

FIELD EXPERIMENT HISTORY

Title: Corn Hybrid Growth and Development
Experiment: 01GD **Trial ID:** 3500 **Year:** 2012
Personnel: J.G. Lauer, K.D. Kohn, and T. Diallo
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: ARS407 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam
Soil Test: **Date:** 10/01/12 **pH:** 6.7 **OM (%)** 3.4 **P (ppm)** 38 **K (ppm)** 131

Plot Management

Tillage Operations: Disk Chisel Field Cultivator Cultivated 6/11/12
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 150 lbs/A **Date:** N/A
Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /10/12
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: N/A
Herbicide: Hornet 4 oz/A **Insecticide:** Force 4.4 lbs/A
 Dual II Magnum 24 oz/A **Hybrid:** See Factors
 Accent Q 0.9 oz/A
 Callisto 3 oz/A
Irrigation: None
Planting Date: 5/10/12 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/1/12 **Harvest Method:** Massey 8XP
Notes:

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.28 Acre
Harvest Plot Size: 5' x 22' **Harvest Plant Density:** 33300 plants per acre
Factors/Treatments:

Hybrids:

Channel 199-55VT3	FS Seed 60TV4	Pioneer 33F88
Croplan 2520VT3	G2 Genetics 5H-797RRHX	Pioneer 36V53
Croplan 3514VT3	Great Lakes 4041G3VT3	Renk RK434VT3P
Croplan 6125VT3	Lemke 2027-3000GT	Renk RK694GTCBLLRWBL
Dekalb DKC29-79	Munson 4215GTCBLL	Trelay 6ST576RIB
Dekalb DKC69-40VT3		

Results: Table C-01 and C-02.

**Table C-01. Determining Corn Hybrid Maturity - Comparison of Hybrids.
Arlington, WI - 2012.**

Hybrid	Relative Grain	Grain	Grain	Test	Lodged			Return	Silking	Early	Kernel Milk			Black	Plant	Grain Composition			Ethanol	
	maturity	yield	moisture	wt	Total	Stalk	Root	\$6.65	date	dent	75%	50%	25%	layer	height	Oil	Starch	Protein	per bu	per A
	bu/A	%	lb/bu	%	%	%	%	\$/A	-----doy-----				inches	%	%	%	- gallons -			
Dekalb DKC29-79	79	110	12.1	61	1	0	0	706	209	191	216	226	236	241	83	5.8	45.3	6.1	2.86	315
Munson 4215GTCBLL	82	169	12.3	61	1	1	0	1083	209	193	217	227	236	241	88	3.4	66.5	7.8	2.88	485
Croplan 2520VT3	85	182	12.6	59	0	0	0	1170	208	193	220	235	242	247	80	4.7	44.1	7.4	2.85	519
Lemke 2027-3000GT	85	178	12.8	59	4	2	2	1145	204	193	220	230	237	243	94	3.1	65.4	9.0	2.82	501
Great Lakes 4041G3VT3	89	195	14.0	61	1	1	0	1251	213	194	222	235	243	250	92	4.6	44.5	6.7	2.87	559
Renk RK434VT3P	90	174	12.1	59	4	4	0	1118	209	197	230	242	246	250	94	3.4	65.4	7.9	2.88	501
Croplan 3514VT3	95	204	16.0	60	1	1	0	1309	211	196	222	238	245	251	90	4.6	45.8	6.0	2.87	587
G2 Genetics 5H-797RRHX	97	176	13.7	58	0	0	0	1133	209	194	223	236	241	247	92	3.5	65.8	7.9	2.86	504
Channel 199-55VT3	99	199	14.8	58	4	4	0	1275	205	199	233	243	246	251	91	3.3	65.5	8.4	2.86	569
Pioneer 36V53	102	207	15.4	56	3	2	1	1328	210	196	230	242	247	253	87	3.5	65.3	7.9	2.89	599
Renk RK694GTCBLLRWBL	104	192	16.5	57	9	9	0	1230	205	197	233	243	247	254	96	4.9	45.4	6.0	2.89	556
Trelay 6ST576RIB	104	205	16.5	58	9	9	0	1314	209	200	234	242	247	252	92	3.1	65.7	8.8	2.81	578
FS Seed 60TV4	110	227	20.5	56	5	5	0	1436	209	199	232	243	248	257	98	4.7	45.2	6.2	2.89	657
Croplan 6125VT3	111	208	19.8	55	19	18	1	1314	211	198	236	243	249	254	91	4.7	45.0	6.9	2.87	597
Pioneer 33F88	114	203	21.2	56	31	30	0	1279	206	202	235	245	249	255	99	3.4	66.1	7.6	2.90	588
Dekalb DKC69-40VT3	119	203	25.4	53	18	18	0	1262	210	201	229	242	249	259	84	4.8	45.3	6.2	2.89	586
Mean		190	16.0	58	7	7	0	1210	208	196	227	238	244	250	91	4.1	55.4	7.3	2.87	544
Probability(%)																				
Hybrid (H)		0.0	0.0	0.0	0.1	0.1	58.8	0.0	65.9	0.0	0.0	0.0	0.0	0.0	14.1	40.3	51.5	23.8	32.7	0.0
LSD(0.10)																				
Hybrid (H)		16	1.0	1	10	10	NS	99	NS	2	6	3	2	3	NS	NS	NS	NS	NS	47

