FIELD EXPERIMENT HISTORY

Title: **Corn Hybrid Growth and Development**

Experiment: 01HT **Trial ID:** 5781 **Year:** 2014

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo

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

Supported By: HATCH

Site Information

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

Soil Test: **Date:** 10/1 /14 **pH** 6.9 **OM (%)** 3.5 **P (ppm)** 34 **K (ppm)** 154

Plot Management

Tillage Operations: Disk Chisel Field Cultivator

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 /9 /14
	Post plant Analysis:	N/A	**Rate lbs/A:**	N/A	**Date:**	N/A
	Manure: None					

Herbicide: Dual II Mag 28 oz/A
Hornet 4.0 oz/A
Accent Q 1.0 oz/A
Callisto 3.0 oz/A

Insecticide: None

Hybrid: Factor

Irrigation: None

Planting Date: 5/9/14 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 10/24/14 **Harvest Method:** Massey 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:** 32047 **plants per acre**

Factors/Treatments:

Hybrids:

1) Dahlman R39-11
2) Pilgrim 8301-3000GT
3) Jung 7S191RIB
4) FS InVision 36TV4RIB
5) Legacy L3011
6) PIP 3190(Vip3111)
7) NuTech/G2 5X-894
8) Pioneer P9690AM
9) Pioneer P9910AM1
10) FS InVision 53TV4
11) Pioneer P0453HR
12) NuTech/G2 5H-806
13) Renk RK776SSTX
14) Cornelius C594VT3P
15) Renk RK858T3P
16) Dekalb DKC63-33RIB

Results: Table 1401-01 & 1401-02.

Table: 1401-01. Determining Corn Hybrid Maturity - Comparison of Hybrids. Arlington, WI - 2014.

Hybrid	Relative maturity	Harvest density	Grain yield	Grain moisture	Test wt	Lodged			AGI	Silking	Early dent	Kernel Milk			Black layer	Plant height	Ethanol	
						Total	Stalk	Root	$3.67	date		75%	50%	25%			per bu	per A
		plants/A	bu/A	%	lb/bu	%	%	%	$/A	----------doy----------						inches	--gallons--	
Dahlman R39-11	77	30050	179	18.1	59	0	0	0	606	194	233	240	245	249	260	95	2.86	511
Pilgrim 8301-3000GT	83	32575	192	18.7	58	4	3	0	647	195	233	240	244	248	257	101	2.93	562
Jung 7S191RIB	85	35732	237	19.6	56	0	0	0	794	195	236	241	244	250	259	94	2.94	696
FS InVision 36TV4RIB	86	30808	221	19.1	58	1	1	0	744	195	234	242	206	252	264	98	2.94	648
Legacy L3011	90	32323	238	19.0	57	0	0	0	802	194	237	244	248	251	263	100	2.94	699
PIP 3190(Vip3111)	90	31186	229	18.9	54	1	1	0	773	200	236	242	253	251	260	112	2.95	676
NuTech/G2 5X-894	94	30808	221	20.9	57	1	1	0	737	198	236	244	249	259	267	104	2.97	656
Pioneer P9690AM	96	32449	246	20.5	56	0	0	0	823	197	237	245	250	256	266	103	2.95	728
Pioneer P9910AM1	99	29924	244	21.8	54	0	0	0	810	201	240	246	254	264	272	109	2.94	704
FS InVision 53TV4	103	30555	242	25.5	55	0	0	0	785	201	239	249	262	270	276	115	2.89	722
Pioneer P0453HR	104	31060	261	25.6	53	2	2	0	845	203	245	251	262	273	281	110	2.92	762
NuTech/G2 5H-806	106	30555	267	27.0	54	1	1	0	857	204	246	257	265	269	279	112	2.92	778
Renk RK776SSTX	108	33207	252	31.4	55	1	1	0	788	202	247	256	266	278	287	112	2.87	724
Cornelius C594VT3P	109	33964	270	27.5	56	1	1	0	864	202	243	250	263	273	284	115	2.89	780
Renk RK858T3P	112	33964	264	31.8	55	1	0	1	823	204	250	259	266	274	284	117	2.88	761
Dekalb DKC63-33RIB	113	33585	250	29.2	53	3	3	0	793	203	247	258	267	276	286	116	2.90	726
Mean		32047	238	23.4	56	1	1	0	781	199	240	248	253	262	272	107	2.92	696
Probability(%)																		
Hybrid (H)		0.2	0.0	0.0	0.0	14.7	29.9	58.1	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0
LSD(0.10)																		
Hybrid (H)		2193	13	1.6	1	NS	NS	NS	45	1	2	3	25	4	5	6	0.02	38

