FIELD EXPERIMENT HISTORY

Title: **Determining Corn Hybrid Maturity**

Experiment: 01GD **Trial ID:** 3479 **Year:** 2011

Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo

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

Supported By: HATCH

Site Information

Field: ARS408 **Previous Crop:** Corn **Soil Type:** Plano Silt Loam

Soil Test: **Date:** 10/21/11 **pH:** 7.1 **OM (%)** 3.3 **P (ppm)** 64 **K (ppm)** 193

Plot Management

Tillage Operations: Disk Ripper Field Cultivator Cultivated

Fertilizer:

Preplant Analysis:	46-0-0	**Rate lbs/A:** 150 lbs/A	**Date:**	5 /2 /11
Starter Analysis:	10-34-0	**Rate lbs/A:** 3.0 gal/A	**Date:**	5 /16/11
Post plant Analysis:	N/A	**Rate lbs/A:** N/A	**Date:**	N/A

Manure: N/A

Herbicide: Dual II Mag 24 oz/A
Hornet 4 oz/A
Accent Q 1 oz/A

Insecticide: Force 3G 4.4 b/A

Hybrid: See Factors

Irrigation: None

Planting Date: 5/16/11 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 **plants per acre** **Planting Method:** Almaco Precision Planter

Harvest Date: 10/12/11 **Harvest Method:** Massey Ferguson 8XP

Experimental Design

Design: RCB **Replications:** 3

Plot Size Seeded: 10' x 25' **Experiment Size:** 0.28 Acre

Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 32642 **plants per acre**

Factors/Treatments:

Hybrids:

Channel 199-55VT3	Dekalb DKC30-20	NK Brand 68Y-3000GT
Croplan 2738SS	Dekalb DKC65-44	Pioneer 36V53
Croplan 3514VT3	Dekalb DKC69-40VT3	Pioneer 37Y14
Croplan Genetics 6125VT3	GH H6186-3000GT	Renk RK295GT
Dairyland ST9395SSX	Legacy Seeds L53503000GT	
Dairyland ST9789	LG Seeds LG2411VT3	

Results: Table C-01 and C-02.

Table C-01. Determining Corn Hybrid Maturity - Comparison of Hybrids. Arlington, WI - 2011.

Hybrid	Relative maturity	Grain yield	Grain moisture	Test wt	Lodged			Grower return	Harvest population		Silking date	Early dent	Kernel Milk			Black layer	Plant height
					Total	Stalk	Root						75%	50%	25%		
		bu/A	%	lb/bu	%	%	%	$/A	plants/A	ears/A	----------doy----------						-inches -
Dekalb DKC30-20	80	140	13.7	60	7	6	1	759	32702	28156	195	223	232	234	238	246	94
GH H6186-3000GT	83	168	13.7	60	25	23	3	914	34595	33080	196	222	230	234	237	245	104
Renk RK295GT	85	148	14.2	56	51	51	0	804	35858	34343	199	226	233	236	239	246	105
Croplan 2738SS	87	187	15.1	59	11	11	0	1019	30555	29924	198	229	235	243	252	259	105
Dairyland ST9789	89	176	16.2	58	10	8	2	957	28914	25000	197	225	233	246	253	261	103
LG Seeds LG2411VT3	90	210	15.1	58	12	12	1	1142	32575	31186	198	226	234	239	246	253	107
Croplan 3514VT3	95	212	18.0	58	4	0	3	1141	32765	30871	198	230	237	246	253	261	102
Dairyland ST9395SSX	95	207	15.6	57	21	20	1	1123	35858	35101	201	232	237	241	248	263	102
Channel 199-55VT3	99	179	16.0	56	25	19	6	973	32197	30050	201	234	239	246	253	261	106
Pioneer 37Y14	99	186	16.5	57	25	23	3	1006	32197	30681	200	232	239	247	253	259	105
Pioneer 36V53	102	201	19.6	53	4	0	3	1074	29166	28914	201	233	243	251	259	268	102
Legacy Seeds L53503000GT	104	210	20.0	54	68	0	69	1124	32323	31818	200	230	237	246	257	266	111
Croplan Genetics 6125VT3	109	214	19.4	54	48	40	8	1147	33712	34217	201	235	239	254	265	272	106
NK Brand 68Y-3000GT	111	177	21.1	56	47	28	19	942	33585	33459	205	236	243	251	257	264	114
Dekalb DKC65-44	115	232	22.7	55	40	3	37	1229	34090	33964	201	231	242	254	263	270	102
Dekalb DKC69-40VT3	119	205	26.7	53	10	7	2	1069	31186	30176	203	236	247	257	268	275	106
Mean		191	17.7	56	26	16	10	1026	32642	31309	200	230	237	245	252	261	105
Probability(%)																	
Hybrid (H)		0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LSD(0.10)																	
Hybrid (H)		29	1.1	1	22	19	7	155	1992	1925	1	2	3	4	4	4	4

