

FIELD EXPERIMENT HISTORY

Title: Date of Planting and Hybrid Influence on Corn Growth and Development
Experiment: 03DOP **Trial ID** 1440 **Year:** 1999
Personnel: H. Darby, J.G. Lauer, P.J. Flannery, K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: Hatch

Site Information

Field: 410 **Previous Crop:** Soybean **Soil Type:** Plano
Soil Test: **Date:** N/A **pH** 6.2 **OM (%)** 3.1 **P (ppm)** 50 **K (ppm)** 190

Plot Management

Tillage Operations: Chisel Soil Finisher Cultivated

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	46-0-0	150	4 /19/99
Starter :	6-24-24	150	Each DOP
Post plant :	N/A	N/A	N/A
Manure:		none	

Herbicide: Frontier 1.5 pt/a, Bladex 90DF 2.2 lb/a, Buctril 1.5 lb/a, Cultivate **Insecticide:** none
Hybrid: Varies

Irrigation: none

Planting Date: Varies **Planting Depth:** **Row Width:** 30"

Target Plant Density: plants per acre **Planting Method:** Kinze Plot Planter

Harvest Date: S:9/6/99, 9/13/99, 10/4/99, G:10/23/99 **Harvest Method:** Hand

Notes: N/A

Experimental Design

Design: RCB split plot **Replications:** 4
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.40 A
Harvest Plot Size: S:2.5' x 16', G:2.5' x 16' **Harvest Plant Density:** S:33895 plants per acre
G:31896

Factors/Treatments:

<u>Planting Date</u>	<u>Hybrid</u>	<u>Sample DOY</u>
4/20/99, 5/1/99, 5/15/99, 5/28/99, 6/12/99, 6/25/99	Golden Harvest H2497 RM110, Renk RK617 RM100	146, 158, 172, 188, 200, 215, 228, 238

Results: Tables E-29.

E-29 The Effects of Planting Date on Growth and Development of Corn.
Arlington, WI - 1999

Date of Planting	Hybrid	Day of year	Leaf Development			Plant height inches
			Leaf collars	Hail adjusters' method	Total leaves	
.	.	146	2.2	4.3	5.2	4
.	.	158	4.3	6.8	7.9	12
.	.	172	6.4	9.1	10.2	23
.	.	188	10.6	13.0	13.8	59
.	.	200	10.1	12.2	13.9	56
.	.	215	14.8	14.8	16.4	86
.	.	228	17.5	17.6	18.0	99
.	.	238	.	.	.	105
.	GH2497	.	8.3	10.4	11.6	58
.	RK617	.	8.6	10.8	11.9	52
.	GH2497	146	2.0	4.1	5.1	4
.	GH2497	158	4.1	6.5	7.8	12
.	GH2497	172	6.2	8.9	10.0	23
.	GH2497	188	10.6	12.9	13.8	63
.	GH2497	200	9.8	12.0	13.8	59
.	GH2497	215	14.5	14.3	16.3	90
.	GH2497	228	17.3	17.3	18.0	103
.	GH2497	238	.	.	.	111
.	RK617	146	2.4	4.4	5.3	4
.	RK617	158	4.4	7.1	8.1	12
.	RK617	172	6.5	9.4	10.5	23
.	RK617	188	10.6	13.0	13.9	55
.	RK617	200	10.4	12.4	14.1	53
.	RK617	215	15.1	15.3	16.5	82
.	RK617	228	17.8	17.9	18.0	95
.	RK617	238	.	.	.	98
109	.	.	8.27	10.82	11.78	51
120	.	.	8.00	10.48	11.34	49
134	.	.	8.02	10.65	11.92	54
147	.	.	7.95	10.03	11.11	54
162	.	.	8.42	10.31	11.55	58
175	.	.	10.06	11.32	12.77	64
109	.	146	2.33	4.25	5.08	4
109	.	158	5.50	8.25	9.43	17
109	.	172	8.6	12.0	13.1	35
109	.	188	15.1	17.1	17.5	87
109	.	200	.	.	.	.
109	.	215	.	.	.	.
109	.	228	.	.	.	.
109	.	238	.	.	.	100
120	.	146	2.0	4.3	5.3	4

continued

E-29 The Effects of Planting Date on Growth and Development of Corn.
Arlington, WI - 1999

Date of Planting	Hybrid	Day of year	Leaf Development			Plant height inches
			Leaf collars	Hail adjusters' method	Total leaves	
120	.	158	5.6	8.6	9.6	17
120	.	172	8.9	11.8	12.9	35
120	.	188	15.2	17.1	17.3	86
120	.	200	.	.	.	.
120	.	215	.	.	.	.
120	.	228	.	.	.	.
120	.	238	.	.	.	99
134	.	146	.	.	.	.
134	.	158	4.1	6.6	7.9	10
134	.	172	6.8	9.9	11.2	26
134	.	188	13.2	15.4	16.6	76
134	.	200	.	.	.	.
134	.	215	.	.	.	.
134	.	228	.	.	.	.
134	.	238	.	.	.	105
147	.	146	2.5	4.5	5.5	4
147	.	158	2.1	4.0	4.9	5
147	.	172	5.4	7.8	8.8	17
147	.	188	10.1	12.9	14.1	57
147	.	200	14.9	16.1	17.3	90
147	.	215	.	.	.	.
147	.	228	.	.	.	.
147	.	238	.	.	.	107
162	.	146	.	.	.	.
162	.	158	.	.	.	.
162	.	172	2.0	4.0	5.0	2
162	.	188	6.2	8.8	10.0	24
162	.	200	9.1	12.0	14.0	51
162	.	215	16.4	16.4	17.2	101
162	.	228	.	.	.	.
162	.	238	.	.	.	110
175	.	146	.	.	.	.
175	.	158	5.0	8.0	9.0	17
175	.	172	.	.	.	.
175	.	188	3.9	6.5	7.5	24
175	.	200	6.3	8.5	10.4	26
175	.	215	13.2	13.1	15.6	71
175	.	228	17.5	17.6	18.0	99
175	.	238	.	.	.	108
109	GH2497	.	7.9	10.4	11.3	51
109	RK617	.	8.6	11.3	12.3	51
120	GH2497	.	7.9	10.5	11.4	50

continued

E-29 The Effects of Planting Date on Growth and Development of Corn.
Arlington, WI - 1999

