

FIELD EXPERIMENT HISTORY

Title: Date of Planting and Hybrid Influence on Corn Forage and Corn Grain Yield
Experiment: 03DOP **Trial ID:** 3487 **Year:** 2011
Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS358 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/21/11 **pH:** 6.1 **OM (%)** 2.9 **P (ppm)** 25 **K (ppm)** 146

Plot Management

Tillage Operations: Fall Chisel Plow Field Cultivator

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	46-0-0	325	N/A
Starter :	9-23-30	150	See Factors
Post plant :	N/A	N/A	N/A
Manure:	N/A	N/A	N/A
Herbicide:	Dual II 1.5 pt/A Hornet 4.0 oz/A	Insecticide: Force 3G 4.4 lb/A	
		Hybrid: See Factors	
Irrigation:	none		
Planting Date:	See Factors	Planting Depth: 1.5"	Row Width: 30"
Target Plant Density: 30000 plants per acre		Planting Method: Kinze Plot Planter	
Harvest Date: S: 9/15-4/13, 5/3 & 5/16 DOP S: 10/5- 5/31 & 6/17 DOP G: 10/31/11		Harvest Method: S: New Holland 707 G: Massey Ferguson 8XP	

Experimental Design

Design: RCB Split-Plot **Replications:** 4
Plot Size Seeded: 30' x 20' **Experiment Size:** 1.1 A
Harvest Plot Size: S: 25' x 2.5'
G: 25' x 5' **Harvest Plant Density:** 33045 plants per acre

Factors/Treatments:

<u>Date of Planting:</u>	<u>Hybrids:</u>
April 13	Dekalb DCK48-37
May 03	Mycogen F2F622
May 16	Pioneer 35F44
May 31	
June 17	

Results: Tables C-24, C-25, and C-26.

Table C- 24. Planting Date and Hybrid Influence on Corn Grain and Silage Performance.
Arlington, WI - 2011.

Planting date	Hybrid	Grain												
		Harvest		Test		Lodged			Grower return	Grain Composition			Ethanol	
		plants/A	Yield bu/A	Moisture %	Test weight lbs/bu	Total %	Stalk %	Root %		Oil %	Starch %	Protein %	per bu gallons	per A gallons
April 13		27922	217	16.0	59	15	3	12	1178	3.2	65.8	7.3	2.74	638
May 03		33672	230	15.6	60	30	12	18	1249	3.4	65.9	7.3	2.74	677
May 16		34107	218	16.1	59	36	26	11	1183	3.3	66.1	7.1	2.75	643
May 31		34412	204	19.1	56	50	11	39	1093	3.3	66.5	7.1	2.77	605
June 17		35109	166	28.0	50	93	13	81	863	3.3	66.1	7.1	2.71	483
	Dekalb DKC48-37	33489	207	17.8	57	43	16	27	1116	3.2	66.3	7.2	2.74	609
	Pioneer 35F44	32600	207	20.1	57	46	10	37	1111	3.4	65.9	7.2	2.74	610
April 13	Dekalb DKC48-37	28053	210	15.0	59	9	6	3	1142	3.2	65.7	7.3	2.74	618
April 13	Pioneer 35F44	27791	224	16.9	59	21	1	21	1214	3.3	66.0	7.3	2.74	659
May 03	Dekalb DKC48-37	34761	231	14.6	60	25	22	2	1256	3.2	66.1	7.2	2.75	681
May 03	Pioneer 35F44	32583	229	16.7	60	35	2	34	1242	3.5	65.8	7.3	2.73	673
May 16	Dekalb DKC48-37	34761	213	15.1	59	45	44	1	1159	3.2	66.1	7.2	2.75	629
May 16	Pioneer 35F44	33454	223	17.2	59	28	7	21	1208	3.5	66.2	7.1	2.75	658
May 31	Dekalb DKC48-37	34848	203	17.5	56	53	9	44	1097	3.2	66.9	7.1	2.76	602
May 31	Pioneer 35F44	33977	204	20.7	56	46	13	33	1089	3.3	66.1	7.1	2.77	608
June 17	Dekalb DKC48-37	35022	177	26.8	49	85	0	85	924	3.3	66.7	7.1	2.70	513
June 17	Pioneer 35F44	35196	155	29.2	50	101	25	76	801	3.3	65.6	7.1	2.72	452
Mean		33045	207	19.0	57	45	13	32	1113	3.3	66.1	7.2	2.74	609
Probability(%)														
Date of Planting (D)		0.0	0.1	0.0	0.0	0.3	29.5	0.0	0.0	34.9	7.1	17.9	0.2	0.1
Hybrid (H)		6.4	90.7	0.0	19.5	68.7	29.2	2.2	72.3	0.0	2.0	99.5	65.3	87.1
D x H		51.5	0.5	20.5	27.2	60.0	5.5	1.0	0.5	6.3	3.2	89.1	7.2	1.1
LSD (0.10)														
Date of Planting (D)		2155	20	2.0	1	27	NS	17	106	NS	0.4	0.2	0.02	61
Hybrid (H)		779	NS	0.3	NS	NS	NS	7	NS	0.0	0.2	NS	NS	NS
D x H		NS	20	NS	NS	NS	24.1	19.5	105	0.1	0.6	NS	0.02	60

