FIELD EXPERIMENT HISTORY

Title: **Date of Planting and Hybrid Influence on Corn Forage and Corn Grain Yield**

Experiment: 03DOP **Trial ID:** 6342 **Year:** 2019

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo

Location: Arlington, WI **County:** Columbia

Supported By: HATCH

Site Information

Field: ARS358 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam

Soil Test: **Date:** 11/1 /16 **pH:** 6.1 **OM (%)** 2.9 **P (ppm)** 27 **K (ppm)** 161

Plot Management

Tillage Operations: Disk Chisel Field Cultivator

		Analysis:	Rate lbs/A:	Date:
Fertilizer:	**Preplant :**	32-0-0	123 lbs/A	N/A
	Starter :	N/A	N/A	N/A
	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: None

Hybrid: Factor

Irrigation: None

Planting Date: See Factors **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 34000 **plants per acre** **Planting Method:** JD1700 w RTK

Harvest Date: S: See Factors
G:11/15/19

Harvest Method: S: New Holland 707
G: Massey Ferguson 8XP

Notes:

Experimental Design

Design: RCB split-plot (2 x 4 Factorial for split) **Replications:** 4

Plot Size Seeded: 10' x 30' **Experiment Size:** 1.7 A

Harvest Plot Size: S: 30' x 2.5'
G: 30' x 5'

Harvest Plant Density: 32960 **plants per acre**

Factors/Treatments:

Planting Date:
1) April 22
2) May 03
3) May 14
4) May 31
5) June 14

Hybrid:
1) Pioneer P9998AMXT
2) DeKalb DKC58-06RIB

Harvest Date:
1) September 06
2) September 24

Results: Tables 1903-01, 1903-02 & 1903-03.

Table: 1903-01. Planting Date Influence on Corn Grain Performance.
Arlington, WI - 2019.

Planting date	Hybrid	Grain													
		Harvest population	Yield	Moisture	Test weight	Lodged			AGI $3.54	Silking date	Early dent	Kernel Milk			Black layer
						Total	Stalk	Root				75%	50%	25%	
		plants/A	bu/A	%	lbs/bu	%	%	%	$/A	doy	doy	doy	doy	doy	doy
	DKC58-06RIB	32089	210	33.5	53	14.5	6.6	7.9	622	214	253	261	270	279	286
	P9998AMXT	33832	212	26.1	53	10.8	5.4	5.4	658	213	247	256	265	271	282
April 22		30710	228	27.0	55	17.3	4.5	12.8	701	207	241	249	258	271	284
May 03		31291	217	26.9	54	8.0	2.8	5.2	670	208	243	251	261	272	283
May 14		33469	218	28.8	54	17.0	4.9	12.2	664	210	246	255	263	275	285
May 31		34122	222	30.1	53	6.7	4.1	2.6	670	216	255	262	271	283	-
June 14		35211	171	36.4	51	14.3	13.7	0.6	495	226	267	276	286	-	-
April 22	DKC58-06RIB	29330	235	30.5	54	17.9	2.6	15.3	708	207	244	252	261	276	286
May 03	DKC58-06RIB	29476	209	30.0	54	6.9	2.5	4.4	633	209	246	254	266	278	285
May 14	DKC58-06RIB	32960	219	32.2	54	23.6	8.0	15.6	652	211	248	256	266	279	286
May 31	DKC58-06RIB	33396	221	33.1	53	9.2	5.7	3.5	653	216	258	264	272	284	-
June 14	DKC58-06RIB	35284	166	41.9	52	14.9	14.1	0.8	461	226	270	278	288	-	-
April 22	P9998AMXT	32089	220	23.6	56	16.7	6.4	10.3	694	207	239	247	255	265	281
May 03	P9998AMXT	33106	225	23.8	55	9.1	3.2	6.0	706	208	240	249	257	267	281
May 14	P9998AMXT	33977	217	25.4	54	10.4	1.7	8.7	675	210	243	254	261	271	284
May 31	P9998AMXT	34848	223	27.0	53	4.2	2.5	1.7	686	216	251	260	271	281	-
June 14	P9998AMXT	35138	176	30.9	49	13.8	13.4	0.4	530	225	265	274	284	-	-
Mean		32960	211	29.8	53	12.7	6.0	6.7	640	213	250	259	268	275	284
Probability(%)															
Hybrid(H)		5.1	75.5	0.1	79.5	32.9	59.6	37.7	18.8	8.5	0.5	2.3	6.0	1.6	36.1
PlantDate(P)		0.0	0.0	0.0	0.0	4.9	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.1	80.1
HxP		17.0	56.0	9.3	0.1	44.3	33.9	81.5	60.7	42.1	82.2	87.2	20.3	24.6	88.1
LSD (0.10)															
Hybrid(H)		1301	NS	1.4	NS	NS	NS	NS	NS	1	2	2	4	4	NS
PlantDate(P)		1350	17	1.6	1	7.3	4.3	6.6	53	1	2	3	3	4	NS
HxP		NS	NS	2	1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table: 1903-02. Planting Date and Harvest Timing Influence on Corn Silage Performance.