Date of Planting	Hybrid	Day of year	Leaf Development			Plant height inches
			Leaf collars	Hail adjusters' method	Total leaves	
120	RK617	.	8.1	10.5	11.3	47
134	GH2497	.	7.9	10.5	11.8	57
134	RK617	.	8.2	10.8	12.0	51
147	GH2497	.	7.9	10.0	11.1	58
147	RK617	.	8.0	10.1	11.1	50
162	GH2497	.	8.2	10.0	11.3	61
162	RK617	.	8.6	10.7	11.8	54
175	GH2497	.	10.0	11.1	12.7	71
175	RK617	.	10.1	11.5	12.8	58
109	GH2497	146	2.0	4.0	5.0	4
109	GH2497	158	5.4	8.0	9.4	17
109	GH2497	172	8.6	11.8	12.9	36
109	GH2497	188	15.8	17.8	18.0	91
109	GH2497	200	.	.	.	.
109	GH2497	215	.	.	.	.
109	GH2497	228	.	.	.	.
109	GH2497	238	.	.	.	106
109	RK617	146	3.0	4.8	5.3	4
109	RK617	158	5.6	8.5	9.5	17
109	RK617	172	8.6	12.3	13.4	34
109	RK617	188	14.5	16.5	17.0	83
109	RK617	200	.	.	.	.
109	RK617	215	.	.	.	.
109	RK617	228	.	.	.	.
109	RK617	238	.	.	.	94
120	GH2497	146	2.0	4.3	5.3	4
120	GH2497	158	5.5	8.2	9.3	17
120	GH2497	172	8.8	11.8	13.0	34
120	GH2497	188	14.9	17.1	17.4	86
120	GH2497	200	.	.	.	.
120	GH2497	215	.	.	.	.
120	GH2497	228	.	.	.	.
120	GH2497	238	.	.	.	103
120	RK617	146	2.0	4.3	5.3	4
120	RK617	158	5.8	8.9	9.9	16
120	RK617	172	9.0	11.9	12.9	35
120	RK617	188	15.5	17.0	17.3	85
120	RK617	200	.	.	.	.
120	RK617	215	.	.	.	.
120	RK617	228	.	.	.	.
120	RK617	238	.	.	.	96
134	GH2497	146	.	.	.	.

continued

E-29 The Effects of Planting Date on Growth and Development of Corn.
Arlington, WI - 1999

Date of Planting	Hybrid	Day of year	Leaf Development			Plant height inches
			Leaf collars	Hail adjusters' method	Total leaves	
134	GH2497	158	4.0	6.3	7.8	10
134	GH2497	172	6.6	9.6	10.6	27
134	GH2497	188	13.0	15.5	17.0	78
134	GH2497	200	.	.	.	.
134	GH2497	215	.	.	.	.
134	GH2497	228	.	.	.	.
134	GH2497	238	.	.	.	112
134	RK617	146	.	.	.	.
134	RK617	158	4.1	7.0	8.1	9
134	RK617	172	7.0	10.3	11.8	25
134	RK617	188	13.4	15.3	16.3	74
134	RK617	200	.	.	.	.
134	RK617	215	.	.	.	.
134	RK617	228	.	.	.	.
134	RK617	238	.	.	.	97
147	GH2497	146	.	.	.	.
147	GH2497	158	2.0	4.0	5.0	5
147	GH2497	172	5.1	7.3	8.3	17
147	GH2497	188	10.0	12.8	13.9	60
147	GH2497	200	14.5	16.0	17.3	93
147	GH2497	215	.	.	.	.
147	GH2497	228	.	.	.	.
147	GH2497	238	.	.	.	115
147	RK617	146	2.5	4.5	5.5	4
147	RK617	158	2.1	4.0	4.9	5
147	RK617	172	5.8	8.4	9.4	17
147	RK617	188	10.1	13.1	14.3	54
147	RK617	200	15.4	16.1	17.4	88
147	RK617	215	.	.	.	.
147	RK617	228	.	.	.	.
147	RK617	238	.	.	.	98
162	GH2497	146	.	.	.	.
162	GH2497	158	.	.	.	.
162	GH2497	172	2.0	4.0	5.0	2
162	GH2497	188	6.1	8.4	9.5	25
162	GH2497	200	8.8	11.5	13.5	56
162	GH2497	215	16.0	16.0	17.3	107
162	GH2497	228	.	.	.	.
162	GH2497	238	.	.	.	119
162	RK617	146	.	.	.	.
162	RK617	158	.	.	.	.
162	RK617	172	2.0	4.0	5.0	2
162	RK617	188	6.3	9.3	10.5	23

continued

E-29 The Effects of Planting Date on Growth and Development of Corn.
Arlington, WI - 1999

Date of Planting	Hybrid	Day of year	Leaf Development			Plant height inches
			Leaf collars	Hail adjusters' method	Total leaves	
162	RK617	200	9.5	12.5	14.5	47
162	RK617	215	16.8	16.9	17.1	96
162	RK617	228	.	.	.	.
162	RK617	238	.	.	.	102
175	GH2497	146	.	.	.	.
175	GH2497	158	.	.	.	.
175	GH2497	172	.	.	.	.
175	GH2497	188	3.8	6.0	7.0	36
175	GH2497	200	6.1	8.5	10.5	28
175	GH2497	215	13.0	12.6	15.4	74
175	GH2497	228	17.3	17.3	18.0	103
175	GH2497	238	.	.	.	114
175	RK617	146	.	.	.	.
175	RK617	158	5.0	8.0	9.0	17
175	RK617	172	.	.	.	.
175	RK617	188	4.1	7.0	8.0	11
175	RK617	200	6.4	8.5	10.4	24
175	RK617	215	13.4	13.6	15.9	68
175	RK617	228	17.8	17.9	18.0	95
175	RK617	238	.	.	.	102
Mean			8.5	10.6	11.7	55
Probability (%)						
DOP (D)			0.0	0.0	0.0	0.0
Hybrid (H)			0.1	0.0	2.0	0.0
H x D			66.7	30.2	6.8	62.3
Sample DOY (SD)			0.0	0.0	0.0	0.0
SD X D			0.0	0.0	0.0	0.0
SD X H			31.3	4.9	6.1	0.6
SD X D X H			2.3	0.0	0.0	43.0
LSD (.10)						
DOP (D)			0.2	0.2	0.2	3
Hybrid (H)			0.1	0.1	0.1	1
H x D			NS	NS	0.3	NS
Sample DOY (SD)			0.2	0.2	0.2	2
SD X D			0.4	0.4	0.4	6
SD X H			NS	0.2	0.2	3
SD X D X H			0.5	0.5	0.5	NS
CV (%)						
			5	4	4	12

FIELD EXPERIMENT HISTORY

Title: Date of Planting and Hybrid Influence on Corn Forage and Corn Grain Yield
Experiment: 03DOP **Trial ID** 1422 **Year:** 1999
Personnel: H. Darby, J.G. Lauer, P.J. Flannery, K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: Hatch

Site Information

Field: 410 **Previous Crop:** Soybean **Soil Type:** Plano
Soil Test: **Date:** N/A **pH** 6.2 **OM (%)** 3.9 **P (ppm)** 50 **K (ppm)** 190