Table: 1401-02. Determining Corn Hybrid Maturity - Comparison of Hybrids. Arlington, WI - 2014.

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
Dahlman R39-11	77		9.4	11.0	11.8	53.5
Pilgrim 8301-3000GT	83		9.9	11.8	12.6	58.4
Jung 7S191RIB	85		10.1	11.9	12.6	56.7
FS InVision 36TV4RIB	86		10.7	12.7	13.6	58.0
Legacy L3011	90		10.5	12.2	13.1	59.0
PIP 3190(Vip3111)	90		10.2	11.6	12.9	60.2
NuTech/G2 5X-894	94		10.1	12.3	12.9	57.2
Pioneer P9690AM	96		10.2	12.5	13.4	60.2
Pioneer P9910AM1	99		10.3	12.3	13.2	61.2
FS InVision 53TV4	103		10.1	12.3	13.3	61.3
Pioneer P0453HR	104		9.9	11.6	12.7	59.9
NuTech/G2 5H-806	106		9.9	11.8	12.8	58.5
Renk RK776SSTX	108		10.5	12.4	13.4	59.6
Cornelius C594VT3P	109		10.0	12.0	13.1	59.1
Renk RK858T3P	112		10.3	12.4	13.3	59.2
Dekalb DKC63-33RIB	113		10.5	12.9	13.8	60.6
		154	2.9	4.3	5.0	7.6
		168	5.5	8.5	9.6	21.8
		181	9.4	13.5	15.0	60.0
		196	14.8	16.2	17.4	97.9
		210	18.1	18.1	18.1	107.1
Dahlman R39-11	77	154	2.7	3.7	4.7	6.4
Dahlman R39-11	77	168	5.2	8.0	9.2	19.7
Dahlman R39-11	77	181	9.2	12.7	14.0	53.7
Dahlman R39-11	77	196	14.2	15.0	15.7	92.8
Dahlman R39-11	77	210	15.7	15.7	15.7	94.7
Pilgrim 8301-3000GT	83	154	2.8	4.5	5.0	7.1
Pilgrim 8301-3000GT	83	168	5.7	9.0	10.0	20.0
Pilgrim 8301-3000GT	83	181	9.8	13.2	14.8	61.0
Pilgrim 8301-3000GT	83	196	14.7	15.7	16.5	103.2
Pilgrim 8301-3000GT	83	210	16.5	16.5	16.5	100.7
Jung 7S191RIB	85	154	3.0	4.5	4.8	6.6
Jung 7S191RIB	85	168	5.3	8.8	9.8	20.4
Jung 7S191RIB	85	181	10.0	13.8	14.8	61.5
Jung 7S191RIB	85	196	15.5	15.8	16.7	101.0
Jung 7S191RIB	85	210	16.7	16.7	16.7	93.8

