

FIELD EXPERIMENT HISTORY

Title: Corn Hybrid Growth and Development
Experiment: 01HT **Trial ID:** 5941 **Year:** 2015
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 /15 **pH:** 6.2 **OM (%)** 4 **P (ppm)** 65 **K (ppm)** 129

Plot Management

Tillage Operations: Disk Chisel Field Cultivator Cultivated
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 69 lbs/A **Date:** 4 /21/15
Starter Analysis: 10-34-0 **Rate lbs/A:** 3.0 gal/A **Date:** 5 /1 /15
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: None
Herbicide: Dual II Mag 28 oz/A **Insecticide:** Force 3G 4.4 lbs/A
Hornet 4.0 oz/A **Hybrid:** Factor
Irrigation: None
Planting Date: 5/1/15 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/9/15 **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 23.75' **Harvest Plant Density:** 32716 plants per acre

Factors/Treatments:

Hybrid:

- | | |
|--------------------------------------|---------------------------------|
| 1) Dekalb DKC31-01RIB 81RM | 9) Pioneer P9910AM1 99RM |
| 2) NK Brand N15J-3110 82RM | 10) NK Brand N45P-3011A 101RM |
| 3) NK Brand N18Q-3011A 84RM | 11) Cornelius C344VT3P 103RM |
| 4) Tracy Seeds T086-13(Vip3110) 86RM | 12) NuTech/G2 5H-806 106RM |
| 5) Channel 189-03VT2PRIB 89RM | 13) NK Brand N59B-3111A 107RM |
| 6) Legacy Seeds O3011 90RM | 14) AgriGold A6442STXRIB 109RM |
| 7) Titan Pro TP48-932(RIB) 93RM | 15) LG Seeds LG5618STXRIB 112RM |
| 8) Dahlman R48-32VT3PRIB 96RM | 16) Dekalb DKC63-33RIB 113RM |
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Results: Table 1501-01 & 1501-02.

**Table: 1501-01. Determining Corn Hybrid Maturity - Comparison of Hybrids.
Arlington, WI - 2015.**

Hybrid	Relative maturity	Harvest density plants/A	Grain yield bu/A	Grain moisture %	Test wt lb/bu	Lodged			AGI \$3.44 \$/A	Silking date	Early dent	Kernel Milk			Black layer	Ethanol	
						Total %	Stalk %	Root %				75%	50%	25%		per bu	per A
Dekalb DKC31-01RIB	81	33258	214	16.6	59	3	0	3	684	195	224	234	242	249	257	2.95	632
NK Brand N15J-3110	82	30202	201	16.4	60	2	0	2	640	195	227	236	242	250	256	2.95	592
NK Brand N18Q-3011A	84	33870	231	18.7	58	3	0	3	726	195	224	236	242	250	258	2.97	685
Tracy Seeds T086-13(Vip3110)	86	31791	183	16.4	55	6	0	6	584	198	227	235	241	249	256	2.93	536
Channel 189-03VT2PRIB	89	32769	235	17.1	58	3	1	1	748	195	228	238	245	253	258	2.94	691
Legacy Seeds O3011	90	31791	222	18.6	56	2	0	2	697	197	230	239	245	251	258	2.97	657
Titan Pro TP48-932(RIB)	93	33503	239	19.7	56	0	0	0	748	197	229	241	247	254	261	2.94	703
Dahlman R48-32VT3PRIB	96	32892	243	19.3	57	0	0	0	762	197	229	239	248	254	262	2.92	711
Pioneer P9910AM1	99	31424	233	19.1	53	1	0	1	730	199	232	242	250	257	264	2.95	687
NK Brand N45P-3011A	101	33165	244	22.6	57	23	0	23	750	199	234	244	251	257	267	2.95	721
Cornelius C344VT3P	103	33258	230	23.9	54	6	1	5	700	199	234	242	251	260	268	2.86	657
NuTech/G2 5H-806	106	33014	293	26.4	55	4	0	4	875	201	243	251	258	264	273	2.91	850
NK Brand N59B-3111A	107	33381	250	30.5	53	38	0	38	727	201	241	250	256	267	274	2.89	755
AgriGold A6442STXRIB	109	32892	272	30.3	55	38	0	38	793	202	236	245	256	265	274	2.87	780
LG Seeds LG5618STXRIB	112	33136	262	32.5	56	24	0	24	752	201	233	242	257	266	276	2.87	752
Dekalb DKC63-33RIB	113	33992	246	26.8	55	78	0	78	734	200	239	247	254	264	275	2.90	714
Mean		32771	237	22.2	56	14	0	14	728	198	232	241	249	257	265	2.92	695
Probability(%)																	
Hybrid (H)		41.2	0.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LSD(0.10)																	
Hybrid (H)		NS	17	1.6	2	17	NS	17	52	1	3	3	2	2	2	0.02	50