continued

Table C- 24. Planting Date and Hybrid Influence on Corn Grain and Silage Performance.(continued) **Arlington, WI - 2011.**

Planting date	Hybrid	Whole Plant													
		Dry Matter		Kernel milk %	KMR 0-5	SMR 0-5	VMR 0-10	Crude protein %	<i>In Vitro</i>					Milk per	
		yield tons/A	moisture %						ADF %	NDF %	Digest %	NDFD %	Starch %	Ton lbs/T	Acre lbs/A
April 13		9.6	58.7	47.5	2.4	1.3	3.7	6.0	22.5	43.2	81.7	57.6	38.2	3288	31474
May 03		9.9	56.7	45.6	2.3	1.3	3.6	5.6	23.1	43.6	80.9	56.2	38.3	3242	31970
May 16		9.5	59.0	55.6	2.8	1.5	4.3	5.9	23.2	43.8	81.5	57.7	37.7	3271	31192
May 31		7.9	57.2	34.4	1.7	0.3	2.0	5.9	24.8	46.6	78.6	53.8	37.3	3082	24369
June 17		6.3	68.9	65.0	3.3	1.5	4.7	5.8	29.5	54.2	78.3	59.3	22.4	2923	18418
	Mycogen F2F622	8.2	62.6	53.8	2.7	1.2	3.9	6.0	26.7	49.7	80.0	59.5	31.2	3103	25755
	Pioneer 35F44	9.0	57.6	45.5	2.3	1.2	3.4	5.7	22.6	42.8	80.4	54.3	38.3	3220	29214
April 13	Mycogen F2F622	9.4	60.5	51.3	2.6	1.3	3.9	6.3	23.9	45.4	81.3	58.8	37.6	3244	30573
April 13	Pioneer 35F44	9.7	56.9	43.8	2.2	1.3	3.5	5.8	21.2	40.9	82.1	56.3	38.8	3332	32376
May 03	Mycogen F2F622	9.6	57.4	46.3	2.3	1.3	3.6	5.6	23.7	44.8	80.9	57.4	39.1	3231	30986
May 03	Pioneer 35F44	10.1	56.0	45.0	2.3	1.4	3.6	5.6	22.5	42.4	80.9	55.1	37.5	3253	32954
May 16	Mycogen F2F622	9.1	61.8	57.5	2.9	1.8	4.7	6.1	25.3	47.0	80.9	59.5	35.2	3208	29053
May 16	Pioneer 35F44	10.0	56.1	53.8	2.7	1.3	3.9	5.7	21.1	40.7	82.1	56.0	40.2	3334	33330
May 31	Mycogen F2F622	7.7	60.7	35.0	1.8	0.3	2.0	6.2	26.9	49.9	78.4	56.8	33.9	3041	23243
May 31	Pioneer 35F44	8.2	53.8	33.8	1.7	0.3	2.0	5.5	22.8	43.2	78.7	50.8	40.6	3123	25496
June 17	Mycogen F2F622	5.3	72.6	78.8	3.9	1.4	5.3	5.9	33.7	61.5	78.6	65.2	10.5	2790	14922
June 17	Pioneer 35F44	7.2	65.2	51.3	2.6	1.6	4.1	5.7	25.3	46.9	78.1	53.4	34.4	3056	21914
Mean		8.6	60.1	49.6	2.5	1.2	3.7	5.8	24.6	46.3	80.2	56.9	34.8	3161	27485
Probability(%)															
Date of Planting (D)		0.0	0.0	0.1	0.1	0.1	0.0	38.9	0.0	0.0	0.0	0.2	0.0	0.0	0.0
Hybrid (H)		0.3	0.0	2.3	2.3	76.1	8.8	0.8	0.0	0.0	37.2	0.0	0.0	0.3	0.1
D x H		26.7	1.1	10.8	10.8	41.2	55.4	35.0	0.1	0.0	74.5	0.1	0.0	24.9	23.1
LSD (0.10)															
Date of Planting (D)		0.6	3.1	9.5	0.5	0.4	0.7	NS	1.2	1.7	1.1	1.8	2.5	93	2218
Hybrid (H)		0.4	0.9	5.7	0.3	NS	0.4	0.2	0.7	1.0	NS	1.1	1.4	58	1380
D x H		NS	3.2	NS	NS	NS	NS	NS	1.6	2.2	NS	2.5	3.2	NS	NS

