30368	7.0	32608	8.0
Check Noninoculated	186	25.3	52	1	606	29853	34848	0	0.0	32857	7.3	31363	7.8
Check Inoculated	172	25.5	52	1	559	29156	34848	0	0.0	33603	7.8	32359	8.0
Mean	182	25.5	51	3	593	30495	34848	0	0.0	32138	7.3	33977	7.9
Probability(%)													
Treatment (T)	27.9	97.6	33	44	24.9	15.4	-	-	-	73	5.4	86	87.4
LSD(0.10)													
Treatment (T)	NS	NS	NS	NS	NS	NS	-	-	-	NS	0.4	NS	NS
CV(%)	5	4	2	121	5	4	-	-	-	14	5	11	4

FIELD EXPERIMENT HISTORY

Title: Corn Response to Seed Treatment - Syngenta - UTH.
Experiment: 08 Syngenta UTH **Trial ID:** 2945 **Year:** 2007
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: Syngenta Crop Protection

Site Information

Field: ARS428 **Previous Crop:** Corn **Soil Type:** Plano silt loam
Soil Test: **Date:** 10/15/07 **pH** 7.0 **OM (%)** 2.8 **P (ppm)** 38 **K (ppm)** 114

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated 6/8/07
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 325 **Date:** N/A
Starter Analysis: 9-23-30 **Rate lbs/A:** 150 **Date:** 4 /30/07
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: N/A
Herbicide: Hornet 4.0 oz/A **Insecticide:** Force 3G 4.4 lbs/A
 Harness 24 oz/A **Hybrid:** H-8012GTCBLL
 Banvel 2.0 oz/A
Irrigation: None
Planting Date: 4/30/07 **Planting Depth:** 1.5" **Row Width** 30"
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Harvest Method: Massey Ferguson 8XP

Experimental Design

Design: RCB **Replications:** 4
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Factors/Treatments:

Seed treatments:

- 1) Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS
- 2) A14918+ Cruiser 5 FS
- 3) A14918+ Cruiser 5 FS
- 4) Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ Cruiser 5 FS
- 5) Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ Cruiser 5 FS
- 6) Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ STP15201
- 7) Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ STP15201
- 8) Maxim XL 2.7 FS+ Apron XL 3 LS+ STP15199
- 9) Maxim XL 2.7 FS+ Apron XL 3 LS+ STP15199+ STP15201
- 10) Maxim XL 2.7 FS+ Apron XL 3 LS+ STP15199+ STP15201
- 11) Maxim XL 2.7 FS+ Apron XL 3 LS+ Cruiser 5 FS
- 12) STP15142+ STP15199+ STP15101+ STP15201
- 13) STP15142+ STP15199+ STP15101+ STP15201
- 14) Maxim XL 2.7 FS+ Apron XL 3 LS+ STP17170
- 15) Check Noninoculated
- 16) Check Inoculated

Product/AI Rate

- 1). 0.0089,0.0025,0.0025
- 2). 0.0652,0.25
- 3). 0.0652,1.25
- 4). 0.0089,0.0025,0.0025,0.25
- 5). 0.0089,0.0025,0.0025,1.25
- 6). 0.0089,0.0025,0.0025,0.25
- 7). 0.0089,0.0025,0.0025,1.25
- 8). 0.0089,0.0025,5.0
- 9). 0.0089,0.0025,5.0,0.25
- 10). 0.0089,0.0025,5.0,1.25
- 11). 0.0089,0.0025,0.25
- 12). 4.0,5.0,2.5,0.25
- 13). 4.0,5.0,2.5,1.25
- 14). 0.0089,0.0025,0.0025,0.25
- 15).
- 16).

Results: Table C-31.

**Table C-31. Corn Response to Seed Treatment - Syngenta - UTH.
Arlington, WI - 2007**

Treatment	Grain		Test weight lb/bu	Plant lodging %	Grower return \$/A	Harvest population plants/A	Seeds planted		V3		V6	
	yield bu/A	moisture %					pop plants/A	vigor Arating	pop plants/A	vigor rating		
Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS	175	24.5	50	2	573	30144	34848	36093	8.0	35595	8.0	
A14918+ Cruiser 5 FS @ 0.25	182	24.8	51	1	595	29621	34848	33355	8.0	34848	8.0	
A14918+ Cruiser 5 FS @ 1.25	183	26.5	51	2	592	29911	34848	36590	8.0	36341	8.0	
Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ Cruiser 5 FS @ 0.25	175	26.1	50	0	568	28750	34848	34599	8.0	38582	8.0	
Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ Cruiser 5 FS @ 1.25	179	26.0	51	3	578	29969	34848	33106	8.0	37337	8.0	
Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ STP15201 @ 0.25	185	25.9	51	2	599	29911	34848	29123	7.8	31861	8.0	
Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ STP15201 @ 1.25	188	25.2	51	0	614	29969	34848	34101	8.0	34599	8.0	
Maxim XL 2.7 FS+ Apron XL 3 LS+ STP15199	178	25.3	51	1	578	30318	34848	34101	8.0	37088	8.0	
Maxim XL 2.7 FS+ Apron XL 3 LS+ STP15199+ STP15201 @ 0.25	174	24.9	51	1	569	29737	34848	34101	8.0	35097	8.0	
Maxim XL 2.7 FS+ Apron XL 3 LS+ STP15199+ STP15201 @ 1.25	183	25.6	50	2	594	29679	34848	30865	7.8	33355	8.0	
Maxim XL 2.7 FS+ Apron XL 3 LS+ Cruiser 5 FS	175	25.2	51	1	570	30202	34848	36093	7.8	35097	8.0	
STP 15142+ STP15199+ STP15101+ STP15201 @ 0.25	174	25.3	51	0	565	29156	34848	32359	8.0	35097	8.0	
STP 15142+ STP15199+ STP15101+ STP15201 @ 1.25	174	25.5	51	0	565	30434	34848	37586	8.0	36093	8.0	
Maxim XL 2.7 FS+ Apron XL 3 LS+ Dynasty .83 FS+ STP17170	176	25.0	51	2	573	28575	34848	33603	8.0	33355	8.0	
Check Noninoculated	177	25.5	50	1	575	28285	34848	31861	8.0	34599	8.0	
Check Inoculated	175	25.5	50	0	569	29679	34848	31363	8.0	36093	8.0	
Mean	178	25.4	51	1	580	29646	34848	33681	8.0	35315	8.0	
Probability(%) Treatment (T)	11.8	39.8	85.3	39	16.7	21.3	-	6.5	59.0	46.0	-	
LSD(0.10) Treatment (T)	NS	NS	NS	NS	NS	NS	-	3988	NS	NS	-	
CV(%)	4	4	2	146	4	4	-	10	2.7	9	-	