

FIELD EXPERIMENT HISTORY

Title: Syngenta Enogen - Grain
Experiment: 01HT **Trial ID:** 6248 **Year:** 2017
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Arlington, WI **County:** Columbia
Supported By: HATCH, Syngenta

Site Information

Field: ARS408 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 5 /8 /17 **pH:** 6.7 **OM (%)** 3.5 **P (ppm)** 53 **K (ppm)** 168

Plot Management

Tillage Operations: Disk Chisel Field Cultivator

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer: Preplant :	46-0-0	250	N/A
	Starter : 9-11-30-6S-1Zn	200 lbs/A	5 /8 /17
	Post plant : N/A	N/A	N/A
	Manure:		
Herbicide: Hornet 4.0 oz/A		Insecticide: Force 3G 4.4 lbs/A	
	Harness 28 oz/A	Hybrid: Factor	
Irrigation: None			
Planting Date: 5/8/17	Planting Depth: 1.5"	Row Width: 30"	
Target Plant Density:	plants per acre	Planting Method: Almaco Precision Planter	
Harvest Date: 10/16/17		Harvest Method: Massey Ferguson 8XP	

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5 x 25 **Experiment Size:** 0.15 A
Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 30583 plants per acre

Factors/Treatments:

Hybrid Type (Isoline):

Dekalb DKC58-06RIB
 Pioneer P0157AMX
 Golden Harvest G01P52-3011A
 Cornelius C380
 Renk RK717SSTX

Hybrid Type (Enogen):

SL6164TW
 X43297TT
 X5132ATT
 X60906TT
 X66399TT

Results: Table 1701-10.

**Table: 1701-10. Syngenta - Enogen Corn Yield performance.
Arlington, WI - 2017.**

Hybrid	Grain							AGI \$3.24 \$/A
	Harvest	Yield	Moisture	Test	Lodged			
	Density			weight	Total	Stalk	Root	
	plants/A	bu/A	%	lbs/bu	%	%	%	
SL6164TW	30785	238	31.5	54	6	6	0	640
X43297TT	31565	221	25.9	57	2	2	0	619
X5132ATT	31818	241	26.3	57	3	2	2	672
X60906TT	31439	286	29.1	58	0	0	0	782
X66399TT	30176	230	28.6	55	8	7	2	633
Dekalb DKC58-06RIB	30502	242	28.2	57	5	5	0	667
Pioneer P0157AMX	29394	217	23.1	59	1	1	0	621
Golden Harvest G01P52-3011A	28156	218	25.7	59	1	1	0	611
Cornelius C380	31691	235	25.6	58	1	1	0	660
Renk RK717SSTX	30303	249	28.0	57	2	1	1	686
Mean	30583	238	27.2	57	3	2	1	659
<u>Probability(%)</u>								
Hybrid	26.0	0.0	0.1	2.9	8.1	7.6	61.1	0.0
<u>LSD (0.10)</u>								
Hybrid	NS	16	2.1	2	5	4	NS	50

**Table: 1701-11. Syngenta - Enogen Corn Yield performance.
Marshfield WI - 2017.**

Hybrid	Grain							
	Harvest		Moisture	Test weight	Lodged			AGI
	Density	Yield			Total	Stalk	Root	
plants/A	bu/A	%	lbs/bu	%	%	%	\$/A	
SG3482TT	28598	191	31.5	54	0	0	0	514
SJ5082TT	29798	191	44.0	55	0	0	0	466
X30576TT	20454	145	30.5	51	0	0	0	392
X43297TT	26515	165	38.0	54	0	0	0	423
X5132ATT	28598	193	38.7	53	0	0	0	491
DKC46-36RIB	26767	188	35.1	52	0	0	0	494
P0157AMX	27777	199	35.0	54	0	0	0	521
G01P52-3011A	25505	159	40.6	55	0	0	0	398
Nu-Tech 5F-196	28787	188	32.4	52	1	1	0	502
N27P-3110A	28030	184	28.1	54	1	1	0	506
Mean	27083	180	35.4	53	0	0	0	471
<u>Probability(%)</u>								
Hybrid	0.2	9.4	0.0	2.1	34.0	34.0	100	8.9
<u>LSD (0.10)</u>								
Hybrid	2652	31	4.0	2	NS	NS	NS	86