**Table C-02. Determining Corn Hybrid Maturity - Comparison of Hybrids.
Arlington, WI - 2012.**

Hybrid	Relative maturity	Day of year	Leaf Development			Plant height inches
			Leaf collars no./plant	Hail adjusters method no./plant	Total leaves no./plant	
		151	5.2	5.1	5.2	5.1
		167	12.7	12.8	8.7	8.7
		181	10.2	11.6	13.1	44.1
		195	14.7	14.3	16.4	76.1
		209	17.9	18.0	18.0	80.2
Dekalb DKC29-79	79		11.9	12.3	11.7	40.9
Munson 4215GTCBLL	82		12.0	12.0	12.3	40.2
Croplan 2520VT3	85		12.6	12.9	12.7	43.7
Lemke 2027-3000GT	85		12.1	12.6	12.4	43.5
Great Lakes 4041G3VT3	89		12.3	12.5	12.4	44.3
Renk RK434VT3P	90		12.4	13.1	12.6	41.6
Croplan 3514VT3	95		12.1	12.2	12.1	45.5
G2 Genetics 5H-797RRHX	97		11.9	12.2	12.0	41.1
Channel 199-55VT3	99		11.7	11.7	11.9	39.4
Pioneer 36V53	102		12.0	12.3	12.3	42.1
Renk RK694GTCBLLRWBL	104		12.3	12.5	12.1	43.7
Trelay 6ST576RIB	104		12.1	12.4	12.6	44.5
FS Seed 60TV4	110		12.0	12.3	12.1	45.3
Croplan 6125VT3	111		12.3	12.2	12.5	44.8
Pioneer 33F88	114		12.0	12.3	12.3	44.3
Dekalb DKC69-40VT3	119		12.1	12.6	12.4	40.6
Dekalb DKC29-79	79	151	5.7	5.8	6.0	6.0
Dekalb DKC29-79	79	167	13.3	13.7	9.2	9.3
Dekalb DKC29-79	79	181	10.5	11.7	13.3	49.0
Dekalb DKC29-79	79	195	14.8	14.8	14.8	71.3
Dekalb DKC29-79	79	209	15.3	15.3	15.3	68.7
Munson 4215GTCBLL	82	151	5.0	4.7	4.8	4.8
Munson 4215GTCBLL	82	167	12.0	11.7	8.8	8.7
Munson 4215GTCBLL	82	181	10.3	11.3	13.0	41.5
Munson 4215GTCBLL	82	195	15.0	14.7	17.2	72.2
Munson 4215GTCBLL	82	209	17.7	17.7	17.7	73.8
Croplan 2520VT3	85	151	4.8	5.2	5.3	5.5
Croplan 2520VT3	85	167	12.8	12.7	9.5	9.3
Croplan 2520VT3	85	181	10.7	11.8	13.5	43.2
Croplan 2520VT3	85	195	17.0	17.0	17.5	80.0
Croplan 2520VT3	85	209	17.8	17.8	17.8	80.3

continued

Table C-02. Determining Corn Hybrid Maturity - Comparison of Hybrids.
Arlington, WI - 2012.