**Table: 1501-02. Determining Corn Hybrid Maturity - Comparison of Hybrids
Arlington, WI - 2015.**

Hybrid	Relative maturity	Day of year	Leaf Development			Plant height inches
			Leaf collars no./plant	Hail adjusters method no./plant	Total leaves no./plant	
Dekalb DKC31-01RIB	81		11.6	13.4	14.2	56.4
NK Brand N15J-3110	82		11.0	12.5	13.4	51.7
NK Brand N18Q-3011A	84		10.8	12.3	13.1	55.7
Tracy Seeds T086-13(Vip3110)	86		11.2	12.8	13.6	53.3
Channel 189-03VT2PRIB	89		11.2	12.7	13.5	58.1
LG Seeds LG5618STXRIB	90		11.2	12.6	13.5	55.8
Titan Pro TP48-932(RIB)	93		11.1	12.6	13.3	54.4
Dahlman R48-32VT3PRIB	96		10.4	11.9	12.7	57.6
Pioneer P9910AM1	99		10.8	12.3	13.2	56.9
NK Brand N45P-3011A	101		11.4	12.8	13.7	60.3
Cornelius C344VT3P	103		11.0	12.4	13.4	58.5
NuTech/G2 5H-806	106		10.8	12.3	13.0	58.7
NK Brand N59B-3111A	107		10.5	11.7	12.4	57.4
AgriGold A6442STXRIB	109		10.7	11.9	12.8	57.0
Legacy Seeds O3011	112		11.0	12.3	13.2	56.8
Dekalb DKC63-33RIB	113		11.4	12.8	14.0	56.6
		147	2.9	3.8	4.9	3.8
		159	5.0	7.2	8.2	14.4
		174	8.4	12.2	13.2	37.8
		187	12.3	14.3	16.1	73.6
		201	18.4	18.6	18.7	102.1
		215	19.0	18.7	18.8	107.7
Dekalb DKC31-01RIB	81	147	3.0	4.5	5.5	3.6
Dekalb DKC31-01RIB	81	159	5.3	8.3	9.3	15.3
Dekalb DKC31-01RIB	81	174	9.0	14.0	15.0	39.2
Dekalb DKC31-01RIB	81	187	14.8	16.2	17.5	78.5
Dekalb DKC31-01RIB	81	201	18.8	18.8	18.8	100.5
Dekalb DKC31-01RIB	81	215	18.8	18.8	18.8	101.3
NK Brand N15J-3110	82	147	3.0	3.8	5.2	3.5
NK Brand N15J-3110	82	159	5.0	7.8	8.7	13.1
NK Brand N15J-3110	82	174	8.7	12.7	13.7	34.5
NK Brand N15J-3110	82	187	12.7	14.0	16.3	70.2
NK Brand N15J-3110	82	201	18.3	18.3	18.3	93.7
NK Brand N15J-3110	82	215	18.3	18.3	18.3	95.0

