

FIELD EXPERIMENT HISTORY

Title: Date of Planting and Hybrid Influence on Corn Forage
Experiment: 03 DOP-Silage **Trial ID:** 2926 **Year:** 2006
Personnel: J.G. Lauer, P.J. Flannery, and K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS427 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 11/1 /06 **pH** 6.8 **OM (%)** 4.2 **P (ppm)** 86 **K (ppm)** 249

Plot Management

Tillage Operations: Fall Chisel Plow Field Cultivator Soil Finisher prior to each DOP

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	46-0-0	325	4 /20/06
Starter :	9-23-30	150	Each DOP
Post plant :	N/A	N/A	N/A
Manure:	N/A	N/A	N/A
Herbicide:	Outlook 20 oz/A Hornet 4 oz/A	Insecticide: None	
		Hybrid: See Factors	
Irrigation:	None		
Planting Date:	See Factors	Planting Depth: 1.5"	Row Width: 30"
Target Plant Density: 32000 plants per acre		Planting Method: Kinze Plot Planter	
Harvest Date: 9/8 & 10/25		Harvest Method: New Holland 707 Plot Chopper	

Experimental Design

Design: RCB Split Plot **Replications:** 3
Plot Size Seeded: 20' x 25' **Experiment Size:** 0.9 Acre
Harvest Plot Size: 2.5' x 22' **Harvest Plant Density:** 30694 plants per acre

Factors/Treatments:

Date of Planting:

April 28
 June 1
 June 30
 July 14
 July 31

Hybrids:

Dekalb DKC 58-78 (YGCB)
 NK Brand N32-L9
 Mycogen F2F444

Results: Tables C-36.

**Table C-36. Planting Date And Hybrid Influence On Corn Silage Performance
Arlington, WI - 2006.**

Planting Date	Hybrid	Whole Plant																
		Dry Matter		Kernel milk	KMR 0-5	SMR 0-5	VMR 0-10	Silking Date	Harvest		Crude		In Vitro				Milk per	
		yield tons/A	Moisture %						plants/A	ears/A	protein %	ADF %	NDF %	Digest %	NDFD %	Starch %	Ton lbs/T	Acres lbs/A
	Dekalb DKC58-78(YGCB)	6.2	67.3	54	2.7	2.7	6.3	217	30782	25186	9.5	29.6	55.9	78.5	60.1	17.7	3049	19282
	NK Brand N32-L9	5.7	63.0	39	1.9	2.5	4.3	213	30413	25555	9.7	28.8	54.1	78.7	59.3	19.5	3068	17826
	Mycogen F2F444	4.9	70.4	45	2.3	2.8	5.4	216	30888	25344	9.5	28.7	57.2	84.0	71.0	14.4	3308	16442
April 28		9.1	64.1	53	2.6	2.7	5.3	199	31240	32824	7.7	22.9	45.1	80.6	56.7	32.7	3266	29648
June 01		8.7	49.2	3	0.2	-	-	212	30536	30800	8.4	20.5	42.2	81.5	55.8	35.1	3334	28856
June 30		5.9	68.0	100	5.0	-	-	235	31504	31680	8.9	28.8	55.2	79.4	62.7	17.9	3122	18466
July 14		3.5	76.9	-	-	-	-	-	30976	31504	10.3	36.5	67.7	77.5	66.8	0.4	2819	9974
July 31		0.7	76.4	-	-	-	-	-	29216	0	12.4	36.5	68.3	83.1	75.2	0.0	3167	2306
April 28	Dekalb DKC58-78(YGCB)	10.2	64.2	72	3.6	2.7	6.3	200	31152	32472	7.6	21.7	42.8	80.3	53.9	36.7	3266	33398
April 28	NK Brand N32-L9	9.2	60.1	35	1.8	2.5	4.3	197	30624	33792	7.4	23.0	44.5	79.4	53.5	34.5	3205	29597
April 28	Mycogen F2F444	7.8	68.1	52	2.6	2.8	5.4	199	31944	32208	8.2	24.1	48.2	82.1	62.7	26.8	3325	25950
June 01	Dekalb DKC58-78(YGCB)	9.8	50.5	7	0.3	-	-	214	31152	31416	7.9	21.2	42.1	79.9	52.1	35.4	3246	31816
June 01	NK Brand N32-L9	8.7	41.5	2	0.1	-	-	209	29568	29832	8.1	19.4	39.5	80.7	51.1	40.9	3306	28901
June 01	Mycogen F2F444	7.5	55.7	2	0.1	-	-	214	30888	31152	9.2	20.8	45.1	84.0	64.3	29.1	3449	25852
June 30	Dekalb DKC58-78(YGCB)	6.4	68.0	100	5.0	-	-	238	30888	31152	8.6	31.5	58.1	75.6	58.0	16.3	2898	18653
June 30	NK Brand N32-L9	6.1	64.0	100	5.0	-	-	232	32736	32736	9.2	28.0	51.9	77.5	56.5	22.0	3045	18579
June 30	Mycogen F2F444	5.3	71.9	100	5.0	-	-	236	30888	31152	9.0	27.0	55.6	85.3	73.5	15.3	3423	18167
July 14	Dekalb DKC58-78(YGCB)	3.7	77.0	-	-	-	-	-	30096	30888	10.5	37.3	68.3	75.5	64.1	0.3	2760	10116
July 14	NK Brand N32-L9	3.6	74.4	-	-	-	-	-	31152	31416	10.6	37.5	67.7	74.2	62.0	0.3	2665	9533
July 14	Mycogen F2F444	3.4	79.3	-	-	-	-	-	31680	32208	9.8	34.7	67.1	82.7	74.3	0.8	3032	10273
July 31	Dekalb DKC58-78(YGCB)	0.8	76.7	-	-	-	-	-	30624	0	12.7	36.6	68.1	81.2	72.3	0.0	3072	2428
July 31	NK Brand N32-L9	0.8	75.2	-	-	-	-	-	27984	0	13.2	36.2	67.1	81.9	73.0	0.0	3119	2522
July 31	Mycogen F2F444	0.6	77.2	-	-	-	-	-	29040	0	11.4	36.8	69.8	86.2	80.2	0.0	3309	1968
Mean		5.6	66.9	46	2.3	2.7	5.3	215	30694	25362	9.6	29.0	55.7	80.4	63.4	17.2	3141	17850
Probability(%)																		
Date of Planting (D)		0.0	0.0	0.1	0.1	-	-	0.0	1.3	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
Hybrid (H)		0.0	0.0	0.0	0.0	25.0	0.0	0.0	67.9	39.0	31.3	33.3	4.1	0.0	0.0	0.2	0.0	0.0
D x H		0.0	0.1	0.0	0.0	-	-	10.1	25.8	0.9	0.0	11.7	29.7	0.2	0.0	4.9	1.2	0.2
LSD (0.10)																		
Date of Planting (D)		0.8	4.5	10	0.4	-	-	2	932	748	1.1	5.6	2.8	2.0	2.4	2.9	107	2894
Hybrid (H)		0.2	1.0	1	0.1	NS	0.1	1	NS	NS	NS	NS	1.9	3.3	0.8	2.2	56	889
D x H		0.4	2.3	3	0.2	-	-	NS	NS	1018	0.6	NS	NS	1.9	1.9	5.0	125	1989
CV(%)																		
		6	2	5	5	6	1	1	5	3	5	6	5	2	2	20	3	8