**Table C-25. Planting Date and Hybrid Influence on Corn Grain and Silage Performance.
Arlington, WI - 2011.**

Planting Date	Hybrid	Percent emerged	Silking date	Plant height	Early dent	Kernel Milk			Black layer
						75 %	50 %	25 %	
		%	doy	inches	doy	doy	doy	doy	doy
	Dekalb DKC48-37	91	206	96	237	247	258	262	271
	Mycogen F2F622	94	213	108	251	259	266	268	274
	Pioneer 35F44	92	207	97	240	252	261	266	276
April 13		76	201	97	234	242	251	263	271
May 03		97	202	98	234	244	254	262	272
May 16		96	204	101	237	247	255	264	274
May 31		95	210	104	246	256	266	273	280
June 17		99	222	98	259	274	282	-	-
April 13	Dekalb DKC48-37	69	200	91	232	236	247	259	269
April 13	Mycogen F2F622	81	205	106	244	252	258	266	273
April 13	Pioneer 35F44	77	201	95	230	239	249	264	272
May 03	Dekalb DKC48-37	98	200	94	229	238	249	258	268
May 03	Mycogen F2F622	98	205	112	245	252	260	264	271
May 03	Pioneer 35F44	96	201	93	232	243	253	264	275
May 16	Dekalb DKC48-37	96	202	96	230	242	251	261	270
May 16	Mycogen F2F622	94	209	108	246	255	261	268	276
May 16	Pioneer 35F44	97	203	99	236	246	255	263	276
May 31	Dekalb DKC48-37	94	208	103	240	250	263	269	277
May 31	Mycogen F2F622	96	216	111	251	261	268	273	278
May 31	Pioneer 35F44	95	209	102	247	256	267	276	282
June 17	Dekalb DKC48-37	100	219	97	255	270	280	-	-
June 17	Mycogen F2F622	100	228	105	269	276	283	-	-
June 17	Pioneer 35F44	97	221	96	257	276	283	-	-
Mean		92	208	100	242	252	262	265	274

Probability(%)

Date of Planting (D)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Hybrid (H)	54.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D x H	48.1	1.8	0.0	0.0	0.0	0.1	1.4	0.8	25.7

LSD (0.10)

Date of Planting (D)	3	1	2	2	2	3	2	3	3
Hybrid (H)	NS	1	1	1	1	1	1	1	1
D x H	NS	2	2	3	3	3	3	3	NS