continued

**Table: 1501-02. Determining Corn Hybrid Maturity - Comparison of Hybrids
Arlington, WI - 2015.**

(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	
NK Brand N18Q-3011A	84	147	3.0	4.0	5.0	4.2
NK Brand N18Q-3011A	84	159	5.0	7.3	8.3	13.9
NK Brand N18Q-3011A	84	174	8.3	12.3	13.3	38.7
NK Brand N18Q-3011A	84	187	12.2	13.8	15.7	73.7
NK Brand N18Q-3011A	84	201	18.2	18.2	18.2	100.2
NK Brand N18Q-3011A	84	215	18.2	18.2	18.2	103.5
Tracy Seeds T086-13(Vip3110)	86	147	3.0	4.0	5.0	3.5
Tracy Seeds T086-13(Vip3110)	86	159	5.0	7.2	8.2	13.4
Tracy Seeds T086-13(Vip3110)	86	174	8.8	12.8	13.8	32.8
Tracy Seeds T086-13(Vip3110)	86	187	12.2	14.7	16.7	68.8
Tracy Seeds T086-13(Vip3110)	86	201	19.0	19.0	19.0	99.3
Tracy Seeds T086-13(Vip3110)	86	215	19.2	19.0	19.0	101.8
Channel 189-03VT2PRIB	89	147	3.0	3.8	5.2	4.0
Channel 189-03VT2PRIB	89	159	5.2	8.0	8.8	15.7
Channel 189-03VT2PRIB	89	174	9.0	12.8	14.2	41.0
Channel 189-03VT2PRIB	89	187	13.3	14.7	16.3	77.2
Channel 189-03VT2PRIB	89	201	18.3	18.3	18.3	104.0
Channel 189-03VT2PRIB	89	215	18.3	18.3	18.3	106.8
Legacy Seeds O3011	90	147	2.8	3.3	4.8	3.7
Legacy Seeds O3011	90	159	5.0	7.7	8.7	13.5
Legacy Seeds O3011	90	174	8.7	12.2	13.3	37.5
Legacy Seeds O3011	90	187	13.0	14.3	16.0	74.0
Legacy Seeds O3011	90	201	18.2	18.2	18.2	104.5
Legacy Seeds O3011	90	215	18.2	18.2	18.2	107.8
Titan Pro TP48-932(RIB)	93	147	3.0	3.8	4.7	3.8
Titan Pro TP48-932(RIB)	93	159	5.0	7.2	8.2	13.5
Titan Pro TP48-932(RIB)	93	174	8.7	12.5	13.5	38.8
Titan Pro TP48-932(RIB)	93	187	12.3	14.7	16.0	69.7
Titan Pro TP48-932(RIB)	93	201	18.8	18.8	18.8	98.2
Titan Pro TP48-932(RIB)	93	215	18.8	18.8	18.8	102.7
Dahlman R48-32VT3PRIB	96	147	3.0	3.8	5.2	3.8
Dahlman R48-32VT3PRIB	96	159	5.0	7.2	8.2	17.1
Dahlman R48-32VT3PRIB	96	174	8.3	11.8	12.8	41.5
Dahlman R48-32VT3PRIB	96	187	12.0	14.5	15.7	75.7
Dahlman R48-32VT3PRIB	96	201	17.2	17.2	17.2	103.3
Dahlman R48-32VT3PRIB	96	215	17.2	17.2	17.2	104.3

continued

Table: 1501-02. Determining Corn Hybrid Maturity - Comparison of Hybrids
 (continued) **Arlington, WI - 2015.**