Plot Management

Tillage Operations: Chisel Soil Finisher 1 Cultivation

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	46-0-0	325	4 /19/99
Starter :	6-24-24	150	Each DOP
Post plant :	N/A	N/A	N/A
Manure:		none	

Herbicide: Frontier 1.5 pt/a, Bladex 90DF 2.2 lb/a, Buctril 1.5 lb/a, Cultivate **Insecticide:** none
Hybrid: Varies

Irrigation: none

Planting Date: Varies **Planting Depth:** **Row Width:** 30"

Target Plant Density: plants per acre **Planting Method:** Kinze Plot Planter

Harvest Date: S:9/6/99, 9/13/99, 10/4/99, G:10/23/99 **Harvest Method:** Hand

Notes: N/A

Experimental Design

Design: RCB split plot **Replications:** 4
Plot Size Seeded: 10'x25' **Experiment Size:** 0.40 A
Harvest Plot Size: S:2.5' x 16', G: 2.5' x 16' **Harvest Plant Density:** S:33895 plants per acre
G:31896

Factors/Treatments:

<u>Planting Date</u>	<u>Hybrid</u>
4/20/99, 5/1/99, 5/15/99, 5/28/99, 6/12/99, 6/25/99	Golden Harvest H2497 RM110, Renk RK617 RM100

Results: Tables E-30.

Table E-30. Date of Planting and Hybrid Influence on Corn Forage and Corn Grain Yield
Arlington, WI - 1999

Location	Date of planting	Hybrid	Grain					Silage							
			Final population plants/A	Broken stalks %	Yield bu/A	Moisture %	Test weight lbs/bu	Final population plants/A	Iowa State Reproductive stage @ harvest	Kernel milk %	Whole Plant		Stover		Ear:Stover ratio %
											Dry Matter yield tons/A	Moisture %	Dry Matter yield tons/A	Moisture %	
ARL		GH H2497	31977	2.8	152	29.4	50.9	33804	5.0	68	9.8	66.4	5.06	74.5	46.5
ARL		Renk RK617	31818	1.1	138	26.5	48.9	33986	5.0	58	9.2	60.5	4.58	69.6	48.7
ARL	110		32126	2.1	175	17.1	54.9	31445	5.0	55	10.4	61.1	4.56	72.7	56.0
ARL	121		34031	4.7	198	17.7	54.7	34304	5.0	54	10.0	61.2	4.26	72.3	57.4
ARL	135		31581	1.2	185	21.6	52.9	34712	5.0	56	10.7	60.2	4.51	72.1	57.6
ARL	148		30764	2.4	167	24.6	52.5	35937	5.0	18	10.2	57.0	4.70	68.3	53.9
ARL	163		29403	0.0	42	42.9	38.7	31853	5.0	94	7.5	68.9	5.42	71.9	28.5
ARL	176		32981	0.4	68	50.4	40.3	35120	5.0	100	8.1	72.3	5.47	74.8	32.2
ARL	110	GH H2497	33215	3.4	189	19.4	56.3	29948	5.0	63	10.5	65.7	4.67	76.0	55.7
ARL	110	Renk RK617	31037	0.8	160	14.7	53.6	32942	5.0	48	10.2	56.4	4.46	69.4	56.2
ARL	121	GH H2497	33215	5.5	200	19.0	55.0	34576	5.0	58	10.4	62.4	4.36	74.1	58.1
ARL	121	Renk RK617	34848	3.9	197	16.5	54.4	34031	5.0	51	9.7	59.9	4.17	70.4	56.8
ARL	135	GH H2497	30492	0.8	188	24.5	52.9	34031	5.0	66	10.5	65.4	4.59	76.3	56.0
ARL	135	Renk RK617	32670	1.6	181	18.7	52.9	35393	5.0	45	10.9	55.0	4.44	68.0	59.2
ARL	148	GH H2497	30492	4.8	172	27.8	54.6	35665	5.0	24	10.7	61.5	5.06	71.5	52.7
ARL	148	Renk RK617	31037	0.0	162	21.3	50.5	36209	5.0	11	9.8	52.5	4.33	65.0	55.1
ARL	163	GH H2497	30129	0.0	43	44.6	35.9	34576	5.0	99	7.9	71.2	6.40	71.9	19.3
ARL	163	Renk RK617	28677	0.0	42	41.2	41.4	29131	5.0	90	7.1	66.5	4.45	71.9	37.7
ARL	176	GH H2497	34485	1.0	70	50.4	43.5	34031	5.0	100	8.5	72.2	5.29	77.0	37.3
ARL	176	Renk RK617	31853	0.0	66	50.5	38.7	36209	5.0	100	7.8	72.4	5.66	72.7	27.0
Mean			31896	1.9	145	28.0	49.9	33895	5.0	63	9.5	63.4	4.82	72.0	47.6
Probability (%)															
DOP			3.7	17.5	0.0	0.0	0.0	11.0	-	0.0	0.0	0.0	0.1	0.4	0.0
Hybrid			55.2	25.7	17.2	0.0	7.3	82.8	-	0.0	3.6	0.0	0.4	0.0	18.5
DOP x Hybrid			28.9	82.7	77.1	22.9	0.3	9.5	-	9.3	57.1	4.1	0.5	2.2	0.2
LSD (0.10)															
DOP			2099	NS	19	2.5	1.5	NS	-	4	0.9	3.1	0.43	2.2	0.1
Hybrid			NS	NS	NS	1.2	1.0	NS	-	3	0.4	1.3	0.25	1.7	NS
DOP x Hybrid			NS	NS	NS	NS	2.3	3937	-	7	NS	3.8	0.62	3.6	0.1
CV (%)			8	726	14	9	4	8	0	11	8	6	10	5	11

FIELD EXPERIMENT HISTORY

Title: Date of Planting and Hybrid Influence on Corn Forage and Corn Grain Yield
Experiment: 03DOP **Trial ID** 1423 **Year:** 1999
Personnel: H. Darby, J.G. Lauer, P.J. Flannery, K.D. Kohn
Location: Ashland, WI **County:** Bayfield
Supported By: Hatch

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Superior
Soil Test: **Date:** N/A **pH** 6.8 **OM (%)** 3.1 **P (ppm)** 170 **K (ppm)** 103

Plot Management

Tillage Operations: Fall Moldboard Field Cultivator

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	46-0-0	150	N/A
Starter :	N/A	N/A	N/A
Post plant :	N/A	N/A	N/A
Manure:		none	

Herbicide: Lasso 2 qt/a, Bladex 2 qt/a, Cultivate **Insecticide:** none
Irrigation: none **Hybrid:** Varies

Planting Date: Varies **Planting Depth:** **Row Width:** 30"

Target Plant Density: plants per acre **Planting Method:** Hand
Harvest Date: 9/19/99, 9/25/99 **Harvest Method:** Hand
Notes: N/A

Experimental Design

Design: RCB split plot **Replications:** 4
Plot Size Seeded: 10'x25' **Experiment Size:** 0.40 A
Harvest Plot Size: 2.5' x 16' **Harvest Plant Density:** 36255 plants per acre

Factors/Treatments:

<u>Planting Date</u>	<u>Hybrid</u>
4/20/99, 4/30/99, 5/14/99, 5/28/99, 6/9/99, 6/25/99	Golden Harvest H2279 RM90, Pioneer 3936 RM80

Results: Tables E-31.