Arlington, WI - 2019.

				Whole Plant														
	Planting	Harvest	Plant	Dry Matter		Plant	Kernel	KMR	SMR	VMR	Crude	*In Vitro*					Milk per	
Hybrid	date	date	density	yield	Moisture	height	milk	0-5	0-5	0-10	protein	ADF	NDF	Digest	NDFD	Starch	Ton	Acre
			plants/A	tons/A	%	inches	%				%	%	%	%	%	%	lbs/T	lbs/A
DKC58-06RIB			32046	8.8	73.5	108	74	3.7	3.0	6.7	7.5	22.5	41.2	83.3	59.5	22.7	2835	25221
P9998AMXT			34470	8.8	72.9	105	69	3.4	2.3	5.8	7.5	22.2	40.3	84.4	61.4	24.6	2983	26746
	April 22		31254	9.5	70.6	101	58	2.9	2.3	5.2	7.4	20.1	37.5	85.1	60.2	28.1	3093	29718
	May 03		32307	9.1	71.8	104	60	3.0	2.0	5.0	7.2	21.0	38.8	84.4	59.8	26.5	3001	27554
	May 14		32706	8.8	71.7	102	68	3.4	2.4	5.8	7.3	20.3	38.1	85.2	61.1	27.1	3055	26808
	May 31		35247	9.1	73.9	111	80	4.0	2.9	6.9	7.5	22.4	41.0	84.1	61.4	23.9	2966	27213
	June 14		34775	7.5	78.0	113	92	4.6	3.6	8.3	8.0	27.9	48.5	80.4	59.7	12.6	2431	18625
		September 6	33106	8.3	75.4	105	85	4.2	3.4	7.6	7.8	24.0	43.2	83.2	61.2	18.9	2691	22822
		September 24	33411	9.3	71.0	107	58	2.9	1.9	4.8	7.2	20.7	38.4	84.5	59.7	28.4	3128	29145
DKC58-06RIB	April 22		29330	9.3	70.6	103	61	3.1	2.6	5.7	7.4	19.5	37.1	85.2	60.0	28.2	3072	28721
DKC58-06RIB	May 03		30710	9.0	72.1	105	65	3.3	2.5	5.8	7.2	20.9	38.8	84.1	58.9	25.5	2906	26474
DKC58-06RIB	May 14		30928	8.9	71.8	103	71	3.5	2.7	6.3	7.2	20.4	38.4	84.6	59.9	26.7	3005	26919
DKC58-06RIB	May 31		34630	9.0	74.5	112	81	4.0	3.1	7.1	7.6	23.3	42.5	83.0	60.0	21.7	2830	25707
DKC58-06RIB	June 14		34630	7.5	78.3	114	94	4.7	4.0	8.7	8.0	28.4	49.3	79.6	58.8	11.6	2363	18284
P9998AMXT	April 22		33178	9.8	70.6	98	54	2.7	2.0	4.6	7.4	20.6	37.9	85.0	60.4	28.1	3115	30715
P9998AMXT	May 03		33904	9.2	71.5	102	54	2.7	1.6	4.3	7.2	21.2	38.7	84.7	60.6	27.5	3096	28635
P9998AMXT	May 14		34485	8.6	71.6	101	64	3.2	2.1	5.3	7.4	20.2	37.8	85.7	62.3	27.6	3106	26697
P9998AMXT	May 31		35864	9.2	73.3	111	80	4.0	2.7	6.7	7.5	21.5	39.5	85.3	62.9	26.1	3101	28719
P9998AMXT	June 14		34921	7.4	77.6	112	91	4.5	3.3	7.9	8.0	27.5	47.7	81.2	60.6	13.7	2498	18965
DKC58-06RIB		September 6	32234	8.2	75.6	106	85	4.3	3.7	8.0	7.8	24.4	44.0	82.5	60.5	17.3	2585	21611
DKC58-06RIB		September 24	31857	9.3	71.3	109	63	3.2	2.2	5.4	7.1	20.6	38.4	84.1	58.5	28.2	3086	28831
P9998AMXT		September 6	33977	8.5	75.1	104	84	4.2	3.1	7.3	7.7	23.5	42.3	83.8	61.9	20.6	2796	24033
P9998AMXT		September 24	34964	9.2	70.7	106	53	2.7	1.6	4.2	7.2	20.9	38.4	84.9	60.9	28.5	3170	29459
	April 22	September 6	30855	9.1	72.8	97	77	3.8	3.4	7.2	7.7	20.9	38.8	85.2	61.9	25.3	2985	27176
	April 22	September 24	31654	10.0	68.3	105	38	1.9	1.2	3.1	7.1	19.3	36.2	85.0	58.6	31.0	3202	32260
	May 03	September 6	31436	9.0	73.4	104	76	3.8	2.8	6.7	7.4	21.3	39.6	84.5	60.9	24.7	2938	26661
	May 03	September 24	33178	9.2	70.2	103	44	2.2	1.2	3.4	6.9	20.8	38.0	84.3	58.6	28.3	3064	28448
	May 14	September 6	33614	8.7	73.6	103	82	4.1	2.9	6.9	7.5	21.0	39.1	85.2	62.1	24.6	2942	25659
	May 14	September 24	31799	8.8	69.8	101	53	2.7	2.0	4.6	7.1	19.6	37.0	85.2	60.1	29.7	3169	27956
	May 31	September 6	34267	8.2	76.5	110	91	4.6	3.7	8.3	7.9	24.9	44.4	82.9	61.8	17.5	2659	21931
	May 31	September 24	36227	9.9	71.3	113	69	3.5	2.0	5.5	7.2	19.9	37.6	85.3	61.1	30.3	3272	32496
	June 14	September 6	35356	6.6	80.6	113	98	4.9	4.2	9.1	8.4	31.7	54.0	78.0	59.3	2.8	1929	12682
	June 14	September 24	34195	8.4	75.3	114	87	4.3	3.1	7.5	7.5	24.2	43.1	82.8	60.1	22.5	2932	24567

continued

Table: 1903-02. Planting Date and Harvest Timing Influence on Corn Silage Performance.