Hybrid	Relative maturity	Day of year	Leaf Development			Plant height inches
			Leaf collars no./plant	Hail adjusters method no./plant	Total leaves no./plant	
Pioneer P9910AM1	99	147	2.5	3.3	4.7	3.2
Pioneer P9910AM1	99	159	5.0	6.8	7.8	12.8
Pioneer P9910AM1	99	174	8.2	11.8	12.8	35.8
Pioneer P9910AM1	99	187	11.7	14.2	16.3	73.0
Pioneer P9910AM1	99	201	18.7	18.7	18.7	106.2
Pioneer P9910AM1	99	215	18.7	18.7	18.7	110.2
NK Brand N45P-3011A	101	147	3.0	3.5	5.0	3.5
NK Brand N45P-3011A	101	159	5.0	7.2	8.0	16.0
NK Brand N45P-3011A	101	174	8.0	11.8	12.8	38.8
NK Brand N45P-3011A	101	187	12.8	14.8	16.5	78.3
NK Brand N45P-3011A	101	201	19.8	19.8	19.8	109.0
NK Brand N45P-3011A	101	215	19.8	19.8	19.8	116.0
Cornelius C344VT3P	103	147	3.0	3.7	4.7	4.5
Cornelius C344VT3P	103	159	5.0	7.0	8.0	14.8
Cornelius C344VT3P	103	174	8.0	11.8	13.0	37.8
Cornelius C344VT3P	103	187	12.0	14.2	16.8	74.8
Cornelius C344VT3P	103	201	19.0	19.0	19.0	105.2
Cornelius C344VT3P	103	215	19.0	19.0	19.0	113.7
NuTech/G2 5H-806	106	147	3.0	4.0	5.0	3.7
NuTech/G2 5H-806	106	159	5.0	7.0	8.0	14.3
NuTech/G2 5H-806	106	174	8.0	11.3	12.3	38.2
NuTech/G2 5H-806	106	187	11.3	13.8	15.0	74.7
NuTech/G2 5H-806	106	201	17.5	18.2	18.5	105.5
NuTech/G2 5H-806	106	215	19.8	19.2	19.2	116.0
NK Brand N59B-3111A	107	147	2.5	4.0	4.2	4.5
NK Brand N59B-3111A	107	159	5.0	6.0	7.0	14.8
NK Brand N59B-3111A	107	174	8.0	10.8	11.8	36.7
NK Brand N59B-3111A	107	187	10.8	13.2	15.2	73.3
NK Brand N59B-3111A	107	201	17.2	18.0	18.2	102.5
NK Brand N59B-3111A	107	215	19.7	18.0	18.2	112.7
AgriGold A6442STXRIB	109	147	2.8	3.3	4.8	3.4
AgriGold A6442STXRIB	109	159	5.0	6.7	7.7	13.5
AgriGold A6442STXRIB	109	174	8.7	11.5	12.5	37.0
AgriGold A6442STXRIB	109	187	11.3	13.8	15.2	71.0
AgriGold A6442STXRIB	109	201	17.0	17.7	17.8	103.2
AgriGold A6442STXRIB	109	215	19.2	18.2	18.7	113.7

continued

Table: 1501-02. Determining Corn Hybrid Maturity - Comparison of Hybrids
 (continued) **Arlington, WI - 2014.**

Hybrid	Relative maturity	Day of year	Leaf Development			Plant height inches
			Leaf collars no./plant	Hail adjusters method no./plant	Total leaves no./plant	
LG Seeds LG5618STXRIB	112	147	3.0	3.5	4.7	3.8
LG Seeds LG5618STXRIB	112	159	5.0	7.0	8.0	15.6
LG Seeds LG5618STXRIB	112	174	8.5	12.2	13.2	38.2
LG Seeds LG5618STXRIB	112	187	11.8	13.7	16.0	69.5
LG Seeds LG5618STXRIB	112	201	18.5	19.5	19.5	98.5
LG Seeds LG5618STXRIB	112	215	20.2	19.5	19.5	109.3
Dekalb DKC63-33RIB	113	147	3.2	3.5	5.0	3.8
Dekalb DKC63-33RIB	113	159	5.0	7.2	8.2	13.4
Dekalb DKC63-33RIB	113	174	8.3	12.3	13.5	38.3
Dekalb DKC63-33RIB	113	187	12.2	15.0	17.0	76.0
Dekalb DKC63-33RIB	113	201	19.2	19.3	20.2	100.0
Dekalb DKC63-33RIB	113	215	20.8	19.3	20.2	107.8
Mean			11.0	12.5	13.3	56.6
<u>Probability(%)</u>						
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
<u>LSD(0.10)</u>						
Hybrid (H)			0.2	0.3	0.2	1.5
Day Of Year (D)			0.1	0.2	0.1	0.9
H x D			0.5	0.6	0.5	3.6

FIELD EXPERIMENT HISTORY

Title: Corn Hybrid Growth and Development
Experiment: 01HT **Trial ID:** 6001 **Year:** 2015
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Monfort, WI **County:** Iowa
Supported By: HATCH