Table C-02. Determining Corn Hybrid Maturity - Comparison of Hybrids. Arlington, WI - 2011.

Hybrid	Relative maturity	Day of year	Leaf Development: Leaf collars	Leaf Development: Hail adjusters method	Leaf Development: Total leaves	Plant height
			no./plant	no./plant	no./plant	inches
		154	2.9	3.5	5.5	4.7
		167	5.0	7.9	9.3	12.4
		179	8.8	9.8	13.6	36.7
		194	15.1	14.7	17.2	85.2
		207	19.2	19.2	19.2	109.8
Dekalb DKC30-20	80		10.3	11.3	13.1	49.0
GH H6186-3000GT	83		10.1	11.0	12.8	50.0
Renk RK295GT	85		10.1	10.8	12.8	50.8
Croplan 2738SS	87		10.4	11.2	13.1	48.2
Dairyland ST9789	89		10.4	11.2	13.2	49.1
LG Seeds LG2411VT3	90		10.2	11.0	12.9	51.9
Croplan 3514VT3	95		10.3	11.1	13.0	50.7
Dairyland ST9395SSX	95		10.5	11.2	13.2	48.9
Channel 199-55VT3	99		10.0	11.1	12.9	48.2
Pioneer 37Y14	99		9.9	10.7	12.7	48.3
Pioneer 36V53	102		10.2	11.0	12.9	48.7
Legacy Seeds L53503000GT	104		10.1	10.9	12.8	52.8
Croplan Genetics 6125VT3	109		10.6	11.3	13.4	50.9
NK Brand 68Y-3000GT	111		10.2	11.1	13.2	53.8
Dekalb DKC65-44	115		9.7	10.6	12.6	48.2
Dekalb DKC69-40VT3	119		9.6	10.4	12.5	46.4
Dekalb DKC30-20	80	154	3.0	3.8	5.8	5.3
Dekalb DKC30-20	80	167	4.8	8.5	9.8	12.5
Dekalb DKC30-20	80	179	9.5	10.2	15.2	41.3
Dekalb DKC30-20	80	194	16.7	16.2	17.0	87.0
Dekalb DKC30-20	80	207	17.7	17.7	17.7	98.8
GH H6186-3000GT	83	154	2.7	3.7	5.7	5.1
GH H6186-3000GT	83	167	5.5	8.7	10.0	13.2
GH H6186-3000GT	83	179	9.3	10.2	14.2	39.4
GH H6186-3000GT	83	194	15.5	15.2	16.8	88.2
GH H6186-3000GT	83	207	17.5	17.5	17.5	104.0
Renk RK295GT	85	154	2.8	3.5	5.7	4.7
Renk RK295GT	85	167	5.0	7.7	9.2	12.7
Renk RK295GT	85	179	8.7	9.5	13.5	38.0
Renk RK295GT	85	194	15.2	14.5	16.7	87.8
Renk RK295GT	85	207	19.0	19.0	19.0	110.5

continued

Table C-02. Determining Corn Hybrid Maturity - Comparison of Hybrids. Arlington, WI - 2011.
(continued)