**Table C-26. Planting Date and Hybrid Influence on Corn Leaf Development.
Arlington, WI - 2011.**

Date of planting	Hybrid	Observation date	Leaf Development			Plant height
			Leaf collars	Hail adjusters method	Total leaves	
		day of year	no./plant	no./plant	no./plant	inches
		154	2.2	3.8	4.8	4.1
		167	4.1	6.4	7.4	9.4
		179	7.0	8.5	11.4	22.8
		194	11.4	13.3	15.3	54.0
		207	16.5	15.8	17.9	82.5
		220	18.5	17.2	18.7	93.9
		234	18.9	17.6	18.9	97.1
	Dekalb DKC48-37		12.9	12.8	14.8	57.0
	Mycogen F2F622		11.9	12.9	14.2	60.2
	Pioneer 35F44		12.2	12.5	14.2	57.3
	Dekalb DKC48-37	154	2.5	3.9	4.9	4.3
	Dekalb DKC48-37	167	4.4	6.7	7.7	9.5
	Dekalb DKC48-37	179	7.4	9.1	11.8	22.5
	Dekalb DKC48-37	194	12.4	13.8	15.9	56.1
	Dekalb DKC48-37	207	17.2	15.7	18.3	81.6
	Dekalb DKC48-37	220	18.7	16.7	18.9	87.8
	Dekalb DKC48-37	234	19.1	16.8	19.1	90.6
	Mycogen F2F622	154	2.0	3.5	4.5	4.2
	Mycogen F2F622	167	3.9	6.0	7.0	9.6
	Mycogen F2F622	179	6.6	8.0	11.2	22.7
	Mycogen F2F622	194	10.4	13.1	14.9	50.4
	Mycogen F2F622	207	15.8	16.2	17.7	82.0
	Mycogen F2F622	220	18.3	18.3	18.8	102.7
	Mycogen F2F622	234	18.9	18.8	18.9	107.3
	Pioneer 35F44	154	2.2	3.9	4.9	4.0
	Pioneer 35F44	167	4.2	6.4	7.3	9.2
	Pioneer 35F44	179	7.0	8.5	11.2	23.4
	Pioneer 35F44	194	11.5	13.1	15.1	55.7
	Pioneer 35F44	207	16.7	15.6	17.7	83.9
	Pioneer 35F44	220	18.4	16.8	18.5	91.4
	Pioneer 35F44	234	18.6	17.2	18.6	93.4
April 13			12.7	13.3	14.8	56.3
May 03			13.0	13.4	15.0	60.7
May 16			11.6	11.9	13.7	54.6
May 31			11.8	12.2	13.9	58.9
June 17			12.6	12.9	14.9	62.9
April 13		154	2.9	4.6	5.6	4.7
April 13		167	5.0	8.3	9.3	12.2
April 13		179	8.4	10.2	13.3	27.3
April 13		194	15.0	15.9	17.8	70.6
April 13		207	19.1	17.6	19.2	91.5
April 13		220	19.2	18.3	19.2	94.1
April 13		234	19.2	18.3	19.2	94.1

continued

Table C-26. Planting Date and Hybrid Influence on Corn Leaf Development.

(continued)

Arlington, WI - 2011.