(continued)

Hybrid	Relative maturity	Day of year	Leaf Development			Plant height inches
			Leaf collars no./plant	Hail adjusters method no./plant	Total leaves no./plant	
Lemke 2027-3000GT	85	151	5.3	5.4	5.3	4.8
Lemke 2027-3000GT	85	167	11.8	12.7	9.2	9.3
Lemke 2027-3000GT	85	181	10.2	12.0	13.3	45.3
Lemke 2027-3000GT	85	195	16.0	15.3	16.7	79.0
Lemke 2027-3000GT	85	209	17.3	17.3	17.3	79.0
Great Lakes 4041G3VT3	89	151	5.3	5.7	5.5	5.7
Great Lakes 4041G3VT3	89	167	12.8	13.5	9.3	8.7
Great Lakes 4041G3VT3	89	181	10.5	11.5	13.2	46.3
Great Lakes 4041G3VT3	89	195	15.5	14.3	16.7	86.5
Great Lakes 4041G3VT3	89	209	17.3	17.3	17.3	74.2
Renk RK434VT3P	90	151	4.5	5.2	5.0	5.0
Renk RK434VT3P	90	167	12.8	12.8	8.2	8.8
Renk RK434VT3P	90	181	10.5	12.5	13.7	42.2
Renk RK434VT3P	90	195	16.2	16.2	17.3	74.5
Renk RK434VT3P	90	209	17.8	18.7	18.7	77.5
Croplan 3514VT3	95	151	5.1	4.5	5.3	4.7
Croplan 3514VT3	95	167	12.5	12.8	8.5	8.3
Croplan 3514VT3	95	181	10.7	12.2	13.2	45.5
Croplan 3514VT3	95	195	14.5	14.2	15.8	84.3
Croplan 3514VT3	95	209	17.5	17.5	17.5	84.7
G2 Genetics 5H-797RRHX	97	151	5.0	4.8	4.8	4.8
G2 Genetics 5H-797RRHX	97	167	12.7	13.0	8.5	8.7
G2 Genetics 5H-797RRHX	97	181	9.5	11.3	12.5	43.5
G2 Genetics 5H-797RRHX	97	195	14.8	14.2	16.7	72.2
G2 Genetics 5H-797RRHX	97	209	17.7	17.7	17.7	76.3
Channel 199-55VT3	99	151	5.1	4.3	5.0	4.8
Channel 199-55VT3	99	167	12.3	11.8	9.0	8.7
Channel 199-55VT3	99	181	9.2	10.5	11.7	37.3
Channel 199-55VT3	99	195	13.5	13.2	15.3	69.2
Channel 199-55VT3	99	209	18.2	18.5	18.5	77.2
Pioneer 36V53	102	151	5.2	5.0	5.0	5.0
Pioneer 36V53	102	167	11.7	11.7	8.5	8.7
Pioneer 36V53	102	181	10.3	11.8	13.2	43.8
Pioneer 36V53	102	195	14.3	14.3	16.2	73.5
Pioneer 36V53	102	209	18.7	18.7	18.7	79.3
Renk RK694GTCBLLRWBL	104	151	5.8	5.5	5.0	4.8
Renk RK694GTCBLLRWBL	104	167	13.3	13.7	8.2	8.5
Renk RK694GTCBLLRWBL	104	181	10.5	11.5	13.2	47.5
Renk RK694GTCBLLRWBL	104	195	13.8	13.7	16.0	75.2
Renk RK694GTCBLLRWBL	104	209	18.0	18.0	18.0	82.7

continued

Table C-02. Determining Corn Hybrid Maturity - Comparison of Hybrids.
 (continued) **Arlington, WI - 2012.**