Hybrid	Relative maturity	Day of year	Leaf Development: Leaf collars	Leaf Development: Hail adjusters method	Leaf Development: Total leaves	Plant height
			no./plant	no./plant	no./plant	inches
Croplan 2738SS	87	154	3.0	3.8	5.7	5.4
Croplan 2738SS	87	167	4.8	7.7	9.2	11.7
Croplan 2738SS	87	179	9.0	9.7	14.0	36.2
Croplan 2738SS	87	194	15.5	15.3	17.3	81.0
Croplan 2738SS	87	207	19.5	19.5	19.5	107.0
Dairyland ST9789	89	154	3.0	3.5	5.8	4.4
Dairyland ST9789	89	167	5.5	8.2	9.8	12.0
Dairyland ST9789	89	179	9.2	10.3	14.3	36.4
Dairyland ST9789	89	194	15.7	15.0	17.2	84.2
Dairyland ST9789	89	207	18.8	18.8	18.8	108.7
LG Seeds LG2411VT3	90	154	3.2	3.8	5.8	5.4
LG Seeds LG2411VT3	90	167	4.8	8.3	9.5	12.5
LG Seeds LG2411VT3	90	179	8.8	9.5	13.5	39.2
LG Seeds LG2411VT3	90	194	15.5	14.8	16.8	89.2
LG Seeds LG2411VT3	90	207	18.7	18.7	18.7	113.5
Croplan 3514VT3	95	154	3.0	3.7	5.7	5.8
Croplan 3514VT3	95	167	4.8	7.8	9.2	12.3
Croplan 3514VT3	95	179	9.2	10.0	13.8	38.3
Croplan 3514VT3	95	194	15.5	15.2	17.3	86.8
Croplan 3514VT3	95	207	19.0	18.9	19.0	110.6
Dairyland ST9395SSX	95	154	3.0	3.7	5.8	4.6
Dairyland ST9395SSX	95	167	4.8	7.3	9.2	13.7
Dairyland ST9395SSX	95	179	9.0	9.8	13.3	37.8
Dairyland ST9395SSX	95	194	16.0	15.3	17.8	85.8
Dairyland ST9395SSX	95	207	19.7	19.7	19.7	102.7
Channel 199-55VT3	99	154	2.8	3.7	5.7	4.8
Channel 199-55VT3	99	167	4.7	7.8	9.3	11.9
Channel 199-55VT3	99	179	8.3	9.7	13.0	34.4
Channel 199-55VT3	99	194	14.7	14.5	17.0	81.2
Channel 199-55VT3	99	207	19.7	19.7	19.7	108.7
Pioneer 37Y14	99	154	3.0	3.2	5.2	3.9
Pioneer 37Y14	99	167	5.0	8.2	9.2	12.6
Pioneer 37Y14	99	179	8.2	9.7	13.5	35.3
Pioneer 37Y14	99	194	14.8	14.2	17.2	84.3
Pioneer 37Y14	99	207	18.3	18.3	18.3	105.7
Pioneer 36V53	102	154	2.8	3.3	5.5	3.5
Pioneer 36V53	102	167	5.0	7.8	9.2	12.5
Pioneer 36V53	102	179	8.8	10.0	13.3	38.0
Pioneer 36V53	102	194	15.2	14.7	17.0	82.3
Pioneer 36V53	102	207	19.3	19.3	19.3	107.2

continued

Table C-02. Determining Corn Hybrid Maturity - Comparison of Hybrids. Arlington, WI - 2011.
(continued)