continued. **Arlington, WI - 2019.**

				Whole Plant														
	Planting	Harvest	Plant	Dry Matter		Plant	Kernel	KMR	SMR	VMR	Crude			*In Vitro*			Milk per	
Hybrid	date	date	density	yield	Moisture	height	milk	0-5	0-5	0-10	protein	ADF	NDF	Digest	NDFD	Starch	Ton	Acre
			plants/A	tons/A	%	inches	%				%	%	%	%	%	%	lbs/T	lbs/A
DKC58-06RIB	April 22	September 6	29476	8.8	72.8	99	79	3.9	3.7	7.7	7.7	20.7	38.9	85.1	61.8	24.2	2906	25583
DKC58-06RIB	April 22	September 24	29185	9.8	68.4	108	44	2.2	1.5	3.7	7.1	18.3	35.3	85.2	58.2	32.1	3238	31859
DKC58-06RIB	May 03	September 6	29621	8.7	73.9	104	78	3.9	3.3	7.2	7.6	21.8	40.6	83.8	60.1	22.6	2811	24584
DKC58-06RIB	May 03	September 24	31799	9.3	70.4	107	53	2.7	1.7	4.4	6.9	19.9	37.0	84.4	57.8	28.4	3002	28364
DKC58-06RIB	May 14	September 6	33106	8.8	73.5	105	81	4.1	3.2	7.3	7.5	21.3	39.7	84.7	61.6	23.4	2869	25335
DKC58-06RIB	May 14	September 24	28750	9.1	70.1	101	60	3.0	2.3	5.3	6.9	19.5	37.0	84.5	58.2	30.0	3141	28503
DKC58-06RIB	May 31	September 6	33541	8.2	76.6	110	91	4.6	3.9	8.4	8.0	25.4	45.2	82.3	61.2	15.6	2540	20958
DKC58-06RIB	May 31	September 24	35719	9.8	72.5	113	70	3.5	2.3	5.8	7.1	21.3	39.8	83.6	58.7	27.7	3120	30457
DKC58-06RIB	June 14	September 6	35429	6.4	81.4	114	98	4.9	4.5	9.4	8.4	32.9	55.7	76.6	58.0	0.5	1799	11593
DKC58-06RIB	June 14	September 24	33832	8.5	75.2	114	90	4.5	3.4	7.9	7.5	23.9	42.9	82.7	59.7	22.7	2927	24975
P9998AMXT	April 22	September 6	32234	9.4	72.9	94	75	3.8	3.0	6.8	7.7	21.0	38.7	85.2	61.9	26.3	3063	28769
P9998AMXT	April 22	September 24	34122	10.2	68.3	102	33	1.6	0.9	2.5	7.1	20.2	37.2	84.7	59.0	29.9	3167	32661
P9998AMXT	May 03	September 6	33251	9.4	72.9	104	75	3.8	2.4	6.2	7.3	20.7	38.5	85.3	61.8	26.8	3066	28737
P9998AMXT	May 03	September 24	34558	9.1	70.0	99	34	1.7	0.7	2.4	7.0	21.6	38.9	84.2	59.4	28.3	3127	28532