Hybrid	Relative maturity	Day of year	Leaf Development			Plant height inches
			Leaf collars no./plant	Hail adjusters method no./plant	Total leaves no./plant	
Trelay 6ST576RIB	104	151	5.3	4.8	5.2	5.2
Trelay 6ST576RIB	104	167	12.2	12.7	8.0	8.7
Trelay 6ST576RIB	104	181	10.0	11.7	13.7	46.8
Trelay 6ST576RIB	104	195	14.2	13.8	17.0	78.2
Trelay 6ST576RIB	104	209	19.0	19.0	19.0	83.8
FS Seed 60TV4	110	151	5.3	5.5	5.0	5.0
FS Seed 60TV4	110	167	13.2	13.3	8.0	8.3
FS Seed 60TV4	110	181	9.8	11.8	13.2	45.5
FS Seed 60TV4	110	195	14.0	12.8	16.2	78.3
FS Seed 60TV4	110	209	17.8	18.0	18.0	89.3
Croplan 6125VT3	111	151	5.5	5.2	5.2	5.2
Croplan 6125VT3	111	167	12.7	12.3	9.0	9.5
Croplan 6125VT3	111	181	10.2	11.7	13.5	45.3
Croplan 6125VT3	111	195	14.3	13.0	16.3	78.5
Croplan 6125VT3	111	209	18.7	18.7	18.3	85.7
Pioneer 33F88	114	151	5.2	5.2	5.0	5.0
Pioneer 33F88	114	167	13.3	13.0	9.2	8.3
Pioneer 33F88	114	181	10.3	11.7	12.8	42.7
Pioneer 33F88	114	195	13.5	13.3	16.0	74.2
Pioneer 33F88	114	209	17.5	18.3	18.3	91.5
Dekalb DKC69-40VT3	119	151	4.7	5.0	5.0	5.0
Dekalb DKC69-40VT3	119	167	13.2	13.3	8.8	8.0
Dekalb DKC69-40VT3	119	181	9.8	11.3	12.8	40.3
Dekalb DKC69-40VT3	119	195	13.5	13.7	16.0	70.0
Dekalb DKC69-40VT3	119	209	19.5	19.5	19.5	79.7
Mean			12.1	12.4	12.3	42.8
Probability(%)						
Hybrid (H)			52.9	0.1	0.2	0.0
Day Of Year (D)			0.0	0.0	0.0	0.0
H x D			0.0	0.0	0.0	0.0
LSD(0.10)						
Hybrid (H)			NS	0.5	0.4	2.2
Day Of Year (D)			0.3	0.3	0.2	1.2
H x D			1.2	1.1	0.9	5.0

FIELD EXPERIMENT HISTORY

Title: Corn Hybrid Growth and Development
Experiment: 01GD **Trial ID:** 3633 **Year:** 2012
Personnel: J.G. Lauer, K.D. Kohn, and T. Diallo
Location: Lancaster, WI **County:** Grant
Supported By: HATCH

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Fayette Silt Loam
Soil Test: **Date:** 10/01/12 **pH:** 7.4 **OM (%)** 2.4 **P (ppm)** 32 **K (ppm)** 77

Plot Management

Tillage Operations: Chisel Plow Turbo-Till Cultivated
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 125 lbs/A **Date:** N/A
Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 4 /26/12
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: N/A
Herbicide: Lumax 3.0 qt/A **Insecticide:** Force 4.4 lbs/A
Hybrid: Factor
Irrigation: None
Planting Date: 4/26/12 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/8/12 **Harvest Method:** Massey 8XP
Notes:

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.28 Acre
Harvest Plot Size: 2.5' x 22' **Harvest Plant Density:** 30476 plants per acre

Factors/Treatments:

Hybrids:

Channel 199-55VT3
 Croplan 2520VT3
 Croplan 3514VT3
 Croplan 6125VT3
 Dekalb DKC29-79
 Dekalb DKC69-40VT3

FS Seed 60TV4
 G2 Genetics 5H-797RRHX
 Great Lakes 4041G3VT3
 Lemke 2027-3000GT
 Munson 4215GTCBLL

Pioneer 33F88
 Pioneer 36V53
 Renk RK434VT3P
 Renk RK694GTCBLLRWBL
 Trelay 6ST576RIB

Results: Table C-03.