Table E-31. Date of Planting and Hybrid Influence on Corn Forage Yield
Ashland, WI - 1999

Location	Date of planting	Hybrid	Final population plants/A	Iowa State Reproductive stage @ harvest	Kernel milk %	Whole Plant		Stover		Ear:Stover ratio %
						Dry Matter yield tons/A	Moisture %	Dry Matter yield tons/A	Moisture %	
ASH		GH H2279	36482	4.50	68	7.99	65.3	3.77	73.5	50.3
ASH		Pioneer 3936	36028	4.69	30	7.00	59.3	3.06	68.0	55.1
ASH	110		37026	5.00	34	7.89	56.6	3.28	67.5	58.1
ASH	120		36754	5.00	38	7.94	58.3	3.42	66.9	56.8
ASH	134		36209	5.00	46	8.37	57.9	3.30	70.6	60.5
ASH	148		35801	5.00	49	8.18	56.7	3.32	68.2	59.7
ASH	158		35801	4.63	90	7.29	66.6	3.22	75.5	56.2
ASH	176		35937	2.94		5.30	77.8	3.94	75.8	24.8
ASH	110	GH H2279	36754	5.00	55	8.66	59.2	3.50	72.0	59.5
ASH	110	Pioneer 3936	37298	5.00	13	7.11	54.0	3.06	63.0	56.7
ASH	120	GH H2279	36754	5.00	64	8.35	61.3	3.72	70.6	55.7
ASH	120	Pioneer 3936	36754	5.00	11	7.52	55.2	3.12	63.2	58.0
ASH	134	GH H2279	36209	5.00	73	8.60	62.9	3.56	74.0	58.4
ASH	134	Pioneer 3936	36209	5.00	19	8.13	52.8	3.03	67.1	62.6
ASH	148	GH H2279	36482	5.00	80	8.81	61.1	3.56	73.2	59.6
ASH	148	Pioneer 3936	35120	5.00	19	7.55	52.2	3.07	63.2	59.8
ASH	158	GH H2279	36209	4.25	-	8.18	68.2	3.87	76.3	52.6
ASH	158	Pioneer 3936	35393	5.00	90	6.39	65.0	2.56	74.7	59.9
ASH	176	GH H2279	36482	2.75	-	5.31	78.9	4.39	75.0	16.1
ASH	176	Pioneer 3936	35393	3.13	-	5.29	76.7	3.49	76.7	33.6
ASH			36255	4.59	47	7.49	62.3	3.41	70.8	52.7
Probability (%)										
DOP			31.6	0.0	0.0	0.1	0.0	14.1	0.1	0.0
Hybrid			30.2	0.1	0.0	0.1	0.0	0.0	0.1	3.8
DOP x Hybrid			76.9	0.1	75.0	26.8	28.4	59.5	18.5	15.2
LSD (0.10)										
DOP			NS	0.17	8	1.0	3.8	NS	3.6	0.8
Hybrid			NS	0.08	9	0.4	1.9	0.3	2.5	0.4
DOP x Hybrid			NS	0.22	NS	NS	NS	NS	NS	NS
CV (%)										
			4	4	36	11	6	16	7	14

FIELD EXPERIMENT HISTORY

Title: Date of Planting and Hybrid Influence on Corn Forage and Grain Yield
Experiment: 03DOP **Trial ID** 1424 **Year:** 1999
Personnel: H. Darby, J.G. Lauer, P.J. Flannery, K.D. Kohn
Location: Hancock, WI **County:** Waushara
Supported By: Hatch

Site Information

Field: V18 **Previous Crop:** Peas **Soil Type:** Plainfield
Soil Test: **Date:** N/A **pH** 6.2 **OM (%)** 0.7 **P (ppm)** 105 **K (ppm)** 83

Plot Management

Tillage Operations: Moldboard Plow

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	0-0-60	100	4 /6 /99
Starter :	5-10-30	200	Each DOP
Post plant :	34-0-0	300	Each DOP
Manure:		none	

Herbicide: Aatrex 4L .75 qt/a, Micro-Tech 2.0 qt/a, Lasso 2.0 qt/a **Insecticide:** none
Hybrid: Varies

Irrigation: Yes

Planting Date: Varies **Planting Depth:** **Row Width:** 30"

Target Plant Density: plants per acre **Planting Method:** John Deere 7200

Harvest Date: S:9/10/99, 9/22/99, 9/24/99 **Harvest Method:** Hand

Notes: N/A G:10/22/99

Experimental Design

Design: RCB split plot

Replications: 4

Plot Size Seeded: 25' x 10'

Experiment Size: 0.40 A

Harvest Plot Size: S:2.5' x 16', G:2.5' x 16'

Harvest Plant Density: S:34258 plants per acre
G:32942

Factors/Treatments:

Planting Date

4/26/99, 5/3/99, 5/14/99,
6/1/99, 6/14/99, 6/28/99

Hybrid

Dairyland H1203 RM105, NK
N3030 RM95

Results: Tables E-32.

Table E-32. Date of Planting and Hybrid Influence on Corn Forage and Corn Grain Yield
Hancock, WI - 1999