P9998AMXT	May 14	September 6	34122	8.6	73.6	101	83	4.1	2.6	6.6	7.4	20.7	38.5	85.6	62.7	25.8	3015	25984
P9998AMXT	May 14	September 24	34848	8.5	69.6	101	46	2.3	1.7	4.0	7.3	19.7	37.1	85.9	61.9	29.3	3196	27409
P9998AMXT	May 31	September 6	34993	8.2	76.4	110	91	4.6	3.6	8.2	7.8	24.5	43.7	83.6	62.3	19.3	2778	22904
P9998AMXT	May 31	September 24	36736	10.1	70.1	112	69	3.4	1.7	5.2	7.2	18.5	35.4	87.0	63.5	32.9	3424	34535
P9998AMXT	June 14	September 6	35284	6.7	79.8	112	98	4.9	3.8	8.7	8.4	30.5	52.2	79.4	60.6	5.0	2059	13770
P9998AMXT	June 14	September 24	34558	8.2	75.5	113	84	4.2	2.8	7.0	7.5	24.4	43.3	82.9	60.6	22.3	2937	24160
Mean			33258	8.8	73.2	106	71	3.6	2.7	6.2	7.5	22.3	40.8	83.8	60.4	23.7	2909	25984
Probability(%)																		
Hybrid (H)			0.7	73.6	18.2	14.7	4.5	4.5	4.4	1.2	99.0	49.4	21.8	5.4	2.9	5.7	2.3	19.0
PlantDate(P)			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0
HxP			1.5	80.1	79.9	83.3	39.0	39.0	75.9	36.7	92.9	15.2	16.3	25.0	50.9	19.9	30.8	80.4
HarvDate(D)			40.2	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HxD			6.7	37.6	87.0	66.6	1.0	1.0	82.6	12.4	10.3	10.0	9.4	51.0	16.8	1.7	7.7	29.1
PxD			0.6	1.3	16.3	2.2	0.0	0.0	2.7	0.0	19.4	0.0	0.0	0.0	1.0	0.0	0.0	0.1
HxPxD			9.0	88.5	34.0	32.2	58.7	58.7	97.0	93.1	83.5	25.2	20.2	18.1	16.7	45.0	62.0	81.1
LSD(0.10)																		
Hybrid (H)			845	NS	NS	NS	4	0.2	0.5	0.4	NS	NS	NS	0.8	1.1	1.5	81	NS
PlantDate(P)			971	0.6	0.9	4	5	0.2	0.3	0.4	0.2	1.0	1.3	1.0	1.3	1.6	93	2445
HxP			1373	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
HarvDate(D)			NS	0.3	0.5	2	3	0.1	0.2	0.3	0.1	0.6	0.8	0.6	0.6	1.0	59	1416
HxD			862	NS	NS	NS	4	0.2	NS	NS	NS	NS	1.2	NS	NS	1.5	83	NS
PxD			1362	0.8	NS	4	7	0.3	0.5	0.6	NS	1.4	1.9	1.3	1.6	2.3	131	3286
HxPxD			1927	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table: 1903-03. Planting Date and Hybrid Influence on Corn Leaf Development. Arlington, WI - 2019.