continued

Table: 1401-02. Determining Corn Hybrid Maturity - Comparison of Hybrids. Arlington, WI - 2014.
(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
FS InVision 36TV4RIB	86	154	3.0	4.7	5.5	8.6
FS InVision 36TV4RIB	86	168	5.8	9.3	10.8	22.2
FS InVision 36TV4RIB	86	181	10.7	14.3	15.5	61.7
FS InVision 36TV4RIB	86	196	15.8	17.2	18.0	99.0
FS InVision 36TV4RIB	86	210	18.0	18.0	18.0	98.3
Legacy L3011	90	154	3.0	4.8	5.5	9.2
Legacy L3011	90	168	6.0	8.5	10.0	21.5
Legacy L3011	90	181	10.2	14.0	15.2	64.7
Legacy L3011	90	196	15.8	16.5	17.3	100.0
Legacy L3011	90	210	17.3	17.3	17.3	99.5
PIP 3190(Vip3111)	90	154	3.0	4.0	5.0	7.8
PIP 3190(Vip3111)	90	168	5.7	8.3	9.5	20.8
PIP 3190(Vip3111)	90	181	9.2	12.0	14.5	61.7
PIP 3190(Vip3111)	90	196	15.0	15.5	17.5	99.3
PIP 3190(Vip3111)	90	210	18.2	18.2	18.2	111.5
NuTech/G2 5X-894	94	154	3.0	4.7	5.2	8.2
NuTech/G2 5X-894	94	168	5.5	8.8	9.8	24.5
NuTech/G2 5X-894	94	181	9.0	14.3	15.3	60.0
NuTech/G2 5X-894	94	196	15.3	16.2	16.8	89.5
NuTech/G2 5X-894	94	210	17.5	17.5	17.5	103.7
Pioneer P9690AM	96	154	3.0	4.7	5.3	8.5
Pioneer P9690AM	96	168	5.7	9.2	10.3	23.8
Pioneer P9690AM	96	181	9.0	14.2	15.5	62.8
Pioneer P9690AM	96	196	15.2	16.5	17.8	102.5
Pioneer P9690AM	96	210	18.0	18.0	18.0	103.3
Pioneer P9910AM1	99	154	3.0	4.2	4.8	7.9
Pioneer P9910AM1	99	168	5.3	8.2	9.3	23.7
Pioneer P9910AM1	99	181	9.0	14.0	15.0	61.7
Pioneer P9910AM1	99	196	15.3	16.3	18.0	103.8
Pioneer P9910AM1	99	210	18.7	18.7	18.7	108.7
FS InVision 53TV4	103	154	2.7	3.8	5.0	7.9
FS InVision 53TV4	103	168	5.5	8.7	9.5	20.8
FS InVision 53TV4	103	181	9.0	13.8	15.3	63.8
FS InVision 53TV4	103	196	14.7	16.8	18.0	99.3
FS InVision 53TV4	103	210	18.5	18.5	18.5	114.7
Pioneer P0453HR	104	154	3.0	4.0	5.0	7.0
Pioneer P0453HR	104	168	5.2	7.8	9.0	22.7
Pioneer P0453HR	104	181	8.8	12.5	14.5	61.2
Pioneer P0453HR	104	196	14.0	15.3	16.5	98.3
Pioneer P0453HR	104	210	18.3	18.3	18.3	110.3