**Table C-03. Determining Corn Hybrid Maturity - Comparison of Hybrids.
Lancaster, WI - 2012.**

Hybrid	Relative maturity	Grain yield bu/A	Grain moisture %	Test weight lb/bu	Lodged			Return \$/A	Plant height inches
					Total %	Stalk %	Root %		
Croplan 2520VT3	85	107	11.4	58	8	4	5	688	74
Great Lakes 4041G3VT3	89	93	11.9	60	31	26	6	597	68
Renk RK434VT3P	90	126	12.3	60	4	0	4	807	83
Croplan 3514VT3	95	108	13.2	60	10	7	3	693	78
Channel 199-55VT3	99	159	14.1	59	15	2	13	1019	80
Pioneer 36V53	102	102	13.3	58	27	8	20	658	84
Renk RK694GTCBLLRWBL	104	130	14.1	59	24	0	24	837	85
Trelay 6ST576RIB	104	163	15.2	59	9	1	8	1042	90
FS Seed 60TV4	110	157	16.3	59	29	0	29	1007	87
Croplan 6125VT3	111	150	18.5	55	24	10	14	957	76
Pioneer 33F88	114	151	22.2	56	29	0	30	951	82
Dekalb DKC69-40VT3	119	155	23.9	54	6	0	6	967	86
Mean		133	15.5	58	18	5	13	852	81
Probability(%)									
Hybrid (H)		0.4	0.0	0.0	41.2	1.9	17.8	0.5	5.8
LSD(0.10)									
Hybrid (H)		29	1.0	1	NS	8	NS	185	9

FIELD EXPERIMENT HISTORY

Title: Corn Hybrid Growth and Development
Experiment: 01GD **Trial ID:** 3630 **Year:** 2012
Personnel: J.G. Lauer, K.D. Kohn, and T. Diallo
Location: Marshfield, WI **County:** Wood
Supported By: HATCH

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Withee Silt Loam
Soil Test: **Date:** 10/01/12 **pH:** 6.9 **OM (%)** 3.4 **P (ppm)** 36 **K (ppm)** 60

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated
Fertilizer: **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A
Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 4 /27/12
Post plant Analysis: 28-0-0 **Rate lbs/A:** 120 **Date:** 6 /15/12
Manure: N/A
Herbicide: SureStart 2.25 pt/A **Insecticide:** Force 3G 4.4 lbs/A
Volley 2.75 oz/A **Hybrid:** Factor
Irrigation: None
Planting Date: 4/27/12 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/3/12 **Harvest Method:** Massey 8XP
Notes:

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.28 Acre
Harvest Plot Size: 2.5' x 22' **Harvest Plant Density:** 26718 plants per acre

Factors/Treatments:

Hybrids:

Channel 199-55VT3
 Croplan 2520VT3
 Croplan 3514VT3
 Croplan 6125VT3
 Dekalb DKC29-79
 Dekalb DKC69-40VT3

FS Seed 60TV4
 G2 Genetics 5H-797RRHX
 Great Lakes 4041G3VT3
 Lemke 2027-3000GT
 Munson 4215GTCBLL

Pioneer 33F88
 Pioneer 36V53
 Renk RK434VT3P
 Renk RK694GTCBLLRWBL
 Trelay 6ST576RIB

Results: Table C-04.

**Table C-04. Determining Corn Hybrid Maturity - Comparison of Hybrids.
Marshfield, WI - 2012.**

Hybrid	Relative maturity	Grain yield bu/A	Grain moisture %	Test weight lb/bu	Lodged			Return \$/A	Plant height inches
					Total %	Stalk %	Root %		
Dekalb DKC29-79	79	109	15.2	59	1	1	0	700	78
Munson 4215GTCBLL	82	172	15.3	59	1	1	0	1104	91
Croplan 2520VT3	85	176	16.6	56	0	0	0	1125	90
Lemke 2027-3000GT	85	182	16.8	57	1	1	0	1161	93
Great Lakes 4041G3VT3	89	195	20.2	56	4	4	0	1233	100
Renk RK434VT3P	90	176	17.3	57	4	4	0	1126	92
Croplan 3514VT3	95	174	24.1	54	0	0	0	1086	97
G2 Genetics 5H-797RRHX	97	185	18.8	55	0	0	0	1174	92
Channel 199-55VT3	99	181	23.8	52	2	2	0	1132	91
Pioneer 36V53	102	183	25.2	51	0	0	0	1139	96
Renk RK694GTCBLLRWBL	104	181	28.2	51	5	5	0	1114	97
Trelay 6ST576RIB	104	171	26.4	51	38	38	0	1059	104
FS Seed 60TV4	110	162	35.5	51	3	3	0	975	93
Croplan 6125VT3	111	158	38.2	50	11	11	0	944	89
Pioneer 33F88	114	148	39.4	51	11	11	0	881	100
Dekalb DKC69-40VT3	119	127	42.1	50	0	0	0	749	97
Mean		167	25.2	54	5	5	0	1044	94
Probability(%)									
Hybrid (H)		0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
LSD(0.10)									
Hybrid (H)		18	2.7	1	8	8	-	117	6