Hybrid	Date of planting	Observation date	Leaf Development: Leaf collars	Leaf Development: Hail adjusters method	Leaf Development: Total leaves	Plant height
		day of year	no./plant	no./plant	no./plant	inches
		156	2.3	3.5	4.2	4.7
		169	4.2	5.9	6.9	11.3
		184	6.5	9.0	10.2	27.3
		197	10.8	12.0	14.8	67.1
		211	16.6	16.0	18.1	94.9
		225	18.9	17.5	18.9	106.1
	April 22		11.3	12.1	13.5	56.8
	May 03		10.9	11.8	13.3	57.7
	May 14		10.4	11.1	12.7	55.3
	May 31		10.4	11.0	12.8	57.9
	June 14		9.5	10.0	12.0	54.9
	April 22	156	2.8	4.0	4.6	4.9
	April 22	169	5.1	6.9	8.0	13.3
	April 22	184	8.3	11.5	12.9	36.5
	April 22	197	13.4	14.9	17.1	84.0
	April 22	211	18.7	17.4	18.9	100.9
	April 22	225	19.3	18.0	19.3	101.3
	May 03	156	2.1	3.6	4.2	5.0
	May 03	169	4.7	6.6	7.5	13.3
	May 03	184	8.1	10.9	12.6	38.4
	May 03	197	12.8	14.1	16.9	82.1
	May 03	211	18.5	17.4	19.3	104.1
	May 03	225	19.4	18.5	19.4	103.6
	May 14	156	2.0	3.0	3.8	4.1
	May 14	169	4.3	6.2	7.1	11.6
	May 14	184	7.3	9.7	11.0	32.3
	May 14	197	11.8	12.8	16.1	78.8
	May 14	211	18.1	16.7	19.1	102.6
	May 14	225	19.0	18.3	19.0	102.4
	May 31	156	-	-	-	-
	May 31	169	2.7	3.9	4.9	7.1
	May 31	184	5.6	7.9	8.8	19.2
	May 31	197	9.3	10.1	13.7	57.1
	May 31	211	15.9	16.1	17.8	95.3
	May 31	225	18.7	17.1	18.7	110.9
	June 14	156	-	-	-	-
	June 14	169	-	-	-	-
	June 14	184	2.9	4.4	5.2	7.6
	June 14	197	6.8	8.0	10.4	33.6
	June 14	211	10.9	12.1	14.7	68.3
	June 14	225	17.9	15.6	17.9	113.1

Continued

Table: 1903-03. Planting Date and Hybrid Influence on Corn Leaf Development.
(continued) **Arlington, WI - 2019.**