Location	Date of planting	Hybrid	Grain					Silage					Ear:Stover ratio		
			Final population plants/A	Broken stalks %	Yield bu/A	Moisture %	Test weight lbs/bu	Final population plants/A	Iowa State Reproductive stage @ harvest	Kernel milk %	Whole Plant			Stover	
											Dry Matter yield tons/A	Moisture %		Dry Matter yield tons/A	Moisture %
HAN		DL H1203	33441	2.2	123	32.5	47.0	34349	4.5	38	7.94	59.6	3.41	68.1	53.7
HAN		NK N3030	32343	2.3	104	31.5	49.7	34167	4.5	35	7.06	60.8	2.95	69.2	54.0
HAN	116		34440	0.4	159	16.1	51.5	35393	5.0	14	9.38	51.5	3.28	64.8	65.0
HAN	123		32670	4.2	150	16.5	51.7	33351	5.0	16	8.72	54.5	3.29	65.9	62.2
HAN	134		32806	2.1	146	17.2	51.5	34167	5.0	28	9.18	53.9	3.38	67.4	63.1
HAN	152		33351	4.7	140	22.5	47.2	34576	5.0	33	7.73	57.5	3.14	66.8	59.4
HAN	165		31581	1.3	78	37.2	40.8	33487	4.9	99	6.00	66.6	2.95	72.7	50.7
HAN	179		32670	1.7	33	74.9	-	34576	2.2	-	3.96	77.4	3.06	74.2	22.7
HAN	116	DL H1203	34031	0.0	161	17.8	48.7	34848	5.0	15	9.89	51.0	3.59	64.0	63.6
HAN	116	NK N3030	34848	0.7	156	14.4	54.2	35937	5.0	14	8.87	52.0	2.98	65.5	66.4
HAN	123	DL H1203	32670	4.2	150	16.5	51.7	33487	5.0	18	9.33	52.9	3.53	64.5	62.2
HAN	123	NK N3030	-	-	-	-	-	33215	5.0	15	8.11	56.1	3.05	67.3	62.2
HAN	134	DL H1203	33759	2.6	160	19.5	48.9	35393	5.0	25	9.78	52.8	3.65	66.8	62.6
HAN	134	NK N3030	31853	1.6	132	14.9	54.1	32942	5.0	30	8.58	55.0	3.11	68.0	63.6
HAN	152	DL H1203	32670	3.9	149	25.7	45.8	34848	5.0	30	7.86	57.9	3.26	67.0	58.4
HAN	152	NK N3030	34031	5.6	131	19.2	48.7	34304	5.0	36	7.60	57.1	3.02	66.6	60.3
HAN	165	DL H1203	32942	1.0	85	39.2	39.7	33487	5.0	100	6.41	66.1	3.21	71.1	49.8
HAN	165	NK N3030	30220	1.7	70	35.3	42.0	33487	4.9	97	5.59	67.2	2.70	74.4	51.6
HAN	179	DL H1203	34576	1.7	34	76.1	-	34031	2.3	-	4.35	77.1	3.25	75.2	25.6
HAN	179	NK N3030	30764	1.7	31	73.8	-	35120	2.1	-	3.57	77.7	2.86	73.2	19.8
Mean			32942	2.2	115	32.0	48.2	34258	4.5	36	7.50	60.2	3.18	68.6	53.8
Probability (%)															
DOP			48.3	3.5	0.0	0.0	0.0	44.6	0.0	0.0	0.0	0.0	5.8	0.0	0.0
Hybrid			15.2	69.0	1.2	0.0	0.3	80.4	36.7	81.3	0.0	11.9	0.0	25.7	79.7
DOP x Hybrid			26.0	94.6	48.5	50.2	63.0	73.6	88.0	85.0	66.5	72.2	88.0	56.4	25.1
LSD (0.10)															
DOP			NS	2.4	11	2.5	2.3	NS	0.1	9	0.60	1.7	0.24	2.0	0.2
Hybrid			NS	NS	8	1.3	1.8	NS	NS	NS	0.39	NS	0.15	NS	NS
DOP x Hybrid			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			8	147	13	8	6	7	3	29	8	4	10	5	7

FIELD EXPERIMENT HISTORY

Title: Date of Planting and Hybrid Influence on Corn Forage Yield
Experiment: 03DOP **Trial ID** 1427 **Year:** 1999
Personnel: H. Darby, J.G. Lauer, P.J. Flannery, K.D. Kohn
Location: Lancaster, WI **County:** Grant
Supported By: Hatch

Site Information

Field: 300A **Previous Crop:** Corn **Soil Type:** Fayette
Soil Test: **Date:** N/A **pH** 7 **OM (%)** 2.7 **P (ppm)** 85 **K (ppm)** 238

Plot Management

Tillage Operations: Chisel Soil Finisher 1 Cultivation

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	46-0-0	200	4 /15/99
Starter :	9-23-30	145	Each DOP
Post plant :	N/A	N/A	N/A
Manure:		none	

Herbicide: Bladex 2 qt/a, Dual II 1 qt/a **Insecticide:** Lorsban 8.7 lb/a, Force 4.4 lb/a
Irrigation: none **Hybrid:** Varies

Planting Date: Varies **Planting Depth:** **Row Width:** 30"
Target Plant Density: plants per acre **Planting Method:** White 4row/30" no-till
Harvest Date: S:9/5/99, 9/13/99, 10/13/99 **Harvest Method:** Hand
Notes: N/A

Experimental Design

Design: RCB split plot **Replications:** 4
Plot Size Seeded: 10'x25' **Experiment Size:** 0.40 A
Harvest Plot Size: 2.5' x 16' **Harvest Plant Density:** 32307 plants per acre

Factors/Treatments:

<u>Planting Date</u>	<u>Hybrid</u>
4/20/99, 4/30/99, 5/14/99, 5/28/99, 6/14/99, 6/25/99	Golden Harvest H2497 RM110, Renk RK617 RM100

Results: Tables E-33.

Table E-33. Date of Planting and Hybrid Influence on Corn Forage Yield
Lancaster, WI - 1999

Location	Date of planting	Hybrid	Final population plants/A	Iowa State Reproductive stage @ harvest	Kernel milk %	Whole Plant		Stover		Ear:Stover ratio %
						Dry Matter yield tons/A	Moisture %	Dry Matter yield tons/A	Moisture %	
LAN		GH H2497	32126	5.0	66	8.45	61.9	4.20	71.2	49.7
LAN		Renk RK617	32489	5.0	44	7.19	53.8	3.64	59.6	49.4
LAN	110		32262	5.0	50	7.43	60.5	3.14	71.8	58.1
LAN	120		32126	5.0	43	7.31	58.8	3.28	67.0	55.0
LAN	134		29675	5.0	23	8.40	45.7	3.45	54.6	58.9
LAN	148		31173	5.0	27	8.35	44.4	3.44	55.3	58.7
LAN	165		34167	5.0	91	7.47	67.4	4.89	70.5	33.7
LAN	176		34440	5.0	98	7.96	70.2	5.33	73.3	32.9
LAN	110	GH H2497	32670	5.0	54	7.47	64.7	3.12	75.3	58.1
LAN	110	Renk RK617	31853	5.0	46	7.39	56.4	3.16	68.3	58.1
LAN	120	GH H2497	32942	5.0	56	8.42	62.2	3.76	72.7	55.2
LAN	120	Renk RK617	31309	5.0	29	6.20	55.4	2.80	61.3	54.9
LAN	134	GH H2497	29131	5.0	44	10.0	53.9	4.26	67.3	57.2
LAN	134	Renk RK617	30220	5.0	1	6.75	37.5	2.65	41.9	60.6
LAN	148	GH H2497	30220	5.0	51	8.89	51.0	3.89	64.2	56.4
LAN	148	Renk RK617	32126	5.0	3	7.82	37.8	2.98	46.3	61.0
LAN	165	GH H2497	34031	5.0	91	7.99	68.1	4.97	72.3	37.7
LAN	165	Renk RK617	34304	5.0	90	6.94	66.7	4.80	68.7	29.7
LAN	176	GH H2497	33759	5.0	99	7.88	71.3	5.22	75.3	33.8
LAN	176	Renk RK617	35120	5.0	96	8.03	69.1	5.45	71.2	32.1
Mean			32307	5.0	55	7.82	57.8	3.92	65.4	49.6
Probability (%)										
DOP			1.7	-	0.0	11.4	0.3	0.0	3.2	0.0
Hybrid			79.2	-	0.0	0.0	0.0	0.0	0.0	68.8
DOP x Hybrid			53.7	-	0.1	0.9	0.1	0.0	8.8	11.9
LSD (0.10)										
DOP			NS	-	15	NS	9.5	0.47	9.4	0.8
Hybrid			NS	-	6	0.47	2.1	0.19	4.2	NS
DOP x Hybrid			NS	-	19	1.09	10.2	0.57	11.9	NS
CV (%)			7	0	21	10	7	9	13	11