Hybrid	Relative maturity	Day of year	Leaf Development: Leaf collars	Leaf Development: Hail adjusters method	Leaf Development: Total leaves	Plant height
			no./plant	no./plant	no./plant	inches
Legacy Seeds L53503000GT	104	154	3.0	3.2	5.2	5.0
Legacy Seeds L53503000GT	104	167	4.8	7.8	9.2	13.0
Legacy Seeds L53503000GT	104	179	8.7	9.8	13.2	36.6
Legacy Seeds L53503000GT	104	194	14.7	14.5	17.2	87.7
Legacy Seeds L53503000GT	104	207	19.3	19.3	19.3	121.8
Croplan Genetics 6125VT3	109	154	2.8	3.2	5.2	4.6
Croplan Genetics 6125VT3	109	167	5.5	8.0	9.5	13.6
Croplan Genetics 6125VT3	109	179	8.8	9.8	13.8	34.6
Croplan Genetics 6125VT3	109	194	15.2	15.2	18.0	86.7
Croplan Genetics 6125VT3	109	207	20.5	20.5	20.5	115.2
NK Brand 68Y-3000GT	111	154	2.2	3.2	5.2	5.1
NK Brand 68Y-3000GT	111	167	4.8	8.0	9.2	13.0
NK Brand 68Y-3000GT	111	179	9.0	9.3	13.3	36.8
NK Brand 68Y-3000GT	111	194	14.2	14.0	17.5	87.0
NK Brand 68Y-3000GT	111	207	20.8	20.8	20.8	127.3
Dekalb DKC65-44	115	154	3.0	3.3	5.3	3.5
Dekalb DKC65-44	115	167	4.5	7.0	8.3	9.9
Dekalb DKC65-44	115	179	7.7	9.2	12.7	32.4
Dekalb DKC65-44	115	194	13.7	14.0	17.0	84.7
Dekalb DKC65-44	115	207	19.5	19.5	19.5	110.3
Dekalb DKC69-40VT3	119	154	2.7	3.0	5.0	3.6
Dekalb DKC69-40VT3	119	167	4.8	7.2	8.5	11.5
Dekalb DKC69-40VT3	119	179	7.8	9.3	12.8	32.4
Dekalb DKC69-40VT3	119	194	13.5	13.3	17.0	79.5
Dekalb DKC69-40VT3	119	207	19.2	19.2	19.3	104.8
Mean			10.2	11.0	12.9	49.7
Probability(%)						
Hybrid (H)			0.0	0.1	0.0	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)			0.3	0.4	0.3	1.7
Day Of Year (D)			0.2	0.2	0.2	0.9
H x D			0.7	0.8	0.7	3.7

FIELD EXPERIMENT HISTORY

Title: **Determining Corn Hybrid Maturity**

Experiment: 01GD **Trial ID:** 3482 **Year:** 2011

Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo

Location: Lancaster, WI **County:** Grant

Supported By: HATCH

Site Information

Field: Sid's **Previous Crop:** Soybeans **Soil Type:** Fayette Silt Loam

Soil Test: **Date:** 10/04/11 **pH:** 6.6 **OM (%)** 2.3 **P (ppm)** 23 **K (ppm)** 88

Plot Management

Tillage Operations: Fall Subsoil Soil Finisher Cultivated 6/17/11

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 /21/10
Post plant Analysis:	46-0-0	**Rate lbs/A:**	63 bs/A	**Date:** 6 /17/11
Manure:				

Herbicide: Lumax 3 qt/A **Insecticide:** Force 3G 4.4 lb/A

Irrigation: None **Hybrid:** See Factors

Planting Date: 5/4/11 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 **plants per acre** **Planting Method:** Almaco Precision Planter

Harvest Date: 9/9/11 **Harvest Method:** Massey Ferguson 8XP

Experimental Design

Design: RCB **Replications:** 3

Plot Size Seeded: 10' x 25' **Experiment Size:** 0.28 Acre

Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 30340 **plants per acre**

Factors/Treatments:

Hybrids:

Channel 199-55VT3	Dekalb DKC30-20	NK Brand 68Y-3000GT
Croplan 2738SS	Dekalb DKC65-44	Pioneer 36V53
Croplan 3514VT3	Dekalb DKC69-40VT3	Pioneer 37Y14
Croplan Genetics 6125VT3	GH H6186-3000GT	Renk RK295GT
Dairyland ST9395SSX	Legacy Seeds L53503000GT	
Dairyland ST9789	LG Seeds LG2411VT3	

Results: Table C-03

Table C-03. Determining Corn Hybrid Maturity - Comparison of Hybrids. Lancaster, WI - 2011.