			Leaf Development			
Hybrid	Date of planting	Observation date	Leaf collars	Hail adjusters method	Total leaves	Plant height
		day of year	no./plant	no./plant	no./plant	inches
DKC58-06RIB			10.8	11.6	13.3	56.9
P9998AMXT			10.4	11.1	12.6	56.3
DKC58-06RIB		156	2.4	3.5	4.0	4.8
DKC58-06RIB		169	4.3	6.0	6.9	10.6
DKC58-06RIB		184	6.7	9.2	10.5	27.0
DKC58-06RIB		197	10.9	12.05	15.4	68.3
DKC58-06RIB		211	16.8	16.7	18.7	96.6
DKC58-06RIB		225	19.6	18.3	19.6	107.2
P9998AMXT		156	2.3	3.5	4.4	4.6
P9998AMXT		169	4.1	5.8	6.8	12.1
P9998AMXT		184	6.4	8.8	10.0	27.5
P9998AMXT		197	10.7	12.0	14.3	66.0
P9998AMXT		211	16.3	15.5	17.4	93.3
P9998AMXT		225	18.3	16.8	18.3	105.0
DKC58-06RIB	April 22		11.4	12.3	13.7	56.6
DKC58-06RIB	June 14		9.7	10.4	12.5	56.3
DKC58-06RIB	May 03		11.1	12.1	13.7	57.9
DKC58-06RIB	May 14		10.6	11.4	13.0	55.4
DKC58-06RIB	May 31		10.6	11.2	13.1	58.4
P9998AMXT	April 22		11.1	12.0	13.3	57.1
P9998AMXT	May 03		10.8	11.6	12.9	57.5
P9998AMXT	May 14		10.2	10.8	12.3	55.2
P9998AMXT	May 31		10.3	10.9	12.5	57.5
P9998AMXT	June 14		9.4	9.6	11.6	53.7
DKC58-06RIB	April 22	156	2.9	3.9	4.3	5.0
DKC58-06RIB	April 22	169	5.0	6.8	7.8	11.8
DKC58-06RIB	April 22	184	8.1	11.3	12.8	34.3
DKC58-06RIB	April 22	197	13.0	14.6	17.4	82.9
DKC58-06RIB	April 22	211	19.3	18.0	19.6	102.3
DKC58-06RIB	April 22	225	20.3	19.1	20.3	103.4
DKC58-06RIB	May 03	156	2.3	3.6	4.1	5.1
DKC58-06RIB	May 03	169	4.9	6.8	7.6	12.4
DKC58-06RIB	May 03	184	8.0	11.1	12.8	37.6
DKC58-06RIB	May 03	197	12.8	13.8	17.4	81.6
DKC58-06RIB	May 03	211	18.5	17.8	20.0	105.6
DKC58-06RIB	May 03	225	20.4	19.6	20.4	105.4

Continued

Table: 1903-03. Planting Date and Hybrid Influence on Corn Leaf Development.
(continued) **Arlington, WI - 2019.**