FIELD EXPERIMENT HISTORY

Title: Date of Planting and Hybrid Influence on Corn Forage and Corn Grain Yield
Experiment: 03DOP **Trial ID** 1426 **Year:** 1999
Personnel: H. Darby, J.G. Lauer, P.J. Flannery, K.D. Kohn
Location: Marshfield, WI **County:** Wood
Supported By: Hatch

Site Information

Field: 14 **Previous Crop:** Corn **Soil Type:** Withee
Soil Test: **Date:** N/A **pH** 6.7 **OM (%)** 3.5 **P (ppm)** 73 **K (ppm)** 198

Plot Management

Tillage Operations: Fall Moldboard Disk 1 Cultivation

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	N/A	N/A	N/A
Starter :	19-19-19	200	Each DOP
Post plant :	N/A	N/A	N/A
Manure:		30	Fall applied

Herbicide: Harness 2 pt/a, Hornet 4oz/a **Insecticide:** none
Irrigation: none **Hybrid:** Varies

Planting Date: Varies **Planting Depth:** **Row Width:** 30'

Target Plant Density: plants per acre **Planting Method:** John Deere 7000
Harvest Date: S:9/22/99, 9/27/99 G:10/18/99 **Harvest Method:** Hand
Notes: N/A

Experimental Design

Design: RCB split plot **Replications:** 4
Plot Size Seeded: 25' x 10' **Experiment Size:** 0.40 A
Harvest Plot Size: S:2.5' x 16' G:2.5' x 16' **Harvest Plant Density:** S:30995, plants per acre
G:30066

Factors/Treatments:

<u>Planting Date</u>	<u>Hybrid</u>
4/27/99, 5/3/99, 5/15/99, 6/1/99, 6/11/99, 6/25/99	Dairyland H1203 RM105, NK N3030 RM95

Results: Tables E-34.

Table E-34. Date of Planting and Hybrid Influence on Corn Forage and Corn Grain Yield
Marshfield, WI - 1999

Location	Date of planting	Hybrid	Grain					Silage								
			Final population plants/A	Broken stalks %	Yield bu/A	Moisture %	Test weight lbs/bu	Final population plants/A	Iowa State Reproductive stage @ harvest	Kernel milk %	Whole Plant		Stover		Ear:Stover ratio %	
											Dry Matter yield tons/A	Moisture %	Dry Matter yield tons/A	Moisture %		
MAR		DL H1203	31770	2.7	145	41.9	45.5	31354	4.4	60.3	8.62	66.8	4.34	73.4	46.6	
MAR		NK N3030	28361	2.6	123	39.0	47.3	30539	4.5	48.7	8.42	64.8	3.83	73.5	50.9	
MAR	117		30356	1.6	185	25.1	50.0	32942	5.0	36.9	10.8	55.4	4.17	68.9	61.0	
MAR	123		31853	2.3	182	28.0	46.9	29539	5.0	54.4	10.2	60.8	4.37	71.6	57.2	
MAR	135		28781	2.4	157	27.9	49.2	31425	5.0	45.0	9.10	60.5	3.76	71.8	58.6	
MAR	152		31445	0.9	140	37.4	42.9	31989	4.9	84.3	8.85	67.8	4.23	75.7	51.7	
MAR	162		27633	3.9	93	49.8	40.7	30084	4.2	-	7.47	71.4	4.15	76.0	44.3	
MAR	176		30181	5.2	31	78.6	-	29811	2.6	-	4.76	78.2	3.81	76.5	20.6	
MAR	117	DL H1203	32398	3.2	206	28.1	48.9	34576	5.0	46.3	11.0	58.2	4.65	69.1	57.4	
MAR	117	NK N3030	28314	0.0	163	22.2	51.1	31309	5.0	27.5	10.6	52.6	3.70	68.7	64.6	
MAR	123	DL H1203	31853	3.7	186	29.0	46.2	30220	5.0	52.5	9.70	60.4	4.20	70.3	56.6	
MAR	123	NK N3030	31853	0.8	178	27.0	47.7	28859	5.0	56.3	10.7	61.2	4.53	73.0	57.9	
MAR	135	DL H1203	30764	0.0	165	30.1	48.1	32398	5.0	53.8	9.30	61.1	4.05	71.6	56.2	
MAR	135	NK N3030	26136	5.6	147	25.0	50.7	30129	5.0	33.3	8.84	59.6	3.37	72.1	61.8	
MAR	152	DL H1203	32670	0.9	140	43.4	38.7	31309	4.9	98.3	8.89	69.7	4.56	75.5	47.8	
MAR	152	NK N3030	30220	1.0	139	31.5	47.1	32670	5.0	73.8	8.81	65.9	3.90	75.8	55.6	
MAR	162	DL H1203	29675	0.0	97	55.5	47.3	30492	3.9	-	7.65	72.0	4.12	77.6	46.2	
MAR	162	NK N3030	25592	7.9	89	45.5	38.5	29675	4.5	-	7.29	70.7	4.17	74.5	42.3	
MAR	176	DL H1203	33759	10.5	37	77.8	-	29131	2.5	-	5.20	79.0	4.42	76.3	15.3	
MAR	176	NK N3030	27497	1.2	27	79.2	-	30492	2.8	-	4.33	77.4	3.21	76.6	25.9	
Mean			30066	2.7	134	40.4	46.4	30955	4.4	54.5	8.52	65.8	4.09	73.4	48.7	
Probability (%)																
		DOP	2.9	44.5	0.0	0.0	0.0	6.4	0.0	0.1	0.0	0.0	46.8	0.0	0.0	
		Hybrid	1.3	74.9	10.2	3.0	1.3	38.3	2.0	2.8	62.5	8.5	2.2	81.5	0.2	
		DOP x Hybrid	84.0	4.4	57.0	49.2	21.8	61.3	7.4	30.7	81.7	24.6	18.0	32.3	1.5	
LSD (0.10)																
		DOP	2106	NS	17	3.2	2.1	2052	0.0	13.1	0.97	4.6	NS	2.1	0.7	
		Hybrid	1915	NS	NS	3.5	1.8	NS	0.1	7.3	NS	1.5	0.32	NS	0.2	
		DOP x Hybrid	NS	6.3	NS	NS	NS	NS	0.3	NS	NS	NS	NS	NS	0.7	
CV (%)																
			13	188	18	17	7	10	5	26	17	5	16	3	8	