continued

Table: 1401-02. Determining Corn Hybrid Maturity - Comparison of Hybrids. Arlington, WI - 2014.
(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
NuTech/G2 5H-806	106	154	3.0	4.2	5.0	6.2
NuTech/G2 5H-806	106	168	5.0	8.0	9.0	21.8
NuTech/G2 5H-806	106	181	9.0	12.7	14.0	58.3
NuTech/G2 5H-806	106	196	13.8	15.7	17.2	94.3
NuTech/G2 5H-806	106	210	18.7	18.7	18.8	111.7
Renk RK776SSTX	108	154	3.0	4.5	4.8	7.8
Renk RK776SSTX	108	168	5.3	7.7	9.2	21.3
Renk RK776SSTX	108	181	9.7	13.5	15.2	56.8
Renk RK776SSTX	108	196	14.8	16.8	18.2	96.3
Renk RK776SSTX	108	210	19.5	19.5	19.5	115.5
Cornelius C594VT3P	109	154	3.0	4.3	4.7	7.8
Cornelius C594VT3P	109	168	5.5	8.2	9.5	20.3
Cornelius C594VT3P	109	181	8.7	12.8	14.8	59.2
Cornelius C594VT3P	109	196	13.5	15.5	17.2	93.3
Cornelius C594VT3P	109	210	19.3	19.3	19.3	115.0
Renk RK858T3P	112	154	3.0	4.0	4.7	7.8
Renk RK858T3P	112	168	5.7	8.7	9.7	22.9
Renk RK858T3P	112	181	9.7	13.8	15.0	52.7
Renk RK858T3P	112	196	14.3	16.5	18.0	95.8
Renk RK858T3P	112	210	19.0	19.0	19.0	116.7
Dekalb DKC63-33RIB	113	154	2.8	4.2	4.8	7.1
Dekalb DKC63-33RIB	113	168	5.7	8.7	9.7	22.5
Dekalb DKC63-33RIB	113	181	9.5	14.5	15.8	59.2
Dekalb DKC63-33RIB	113	196	15.0	17.8	19.0	98.5
Dekalb DKC63-33RIB	113	210	19.5	19.5	19.5	115.5
Mean			10.1	12.1	13.0	58.9
Probability(%)						
Hybrid (H)			0.0	0.0	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)			0.2	0.2	0.1	1.4
Day Of Year (D)			0.3	0.3	0.3	2.5
H x D			0.6	0.7	0.6	5.7

FIELD EXPERIMENT HISTORY

Title: **Corn Hybrid Growth and Development**

Experiment: 01HT **Trial ID:** 2957 **Year:** 2014

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:** 10/1 /14 **pH** 7.4 **OM (%)** 1.9 **P (ppm)** 30 **K (ppm)** 87

Plot Management

Tillage Operations: Chisel Plow Turbo-Till

Fertilizer:	**Preplant Analysis:**	46-0-0	**Rate lbs/A:**	193 lbs/A	**Date:**	N/A
	Starter Analysis:	10-34-0	**Rate lbs/A:**	3.0 gal/A	**Date:**	5 /9 /14
	Post plant Analysis:	N/A	**Rate lbs/A:**	N/A	**Date:**	N/A
	Manure:	N/A				

Herbicide: Lumax 3.0 qt/A **Insecticide:** Force 3G 4.4 lbs/A

Irrigation: None **Hybrid:** Factor

Planting Date: 5/5/14 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 10/20/14 **Harvest Method:** Massey 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:** 29415 **plants per acre**

Factors/Treatments:

Hybrids:

1) Dahlman R39-11
2) Pilgrim 8301-3000GT
3) Jung 7S191RIB
4) FS InVision 36TV4RIB
5) Legacy L3011
6) PIP 3190(Vip3111)
7) NuTech/G2 5X-894
8) Pioneer P9690AM
9) Pioneer P9910AM1
10) FS InVision 53TV4
11) Pioneer P0453HR
12) NuTech/G2 5H-806
13) Renk RK776SSTX
14) Cornelius C594VT3P
15) Renk RK858T3P
16) Dekalb DKC63-33RIB

Results: Table 1401-03.

Table: 1401-03. Determining Corn Hybrid Maturity - Comparison of Hybrid Lancaster, WI - 2014.