			Leaf Development			
Hybrid	Date of planting	Observation date	Leaf collars	Hail adjusters method	Total leaves	Plant height
		day of year	no./plant	no./plant	no./plant	inches
DKC58-06RIB	May 14	156	2.0	3.0	3.5	4.3
DKC58-06RIB	May 14	169	4.5	6.4	7.4	11.3
DKC58-06RIB	May 14	184	7.5	10.0	11.4	31.8
DKC58-06RIB	May 14	197	11.9	12.8	16.5	78.1
DKC58-06RIB	May 14	211	18.1	17.5	19.9	103.3
DKC58-06RIB	May 14	225	19.6	18.9	19.6	104.0
DKC58-06RIB	May 31	156	-	-	-	-
DKC58-06RIB	May 31	169	2.9	4.0	5.0	7.1
DKC58-06RIB	May 31	184	5.9	8.0	9.1	19.4
DKC58-06RIB	May 31	197	9.3	10.1	14.1	57.3
DKC58-06RIB	May 31	211	15.9	16.4	18.1	97.1
DKC58-06RIB	May 31	225	18.9	17.3	18.9	110.9
DKC58-06RIB	June 14	156	-	-	-	-
DKC58-06RIB	June 14	169	-	-	-	-
DKC58-06RIB	June 14	184	2.8	4.3	5.3	7.2
DKC58-06RIB	June 14	197	7.6	9.0	11.5	41.4
DKC58-06RIB	June 14	211	10.8	12.7	15.2	67.7
DKC58-06RIB	June 14	225	18.3	16.2	18.3	114.0
P9998AMXT	April 22	156	2.8	4.1	4.9	4.9
P9998AMXT	April 22	169	5.3	7.0	8.3	14.9
P9998AMXT	April 22	184	8.4	11.8	13.1	38.8
P9998AMXT	April 22	197	13.8	15.3	16.8	85.1
P9998AMXT	April 22	211	18.1	16.9	18.3	99.5
P9998AMXT	April 22	225	18.3	16.9	18.3	99.3
P9998AMXT	May 03	156	2.0	3.5	4.3	4.9
P9998AMXT	May 03	169	4.5	6.4	7.4	14.3
P9998AMXT	May 03	184	8.1	10.8	12.4	39.1
P9998AMXT	May 03	197	12.9	14.5	16.5	82.5
P9998AMXT	May 03	211	18.5	17.0	18.5	102.6
P9998AMXT	May 03	225	18.5	17.4	18.5	101.8
P9998AMXT	May 14	156	2.0	3.0	4.0	3.9
P9998AMXT	May 14	169	4.0	6.0	6.9	12.0
P9998AMXT	May 14	184	7.0	9.4	10.6	32.9
P9998AMXT	May 14	197	11.8	12.9	15.6	79.4
P9998AMXT	May 14	211	18.1	15.9	18.4	102.0
P9998AMXT	May 14	225	18.4	17.8	18.4	100.8
P9998AMXT	May 31	156	-	-	-	-
P9998AMXT	May 31	169	2.5	3.8	4.9	7.1
P9998AMXT	May 31	184	5.3	7.8	8.5	19.0
P9998AMXT	May 31	197	9.3	10.1	13.3	56.9
P9998AMXT	May 31	211	15.9	15.8	17.5	93.4
P9998AMXT	May 31	225	18.5	16.9	18.5	111.0

Continued

Table: 1903-03. Planting Date and Hybrid Influence on Corn Leaf Development.
(continued) **Arlington, WI - 2019.**

Hybrid	Date of planting	Observation date	Leaf Development: Leaf collars	Leaf Development: Hail adjusters method	Leaf Development: Total leaves	Plant height
		day of year	no./plant	no./plant	no./plant	inches
P9998AMXT	June 14	156	-	-	-	-
P9998AMXT	June 14	169	-	-	-	-
P9998AMXT	June 14	184	3.0	4.5	5.1	7.9
P9998AMXT	June 14	197	5.9	7.0	9.3	25.9
P9998AMXT	June 14	211	11.0	11.8	14.4	68.8
P9998AMXT	June 14	225	17.6	15.1	17.6	112.4
Mean			10.6	11.3	12.9	56.6
Probability(%)						
Hybrid(H)			1.6	6.4	1.7	26.9
Date of Planting (D)			0.0	0.0	0.0	0.0
HxD			97.3	47.0	54.1	62.1
Sample DOY (S)			0.0	0.0	0.0	0.0
H x S			0.1	0.0	0.0	45.3
DxS			0.0	0.0	0.0	0.0
HxDxS			0.8	2.76	44.8	54.7
LSD(0.10)						
Hybrid(H)			0.1	0.2	0.2	NS
Date of Planting (D)			0.2	0.2	0.3	1.8
HxD			NS	NS	NS	NS
Sample DOY (S)			0.2	0.3	0.3	1.9
H x S			0.3	0.4	0.4	2.7
DxS			0.5	0.6	0.6	4.3
HxDxS			0.7	0.8	NS	NS