Hybrid	Relative maturity	Grain yield	Grain moisture	Test weight	Lodged			Grower return
					Total	Stalk	Root	
		bu/A	%	lb/bu	%	%	%	$/A
Dekalb DKC30-20	80	108	13.1	58	26	13	13	588
GH H6186-3000GT	83	142	14.3	59	36	11	24	772
Renk RK295GT	85	184	14.6	56	32	32	0	1000
Croplan 2738SS	87	173	14.6	58	10	9	1	939
Dairyland ST9789	89	187	14.7	58	3	2	0	1016
LG Seeds LG2411VT3	90	228	14.7	59	3	2	0	1241
Croplan 3514VT3	95	190	15.8	59	10	6	4	1031
Dairyland ST9395SSX	95	220	14.4	57	4	4	0	1197
Channel 199-55VT3	99	238	15.8	59	0	0	0	1292
Pioneer 37Y14	99	216	15.6	57	3	2	2	1172
Pioneer 36V53	102	244	16.4	56	1	0	1	1321
Legacy Seeds L53503000GT	104	239	17.0	56	1	1	0	1292
Croplan Genetics 6125VT3	109	261	18.1	55	2	2	0	1404
NK Brand 68Y-3000GT	111	262	22.6	57	18	7	10	1387
Dekalb DKC65-44	115	265	20.3	57	2	2	0	1418
Dekalb DKC69-40VT3	119	244	24.6	54	0	0	0	1281
Mean		212	16.7	57	9	6	3	1147
Probability(%)								
Hybrid (H)		0.0	0.0	0.5	0.0	0.0	0.0	0.0
LSD(0.10)								
Hybrid (H)		27	1.1	2	11	7	7	151

FIELD EXPERIMENT HISTORY

Title: **Determining Corn Hybrid Maturity**

Experiment: 01GD **Trial ID:** 3481 **Year:** 2011

Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo

Location: Marshfield, WI **County:** Wood

Supported By: HATCH

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Withee Silt Loam

Soil Test: **Date:** 10/21/11 **pH:** 6.5 **OM (%)** 3.3 **P (ppm)** 55 **K (ppm)** 138

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 /28/10
Post plant Analysis:	28-0-0	**Rate lbs/A:** 120	**Date:**	N/A
Manure: N/A				

Herbicide: SureStart 2.25 pt/A
Volley 2.75 oz/A

Insecticide: Force 3G 4.4 lbs/A

Hybrid: See Factors

Irrigation: None

Planting Date: 5/18/11 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 **plants per acre** **Planting Method:** Almaco Precision Planter

Harvest Date: 11/1/11 **Harvest Method:** Massey Ferguson 8XP

Experimental Design

Design: RCB **Replications:** 3

Plot Size Seeded: 10' x 25' **Experiment Size:** 0.28 Acre

Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 32348 **plants per acre**

Factors/Treatments:

Hybrids:

Channel 199-55VT3	Dekalb DKC30-20	NK Brand 68Y-3000GT
Croplan 2738SS	Dekalb DKC65-44	Pioneer 36V53
Croplan 3514VT3	Dekalb DKC69-40VT3	Pioneer 37Y14
Croplan Genetics 6125VT3	GH H6186-3000GT	Renk RK295GT
Dairyland ST9395SSX	Legacy Seeds L53503000GT	
Dairyland ST9789	LG Seeds LG2411VT3	

Results: Table C-04

Table C-04. Determining Corn Hybrid Maturity - Comparison of Hybrids. Marshfield, WI - 2011.