FIELD EXPERIMENT HISTORY

Title: Date of Planting and Hybrid Influence on Corn Forage and Corn Grain Yield
Experiment: 03DOP **Trial ID** 1428 **Year:** 1999
Personnel: H. Darby, J.G. Lauer, P.J. Flannery, K.D. Kohn
Location: Spooner, WI **County:** Washburn
Supported By: Hatch

Site Information

Field: 7 **Previous Crop:** Alfalfa **Soil Type:** Cress
Soil Test: **Date:** N/A **pH** 6.9 **OM (%)** 1.6 **P (ppm)** 55 **K (ppm)** 118

Plot Management

Tillage Operations: Moldboard Plow Disk 1 Cultivation

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	46-0-0	300	4 /19/99
Starter :	5-10-30	300	Each Dop
Post plant :	N/A	N/A	N/A
Manure:		none	

Herbicide: Buctril 1.5 pt/a, Atrex 0.5 lb/a **Insecticide:** none
Irrigation: 1.4" in two applications **Hybrid:** Varies

Planting Date: Varies **Planting Depth:** **Row Width:** 30"
Target Plant Density: plants per acre **Planting Method:** Almaco Plot Planter
Harvest Date: S:9/11/99, 9/26/99 G:10/13/99 **Harvest Method:** Hand
Notes: N/A

Experimental Design

Design: RCB split plot **Replications:** 4
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.40 A
Harvest Plot Size: S:2.5' x 16' G: 2.5' x 16' **Harvest Plant Density:** S:34462, plants per acre
G:27049

Factors/Treatments:

<u>Planting Date</u>	<u>Hybrid</u>
4/20/99, 5/3/99, 5/18/99, 6/1/99, 6/14/99, 6/25/99	Golden Harvest H2279 RM90, Pioneer 3936 RM80

Results: Tables E-35.

Table E-35. Date of Planting and Hybrid Influence on Corn Forage and Corn Grain Yield
 Spooner, WI - 1999

Location	Date of planting	Hybrid	Grain		Final population plants/A	Iowa State Reproductive stage @ harvest	Kernel milk %	Silage				Ear:Stover ratio %
			Final population plants/A	Yield bu/A				Whole Plant		Stover		
								Dry Matter yield tons/A	Moisture %	Dry Matter yield tons/A	Moisture %	
SPO		GH H2279	26667	108	35120	4.5	56	8.14	67.1	3.77	75.8	51.0
SPO		Pioneer 3936	27447	114	33804	4.7	50	7.85	64.0	3.25	75.5	57.4
SPO	110		23539	149	32806	5.0	14	8.77	58.5	3.30	72.0	62.3
SPO	123		25466	163	31309	5.0	34	9.48	60.5	3.73	73.6	60.0
SPO	138		29403	134	34712	5.0	68	8.30	64.9	3.52	76.1	57.2
SPO	152		24987	103	38660	5.0	70	8.41	61.9	3.02	75.7	63.8
SPO	165		28314	75	35937	4.6	100	7.52	71.4	3.69	79.0	51.1
SPO	176		30324	40	33351	3.0	-	5.47	76.1	3.78	77.5	30.7
SPO	110	GH H2279	21780	145	33487	5.0	19	8.56	62.1	3.47	73.1	59.5
SPO	100	Pioneer 3936	25298	154	32126	5.0	9	8.98	55.0	3.13	71.0	65.1
SPO	123	GH H2279	25801	177	32126	5.0	41	10.1	58.5	3.50	74.6	64.9
SPO	123	Pioneer 3936	25131	149	30492	5.0	26	8.85	62.5	3.97	72.6	55.0
SPO	138	GH H2279	26471	125	36754	5.0	75	8.48	67.5	3.75	76.6	55.2
SPO	138	Pioneer 3936	32335	143	32670	5.0	61	8.11	62.3	3.28	75.6	59.1
SPO	152	GH H2279	26304	109	37843	5.0	88	8.69	64.7	3.43	76.6	60.4
SPO	152	Pioneer 3936	23232	95	39476	5.0	53	8.13	59.0	2.62	74.9	67.2
SPO	165	GH H2279	28482	67	36209	4.3	-	7.57	72.5	4.15	77.9	45.3
SPO	165	Pioneer 3936	28146	83	35665	5.0	100	7.48	70.4	3.23	80.0	56.8
SPO	176	GH H2279	31162	27	34304	2.9	-	5.42	77.5	4.31	76.2	20.5
SPO	176	Pioneer 3936	29487	53	32398	3.1	-	5.52	74.6	3.25	78.8	40.9
Mean			27049	111	34462	4.6	52	7.99	65.5	3.51	75.7	54.2
Probability (%)												
DOP			3.8	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hybrid			50.6	51.6	20.8	0.0	1.3	37.9	0.0	0.1	67.9	0.3
DOP x Hybrid			10.9	3.9	72.0	0.0	52.2	73.1	0.2	6.0	9.8	0.6
LSD (0.10)												
DOP			3750	19	2695	0.1	10	0.75	2.2	0.26	1.6	0.4
Hybrid			NS	NS	NS	0.1	9	NS	1.2	0.24	NS	0.3
DOP x Hybrid			NS	24	NS	0.2	NS	NS	3.0	0.49	NS	0.7
CV (%)												
			12	16	10	3	34	14	4	14	3	12

FIELD EXPERIMENT HISTORY

Title: Harvest Date and Hybrid Influence on Corn Forage Yield
Experiment: 03DOP **Trial ID** 1441 **Year:** 1999
Personnel: H.Darby, J.G. Lauer, P.J. Flannery, K.D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: Hatch

Site Information

Field: 410 **Previous Crop:** Soybean **Soil Type:** Plano
Soil Test: **Date:** N/A **pH** 6.2 **OM (%)** 3.1 **P (ppm)** 50 **K (ppm)** 190

