

FIELD EXPERIMENT HISTORY

Title: NuFarm Corn Rootworm Study.
Experiment: 08 NuFarm **Trial ID:** 3001 **Year:** 2007
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: NuFarm Americas

Site Information

Field: ARS428 **Previous Crop:** Corn **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 11/01/07 **pH** 6.9 **OM (%)** 3.0 **P (ppm)** 32 **K (ppm)** 127

Plot Management

Tillage Operations: Fall 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:** None
Harness 24 oz/A **Hybrid:** Kaltenberg K4265RRBt
Banvel 2.0 oz/A
Irrigation: None
Planting Date: 4/30/07 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 33454 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 9/28/07 **Harvest Method:** Massey Ferguson 8XP
Notes: NuFarm Study No. S 2007 079.
 The ISU 0 to 3 node-injury root rating scale was used. A rating of 0.50 or below is considered acceptable economic root protection. 5 roots per replicate were evaluated.

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 72' x 10' **Experiment Size:** 0.36 A
Harvest Plot Size: 72' x 5' **Harvest Plant Density:** 28992 plants per acre

Factors/Treatments:

<u>Treatment</u>	<u>Rate</u>
1) NUP 05071	1.34 mg ai/seed
2) NUP 07066	1.34 mg ai/seed
3) Poncho	1.25 mg ai/seed
4) Cruiser	1.25 mg ai/seed
5) UTC	

Results: Table C-28.

Table C-28. NuFarm Corn Rootworm Study.
Arlington, WI - 2007

Treatment	Grain yield		Grain moisture		Test weight lb/bu	Harvest population plants/A	Root lodging %	Stalk lodging %	V5		V2		Nodual	
	bu/A	%	%	plants/A					plants/A	1-9 vigor	plants/A	1-9 vigor	Seeds planted	Injury rating
NUP 05071	193	23.6	53	28617	6	0	0	34599	8.0	30368	8.0	34848	1.5	634
NUP 07066	194	23.9	53	29222	6	0	0	32359	8.0	34599	8.3	34848	1.6	637
Poncho	209	23.8	53	29887	9	0	0	31114	8.0	31363	8.3	34848	0.8	685
Cruiser	201	24.3	53	29040	12	0	0	29870	8.0	33355	8.0	34848	1.4	659
UTC	179	23.9	53	28193	20	0	0	30616	8.0	33106	8.0	34848	2.4	586
Mean	195	23.9	53	28992	10	0	0	31712	8.0	32558	8.1	34848	1.6	640
Probability(%)														
Treatment (T)	0.1	46.4	95.7	7.5	3.6	-	-	29.9	-	38.6	61.1	-	0.6	0.1
LSD(0.10)														
Treatment (T)	9	NS	NS	964	8	-	-	NS	-	NS	NS	-	0.6	31
CV(%)	4	2	1	3	59	-	-	10	-	10	4	-	29	4

FIELD EXPERIMENT HISTORY

Title: NuFarm Corn Rootworm Study.
Experiment: 08 NuFarm **Trial ID:** 3002 **Year:** 2007
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Fond du Lac, WI **County:** Fond du Lac
Supported By: NuFarm Americas

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Virgil Silt Loam
Soil Test: **Date:** 11/01/07 **pH** 7.1 **OM (%)** 4.4 **P (ppm)** 12 **K (ppm)** 81

Plot Management

Tillage Operations: Fall Chisel Plow Field Cultivator Cultivated 6/18/07
Fertilizer: **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A
Starter Analysis: 9-23-30 **Rate lbs/A:** 150 **Date:** 5/8/07
Post plant Analysis: 46-0-0 **Rate lbs/A:** 325 **Date:** 6/18/07
Manure: N/A
Herbicide: Atrazine 0.5 lbs/A **Insecticide:** None
Accent 0.67 oz/A **Hybrid:** Kaltenberg K4265RRBt
Callisto 3.0 oz/A
Irrigation: None
Planting Date: 5/8/07 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 36363 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: 10/11/07 **Harvest Method:** Massey Ferguson 8XP
Notes: NuFarm Study No. S 2007 079.
The ISU 0 to 3 node-injury root rating scale was used. A rating of 0.50 or below is considered acceptable economic root protection. 5 roots per replicate were evaluated.

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 22' x 10' **Experiment Size:** 0.12 A
Harvest Plot Size: 22' x 5' **Harvest Plant Density:** 31799 plants per acre

Factors/Treatments:

<u>Treatment</u>	<u>Rate</u>
1) NUP 05071	1.34 mg ai/seed
2) NUP 07066	1.34 mg ai/seed
3) Poncho	1.25 mg ai/seed
4) Cruiser	1.25 mg ai/seed
5) UTC	

Results: Table C-29.

**Table C-29. NuFarm Corn Rootworm Study.
Fond du Lac, WI - 2007**

Treatment	Grain yield		Grain moisture		Test weight		Harvest population		Root lodging		Stalk lodging		V5 population		V5 Vigor		Seeds planted		Nodual Injury		Grower return	
	bu/A	%	lb/bu	plants/A	%	plants/A	%	plants/A	%	plants/A	1-9	0 to 3	seeds/A	0 to 3	seeds/A	0 to 3	rating	\$/A				
NUP 05071	173	20.6	55	32076	1	15	35145	8.0	36363	0.3	579											
NUP 07066	163	19.5	55	31680	1	18	35739	8.0	36363	0.8	550											
Poncho	170	19.8	56	32670	4	16	36036	7.5	36363	0.5	572											
Cruiser	183	20.1	55	31086	1	12	35343	7.5	36363	1.5	614											
UTC	173	20.0	55	31482	5	18	36531	7.5	36363	1.4	580											
Mean	172	20.0	55	31799	3	16	35759	7.7	36363	0.9	579											
Probability(%)																						
Treatment (T)	45.7	19.3	48.2	85.5	48.1	37.8	25.8	44.5	-	5.6	51.0											
LSD(0.10)																						
Treatment (T)	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.8	NS											
CV(%)	8	3	2	7	148	30	3	7	-	66	8											