

FIELD EXPERIMENT HISTORY

Title: Organic Hybrid Comparison - 2 Row
Experiment: 01Organic **Trial ID:** 3379 **Year:** 2010
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS411 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/21/10 **pH:** 6.2 **OM (%)** 3.9 **P (ppm)** 65 **K (ppm)** 129

Plot Management

Tillage Operations: Fall Chisel Plow Field Cultivator 2x

Fertilizer:	Preplant Analysis: NA	Rate lbs/A: NA	Date: NA
	Starter Analysis: 10-34-0	Rate lbs/A: 3.0 gal/A	Date: 4 /30/10
	Post plant Analysis: N/A	Rate lbs/A: N/A	Date: N/A
	Manure: N/A		

Herbicide: Dual II Mag 24 oz/A	Insecticide: Force 3G 4.4lb/A
Irrigation: None	Hybrid: See Factors

Planting Date: 5/3/10 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/5/10 **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 22'	Harvest Plant Density: 31284 plants per acre

Factors/Treatments:

Hybrids:

Blue River Hybrids 53R57	Organic UTC-Hand Weed	Viking O.6710
Foundation Organic OR8431	Prairie Hybrids 3081	Viking O.6710
Foundation Organic OR8508	Viking 5004N	Viking O.6999N
Organic UTC	Viking 6001N	Viking O.7292

Results: Table C-10

**Table C-10. Organic Hybrid Comparison, 2-row plot.
Arlington, WI - 2010.**

Hybrid	Grain yield	Grain moisture	Test weight	Lodged			Grower return
				Total	Stalk	Root	
	bu/A	%	lb/bu	%	%	%	\$/A
Viking O.7292	181	16.1	55	0	0	0	809
Viking O.6999N	225	17.3	54	0	0	0	1000
Viking 6001N	239	17.6	55	1	1	0	1063
Viking O.6710	170	17.6	55	0	0	0	755
Viking 5004N	229	18.0	53	1	1	0	1018
Viking O.6710	179	18.1	54	0	0	0	795
Foundation Organic OR8508	225	18.8	53	1	1	0	995
Organic UTC	228	18.8	55	0	0	0	1009
Prairie Hybrids 3081	215	18.9	55	0	0	0	952
Organic UTC-Hand Weed	216	19.0	55	0	0	0	955
Blue River Hybrids 53R57	223	19.5	53	1	1	0	981
Foundation Organic OR8431	240	21.0	53	0	0	0	1053
Mean	214	18.4	54	0	0	0	949
Probability(%)							
Hybrid (H)	0.0	0.0	0.0	83	85	48	0.0
LSD(0.10)							
Hybrid (H)	20	0.6	1	NS	NS	NS	89