

FIELD EXPERIMENT HISTORY

Title: UW Corn Performance Trials - Organic Grain
Experiment: 01 Technique **Trial ID:** 3617 **Year:** 2012
Personnel: J.G. Lauer, K.D. Kohn, and T. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS407 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/01/12 **pH:** 6.7 **OM (%)** 3.4 **P (ppm)** 38 **K (ppm)** 131

Plot Management

Tillage Operations: Disk Chisel Field Cultivator Cultivated 6/11/12
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 150 lbs/A **Date:** N/A
Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /10/12
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: N/A
Herbicide: Hornet 4 oz/A **Insecticide:** Force 4.4 lbs/A
Dual II Magnum 24 oz/A **Hybrid:** See Factors
Accent Q 0.9 oz/A
Callisto 3 oz/A
Irrigation: None
Planting Date: 5/10/12 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/1/12 **Harvest Method:** Massey 8XP
Notes:

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 5' x 25' **Experiment Size:** 0.3 Acre
Harvest Plot Size: 5' x 22' **Harvest Plant Density:** 30507 plants per acre
Factors/Treatments:

Hybrids:

Blue River Hybrids 41R00	Foundation Organic OR8407
Blue River Hybrids 37A37	Organic B UTC-Hand Weed
Blue River Hybrids 40R73	Organic B UTC
Blue River Hybrids 48B30	Viking O.9503
Blue River Hybrids 45R37	Viking 6001UNT
Foundation Organic OR8513	Viking O.5906N
Foundation Organic OR8544	

Results: Table C-17.

**Table C-17. UW Corn Performance Trials - Organic Grain.
Arlington, WI - 2012.**

Hybrid	Relative maturity	Harvest density plants/A	Grain yield bu/A	Grain moisture %	Test weight lb/bu	Lodged			Plant height inches	Return \$/A
						Total %	Stalk %	Root %		
Blue River Hybrids 41R00	99	28409	198	14.2	58	35	35	0	92	1269
Viking O.9503	103	31439	187	14.7	56	4	4	0	91	1200
Blue River Hybrids 37A37	95	30429	165	14.8	58	22	22	0	83	1058
Foundation Organic OR8513	101	31439	196	14.8	59	10	10	0	83	1258
Blue River Hybrids 40R73	97	32702	205	15.0	59	1	1	0	89	1315
Blue River Hybrids 48B30	102	28535	194	15.1	59	14	14	0	86	1244
Blue River Hybrids 45R37	99	30555	202	16.2	57	1	1	0	85	1296
Organic B UTC-Hand Weed	105	31944	217	17.0	59	1	1	0	91	1386
Viking 6001UNT	101	31691	217	17.2	58	1	1	0	86	1384
Foundation Organic OR8544	104	29798	226	17.3	56	12	11	0	94	1445
Organic B UTC	105	32197	226	17.3	59	3	3	0	90	1441
Viking O.5906N	106	31944	215	18.1	56	1	1	0	83	1372
Foundation Organic OR8407	105	25505	181	21.5	55	7	7	0	85	1137
Mean		30507	202	16.4	58	9	9	0	88	1293
Probability(%)										
Hybrid (H)		0.0	0.0	0.0	0.0	0.0	0.0	47.8	26.0	0.0
LSD(0.10)										
Hybrid (H)		2054	16	0.9	1	8	8	NS	NS	103