Hybrid	Relative maturity	Grain yield	Grain moisture	Test weight	Lodged			Grower return
					Total	Stalk	Root	
		bu/A	%	lb/bu	%	%	%	$/A
Dekalb DKC30-20	80	160	20.7	55	0	0	0	852
GH H6186-3000GT	83	166	22.7	51	0	0	0	881
Renk RK295GT	85	180	28.4	47	0	0	0	931
Croplan 2738SS	87	175	26.4	47	0	0	0	914
Dairyland ST9789	89	190	25.3	49	0	0	0	998
LG Seeds LG2411VT3	90	207	25.5	49	0	0	0	1088
Croplan 3514VT3	95	215	28.1	48	2	0	2	1113
Dairyland ST9395SSX	95	175	28.1	45	0	0	0	911
Channel 199-55VT3	99	190	31.4	45	3	0	2	973
Pioneer 37Y14	99	188	27.7	46	0	0	0	977
Pioneer 36V53	102	191	32.6	46	0	0	0	975
Legacy Seeds L53503000GT	104	180	34.6	46	0	0	0	913
Croplan Genetics 6125VT3	109	183	41.1	46	0	0	0	901
NK Brand 68Y-3000GT	111	184	38.0	47	0	0	0	917
Dekalb DKC65-44	115	193	38.8	49	0	0	0	960
Dekalb DKC69-40VT3	119	169	39.5	48	0	0	0	838
Mean		184	30.5	48	0	0	0	946
Probability(%)								
Hybrid (H)		1.0	0.0	0.0	32.4	60.4	52.1	1.1
LSD(0.10)								
Hybrid (H)		21	1.5	1	NS	NS	NS	111

FIELD EXPERIMENT HISTORY

Title: **Determining Corn Hybrid Maturity**

Experiment: 01GD **Trial ID:** 3483 **Year:** 2011

Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo

Location: Seymour, WI **County:** Oneida

Supported By: HATCH

Site Information

Field: **Previous Crop:** Soybean **Soil Type:** Onaway Silt Loam

Soil Test: **Date:** 10/21/11 **pH:** 7.2 **OM (%)** 3.1 **P (ppm)** 8 **K (ppm)** 111

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated 6/22/11

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 /19/11
Post plant Analysis:	46-0-0	**Rate lbs/A:** 220	**Date:**	6 /22/11
Manure:	N/A			

Herbicide: Overtime ATZ 1.7 qt/A
Hornet 2.0 oz/A

Insecticide: None

Hybrid: See Factors

Irrigation: None

Planting Date: 5/19/11 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 **plants per acre** **Planting Method:** Almaco Precision Planter

Harvest Date: 10/27/11 **Harvest Method:** Massey Ferguson 8XP

Experimental Design

Design: RCB **Replications:** 3

Plot Size Seeded: 10' x 25' **Experiment Size:** 0.28 Acre

Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 26704 **plants per acre**

Factors/Treatments:

Hybrids:

Channel 199-55VT3	Dekalb DKC30-20	NK Brand 68Y-3000GT
Croplan 2738SS	Dekalb DKC65-44	Pioneer 36V53
Croplan 3514VT3	Dekalb DKC69-40VT3	Pioneer 37Y14
Croplan Genetics 6125VT3	GH H6186-3000GT	Renk RK295GT
Dairyland ST9395SSX	Legacy Seeds L53503000GT	
Dairyland ST9789	LG Seeds LG2411VT3	

Results: Table C-05

Table C-05. Determining Corn Hybrid Maturity - Comparison of Hybrids. Seymour, WI - 2011.

Hybrid	Relative maturity	Grain yield	Grain moisture	Test weight	Lodged			Grower return
					Total	Stalk	Root	
		bu/A	%	lb/bu	%	%	%	$/A
Dekalb DKC30-20	80	112	15.5	54	3	2	0	607
GH H6186-3000GT	83	130	18.5	53	23	15	8	701
Renk RK295GT	85	184	19.7	51	9	2	7	983
Croplan 2738SS	87	145	19.4	50	2	1	0	779
Dairyland ST9789	89	164	19.1	52	0	0	0	883
LG Seeds LG2411VT3	90	164	18.8	52	4	4	0	880
Croplan 3514VT3	95	177	20.9	52	0	0	0	944
Dairyland ST9395SSX	95	170	23.6	48	3	1	2	899
Channel 199-55VT3	99	184	24.8	48	25	0	25	966
Pioneer 37Y14	99	163	23.1	50	0	0	0	860
Pioneer 36V53	102	182	26.9	49	1	0	1	949
Legacy Seeds L53503000GT	104	191	30.5	49	25	0	25	982
Croplan Genetics 6125VT3	109	187	33.8	49	18	0	18	948
NK Brand 68Y-3000GT	111	169	33.7	51	33	0	33	860
Dekalb DKC65-44	115	180	33.9	52	19	0	19	915
Dekalb DKC69-40VT3	119	151	35.2	50	5	0	5	762
Mean		166	24.8	51	11	2	9	870
Probability(%)								
Hybrid (H)		0.0	0.0	0.0	4.9	53.6	2.5	0.1
LSD(0.10)								
Hybrid (H)		24	1.7	1	19	NS	18	129