Date of planting	Hybrid	Observation date	Leaf Development			Plant height
			Leaf collars	Hail adjusters method	Total leaves	
		day of year	no./plant	no./plant	no./plant	inches
May 03		154	2.8	3.9	4.9	4.8
May 03		167	5.1	7.6	8.6	12.0
May 03		179	7.8	9.6	12.5	28.2
May 03		194	13.9	15.5	17.4	69.4
May 03		207	19.0	17.3	19.2	95.1
May 03		220	19.2	17.9	19.2	95.3
May 03		234	19.2	17.9	19.2	95.3
May 16		154	1.2	2.8	3.8	3.1
May 16		167	4.2	6.2	7.2	9.3
May 16		179	6.6	8.4	11.0	23.2
May 16		194	12.4	14.5	16.5	61.0
May 16		207	18.3	16.5	18.9	92.2
May 16		220	19.2	17.6	19.2	96.8
May 16		234	19.2	17.6	19.2	96.8
May 31		154	-	-	-	-
May 31		167	2.4	3.5	4.4	4.5
May 31		179	5.3	5.9	8.8	13.2
May 31		194	9.8	12.7	15.0	48.3
May 31		207	16.2	16.0	17.6	85.2
May 31		220	18.8	17.4	18.8	100.5
May 31		234	18.6	17.5	18.6	102.0
June 17		154	-	-	-	-
June 17		167	-	-	-	-
June 17		179	-	-	-	-
June 17		194	5.5	7.6	9.5	19.1
June 17		207	10.0	11.7	14.4	48.5
June 17		220	16.1	15.1	17.3	83.0
June 17		234	18.2	16.7	18.2	97.3
April 13	Dekalb DKC48-37		13.1	13.2	15.1	53.9
April 13	Mycogen F2F622		12.5	13.6	14.8	59.4
April 13	Pioneer 35F44		12.5	13.0	14.5	55.7
May 03	Dekalb DKC48-37		13.8	13.2	15.4	59.6
May 03	Mycogen F2F622		12.6	13.6	14.9	63.0
May 03	Pioneer 35F44		12.8	13.2	14.7	59.2
May 16	Dekalb DKC48-37		11.9	11.9	13.9	51.5
May 16	Mycogen F2F622		11.1	12.1	13.5	58.3
May 16	Pioneer 35F44		11.7	11.8	13.7	54.1
May 31	Dekalb DKC48-37		12.5	12.4	14.4	59.7
May 31	Mycogen F2F622		11.2	12.1	13.5	58.3
May 31	Pioneer 35F44		11.8	12.0	13.7	58.7
June 17	Dekalb DKC48-37		13.7	13.4	16.0	64.9
June 17	Mycogen F2F622		11.7	13.2	14.4	63.4
June 17	Pioneer 35F44		12.4	12.1	14.4	60.5

continued

Table C-26. Planting Date and Hybrid Influence on Corn Leaf Development.

(continued)

Arlington, WI - 2011.

Date of planting	Hybrid	Observation date	Leaf Development			Plant height
			Leaf collars	Hail adjusters method	Total leaves	
		day of year	no./plant	no./plant	no./plant	inches
April 13	Dekalb DKC48-37	154	3.1	4.8	5.8	4.9
April 13	Dekalb DKC48-37	167	5.1	8.6	9.6	11.6
April 13	Dekalb DKC48-37	179	9.0	10.8	13.9	26.8
April 13	Dekalb DKC48-37	194	16.1	16.1	18.1	72.1
April 13	Dekalb DKC48-37	207	19.4	17.4	19.6	89.9
April 13	Dekalb DKC48-37	220	19.4	17.5	19.4	86.0
April 13	Dekalb DKC48-37	234	19.4	17.5	19.4	86.0
April 13	Mycogen F2F622	154	2.9	4.4	5.4	4.7
April 13	Mycogen F2F622	167	4.6	8.0	9.0	12.1
April 13	Mycogen F2F622	179	7.9	9.6	13.1	27.3
April 13	Mycogen F2F622	194	13.8	16.0	17.5	65.7
April 13	Mycogen F2F622	207	19.3	18.4	19.3	94.3
April 13	Mycogen F2F622	220	19.5	19.5	19.5	105.9
April 13	Mycogen F2F622	234	19.5	19.5	19.5	105.9
April 13	Pioneer 35F44	154	2.8	4.6	5.6	4.5
April 13	Pioneer 35F44	167	5.1	8.3	9.3	12.7
April 13	Pioneer 35F44	179	8.4	10.1	12.8	27.8
April 13	Pioneer 35F44	194	15.3	15.5	17.6	74.0
April 13	Pioneer 35F44	207	18.8	17.1	18.8	90.3
April 13	Pioneer 35F44	220	18.8	17.8	18.8	90.4
April 13	Pioneer 35F44	234	18.8	17.8	18.8	90.4
May 03	Dekalb DKC48-37	154	3.0	4.3	5.3	4.8
May 03	Dekalb DKC48-37	167	5.2	7.7	8.7	11.7
May 03	Dekalb DKC48-37	179	8.0	9.8	12.7	27.8
May 03	Dekalb DKC48-37	194	14.7	15.5	17.3	69.3
May 03	Dekalb DKC48-37	207	19.0	16.8	19.0	93.1
May 03	Dekalb DKC48-37	220	19.0	16.1	19.0	82.9
May 03	Dekalb DKC48-37	234	19.0	16.1	19.0	82.9
May 03	Mycogen F2F622	154	2.3	3.5	4.5	4.8
May 03	Mycogen F2F622	167	5.0	7.3	8.3	12.7
May 03	Mycogen F2F622	179	7.4	9.1	12.4	27.0
May 03	Mycogen F2F622	194	12.8	15.6	17.5	65.4
May 03	Mycogen F2F622	207	19.1	18.0	19.6	97.5
May 03	Mycogen F2F622	220	19.6	19.6	19.6	109.5
May 03	Mycogen F2F622	234	19.6	19.6	19.6	109.5
May 03	Pioneer 35F44	154	3.0	4.2	5.2	4.7
May 03	Pioneer 35F44	167	5.3	7.9	8.9	11.5
May 03	Pioneer 35F44	179	8.0	9.9	12.6	29.7
May 03	Pioneer 35F44	194	14.4	15.3	17.3	73.4
May 03	Pioneer 35F44	207	18.9	17.3	18.9	94.6
May 03	Pioneer 35F44	220	18.9	18.0	18.9	93.5
May 03	Pioneer 35F44	234	18.9	18.0	18.9	93.5