Hybrid	Relative maturity	Harvest density	Grain yield	Grain moisture	Test weight	Lodged			AGI
						Total	Stalk	Root	$3.67
		plants/A	bu/A	%	lb/bu	%	%	%	$/A
Dahlman R39-11	77	26010	137	15.7	56	10	8	1	471
Pilgrim 8301-3000GT	83	25568	165	15.9	55	13	10	3	567
Jung 7S191RIB	85	30303	172	16.5	55	9	5	4	586
FS InVision 36TV4RIB	86	28030	192	15.8	57	3	3	0	660
Legacy L3011	90	29924	208	16.8	56	0	0	0	709
PIP 3190(Vip3111)	90	29040	193	16.6	53	13	12	1	661
NuTech/G2 5X-894	94	28156	207	18.3	55	1	1	0	702
Pioneer P9690AM	96	32197	227	19.1	56	1	1	0	766
Pioneer P9910AM1	99	30303	211	17.5	53	1	1	0	720
FS InVision 53TV4	103	30681	222	22.6	53	2	2	0	731
Pioneer P0453HR	104	31060	235	23.3	53	2	2	0	772
NuTech/G2 5H-806	106	28914	244	23.7	54	0	0	0	799
Renk RK776SSTX	108	30681	243	27.7	55	2	1	0	777
Cornelius C594VT3P	109	30555	231	28.2	53	0	0	0	736
Renk RK858T3P	112	28282	227	32.7	52	0	0	0	703
Dekalb DKC63-33RIB	113	30934	228	26.6	52	2	1	1	733
Mean		29415	209	21.0	54	4	3	1	693
Probability(%)									
Hybrid (H)		2.8	0.0	0.0	0.2	17.2	32.6	44.2	0.0
LSD(0.10)									
Hybrid (H)		2985	24	1.9	2	NS	NS	NS	80

FIELD EXPERIMENT HISTORY

Title: **Corn Hybrid Growth and Development**

Experiment: 01HT **Trial ID:** 3079 **Year:** 2014

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

Location: Marshfield, WI **County:** Marathon

Supported By: HATCH

Site Information

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

Soil Test: **Date:** 10/1 /14 **pH** 6.8 **OM (%)** 3.1 **P (ppm)** 90 **K (ppm)** 194

Plot Management

Tillage Operations: Chisel Plow Turbo-Till

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 /30/14
	Post plant Analysis:	46-0-0	**Rate lbs/A:**	120 lbs/A	**Date:**	N/A
	Manure:	7000 gal/A				

Herbicide: Medal II 1.7 pt/A
Hornet WDG 3.0 oz/A

Insecticide: Force 3G 4.4 lbs/A

Hybrid: Factor

Irrigation: None

Planting Date: 5/30/14 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 11/17/14 **Harvest Method:** Massey 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:** 31628 **plants per acre**

Factors/Treatments:

Hybrids:

1) Dahlman R39-11
2) Pilgrim 8301-3000GT
3) Jung 7S191RIB
4) FS InVision 36TV4RIB
5) Legacy L3011
6) PIP 3190(Vip3111)
7) NuTech/G2 5X-894
8) Pioneer P9690AM
9) Pioneer P9910AM1
10) FS InVision 53TV4
11) Pioneer P0453HR
12) NuTech/G2 5H-806
13) Renk RK776SSTX
14) Cornelius C594VT3P
15) Renk RK858T3P
16) Dekalb DKC63-33RIB

Results: Table 1401-04.

Table: 1401-04. Determining Corn Hybrid Maturity - Comparison of Hybrid Marshfield, WI - 2014.

Hybrid	Relative maturity	Harvest density	Grain yield	Grain moisture	Test weight	Lodged			AGI
						Total	Stalk	Root	$3.67
		plants/A	bu/A	%	lb/bu	%	%	%	$/A
Dahlman R39-11	77	30429	159	25.9	57	2	2	0	515
Pilgrim 8301-3000GT	83	31313	178	26.1	52	1	1	0	574
Jung 7S191RIB	85	33964	186	28.9	55	0	0	0	590
FS InVision 36TV4RIB	86	32954	181	29.8	56	0	0	0	572
Legacy L3011	90	30176	184	29.6	50	0	0	0	580
PIP 3190(Vip3111)	90	31944	192	33.2	50	6	0	6	593
NuTech/G2 5X-894	94	30303	177	30.6	54	0	0	0	571
Pioneer P9690AM	96	30429	190	33.0	51	0	0	0	589
Pioneer P9910AM1	99	31439	181	32.1	50	0	0	0	564
FS InVision 53TV4	103	30429	191	38.5	51	3	0	2	568
Pioneer P0453HR	104	32575	178	39.8	50	0	0	0	527
NuTech/G2 5H-806	106	31565	194	38.8	50	0	0	0	577
Renk RK776SSTX	108	30808	182	45.8	50	2	1	1	517
Cornelius C594VT3P	109	32702	194	45.0	52	0	0	0	552
Renk RK858T3P	112	32828	193	46.0	53	6	1	5	545
Dekalb DKC63-33RIB	113	32197	181	44.5	53	0	0	0	518
Mean		31628	184	35.5	52	1	0	1	559
Probability(%)									
Hybrid (H)		13.9	20.1	0.0	0.0	0.6	52.8	0.0	16.5
LSD(0.10)									
Hybrid (H)		NS	NS	2.4	2	3	NS	2	NS