FIELD EXPERIMENT HISTORY

Title: **Determining Corn Hybrid Maturity**

Experiment: 01GD **Trial ID:** 3484 **Year:** 2011

Personnel: J.G. Lauer, K.D. Kohn and T.H. Diallo

Location: Valders, WI **County:** Manitowoc

Supported By: HATCH

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Kewaunee Clay

Soil Test: **Date:** 10/21/11 **pH:** 7.3 **OM (%)** 2.6 **P (ppm)** 32 **K (ppm)** 115

Plot Management

Tillage Operations: Spring Chisel PlowField 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 /19/11
Post plant Analysis:	46-0-0	**Rate lbs/A:** 160 lbs/A	**Date:**	6 /21/11
Manure:	N/A			

Herbicide: Steadfast 1.0 oz/A
Laudis 2.0 oz/A

Insecticide: Force 3G 4.4 lbs/A

Hybrid: See Factors

Irrigation: None

Planting Date: 5/9/11 **Planting Depth:** 1.5" **Row Width:** 30"

Target Plant Density: 32000 **plants per acre** **Planting Method:** Almaco Precision Planter

Harvest Date: 10/27/11 **Harvest Method:** Massey Ferguson 8XP

Experimental Design

Design: RCB **Replications:** 3

Plot Size Seeded: 10' x 25' **Experiment Size:** 0.28 Acre

Harvest Plot Size: 5' x 23' **Harvest Plant Density:** 30606 **plants per acre**

Factors/Treatments:

Hybrids:

Channel 199-55VT3	Dekalb DKC30-20	NK Brand 68Y-3000GT
Croplan 2738SS	Dekalb DKC65-44	Pioneer 36V53
Croplan 3514VT3	Dekalb DKC69-40VT3	Pioneer 37Y14
Croplan Genetics 6125VT3	GH H6186-3000GT	Renk RK295GT
Dairyland ST9395SSX	Legacy Seeds L53503000GT	
Dairyland ST9789	LG Seeds LG2411VT3	

Results: Table C-06

Table C-06. Determining Corn Hybrid Maturity - Comparison of Hybrids. Valders, WI - 2011.

Hybrid	Relative maturity	Grain yield	Grain moisture	Test weight	Lodged			Grower return
					Total	Stalk	Root	
		bu/A	%	lb/bu	%	%	%	$/A
Dekalb DKC30-20	80	80	18.0	54	46	47	0	431
Renk RK295GT	85	138	18.2	51	63	62	1	742
Croplan 2738SS	87	176	18.3	55	19	20	0	950
Dairyland ST9789	89	170	17.9	56	20	20	0	918
LG Seeds LG2411VT3	90	176	17.8	56	3	3	0	949
Croplan 3514VT3	95	189	19.7	55	10	10	0	1014
Dairyland ST9395SSX	95	150	19.7	52	52	52	0	802
Channel 199-55VT3	99	160	19.0	52	10	9	1	857
Pioneer 37Y14	99	164	19.1	54	28	26	1	879
Pioneer 36V53	102	177	19.8	54	4	4	0	950
Legacy Seeds L53503000GT	104	155	22.3	51	21	16	5	819
Croplan Genetics 6125VT3	109	168	25.6	48	33	31	2	880
NK Brand 68Y-3000GT	111	159	26.1	50	39	12	28	830
Dekalb DKC65-44	115	188	26.8	51	3	2	2	981
Dekalb DKC69-40VT3	119	178	29.7	51	1	1	0	918
Mean		162	21.2	53	23	21	3	861
Probability(%)								
Hybrid (H)		0.0	0.0	0.0	0.1	0.6	0.5	0.0
LSD(0.10)								
Hybrid (H)		17	1.6	1	25	27	10	89