Site Information

Field: **Previous Crop:** Corn **Soil Type:** Dodgeville Silt Loam
Soil Test: **Date:** 10/1 /15 **pH:** 6.8 **OM (%)** 3.9 **P (ppm)** 135 **K (ppm)** 233

Plot Management

Tillage Operations: Chisel Plow Field Cultivator
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 /13/15
Post plant Analysis: 32-0-0 **Rate lbs/A:** 20 gal/A **Date:** N/A
Manure: N/A
Herbicide: Lumax 1.5 qt/A **Insecticide:** Force 3G 4.4 lbs/A
Impact 0.75 oz/A **Hybrid:** Factor
Irrigation: None
Planting Date: 5/13/15 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/22/15 **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 23.75' **Harvest Plant Density:** 31332 plants per acre

Factors/Treatments:

Hybrid:

- | | |
|--------------------------------------|---------------------------------|
| 1) Dekalb DKC31-01RIB 81RM | 9) Pioneer P9910AM1 99RM |
| 2) NK Brand N15J-3110 82RM | 10) NK Brand N45P-3011A 101RM |
| 3) NK Brand N18Q-3011A 84RM | 11) Cornelius C344VT3P 103RM |
| 4) Tracy Seeds T086-13(Vip3110) 86RM | 12) NuTech/G2 5H-806 106RM |
| 5) Channel 189-03VT2PRIB 89RM | 13) NK Brand N59B-3111A 107RM |
| 6) Legacy Seeds O3011 90RM | 14) AgriGold A6442STXRIB 109RM |
| 7) Titan Pro TP48-932(RIB) 93RM | 15) LG Seeds LG5618STXRIB 112RM |
| 8) Dahlman R48-32VT3PRIB 96RM | 16) Dekalb DKC63-33RIB 113RM |
-

Results: Table 1501-03.

**Table: 1501-03. Determining Corn Hybrid Maturity - Comparison of Hybrids
Montfort, WI - 2015.**

Hybrid	Relative maturity	Harvest density plants/A	Grain yield bu/A	Grain moisture %	Test weight lb/bu	Lodged			AGI \$3.44 \$/A
						Total %	Stalk %	Root %	
Dekalb DKC31-01RIB	81	31180	172	14.1	56	4	3	1	553
NK Brand N15J-3110	82	30935	188	14.8	58	1	1	0	602
NK Brand N18Q-3011A	84	30691	200	16.3	57	16	16	0	639
Tracy Seeds T086-13(Vip3110)	86	31180	161	15.2	55	13	9	4	516
Channel 189-03VT2PRIB	89	31302	197	14.8	55	5	1	5	632
Legacy Seeds O3011	90	31058	188	14.9	55	3	2	1	602
Titan Pro TP48-932(RIB)	93	31791	204	16.4	56	4	4	0	650
Dahlman R48-32VT3PRIB	96	31302	192	15.5	56	4	1	2	616
Pioneer P9910AM1	99	31547	198	14.7	54	0	0	0	635
NK Brand N45P-3011A	101	31547	218	18.9	56	11	11	0	686
Cornelius C344VT3P	103	31302	214	17.8	56	12	10	2	675
NuTech/G2 5H-806	106	31669	243	19.6	56	21	2	20	759
NK Brand N59B-3111A	107	31180	195	23.6	52	62	24	38	595
AgriGold A6442STXRIB	109	31791	239	23.0	55	27	16	11	731
LG Seeds LG5618STXRIB	112	31180	264	25.2	54	4	4	0	795
Dekalb DKC63-33RIB	113	31669	216	21.9	56	48	45	3	666
Mean		31333	205	17.9	55	15	9	5	647
<u>Probability(%)</u>									
Hybrid (H)		98.7	0.0	0.0	0.1	0.0	5.7	13.7	0.0
<u>LSD(0.10)</u>									
Hybrid (H)		NS	14	1.0	2	19	20	NS	44

FIELD EXPERIMENT HISTORY

Title: Corn Hybrid Growth and Development
Experiment: 01HT **Trial ID:** 6002 **Year:** 2015
Personnel: Joe Lauer, Kent Kohn, Thierno Diallo
Location: Marshfield, WI **County:** Marathon
Supported By: HATCH

