

## FIELD EXPERIMENT HISTORY

**Title:** Low Energy Corn Silage Planting Date  
**Experiment:** 11 Low Starch Study **Trial ID:** 09C56 **Year:** 2009  
**Personnel:** M.G. Bertram  
**Location:** Marshfield, WI **County:** Marathon  
**Supported by:** UWEX Team Forage, Marshfield Ag. Research Station

### Site Information

**Field:** 410 **Previous Crop:** Alfalfa/Orchardgrass **Soil Type:** Loyal silt loam  
**Soil Test :** **Date:** 11/1/07 **pH** 6.6 **SOM (%)** 3.6 **P (ppm)** 35 **K (ppm)** 97

### Plot Management

**Tillage Operations:** Fall Chisel plow Field Cultivator Cultivated  
**Fertilizer:**

	<u>Analysis</u>	<u>Rate</u>	<u>Date</u>
<b>Preplant</b>	none	N/A	N/A
<b>Starter</b>	9-11-30	150 lb/A	Planting
<b>Post plant</b>	28-0-0	40 gal/A	6/29/2009
<b>Manure</b>	Solid Heifer	29.5 tn/A	11/10/2008

**Herbicide:** G-Max Lite 2.33 pt/A **Insecticide:** None  
 Hornet 2.4 oz/A

**Irrigation:** None **Hybrid:** See Factors

**Planting Date:** varies **Planting Depth:** 1.5" **Row Width:** 30"

**Target Plant Density:** 35,000 plants per acre **Planting Method:** John Deere 7000 corn planter

**Harvest Date:** 11/4/2009 **Harvest Method:** hand harvested

**Notes:**

### Experimental Design

**Design:** RCB split plot **Replications:** 4  
**Plot Size Seeded:** 25' x 10' **Experiment Size:** 0.60 A  
**Harvest Plot size:** 25' x 2.5'

**Factors/Treatments:**

<u>Planting Date</u>	<u>Hybrid</u>
1 May 4	1 Dekalb DKB393
2 May 18	2 Hytest HT92-90W
3 June 2	3 Hytest HT94-99W

**Results: Table C-48.**

**Table C-48. Low Starch Corn Silage Planting Date.  
Marshfield, WI 2009.**

Planting Date	Hybrid	Yield tn/A	Moist %	Plant height ft	Lodging %	CP %	ADF %	NDF %	Lignin %	NDFD %	NFC %	Starch %	TDN %	Milk per	
														Ton lb	Acre lb
May 4		5.6	77.1	11.5	34	8.4	40.0	69.1	8.8	57.5	18.5	0.5	55.6	2402	13403
May 18		5.3	77.1	11.1	42	8.4	41.7	71.0	9.0	57.1	16.9	0.3	56.0	2423	12957
June 2		4.4	76.4	9.9	93	9.5	41.5	69.7	8.9	56.9	16.3	0.4	56.7	2476	10987
	Dekalb DKB393	5.2	75.9	10.8	50	8.9	41.0	69.8	8.3	57.5	16.8	0.3	56.4	2458	12839
	Hyttest HT92-90W	4.9	77.9	10.5	64	9.1	40.2	68.8	9.0	57.1	17.8	0.4	56.0	2426	11812
	Hyttest HT94-99W	5.3	76.9	11.2	54	8.3	42.0	71.2	9.3	56.8	17.1	0.5	55.9	2417	12697
May 4	Dekalb DKB393	5.7	75.6	11.5	10	8.5	40.3	69.4	8.4	57.1	17.6	0.5	55.6	2400	13694
May 4	Hyttest HT92-90W	5.3	78.5	11.1	57	8.9	39.3	68.0	8.7	58.3	18.9	0.4	56.1	2446	12843
May 4	Hyttest HT94-99W	5.8	77.2	12.0	35	7.9	40.4	69.9	9.2	57.0	18.9	0.5	55.1	2361	13673
May 18	Dekalb DKB393	5.4	76.1	11.3	41	8.3	41.7	71.4	8.3	57.1	16.5	0.2	56.0	2425	13196
May 18	Hyttest HT92-90W	5.1	77.8	10.6	48	8.9	40.2	69.0	9.1	57.3	18.0	0.4	55.9	2418	12294
May 18	Hyttest HT94-99W	5.5	77.5	11.4	37	8.1	43.2	72.5	9.5	57.0	16.2	0.4	56.0	2426	13381
June 2	Dekalb DKB393	4.6	76.0	9.6	99	9.8	41.1	68.5	8.3	58.5	16.4	0.2	57.5	2549	11627
June 2	Hyttest HT92-90W	4.3	77.3	9.9	88	9.7	41.1	69.5	9.3	55.8	16.4	0.4	56.0	2414	10298
June 2	Hyttest HT94-99W	4.5	76.0	10.1	91	8.9	42.3	71.2	9.2	56.6	16.1	0.5	56.6	2466	11036
Mean		5.1	76.9	10.8	56	8.8	41.1	69.9	8.9	57.2	17.2	0.4	56.1	2434	12449
<u>Probability (%)</u>															
Planting Date (P)		3.6	>50	2.2	0.3	<0.1	9.5	10.0	31.7	28.2	12.5	>50	13.3	18.2	8.2
Hybrid (H)		25.5	0.2	8.0	4.6	0.3	<0.1	<0.1	<0.1	32.0	3.5	>50	40.4	37.1	27.6
P x H		>50	48.6	>50	0.6	>50	17.3	6.8	16.6	2.4	14.2	>50	20.6	14.5	>50
<u>LSD 10%</u>															
Planting Date (P)		0.7	NS	0.8	21	0.3	1.3	1.4	NS	NS	NS	NS	NS	NS	1790
Hybrid (H)		NS	0.8	0.5	9	0.4	0.7	0.8	0.2	NS	0.6	NS	NS	NS	NS
P x H		NS	NS	NS	24	NS	NS	1.8	NS	1.2	NS	NS	NS	NS	NS