FIELD EXPERIMENT HISTORY

Title: Corn Hybrid Growth and Development
Experiment: 01GD **Trial ID:** 3631 **Year:** 2012
Personnel: J.G. Lauer, K.D. Kohn, and T. Diallo
Location: Seymour, WI **County:** Outagamie
Supported By: HATCH

Site Information

Field: **Previous Crop:** No preference **Soil Type:** Onaway Silt Loam
Soil Test: **Date:** 10/01/12 **pH:** 7.4 **OM (%)** 3.6 **P (ppm)** 33 **K (ppm)** 106

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated
Fertilizer: **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A
Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /1 /12
Post plant Analysis: 46-0-0 **Rate lbs/A:** 160 lbs/A **Date:** 6 /25/12
Manure: N/A
Herbicide: Hornet 3.0 oz/A **Insecticide:** Force 4.4 lbs/A
Harness Xtra 1.7 qt/A **Hybrid:** Factor
Irrigation: None
Planting Date: 5/1/12 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/10/12 **Harvest Method:** Massey 8XP
Notes:

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.28 Acre
Harvest Plot Size: 5' x 22' **Harvest Plant Density:** 22498 plants per acre

Factors/Treatments:

Hybrids:

Channel 199-55VT3
 Croplan 2520VT3
 Croplan 3514VT3
 Croplan 6125VT3
 Dekalb DKC29-79
 Dekalb DKC69-40VT3

FS Seed 60TV4
 G2 Genetics 5H-797RRHX
 Great Lakes 4041G3VT3
 Lemke 2027-3000GT
 Munson 4215GTCBLL

Pioneer 33F88
 Pioneer 36V53
 Renk RK434VT3P
 Renk RK694GTCBLLRWBL
 Trelay 6ST576RIB

Results: Table C-05.

**Table C-05. Determining Corn Hybrid Maturity - Comparison of Hybrids.
Seymour, WI - 2012.**

Hybrid	Relative maturity	Harvest density	Grain yield	Grain moisture	Test weight	Lodged			Return \$/A	Plant height inches
						Total %	Stalk %	Root %		
Dekalb DKC29-79	79	20707	96	14.2	59	0	0	0	614	66
Munson 4215GTCBLL	82	23232	162	15.2	59	0	0	0	1037	78
Croplan 2520VT3	85	20581	145	14.0	57	0	0	0	932	76
Lemke 2027-3000GT	85	21464	177	15.4	58	0	0	0	1134	74
Great Lakes 4041G3VT3	89	20075	143	15.4	59	0	0	0	915	78
Renk RK434VT3P	90	22601	168	14.9	58	1	1	0	1075	80
Croplan 3514VT3	95	19318	143	17.0	58	2	2	0	911	81
G2 Genetics 5H-797RRHX	97	27399	188	16.4	56	0	0	0	1202	79
Channel 199-55VT3	99	25505	205	19.4	54	0	0	0	1303	81
Pioneer 36V53	102	18813	180	20.4	54	0	0	0	1139	78
Renk RK694GTCBLLRWBL	104	19570	188	21.5	53	0	0	0	1185	84
Trelay 6ST576RIB	104	24747	188	21.5	53	3	3	0	1183	89
FS Seed 60TV4	110	20328	184	32.5	52	0	0	0	1120	82
Croplan 6125VT3	111	24873	202	29.4	50	0	0	0	1241	85
Pioneer 33F88	114	22853	174	28.8	52	1	1	0	1070	87
Dekalb DKC69-40VT3	119	27904	207	28.7	52	0	0	0	1276	83
		22498	172	20.3	55	0	0	0	1084	80
Probability(%)										
Hybrid (H)		2.3	0.0	0.0	0.0	6.7	6.7	-	0.0	5.2
LSD(0.10)										
Hybrid (H)		4521	23	1.8	1	1	1	-	146	9