Plot Management

Tillage Operations: Chisel Soil Finisher 1 Cultivation

	<u>Analysis:</u>	<u>Rate lbs/A:</u>	<u>Date:</u>
Fertilizer:			
Preplant :	46-0-0	325	4 /19/99
Starter :	6-24-24	150	4 /27/99
Post plant :	N/A	N/A	N/A
Manure:		none	

Herbicide: Frontier 1.5 pt/a, Bladex 90DF 2.2 lb/a, Buctril 1.5 lb/a, Cultivate **Insecticide:** none
Hybrid: Varies

Irrigation: None

Planting Date: 4/27/99 **Planting Depth:** **Row Width:** 30"

Target Plant Density: plants per acre **Planting Method:** Kinze Plot Planter

Harvest Date: Varies **Harvest Method:** Hand

Notes: N/A

Experimental Design

Design: RCB split plot **Replications:** 4
Plot Size Seeded: 40' x 25' **Experiment Size:** 0.65 A
Harvest Plot Size: 2.5' x 16' **Harvest Plant Density:** 34448 plants per acre

Factors/Treatments:

<u>Hybrid</u>	<u>Harvest Date</u>
Golden Harvest H2497	7/12/99, 7/19/99, 7/28/99, 8/6/99,
RM110, Dekalb DK591	8/15/99, 8/25/99, 9/3/99, 9/13/99
RM 110, Golden	
Harvest H2387 RM100,	
Pioneer 36H36 RM100	

Results: Tables E-42.

Table E-42. Harvest Date and Hybrid Influence on Corn Forage Yield
Arlington, WI - 1999.

Hybrid	Harvest date	Final population plants/A	Iowa State	Iowa State	Kernel milk %	Whole Plant		Stover		Ear:Stover ratio %
			Reproductive stage @ harvest	Vegetative stage @ harvest		Dry Matter yield tons/A	Moisture %	Dry Matter yield tons/A	Moisture %	
.	193	35188	.	16.5	.	3.6	86.2	.	.	.
.	200	33555	1.0	18.0	.	4.1	85.8	.	.	.
.	209	34304	2.3	.	.	5.9	82.8	5.00	82.7	14.4
.	219	36141	3.3	.	.	7.7	79.2	5.60	80.9	27.4
.	228	33419	4.5	.	.	8.8	75.1	5.22	80.0	40.8
.	238	34099	4.9	.	83	9.6	73.3	4.92	80.7	49.1
.	247	34031	5.0	.	59	11.4	63.8	4.86	76.1	57.4
.	257	34848	5.0	.	23	11.2	58.2	4.65	69.4	58.6
DK591	.	35018	4.0	16.5	59	8.2	76.6	5.74	78.4	35.8
GH H2387	.	34440	3.8	18.0	46	7.8	74.1	4.70	77.2	45.2
GH H2497	.	34338	3.9	16.3	61	7.7	77.1	5.06	79.7	39.4
Pioneer 36H36	.	33997	3.9	18.0	45	7.6	74.5	4.66	77.9	44.6
DK591	193	37026	.	15.0	.	3.7	86.6	.	.	.
DK591	200	34848	.	18.0	.	4.2	86.2	.	.	.
DK591	209	33487	2.0	.	.	5.7	83.7	5.35	82.4	5.5
DK591	219	36754	3.0	.	.	8.3	80.1	6.42	81.0	22.3
DK591	228	35393	4.3	.	.	9.0	76.4	6.01	79.2	33.5
DK591	238	33487	4.6	.	100	10.0	75.2	5.52	81.1	44.5
DK591	247	33487	5.0	.	70	12.1	64.7	5.68	75.6	53.0
DK591	257	35665	5.0	.	39	12.6	59.8	5.50	70.9	56.0
GH H2387	193	33215	.	18.0	.	3.4	86.6	.	.	.
GH H2387	200	31309	1.0	.	.	3.9	85.4	.	.	.
GH H2387	209	34848	2.3	.	.	5.9	82.5	4.75	82.8	19.3
GH H2387	219	38660	3.6	.	.	7.9	78.9	5.43	81.0	30.8
GH H2387	228	32670	4.8	.	.	8.8	74.4	4.80	80.3	45.5
GH H2387	238	33487	5.0	.	79	9.4	72.2	4.38	81.0	53.3
GH H2387	247	34848	5.0	.	55	11.8	60.9	4.62	75.6	60.5
GH H2387	257	36482	5.0	.	4	11.0	51.8	4.23	62.8	62.0
GH H2497	193	35665	.	15.0	.	3.6	86.7	.	.	.
GH H2497	200	35120	1.0	18.0	.	4.1	86.6	.	.	.
GH H2497	209	34848	2.1	.	.	5.7	83.8	4.89	83.7	14.0
GH H2497	219	35937	2.9	.	.	7.1	80.6	5.44	81.4	23.3
GH H2497	228	32670	4.1	.	.	8.4	76.5	5.25	80.4	37.5
GH H2497	238	34304	4.9	.	92	9.5	74.6	5.14	81.2	46.3
GH H2497	247	34304	5.0	.	61	11.6	65.4	4.88	77.6	58.0
GH H2497	257	31853	5.0	.	38	11.2	62.4	4.76	74.0	57.5
Pioneer 36H36	193	34848	.	18.0	.	3.6	84.9	.	.	.
Pioneer 36H36	200	32942	1.0	.	.	4.2	84.9	.	.	.
Pioneer 36H36	209	34031	2.8	.	.	6.2	81.4	5.02	81.6	18.8
Pioneer 36H36	219	33215	3.9	.	.	7.6	77.2	5.10	80.1	33.3
Pioneer 36H36	228	32942	5.0	.	.	9.1	73.4	4.84	80.2	46.5
Pioneer 36H36	238	35120	5.0	.	75	9.7	71.2	4.63	79.7	52.3
Pioneer 36H36	247	33487	5.0	.	50	10.1	64.3	4.26	75.8	58.0
Pioneer 36H36	257	35393	5.0	.	10	10.0	58.7	4.13	69.9	59.0
Mean		34448	3.9	17.0	52	7.8	75.6	5.04	78.3	41.3
Probability (%)										
Hybrid		30.4	0.0	0.0	0	4.9	0.0	0.1	3.5	0.0
Harvest Date		13.5	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
Hybrid x Harvest Date		27.1	0.0	0.0	4	0.2	0.0	50.4	0.2	74.8
LSD (0.10)										
Hybrid		NS	0.1	0.0	4	0.4	0.9	0.29	1.1	0.0
Harvest Date		NS	0.1	0.0	3	0.4	1.0	0.25	1.3	0.0
Hybrid x Harvest Date		NS	0.2	0.0	7	0.8	2.2	NS	2.7	NS
CV (%)										
		8	4	0	11	8	2	8	3	13