

FIELD EXPERIMENT HISTORY

Title: Nematode Seed Treatments - Syngenta
Experiment: 08Seed **Trial ID:** 5820 **Year:** 2014
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo, Ann MacGuidwin
Location: Hancock, WI - Loc 1 **County:** Washara
Supported By: Syngenta

Site Information

Field: C28 **Previous Crop:** Corn **Soil Type:** Plainfield Sand
Soil Test: **Date:** 10/1 /14 **pH:** 6.5 **SOM (%)** 0.8 **P (ppm)** 84 **K (ppm)** 102

Plot Management

Tillage Operations: Turbo-Till Soil Finisher
Fertilizer: **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A
Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /4 /14
Post plant Analysis: 46-0-0 **Rate lbs/A:** 350 lbs/A **Date:** 6/24/15 and 6/16/15
21-0-0-24S 150 lbs/A 6/03/15
Manure: None
Herbicide: Prowl 2.0 pt/A **Insecticide:** None
Laudis 3.0 oz/A **Hybrid:** See factors
Irrigation: Irrigated
Planting Date: 5/4/14 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/28/14 **Harvest Method:** Massey 8XP

Experimental Design

Design: RCB: 2 x 11 factorial **Replications:** 4
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.34 Acre
Harvest Plot Size: 5' x 22' **Harvest Plant Density:** 32511 plants per acre

Factors/Treatments:

Seed treatments:

- 1) A14918@0.064 + A9765@0.25
 - 2) A14918@0.064 + A9765@0.5
 - 3) A18112@0.534
 - 4) A18043@0.784
 - 5) A18112@0.534 + A16148@0.0125
 - 6) A18043@0.784 + A16148@0.0125
 - 7) A18112@0.534 + A16148@0.0125 + A17960@0.125
 - 8) A18112@0.534 + A16148@0.0125 + A17960@0.25
 - 9) A18043@0.784 + A16148@0.0125 + A17960@0.125
 - 10) A18043@0.784 + A16148@0.0125 + A17960@0.25
 - 11) A14918@0.064 + STP20282@0.6
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Results: Table 1408-01.

**Table: 1408-01. Nematode Seed Treatments - Syngenta.
Location 1, Hancock, WI - 2014.**

Treatment	Grain	Grain	Test	Lodged			AGI
	yield	moisture	weight	Total	Stalk	Root	\$3.67
	bu/A	%	lb/bu	%	%	%	\$/A
A14918@0.064 + A9765@0.25	202	24.5	51	0	0	0	660
A14918@0.064 + A9765@0.5	197	25.4	51	0	0	0	640
A14918@0.064 + STP20282@0.6	222	23.7	51	0	0	0	728
A18043@0.784	199	25.2	51	0	0	0	647
A18043@0.784 + A16148@0.0125	199	24.2	51	0	0	0	651
A18043@0.784 + A16148@0.0125 + A17960@0.125	195	23.9	50	0	0	0	639
A18043@0.784 + A16148@0.0125 + A17960@0.25	218	25.4	51	0	0	0	705
A18112@0.534	214	24.4	51	0	0	0	698
A18112@0.534 + A16148@0.0125	196	23.7	51	0	0	0	643
A18112@0.534 + A16148@0.0125 + A17960@0.125	211	24.2	51	0	0	0	690
A18112@0.534 + A16148@0.0125 + A17960@0.25	202	25.0	52	0	0	0	657
Mean	205	24.5	51	0	0	0	669
<u>Probability(%)</u>							
Treatment (T)	2.3	5.9	49.6	36.1	38.0	100	3.0
<u>LSD(0.10)</u>							
Treatment (T)	15	1	NS	NS	NS	NS	49

FIELD EXPERIMENT HISTORY

Title: Nematode Seed Treatments - Syngenta
Experiment: 08Seed **Trial ID:** 5939 **Year:** 2014
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo, Ann MacGuidwin
Location: Hancock, WI - Loc 2 **County:** Washara
Supported By: Syngenta

Site Information

Field: C30 **Previous Crop:** Corn **Soil Type:** Plainfield Sand
Soil Test: **Date:** 10/1 /14 **pH:** 7.3 **SOM (%)** 0.8 **P (ppm)** 60 **K (ppm)** 82

Plot Management

Tillage Operations: Turbo-Till Soil Finisher
Fertilizer: **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A
Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /4 /14
Post plant Analysis: 46-0-0 **Rate lbs/A:** 350 lbs/A **Date:** 6/24/15 and 6/16/15
21-0-0-24S 150 lbs/A 6/03/15
Manure: None
Herbicide: Prowl 2.0 pt/A **Insecticide:** None
Laudis 3.0 oz/A **Hybrid:** See factors
Irrigation: Irrigated
Planting Date: 5/4/14 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/28/14 **Harvest Method:** Massey 8XP

Experimental Design

Design: RCB: 2 x 11 factorial **Replications:** 4
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.34 Acre
Harvest Plot Size: 5' x 22' **Harvest Plant Density:** 31828 plants per acre

Factors/Treatments:

Seed treatments:

- 1) A14918@0.064 + A9765@0.25
 - 2) A14918@0.064 + A9765@0.5
 - 3) A18112@0.534
 - 4) A18043@0.784
 - 5) A18112@0.534 + A16148@0.0125
 - 6) A18043@0.784 + A16148@0.0125
 - 7) A18112@0.534 + A16148@0.0125 + A17960@0.125
 - 8) A18112@0.534 + A16148@0.0125 + A17960@0.25
 - 9) A18043@0.784 + A16148@0.0125 + A17960@0.125
 - 10) A18043@0.784 + A16148@0.0125 + A17960@0.25
 - 11) A14918@0.064 + STP20282@0.6
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Results: Table 1408-02.