Site Information

Field: **Previous Crop:** Oats **Soil Type:** Withee Silt Loam
Soil Test: **Date:** 10/1 /15 **pH:** 7.1 **OM (%)** 3.7 **P (ppm)** 60 **K (ppm)** 220

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Pulvimulcher
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 /29/15
Post plant Analysis: 32-0-0 **Rate lbs/A:** 40 gal/A **Date:** 6 /22/15
Manure: None
Herbicide: Medal II 1.75 pt/A **Insecticide:** Force 3G 4.4 lbs/A
Hornet 3.0 oz/A **Hybrid:** Factor
Accent Q 1.0 oz/A
Irrigation: None
Planting Date: 4/29/15 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/21/15 **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 23.75' **Harvest Plant Density:** 31325 plants per acre

Factors/Treatments:

Hybrid:

- | | |
|--------------------------------------|---------------------------------|
| 1) Dekalb DKC31-01RIB 81RM | 9) Pioneer P9910AM1 99RM |
| 2) NK Brand N15J-3110 82RM | 10) NK Brand N45P-3011A 101RM |
| 3) NK Brand N18Q-3011A 84RM | 11) Cornelius C344VT3P 103RM |
| 4) Tracy Seeds T086-13(Vip3110) 86RM | 12) NuTech/G2 5H-806 106RM |
| 5) Channel 189-03VT2PRIB 89RM | 13) NK Brand N59B-3111A 107RM |
| 6) Legacy Seeds O3011 90RM | 14) AgriGold A6442STXRIB 109RM |
| 7) Titan Pro TP48-932(RIB) 93RM | 15) LG Seeds LG5618STXRIB 112RM |
| 8) Dahlman R48-32VT3PRIB 96RM | 16) Dekalb DKC63-33RIB 113RM |
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Results: Table 1501-04.

**Table: 1501-04. Determining Corn Hybrid Maturity - Comparison of Hybrids
Marshfield, WI - 2015.**

Hybrid	Relative Harvest maturity	Harvest density plants/A	Grain yield bu/A	Grain moisture %	Test weight lb/bu	Lodged			AGI \$3.44 \$/A
						Total %	Stalk %	Root %	
Dekalb DKC31-01RIB	81	29713	175	21.4	54	0	0	0	542
NK Brand N15J-3110	82	32403	148	19.9	55	0	0	0	461
NK Brand N18Q-3011A	84	32158	168	22.3	55	0	0	0	517
Tracy Seeds T086-13(Vip3110)	86	30813	162	23.4	51	0	0	0	493
Channel 189-03VT2PRIB	89	30935	178	23.4	52	0	0	0	543
Legacy Seeds O3011	90	31547	183	24.4	51	0	0	0	554
Titan Pro TP48-932(RIB)	93	31913	192	27.1	50	0	0	0	571
Dahlman R48-32VT3PRIB	96	32647	176	24.1	52	0	0	0	535
Pioneer P9910AM1	99	30079	146	26.0	49	2	2	0	437
NK Brand N45P-3011A	101	32158	182	26.7	52	1	1	0	544
Cornelius C344VT3P	103	29957	183	30.9	52	0	0	0	530
NuTech/G2 5H-806	106	30691	210	31.5	53	0	0	0	608
NK Brand N59B-3111A	107	32403	179	39.6	52	0	0	0	490
AgriGold A6442STXRIB	109	30813	177	42.4	54	0	0	0	473
LG Seeds LG5618STXRIB	112	30446	186	42.8	55	0	0	0	497
Dekalb DKC63-33RIB	113	32525	188	38.5	53	0	0	0	516
Mean		31325	177	29.0	53	0	0	0	519
<u>Probability(%)</u>									
Hybrid (H)		43.5	0.0	0.0	0.0	72.3	72.3	-	0.0
<u>LSD(0.10)</u>									
Hybrid (H)		NS	16	3.6	2	NS	NS	NS	51