continued

Table C-26. Planting Date and Hybrid Influence on Corn Leaf Development.

(continued)

Arlington, WI - 2011.

Date of planting	Hybrid	Observation date	Leaf Development			Plant height
			Leaf collars	Hail adjusters method	Total leaves	
		day of year	no./plant	no./plant	no./plant	inches
May 16	Dekalb DKC48-37	154	1.5	2.9	3.9	3.3
May 16	Dekalb DKC48-37	167	4.6	6.8	7.8	10.7
May 16	Dekalb DKC48-37	179	7.0	9.3	11.5	22.9
May 16	Dekalb DKC48-37	194	13.5	14.9	17.1	62.6
May 16	Dekalb DKC48-37	207	19.0	16.1	19.0	87.4
May 16	Dekalb DKC48-37	220	19.0	16.9	19.0	86.6
May 16	Dekalb DKC48-37	234	19.0	16.9	19.0	86.6
May 16	Mycogen F2F622	154	1.0	2.6	3.6	3.2
May 16	Mycogen F2F622	167	3.9	5.8	6.8	8.7
May 16	Mycogen F2F622	179	6.1	7.8	10.8	23.5
May 16	Mycogen F2F622	194	11.4	14.3	16.1	58.0
May 16	Mycogen F2F622	207	17.0	16.8	18.5	94.0
May 16	Mycogen F2F622	220	19.3	18.8	19.3	110.3
May 16	Mycogen F2F622	234	19.3	18.8	19.3	110.3
May 16	Pioneer 35F44	154	1.1	2.9	3.9	2.8
May 16	Pioneer 35F44	167	4.1	6.1	7.1	8.6
May 16	Pioneer 35F44	179	6.8	8.1	10.9	23.1
May 16	Pioneer 35F44	194	12.3	14.4	16.3	62.5
May 16	Pioneer 35F44	207	19.0	16.8	19.3	95.3
May 16	Pioneer 35F44	220	19.3	17.1	19.3	93.4
May 16	Pioneer 35F44	234	19.3	17.1	19.3	93.4
May 31	Dekalb DKC48-37	154	-	-	-	-
May 31	Dekalb DKC48-37	167	3.0	4.0	5.0	4.5
May 31	Dekalb DKC48-37	179	5.9	6.6	9.4	13.7
May 31	Dekalb DKC48-37	194	10.5	13.1	15.6	51.4
May 31	Dekalb DKC48-37	207	17.5	16.4	18.3	88.1
May 31	Dekalb DKC48-37	220	19.0	17.4	19.0	99.3
May 31	Dekalb DKC48-37	234	19.0	16.9	19.0	101.5
May 31	Mycogen F2F622	154	-	-	-	-
May 31	Mycogen F2F622	167	2.0	3.1	4.1	4.8
May 31	Mycogen F2F622	179	5.0	5.4	8.6	13.0
May 31	Mycogen F2F622	194	9.1	12.3	14.3	44.3
May 31	Mycogen F2F622	207	14.3	15.8	17.0	77.4
May 31	Mycogen F2F622	220	18.6	18.1	18.6	105.3
May 31	Mycogen F2F622	234	18.3	18.1	18.3	105.3
May 31	Pioneer 35F44	154	-	-	-	-
May 31	Pioneer 35F44	167	2.1	3.4	4.1	4.1
May 31	Pioneer 35F44	179	5.0	5.8	8.5	12.9
May 31	Pioneer 35F44	194	9.9	12.8	15.0	49.3
May 31	Pioneer 35F44	207	16.9	15.8	17.6	90.1
May 31	Pioneer 35F44	220	18.6	16.6	18.6	96.9
May 31	Pioneer 35F44	234	18.5	17.6	18.5	99.1