**Table: 1408-02. Nematode Seed Treatments - Syngenta.
Location 2, Hancock, WI - 2014.**

Treatment	Grain	Grain	Test	Lodged			AGI
	yield	moisture	weight	Total	Stalk	Root	\$3.67
	bu/A	%	lb/bu	%	%	%	\$/A
A14918@0.064 + A9765@0.25	196	22.2	52	0	0	0	647
A14918@0.064 + A9765@0.5	209	22.1	53	0	0	0	691
A14918@0.064 + STP20282@0.6	206	22.0	53	0	0	0	681
A18043@0.784	210	22.4	53	0	0	0	692
A18043@0.784 + A16148@0.0125	200	22.4	53	1	1	0	659
A18043@0.784 + A16148@0.0125 + A17960@0.125	204	23.2	53	0	0	0	670
A18043@0.784 + A16148@0.0125 + A17960@0.25	211	23.4	54	0	0	0	694
A18112@0.534	205	23.0	53	0	0	0	675
A18112@0.534 + A16148@0.0125	206	23.0	53	0	0	0	679
A18112@0.534 + A16148@0.0125 + A17960@0.125	204	22.5	53	0	0	0	672
A18112@0.534 + A16148@0.0125 + A17960@0.25	208	22.0	52	2	2	0	687
Mean	205	22.6	53	0	0	0	677
<u>Probability(%)</u>							
Treatment (T)	4.2	69.9	66.5	0.6	0.6	100	5.2
<u>LSD(0.10)</u>							
Treatment (T)	7	NS	NS	1	1	NS	23

FIELD EXPERIMENT HISTORY

Title: Nematode Seed Treatments - Syngenta
Experiment: 08Seed **Trial ID:** 5819 **Year:** 2014
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo, Ann MacGuidwin
Location: Hancock, WI **County:** Washara
Supported By: Syngenta

Site Information

Field: C28 **Previous Crop:** Corn **Soil Type:** Plainfield Sand
Soil Test: **Date:** 10/1 /14 **pH:** 6.5 **SOM (%)** 0.8 **P (ppm)** 84 **K (ppm)** 102

Plot Management

Tillage Operations: Turbo-Till Soil Finisher
Fertilizer: **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A
Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /4 /14
Post plant Analysis: 46-0-0 **Rate lbs/A:** 350 lbs/A **Date:** 6/24/15 and 6/16/15
21-0-0-24S 150 lbs/A 6/03/15
Manure: None
Herbicide: Prowl 2.0 pt/A **Insecticide:** None
Laudis 3.0 oz/A **Hybrid:** Unknown
Irrigation: Irrigated
Planting Date: 5/4/14 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/28/14 **Harvest Method:** Massey 8XP

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.34
Harvest Plot Size: 5' x 22' **Harvest Plant Density:** 31605 plants per acre

Factors/Treatments:

Seed treatments:

- 1) A14918@0.064 + A16148@0.0125
 - 2) A14918@0.064 + A16148@0.0125 + A9765@0.25
 - 3) A14918@0.064 + 16148@0.0125 + A9765@0.5
 - 4) A18112@0.534
 - 5) A18112@0.534 + A16148@0.0125
 - 6) A18043@0.784
 - 7) A18043@0.784 + A16148@0.0125
 - 8) A16148@0.0125 + A18112@0.534
 - 9) A14918@0.064 + A16148@0.0125 + STP15201@0.5
 - 10) A14918@0.064 + A16148@0.0125 + STP20282@0.6
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Results: Table 1408-03.

**Table: 1408-03. Nematode Seed Treatments - Syngenta.
Hancock, WI - 2014.**

Treatment	Grain	Grain	Test	Lodged			AGI
	yield	moisture	weight	Total	Stalk	Root	\$3.67
	bu/A	%	lb/bu	%	%	%	\$/A
A14918@0.064 + A16148@0.0125	217	25.1	52	0	0	0	705
A14918@0.064 + A16148@0.0125 + A9765@0.25	217	25.2	52	0	0	0	703
A14918@0.064 + A16148@0.0125 + A9765@0.5	213	24.9	51	0	0	0	691
A14918@0.064 + A16148@0.0125 + STP15201@0.5	215	25.4	51	0	0	0	698
A14918@0.064 + A16148@0.0125 + STP20282@0.6	219	24.6	52	0	0	0	712
A16148@0.0125 + A18112@0.534	218	24.5	52	0	0	0	712
A18043@0.784	216	25.3	51	0	0	0	702
A18043@0.784 + A16148@0.0125	212	25.4	51	0	0	0	687
A18112@0.534	213	26.0	51	0	0	0	688
A18112@0.534 + A16148@0.0125	214	25.5	51	0	0	0	692
Mean	215	25.2	51	0	0	0	699
<u>Probability(%)</u>							
Treatment (T)	86.2	31.9	87.7	67.3	46.8	45.4	77.2
<u>LSD(0.10)</u>							
Treatment (T)	NS	NS	NS	NS	NS	NS	NS