FIELD EXPERIMENT HISTORY

Title: **Corn Hybrid Growth and Development**

Experiment: 01HT **Trial ID:** 3090 **Year:** 2014

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

Location: Seymour, WI **County:** Outagamie

Supported By: HATCH

Site Information

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

Soil Test: **Date:** 10/1 /14 **pH** 6.9 **OM (%)** 2.4 **P (ppm)** 20 **K (ppm)** 101

Plot Management

Tillage Operations: Chisel Plow Field Cultivator

Fertilizer:

Preplant Analysis:	46-0-0	**Rate lbs/A:** 170 lbs/A	**Date:**	N/A
Starter Analysis:	N/A	**Rate lbs/A:** 3.0 gal/A	**Date:**	5 /23/14
Post plant Analysis:	28-0-0	**Rate lbs/A:** 65 lbs/A	**Date:**	6 /23/14
Manure:	N/A			

Herbicide: Capreno 3.0 oz/A
Harness Xtra 1.7 qt/A

Insecticide: None

Hybrid: Factor

Irrigation: None

Planting Date: 5/23/14 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 11/13/14 **Harvest Method:** Massey 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:** 31194 **plants per acre**

Factors/Treatments:

Hybrids:

1) Dahlman R39-11
2) Pilgrim 8301-3000GT
3) Jung 7S191RIB
4) FS InVision 36TV4RIB
5) Legacy L3011
6) PIP 3190(Vip3111)
7) NuTech/G2 5X-894
8) Pioneer P9690AM
9) Pioneer P9910AM1
10) FS InVision 53TV4
11) Pioneer P0453HR
12) NuTech/G2 5H-806
13) Renk RK776SSTX
14) Cornelius C594VT3P
15) Renk RK858T3P
16) Dekalb DKC63-33RIB

Results: Table 1401-05.

Table: 1401-05. Determining Corn Hybrid Maturity - Comparison of Hybrid Seymour, WI - 2014.

Hybrid	Relative maturity	Harvest density	Grain yield	Grain moisture	Test weight	Lodged			AGI
						Total	Stalk	Root	$3.67
		plants/A	bu/A	%	lb/bu	%	%	%	$/A
Dahlman R39-11	77	28282	131	24.1	58	5	5	0	427
Pilgrim 8301-3000GT	83	30681	141	21.4	53	18	18	0	469
Jung 7S191RIB	85	33838	181	25.6	55	0	0	0	588
FS InVision 36TV4RIB	86	30934	167	24.7	56	20	20	0	543
Legacy L3011	90	29924	185	27.1	53	9	8	0	594
PIP 3190(Vip3111)	90	32197	149	24.2	52	26	26	0	486
NuTech/G2 5X-894	94	30934	185	24.8	54	7	7	0	602
Pioneer P9690AM	96	31944	182	27.6	51	11	11	0	584
Pioneer P9910AM1	99	30681	185	26.4	52	0	0	0	598
FS InVision 53TV4	103	31060	180	29.2	52	4	4	0	571
Pioneer P0453HR	104	30934	204	30.7	54	1	1	0	639
NuTech/G2 5H-806	106	28914	205	30.2	55	2	2	0	645
Renk RK776SSTX	108	30681	197	31.2	54	2	2	0	616
Cornelius C594VT3P	109	33080	192	31.5	54	2	2	0	600
Renk RK858T3P	112	32575	208	32.2	56	1	0	0	648
Dekalb DKC63-33RIB	113	32449	187	32.1	54	6	3	2	582
Mean		31194	180	27.7	54	7	7	0	574
Probability(%)									
Hybrid (H)		0.0	0.0	0.0	0.0	0.0	0.0	17.3	0.0
LSD(0.10)									
Hybrid (H)		1519	18	1.7	2	7	7	NS	60