FIELD EXPERIMENT HISTORY

Title: Corn Hybrid Growth and Development
Experiment: 01GD **Trial ID:** 3632 **Year:** 2012
Personnel: J.G. Lauer, K.D. Kohn, and T. Diallo
Location: Valders, WI **County:** Manitowoc
Supported By: HATCH

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Kewaunee Clay Lo
Soil Test: **Date:** 10/01/12 **pH:** 7.9 **OM (%)** 3.4 **P (ppm)** 33 **K (ppm)** 107

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Turbo-Till Cultivated
Fertilizer: **Preplant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A
 Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /1 /12
 Post plant Analysis: 46-0-0 **Rate lbs/A:** 80 **Date:** 6 /25/12
 Manure: 6000 gal
Herbicide: Keystone LA 1.5 oz/A **Insecticide:** Force 3G 4.4 lbs/A
 Steadfast 1.0 oz/A **Hybrid:** Factor
 Callisto 3.0 oz/A
 Atrazine 0.25 lb/A
Irrigation: None
Planting Date: 5/1/12 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/11/12 **Harvest Method:** Massey 8XP
Notes:

Experimental Design

Design: RCB **Replications:** 3
Plot Size Seeded: 10' x 25' **Experiment Size:** 0.28 Acre
Harvest Plot Size: 5' x 22' **Harvest Plant Density:** 26612 plants per acre

Factors/Treatments:

Hybrids:

Channel 199-55VT3
 Croplan 2520VT3
 Croplan 3514VT3
 Croplan 6125VT3
 Dekalb DKC29-79
 Dekalb DKC69-40VT3

FS Seed 60TV4
 G2 Genetics 5H-797RRHX
 Great Lakes 4041G3VT3
 Lemke 2027-3000GT
 Munson 4215GTCBLL

Pioneer 33F88
 Pioneer 36V53
 Renk RK434VT3P
 Renk RK694GTCBLLRWBL
 Trelay 6ST576RIB

Results: Table C-06.

**Table C-06. Determining Corn Hybrid Maturity - Comparison of Hybrids.
Valders, WI - 2012.**

Hybrid	Relative maturity	Harvest density	Grain yield	Grain moisture	Test weight	Lodged			Return \$/A	Plant height inches
						Total %	Stalk %	Root %		
Munson 4215GTCBLL	82	24368	176	14.4	59	0	0	0	1127	85
Croplan 2520VT3	85	27146	210	16.2	58	0	0	0	1344	84
Lemke 2027-3000GT	85	24242	198	14.8	58	0	0	0	1270	86
Great Lakes 4041G3VT3	89	27525	216	26.2	55	0	0	0	1346	88
Renk RK434VT3P	90	29545	228	16.5	56	0	0	0	1459	80
Croplan 3514VT3	95	28282	203	19.5	56	0	0	0	1286	96
G2 Genetics 5H-797RRHX	97	26515	225	18.8	54	0	0	0	1433	87
Channel 199-55VT3	99	28409	235	26.5	53	0	0	0	1459	89
Pioneer 36V53	102	22853	231	22.7	53	0	0	0	1450	92
Renk RK694GTCBLLRWBL	104	22474	239	25.7	53	0	0	0	1483	102
Trelay 6ST576RIB	104	27651	241	27.4	53	0	0	0	1492	93
FS Seed 60TV4	110	26136	226	38.7	52	0	0	0	1344	102
Croplan 6125VT3	111	29671	265	33.2	52	0	0	0	1610	95
Pioneer 33F88	114	24431	235	37.7	53	0	0	0	1405	101
Dekalb DKC69-40VT3	119	29924	229	37.9	52	0	0	0	1368	96
Mean		26612	224	25.1	54	0	0	0	1392	92
Probability(%)										
Hybrid (H)		44.9	3.4	0.0	0.0	57.3	57.3	-	14.0	1.4
LSD(0.10)										
Hybrid (H)		NS	35	7.1	2	NS	NS	-	NS	10