continued

Table C-26. Planting Date and Hybrid Influence on Corn Leaf Development.

(continued)

Arlington, WI - 2011.

Date of planting	Hybrid	Observation date day of year	Leaf Development			Plant height inches
			Leaf collars no./plant	Hail adjusters method no./plant	Total leaves no./plant	
June 17	Dekalb DKC48-37	154	-	-	-	-
June 17	Dekalb DKC48-37	167	-	-	-	-
June 17	Dekalb DKC48-37	179	-	-	-	-
June 17	Dekalb DKC48-37	194	6.0	8.3	10.2	19.0
June 17	Dekalb DKC48-37	207	10.9	11.8	15.4	49.4
June 17	Dekalb DKC48-37	220	17.3	15.4	18.1	84.0
June 17	Dekalb DKC48-37	234	18.9	16.8	18.9	95.9
June 17	Mycogen F2F622	154	-	-	-	-
June 17	Mycogen F2F622	167	-	-	-	-
June 17	Mycogen F2F622	179	-	-	-	-
June 17	Mycogen F2F622	194	5.1	7.3	9.1	18.9
June 17	Mycogen F2F622	207	9.1	12.3	13.9	46.8
June 17	Mycogen F2F622	220	14.6	15.5	16.8	82.4
June 17	Mycogen F2F622	234	18.0	17.9	18.0	105.5
June 17	Pioneer 35F44	154	-	-	-	-
June 17	Pioneer 35F44	167	-	-	-	-
June 17	Pioneer 35F44	179	-	-	-	-
June 17	Pioneer 35F44	194	5.5	7.4	9.3	19.5
June 17	Pioneer 35F44	207	10.1	11.0	14.0	49.4
June 17	Pioneer 35F44	220	16.4	14.4	16.9	82.6
June 17	Pioneer 35F44	234	17.6	15.5	17.6	90.5
Mean			12.3	12.7	14.4	58.2
Probability(%)						
Date of Planting (D)			0.0	0.0	0.0	0.0
Hybrid (H)			0.0	0.0	0.0	0.0
D x H			0.0	0.0	0.0	0.0
Sample DOY (S)			0.0	0.0	0.0	0.0
D x S			0.0	0.0	0.0	0.0
H x S			0.0	0.0	0.3	0.0
D x H x S			0.0	50.1	44.8	0.0
LSD(0.10)						
Date of Planting (D)			0.4	0.4	0.4	3.2
Hybrid (H)			0.1	0.1	0.1	0.7
D x H			0.2	0.3	0.2	1.6
Sample DOY (S)			0.1	0.2	0.1	1.1
D x S			0.3	0.4	0.3	2.5
H x S			0.2	0.3	0.3	1.9
D x H x S			0.5	NS	NS	4.3