FIELD EXPERIMENT HISTORY

Title: Corn Hybrid Growth and Development
Experiment: 01HT **Trial ID:** 6003 **Year:** 2015
Personnel: Joe Lauer, Kent Kohn, Thierno 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 /15 **pH:** 6.9 **OM (%)** 3.6 **P (ppm)** 28 **K (ppm)** 142

Plot Management

Tillage Operations: Chisel Plow Field Cultivator Cultivated
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 /4 /15
Post plant Analysis: 28-0-0 **Rate lbs/A:** 30 gal/A **Date:** 6 /23/15
Manure: None
Herbicide: Capreno 3.0 oz/A **Insecticide:** Force 3G 4.4 lbs/A
Harness Xtra 1.7 qt/A **Hybrid:** Factor
Irrigation: None
Planting Date: 5/4/15 **Planting Depth:** 1.5" **Row Width:** 30"
Target Plant Density: 32000 plants per acre **Planting Method:** Almaco Precision Planter
Harvest Date: 10/19/15 **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 23.75' **Harvest Plant Density:** 30064 plants per acre

Factors/Treatments:

Hybrid:

- | | |
|--------------------------------------|---------------------------------|
| 1) Dekalb DKC31-01RIB 81RM | 9) Pioneer P9910AM1 99RM |
| 2) NK Brand N15J-3110 82RM | 10) NK Brand N45P-3011A 101RM |
| 3) NK Brand N18Q-3011A 84RM | 11) Cornelius C344VT3P 103RM |
| 4) Tracy Seeds T086-13(Vip3110) 86RM | 12) NuTech/G2 5H-806 106RM |
| 5) Channel 189-03VT2PRIB 89RM | 13) NK Brand N59B-3111A 107RM |
| 6) Legacy Seeds O3011 90RM | 14) AgriGold A6442STXRIB 109RM |
| 7) Titan Pro TP48-932(RIB) 93RM | 15) LG Seeds LG5618STXRIB 112RM |
| 8) Dahlman R48-32VT3PRIB 96RM | 16) Dekalb DKC63-33RIB 113RM |
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Results: Table 1501-05.

**Table: 1501-05. Determining Corn Hybrid Maturity - Comparison of Hybrids
Seymour, WI - 2015.**

Hybrid	Relative maturity	Harvest density plants/A	Grain yield bu/A	Grain moisture %	Test weight lb/bu	Lodged			AGI \$3.44 \$/A
						Total %	Stalk %	Root %	
Dekalb DKC31-01RIB	81	31547	162	19.2	56	0	0	0	511
NK Brand N15J-3110	82	28734	141	17.6	56	0	0	0	446
NK Brand N18Q-3011A	84	30079	175	18.2	56	0	0	0	554
Tracy Seeds T086-13(Vip3110)	86	28734	147	17.6	54	0	0	0	467
Channel 189-03VT2PRIB	89	31302	193	18.1	55	1	1	0	609
Legacy Seeds O3011	90	28857	197	19.1	54	1	1	0	620
Titan Pro TP48-932(RIB)	93	30691	190	22.1	53	0	0	0	587
Dahlman R48-32VT3PRIB	96	28245	169	20.7	54	0	0	0	526
Pioneer P9910AM1	99	28734	149	20.4	50	0	0	0	465
NK Brand N45P-3011A	101	30691	173	22.1	52	0	0	0	534
Cornelius C344VT3P	103	29468	179	24.4	52	0	0	0	544
NuTech/G2 5H-806	106	32036	215	26.6	51	1	1	0	643
NK Brand N59B-3111A	107	28490	154	32.1	49	0	0	0	444
AgriGold A6442STXRIB	109	31302	154	35.4	51	0	0	0	434
LG Seeds LG5618STXRIB	112	32036	170	36.3	53	0	0	0	477
Dekalb DKC63-33RIB	113	30079	156	30.0	50	0	0	0	455
Mean		30064	170	23.7	53	0	0	0	520
<u>Probability(%)</u>									
Hybrid (H)		3.7	0.2	0.0	0.0	9.0	5.7	48.0	0.1
<u>LSD(0.10)</u>									
Hybrid (H)		2190	26	3.1	2	1	1	NS	86