

FIELD EXPERIMENT HISTORY

Title: Genuity SmartSTAX FAB's versus Competitors
Experiment: 10Pest **Trial ID:** 3399 **Year:** 2011
Personnel: J. G. Lauer, K. D. Kohn, T. H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: Monsanto

Site Information

Field: ARS 408 **Previous Crop:** Corn **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/21/11 **pH:** 6.2 **OM (%)** 3.9 **P (ppm)** 114 **K (ppm)** 48

Plot Management

Tillage Operations: Chisel Plow Field Cultivator
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 325 **Date:** N/A
Starter Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A

Herbicide: Hornet 5 oz/A **Insecticide:** Where used, 4.4 lbs/A of Force3G
 Dual II Mag 24 oz/A **Hybrid:** Seed Factors
 Roundup 22 oz/A

Irrigation: None

Planting Date: 5/24/ 2011 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Kinze 2000 Interplant planter
Harvest Date: 10/24/11 **Harvest Method:** Kincaid plot combine
Notes: Heavy Stalk Lodging.
 The ISU 0 to 3 node-injury root rating scale was used to evaluated root damage.

Experimental Design

Design: RCB **Replications:** 4
Plot Size Seeded: 20' x 75' **Experiment Size:** 1.9 A
Harvest Plot Size: 5' x 72' **Harvest Plant Density:** 30750 plants per acre

Factors/Treatments:

Hybrids:

Dekalb DKC55-08-RR2
 Dekalb DKC55-08-RR2 plus insecticide
 Dekalb DKC55-09-GENSS
 NK N53-W3-3000GT
 NK N53C-3111-Vip3111
 Pioneer 35F37-RR2 plus insecticide
 Pioneer 35F44-RR2HXT

Results: Table C-53.

**Table C-53. Monsanto - Genuity SmartSTAX Trial.
Arlington, WI - 2011.**

Hybrid	Harvest	Grain	Grain	Test	Grower	Lodged			Root
	population	yield	moisture	weight	return	Total	Stalk	Root	rating
	plants/A	bu/A	%	lb/bu	\$/A	%	%	%	0-3
Dekalb DKC55-08	32500	174	21.2	57	925	50	50	0	0.16
Dekalb DKC55-08 plus insecticide	30500	187	21.5	57	996	55	53	2	
Dekalb DKC55-09	32000	196	21.8	55	1041	61	57	4	
NK N53-W3	28500	177	22.5	54	936	18	17	1	
NK N53C-3111	31750	174	22.4	55	921	54	52	2	
Pioneer 35F37 plus insecticide	30500	179	20.5	57	956	29	29	0	
Pioneer 35F44	29500	197	21.7	58	1047	12	10	2	
Mean	30750	183	21.7	56	974	40	38	2	0.16
Probability(%)									
Hybrid (H)	6.9	4.2	6.1	0.0	4.3	0.2	0.4	53.5	-
LSD(0.10)									
Hybrid (H)	2266	15	1.1	1	79	20	21	NS	-