FIELD EXPERIMENT HISTORY

Title: **Corn Hybrid Growth and Development**

Experiment: 01HT **Trial ID:** 5777 **Year:** 2014

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:** Silt Loam

Soil Test: **Date:** 10/1 /14 **pH** 7.5 **OM (%)** 2.7 **P (ppm)** 41 **K (ppm)** 131

Plot Management

Tillage Operations: Chisel Plow Field Cultivator

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 /24/14
Post plant Analysis:	28-0-0	**Rate lbs/A:** 65 lbs/A	**Date:**	6 /27/14
Manure:	9000 gallon			

Herbicide: Steadfast 1.0 oz/A
Keystone 1.5 pt/A
Callisto 3.0 oz/A
Atrazine 0.25 lb/A

Insecticide: Force 3G 4.4 lbs/A

Hybrid: Factor

Irrigation: None

Planting Date: 5/24/14 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 10/29/14 **Harvest Method:** Massey 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:** 31194 **plants per acre**

Factors/Treatments:

Hybrids:

1) Dahlman R39-11
2) Pilgrim 8301-3000GT
3) Jung 7S191RIB
4) FS InVision 36TV4RIB
5) Legacy L3011
6) PIP 3190(Vip3111)
7) NuTech/G2 5X-894
8) Pioneer P9690AM
9) Pioneer P9910AM1
10) FS InVision 53TV4
11) Pioneer P0453HR
12) NuTech/G2 5H-806
13) Renk RK776SSTX
14) Cornelius C594VT3P
15) Renk RK858T3P
16) Dekalb DKC63-33RIB

Results: Table 1401-06.

Table: 1401-06. Determining Corn Hybrid Maturity - Comparison of Hybrid Valders, WI - 2014.

Hybrid	Relative maturity	Harvest density	Grain yield	Grain moisture	Test weight	Lodged			AGI
						Total	Stalk	Root	$3.67
		plants/A	bu/A	%	lb/bu	%	%	%	$/A
Dahlman R39-11	77	27533	119	26.5	53	23	2	21	379
Pilgrim 8301-3000GT	83	33501	145	30.0	51	3	1	2	455
Jung 7S191RIB	85	31944	147	33.5	51	2	0	2	454
FS InVision 36TV4RIB	86	30429	138	37.5	50	0	0	0	419
Legacy L3011	90	30555	140	37.8	49	0	0	0	419
PIP 3190(Vip3111)	90	29798	133	36.1	49	10	9	0	404
NuTech/G2 5X-894	94	29238	131	34.1	50	0	0	0	401
Pioneer P9690AM	96	32323	179	36.6	51	0	0	0	542
Pioneer P9910AM1	99	31818	159	38.7	48	0	0	0	475
FS InVision 53TV4	103	31818	112	50.4	52	0	0	0	308
Pioneer P0453HR	104	32449	140	46.8	51	0	0	0	398
NuTech/G2 5H-806	106	30303	118	51.7	52	0	0	0	321
Renk RK776SSTX	108	31565	115	52.9	53	0	0	0	311
Cornelius C594VT3P	109	31313	104	52.5	52	0	0	0	281
Renk RK858T3P	112	31439	118	51.6	52	0	0	0	324
Dekalb DKC63-33RIB	113	33080	128	47.7	52	0	0	0	361
Mean		31194	133	41.5	51	2	1	2	391
Probability(%)									
Hybrid (H)		2.3	0.1	0.0	2.8	0.0	0.3	0.0	0.0
LSD(0.10)									
Hybrid (H)		2152	23	5.3	2	3	3	2	73